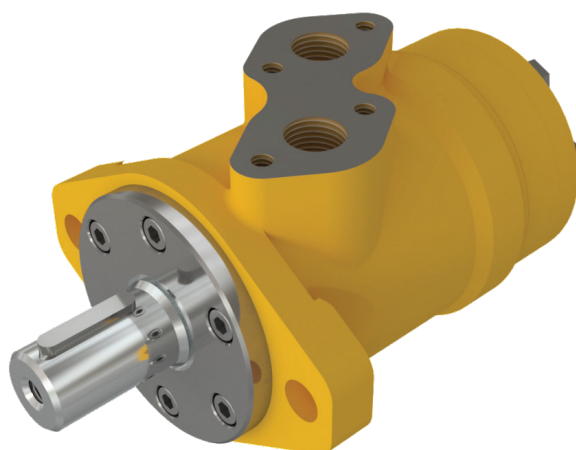
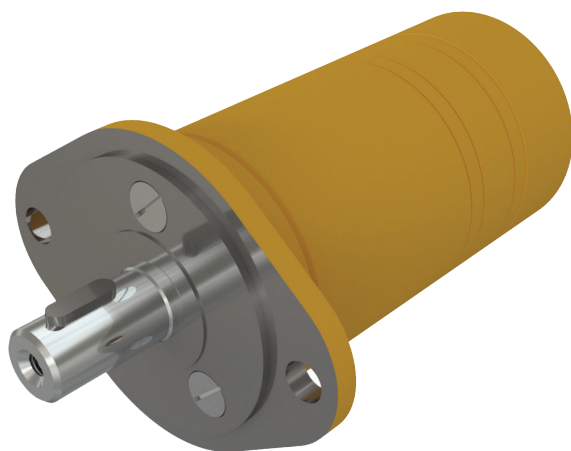




HYDRAULIC MOTORS CATALOG



INNOVATIVE MOBILE SOLUTIONS
DESIGN ▼ MANUFACTURE ▼ INTEGRATE

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INNOVATIVE MOBILE SOLUTIONS

Eagle Hydraulic Inc. is a Canadian based manufacturer of custom and standard hydraulic solutions.

We manufacture hydraulic cylinders, hydraulic power units and pumps as well as engineer and integrate more than 500,000 other hydraulic components such as motors, valves, manifolds, and many more options.

Serving the mobile equipment industry for decades, our products are designed and supported from our head office located in Mirabel, Quebec, Canada to exceed North American standards.

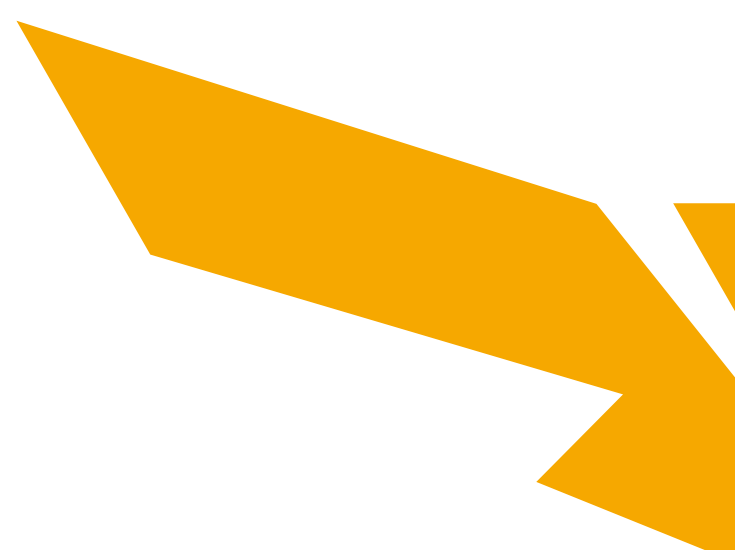
We own and operate two hydraulic cylinder manufacturing facilities located in China. Our manufacturing operations are certified ISO TS16949. We are also a certified OEM production supplier to many large North American based corporations.

Our services include custom components or system design, on-site visits, continuous support, flexible delivery and stocking programs, inventory updates, many warranty options and responsive service.

We strive to provide you the best experience and deliver high-quality merchandise faster than expected.

Eagle Hydraulic adds value through innovation, quality, respect, commitment, loyalty, and teamwork.

OUR CAPABILITIES



1

OEM HYDRAULIC CYLINDERS

2

STANDARD HYDRAULIC CYLINDERS

3

HYDRAULIC POWER UNITS

-AC
-DC

4

HYDRAULIC COMPONENTS

-Pumps
-Motors

5

SYSTEM INTEGRATION

6

NEW: NOVAPEAK

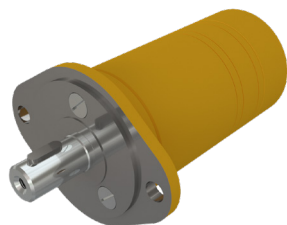
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EBMM series motor is a small volume, economical type, which is designed with shaft distribution flow, which adapts the Gerotor gear set design and provides a compact volume, high power and low weight.

FEATURES

- Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
- Shaft seal can bear high pressure and can be used in parallel or in series.
- Advanced construction design, high power and low weight.
- Speed sensor available on request.
- Internal construction: no bearing, no bushing



EBMM - Flange F - Rear Port

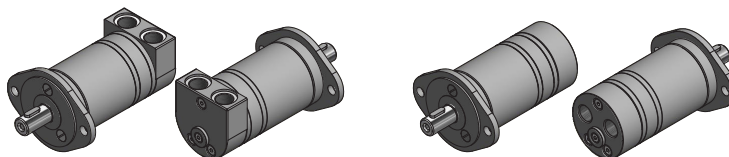
		Max. Inlet Pressure
EBMM8-50	Continuous PSI (bar)	2538 (175)
	Intermittent PSI (bar)	3263 (225)

		EBMM 8	EBMM 12.5	EBMM 20	EBMM 32	EBMM 40	EBMM 50
Geometric displacement	in ³ /rev (cm ³ /rev.)	0.5 (8.2)	0.79 (12.9)	1.21 (19.9)	1.93 (31.6)	2.43 (39.8)	3.07 (50.3)
Max. Speed	Continuous (rpm)	1950	1550	1000	630	500	400
	Intermittent (rpm)	2450	1940	1250	800	630	500
Max. Torque	Continuous lbf•ft (N•m)	8.12 (11)	11.81 (16)	18.45 (25)	29.52 (40)	33.21 (45)	33.95 (46)
	Intermittent lbf•ft (N•m)	11.07 (15)	16.97 (23)	25.83 (35)	42.07 (57)	51.66 (70)	64.94 (88)
	Peak lbf•ft (N•m)	15.5 (21)	24.35 (33)	37.64 (51)	47.23 (64)	60.52 (82)	73.8 (100)
Max. Output	Continuous hp (kW)	2.4 (1.8)	3.2 (2.4)	3.2 (2.4)	3.2 (2.4)	2.9 (2.2)	2.4 (1.8)
	Intermittent hp (kW)	3.5 (2.6)	4.3 (3.2)	4.3 (3.2)	4.3 (3.2)	4.3 (3.2)	4.3 (3.2)
Max. Pressure Drop	Continuous PSI (bar)	1450 (100)	1450 (100)	1450 (100)	1450 (100)	1305 (90)	1015 (70)
	Intermittent PSI (bar)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)
	Peak PSI (bar)	2900 (200)	2900 (200)	2900 (200)	2320 (160)	2320 (160)	2320 (160)
Max. Flow	Continuous GPM (L/min)	4.2 (16)	5.3 (20)	5.3 (20)	5.3 (20)	5.3 (20)	5.3 (20)
	Intermittent GPM (L/min)	5.3 (20)	6.6 (25)	6.6 (25)	6.6 (25)	6.6 (25)	6.6 (25)
Weight	Lbs (kg)	4.2 (1.9)	4.4 (2)	4.62 (2.1)	4.84 (2.2)	5.0 (2.3)	5.28 (2.4)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



EBMM ORDER INFORMATION

EBMM 2 3 4 5 6 7 8

1	2	3		4		5		6		7		8	
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	8	M	3-M6 Circle-Flange, Pilot Ø31.5x5	A	Shaft Ø16, Parallel Key 5x5x16	E	G3/8, G1/8	Blank	Standard	00	No Paint	Blank	Standard
	12.5	U	3-1/4-28UNF Circle-Flange, Pilot Ø31.5x5	B	Shaft Ø5/8", Parallel Key 3/16"SQ x 3/4"	U	9/16-18UNF, 3/8-24UNF	R	Opposite	Omit	Black	0	No Case Drain
	20	F	2-Ø9 Rhomb-Flange, Pilot Ø63x2	C	Shaft Ø16.5, Involute B17x14, DIN5482	1E	End Port G3/8, G1/8						
	32					1U	End Port 9/16-18UNF, 3/8-24UNF						
	40												
	50												

All numbers given are nominal values and should be used for reference only.

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PERFORMANCE DATA



EBMM8 - 0.5 in³/rev (8.2 cm³/rev)

			Max. Cont.				Max. Int.		
Pressure PSI (bar)			508 (35)	725 (50)	1015 (70)	1450 (100)	1740 (120)	2030 (140)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	2.2 (3)	3.7 (5)	5.9 (8)	7.4 (10)	8.9 (12)	10.3 (14)	
		Speed (rpm)	228	218	206	156	111	58	
	1.0 (4)	Torque lbf•ft (N•m)	2.2 (3)	3.7 (5)	5.2 (7)	8.1 (11)	9.6 (13)	11.1 (15)	
		Speed (rpm)	474	471	463	426	391	331	
	2.0 (8)	Torque lbf•ft (N•m)	2.2 (3)	3.7 (5)	5.2 (7)	8.1 (11)	9.6 (13)	11.1 (15)	
		Speed (rpm)	953	946	926	884	855	816	
	3.0 (12)	Torque lbf•ft (N•m)	1.5 (2)	3.7 (5)	5.2 (7)	7.4 (10)	9.6 (13)	11.1 (15)	
		Speed (rpm)	1444	1426	1402	1360	1324	1288	
	4.0 (15)	Torque lbf•ft (N•m)		3.0 (4)	5.2 (7)	7.4 (10)	8.9 (12)	10.3 (14)	
		Speed (rpm)		1912	1900	1861	1833	1780	
	Max. Cont.	5.25 (20)	Torque lbf•ft (N•m)		0	4.4 (6)	7.4 (10)	8.1 (11)	10.3 (14)
	Max. Int.		Speed (rpm)		2432	2395	2350	2328	2281

EBMM

EBMM12.5 - 0.79 in³/rev (12.9 cm³/rev)

			Max. Cont.				Max. Int.	
Pressure PSI (bar)			508 (35)	725 (50)	1015 (70)	1450 (100)	1740 (120)	2030 (140)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	4.4 (6)	5.9 (8)	8.1 (11)	11.8 (16)	14.0 (19)	
		Speed (rpm)	140	136	119	68	35	
	1.0 (4)	Torque lbf•ft (N•m)	4.4 (6)	5.9 (8)	8.9 (12)	12.5 (17)	14.0 (19)	17.0 (23)
		Speed (rpm)	296	289	274	229	200	145
	2.0 (8)	Torque lbf•ft (N•m)	3.7 (5)	5.9 (8)	8.9 (12)	12.5 (17)	14.8 (20)	17.7 (24)
		Speed (rpm)	605	596	583	543	514	469
	3.0 (12)	Torque lbf•ft (N•m)	3.7 (5)	5.9 (8)	8.1 (11)	11.8 (16)	14.8 (20)	17.7 (24)
		Speed (rpm)	912	905	895	859	834	784
	4.0 (15)	Torque lbf•ft (N•m)	3.7 (5)	5.2 (7)	8.1 (11)	11.8 (16)	14.0 (19)	17.0 (23)
		Speed (rpm)	1152	1144	1136	1102	1078	1036
	5.25 (20)	Torque lbf•ft (N•m)	2.2 (3)	5.2 (7)	7.4 (10)	11.0 (15)	14.0 (19)	16.2 (22)
		Speed (rpm)	1542	1532	1521	1500	1482	1437
	6.6 (25)	Torque lbf•ft (N•m)	1.5 (2)	4.4 (6)	6.6 (9)	10.3 (14)	13.3 (18)	16.2 (22)
		Speed (rpm)	1910	1891	1878	1848	1828	1788



All numbers given are nominal values and should be used for reference only.

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EBMM20 - 1.2 in³/rev (19.9 cm³/rev)

		Max. Cont.						Max. Int.
		Pressure PSI (bar)						
		246 (17)	508 (35)	725 (50)	1015 (70)	1450 (100)	1740 (120)	2030 (140)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	2.2 (3)	6.6 (9)	10.3 (14)	14.0 (19)	19.2 (26)	22.1 (30)
		Speed (rpm)	99	96	89	74	42	21
	1.0 (4)	Torque lbf•ft (N•m)	3.0 (4)	6.6 (9)	10.3 (14)	14.0 (19)	19.2 (26)	22.9 (31)
		Speed (rpm)	197	191	182	178	134	112
	2.0 (8)	Torque lbf•ft (N•m)	3.0 (4)	6.6 (9)	9.6 (13)	14.0 (19)	19.9 (27)	22.9 (31)
		Speed (rpm)	398	395	391	377	340	319
	3.0 (12)	Torque lbf•ft (N•m)	2.2 (3)	5.9 (8)	9.6 (13)	13.3 (18)	19.2 (26)	22.9 (31)
		Speed (rpm)	596	594	588	579	545	523
	4.0 (15)	Torque lbf•ft (N•m)	2.2 (3)	5.9 (8)	8.9 (12)	12.5 (17)	18.5 (25)	22.1 (30)
		Speed (rpm)	745	741	738	728	695	684
	5.25 (20)	Torque lbf•ft (N•m)	0.7 (1)	4.4 (6)	8.1 (11)	14.0 (19)	17.7 (24)	21.4 (29)
		Speed (rpm)	998	995	991	985	962	916
Max. Cont.	6.6 (25)	Torque lbf•ft (N•m)		3.0 (4)	6.6 (9)	10.3 (14)	17.0 (23)	20.7 (28)
Max. Int.		Speed (rpm)		1247	1245	1242	1189	1180

EBMM32 - 1.9 in³/rev (31.6 cm³/rev)

		Max. Cont.						Max. Int.
		Pressure PSI (bar)						
		290 (20)	508 (35)	725 (50)	1015 (70)	1450 (100)	1740 (120)	2030 (140)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	5.2 (7)	11.1 (15)	15.5 (21)	20.7 (28)	29.5 (40)	
		Speed (rpm)	61	57	52	47	16	
	1.0 (4)	Torque lbf•ft (N•m)	5.2 (7)	11.1 (15)	15.5 (21)	21.4 (29)	30.3 (41)	35.4 (48)
		Speed (rpm)	126	121	114	106	82	67
	2.0 (8)	Torque lbf•ft (N•m)	5.2 (7)	11.1 (15)	15.5 (21)	21.4 (29)	30.3 (41)	36.2 (49)
		Speed (rpm)	250	244	239	231	207	194
	3.0 (12)	Torque lbf•ft (N•m)	4.4 (6)	9.6 (13)	14.8 (20)	20.7 (28)	29.5 (40)	35.4 (48)
		Speed (rpm)	378	374	369	362	338	322
	4.0 (15)	Torque lbf•ft (N•m)	3.0 (4)	8.9 (12)	13.3 (18)	19.9 (27)	28.8 (39)	34.7 (47)
		Speed (rpm)	476	472	468	462	441	429
	5.25 (20)	Torque lbf•ft (N•m)	2.2 (3)	7.4 (10)	12.5 (17)	18.5 (25)	27.3 (37)	33.9 (46)
		Speed (rpm)	633	630	627	619	601	585
Max. Cont.	6.6 (25)	Torque lbf•ft (N•m)	0.7 (1)	5.9 (8)	11.1 (15)	17.0 (23)	25.8 (35)	31.7 (43)
Max. Int.		Speed (rpm)	791	789	787	783	766	753

EBMM40 - 2.4 in³/rev (39.8 cm³/rev)

			Max. Cont.				Max. Int.	
Pressure PSI (bar)			435 (30)	725 (50)	1015 (70)	1232 (85)	1450 (100)	1740 (120)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	11.8 (16)	19.9 (27)	26.6 (36)	32.5 (44)	37.6 (51)	
		Speed (rpm)	45	40	34	28	17	
	1.0 (4)	Torque lbf•ft (N•m)	11.8 (16)	19.9 (27)	27.3 (37)	32.5 (44)	38.4 (52)	45.8 (62)
		Speed (rpm)	96	93	85	79	65	52
	2.0 (8)	Torque lbf•ft (N•m)	11.1 (15)	19.2 (26)	26.6 (36)	32.5 (44)	38.4 (52)	46.5 (63)
		Speed (rpm)	197	195	182	176	166	154
	3.0 (12)	Torque lbf•ft (N•m)	10.3 (14)	18.5 (25)	25.8 (35)	31.7 (43)	37.6 (51)	45.8 (62)
		Speed (rpm)	293	287	282	277	268	257
	4.0 (15)	Torque lbf•ft (N•m)	9.6 (13)	17.7 (24)	25.1 (34)	31.0 (42)	36.9 (50)	45.8 (62)
		Speed (rpm)	371	365	360	355	347	338
	Max. Cont. 5.25 (20)	Torque lbf•ft (N•m)	7.4 (10)	15.5 (21)	22.9 (31)	28.8 (39)	35.4 (48)	43.5 (59)
		Speed (rpm)	497	492	487	480	472	463
Max. Int. 6.6 (25)	Torque lbf•ft (N•m)	5.2 (7)	14.0 (19)	21.4 (29)	27.3 (37)	32.5 (44)	41.3 (56)	
	Speed (rpm)	622	617	612	607	600	591	

EBMM

EBMM50 - 3.1 in³/rev (50.3 cm³/rev)

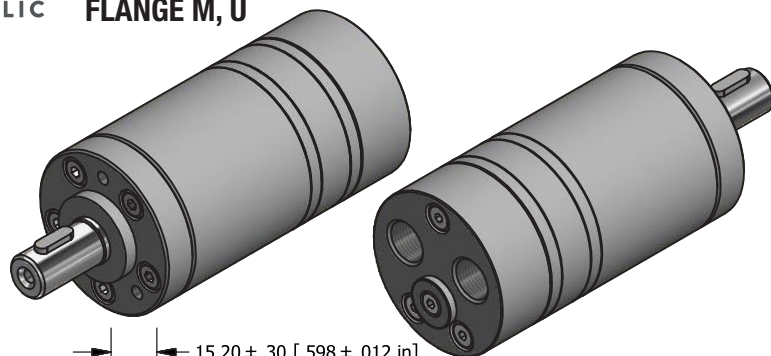
			Max. Cont.				Max. Int.
Pressure PSI (bar)			218 (15)	435 (30)	725 (50)	1015 (70)	1450 (100)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	8.1 (11)	17.0 (23)	26.6 (36)	36.9 (50)	
		Speed (rpm)	37	33	27	22	
	1.0 (4)	Torque lbf•ft (N•m)	8.1 (11)	16.2 (22)	26.6 (36)	36.9 (50)	51.7 (70)
		Speed (rpm)	76	73	68	63	55
	2.0 (8)	Torque lbf•ft (N•m)	8.1 (11)	15.5 (21)	25.8 (35)	36.9 (50)	52.4 (71)
		Speed (rpm)	157	154	149	145	137
	3.0 (12)	Torque lbf•ft (N•m)	8.1 (11)	14.8 (20)	24.4 (33)	36.2 (49)	52.4 (71)
		Speed (rpm)	237	234	231	226	218
	4.0 (15)	Torque lbf•ft (N•m)	7.4 (10)	13.3 (18)	23.6 (32)	34.7 (47)	50.9 (69)
		Speed (rpm)	296	295	294	288	282
	5.25 (20)	Torque lbf•ft (N•m)	5.9 (8)	10.3 (14)	21.4 (29)	32.5 (44)	47.2 (64)
		Speed (rpm)	395	395	393	390	381
6.6 (25)	Torque lbf•ft (N•m)	3.0 (4)	7.4 (10)	18.5 (25)	29.5 (40)	43.5 (59)	
	Speed (rpm)	498	496	494	490	484	

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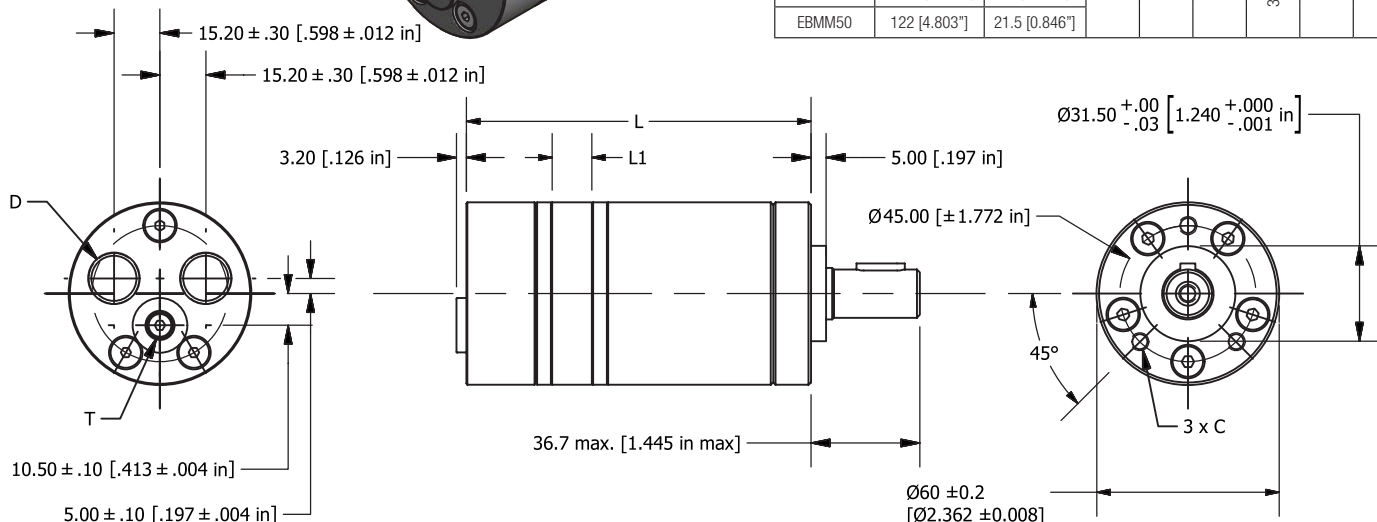
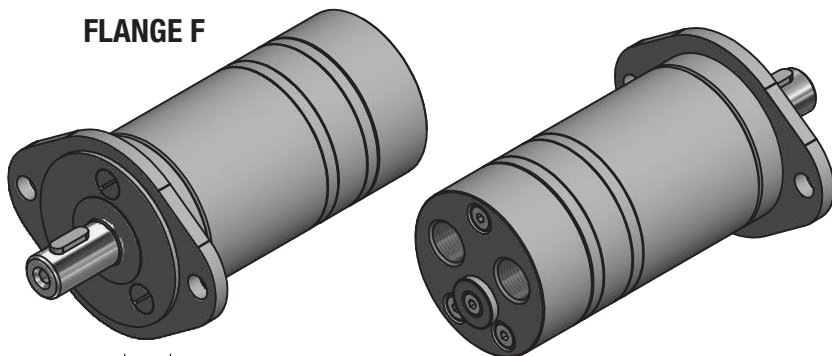
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FLANGE M, U

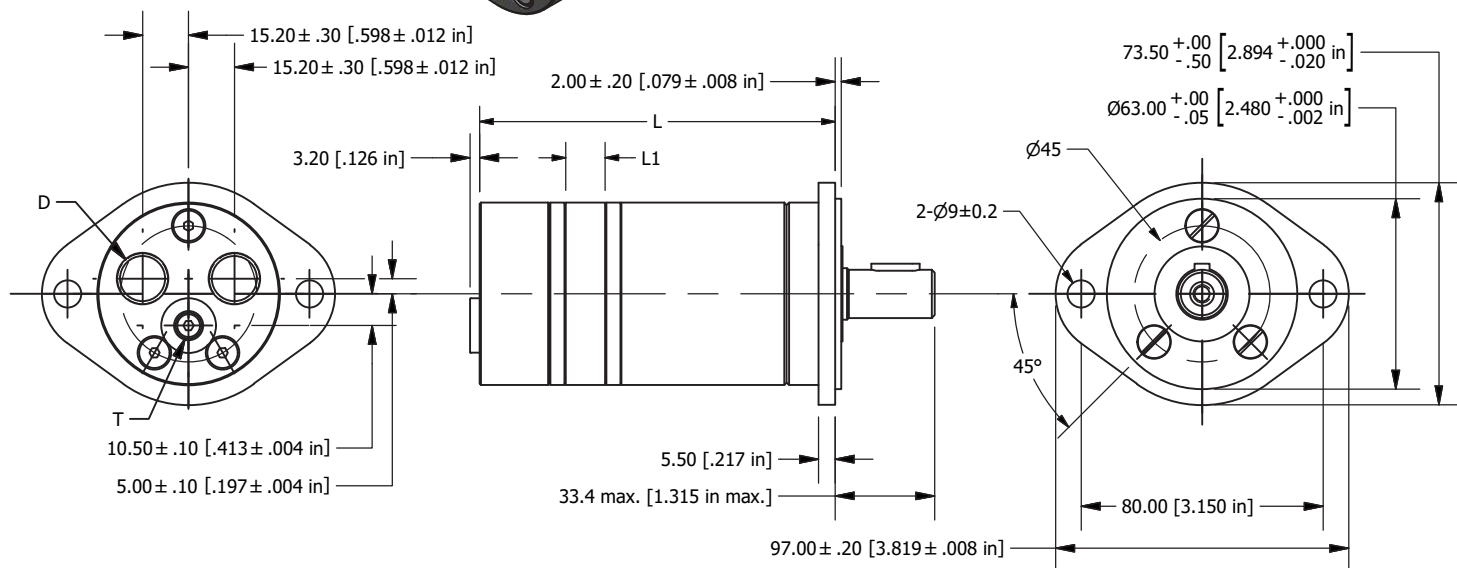
END PORT DIMENSIONS AND MOUNTING DATA

EBMM

MODEL	L	L1	CODE 1E (Depth)			CODE 1U (Depth)		
			C	D	T	C	D	T
EBMM8	104 [4.094"]	3.5 [0.138"]	3-M6 (10)	G3/8 (12)	G1/8 (8)	3-1/4-28UNF-2B (10)	9/16-18UNF (12)	3/8-24UNF (8)
EBMM12.5	106 [4.094"]	5.5 [0.217"]						
EBMM20	109 [4.291"]	8.5 [0.335"]						
EBMM32	114 [4.488"]	13.5 [0.531"]						
EBMM40	117.5 [4.625"]	17 [0.669"]						
EBMM50	122 [4.803"]	21.5 [0.846"]						

**FLANGE F**

MODEL	L	L1	CODE 1E (Depth)		CODE 1U (Depth)	
			D	T	D	T
EBMM8	107.5 [4.232"]	3.5 [0.138"]	G3/8 (12)	G1/8 (8)	9/16-18UNF (12)	3/8-24UNF (8)
EBMM12.5	109.5 [4.311"]	5.5 [0.217"]				
EBMM20	112.5 [4.429"]	8.5 [0.335"]				
EBMM32	117.5 [4.625"]	13.5 [0.531"]				
EBMM40	121 [4.764"]	17 [0.669"]				
EBMM50	125.5 [4.941"]	21.5 [0.846"]				



All numbers given are nominal values and should be used for reference only.

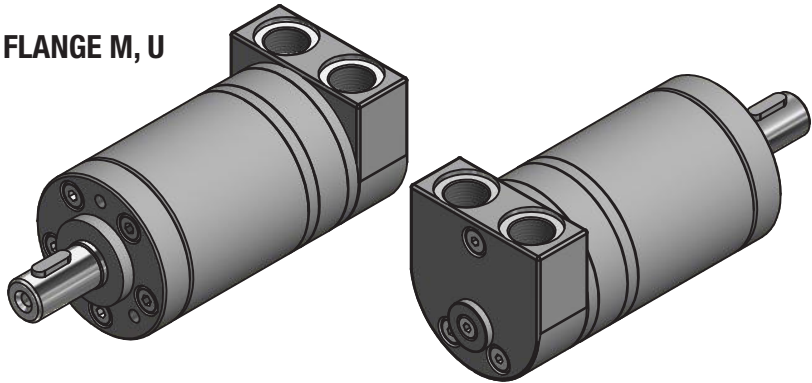
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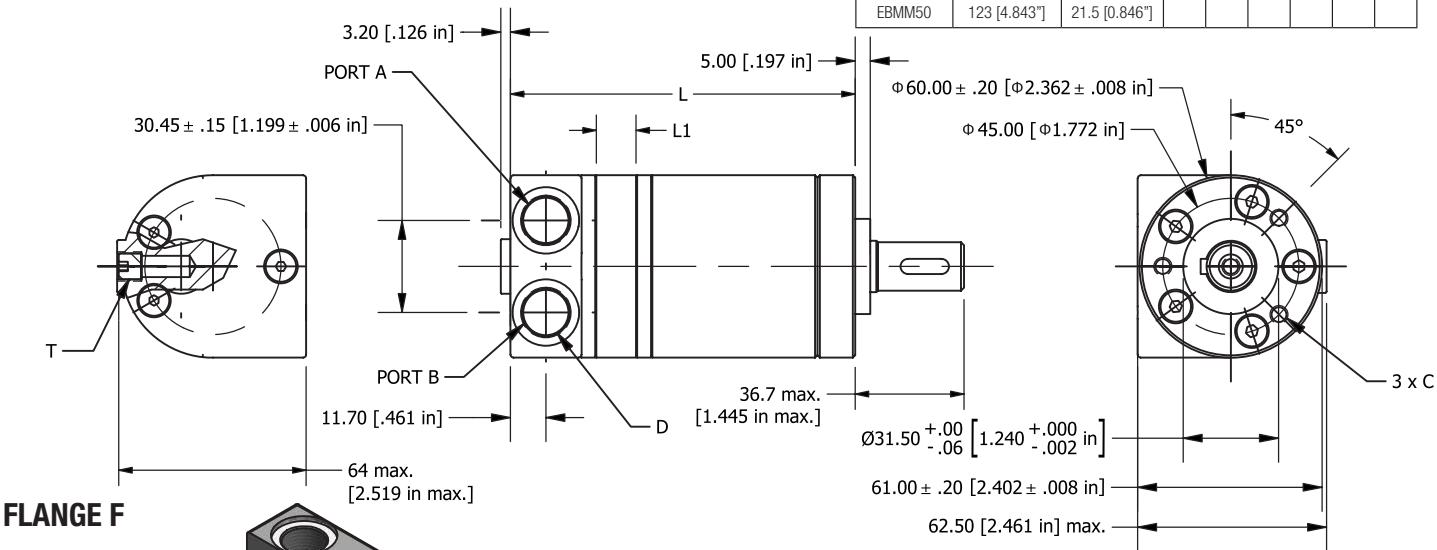
SIDE PORT DIMENSIONS AND MOUNTING DATA



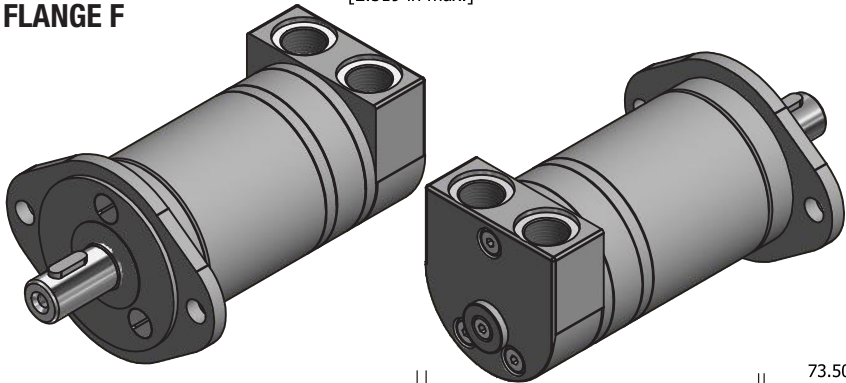
FLANGE M, U



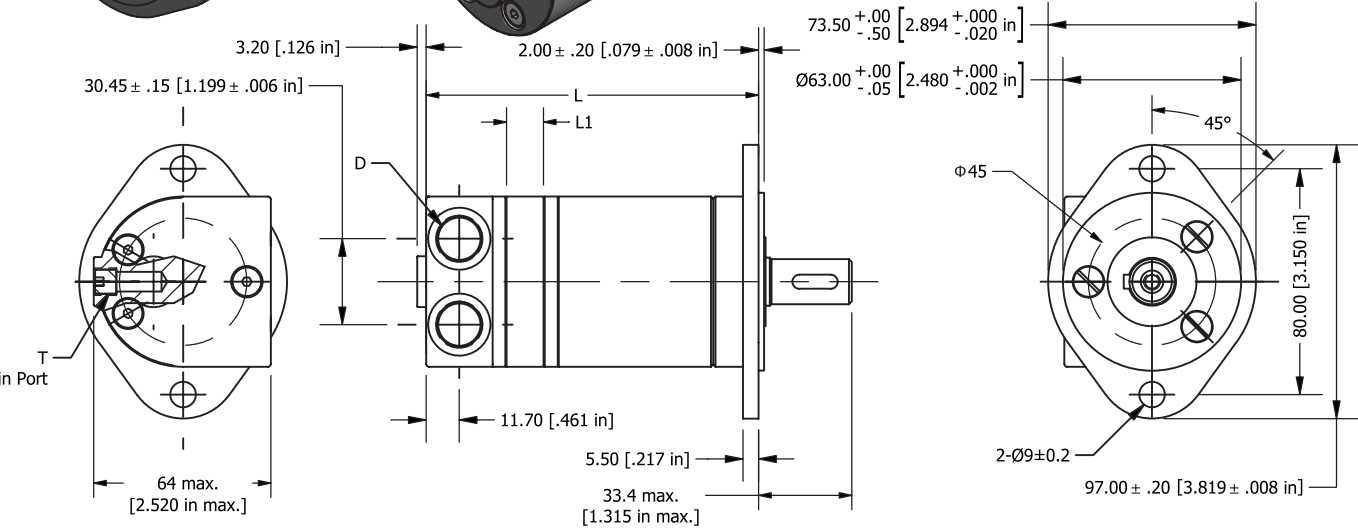
MODEL	L	L1	CODE E (Depth)			CODE U (Depth)		
			C	D	T	C	D	T
EBMM8	105 [4.134"]	3.5 [0.138"]	3-M6 (10)	G3/8 (12)	G1/8 (8)	3-1/4-28UNF-2B (10)	9/16-18UNF (12)	3/8-24UNF (8)
EBMM12.5	107 [4.213"]	5.5 [0.217"]						
EBMM20	110 [4.331"]	8.5 [0.335"]						
EBMM32	115 [4.528"]	13.5 [0.532"]						
EBMM40	118.5 [4.665"]	17 [0.669"]						
EBMM50	123 [4.843"]	21.5 [0.846"]						



FLANGE F



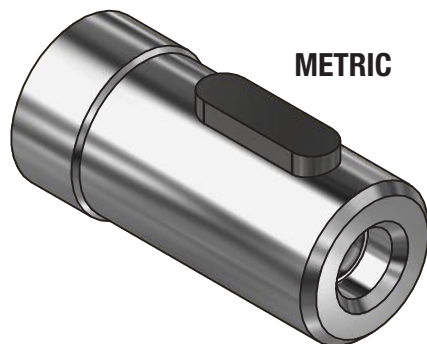
MODEL	L	L1	CODE E (Depth)		CODE U (Depth)	
			D	T	D	T
EBMM8	108.5 [4.272"]	3.5 [0.138"]	G3/8 (12)	G1/8 (8)	9/16-18UNF (12)	3/8-24UNF (8)
EBMM12.5	110.5 [4.350"]	5.5 [0.217"]				
EBMM20	113.5 [4.469"]	8.5 [0.335"]				
EBMM32	118.5 [4.665"]	13.5 [0.532"]				
EBMM40	122 [4.803"]	17 [0.669"]				
EBMM50	126.5 [4.980"]	21.5 [0.846"]				



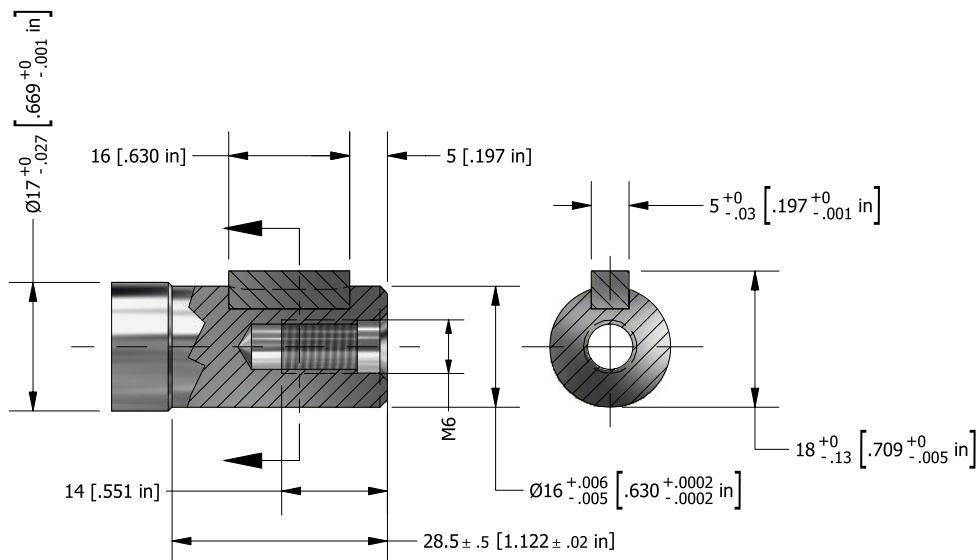
EBMM

SHAFT A

Cylindrical Shaft $\varnothing 16$
Parallel Key 5 x 5 x 16

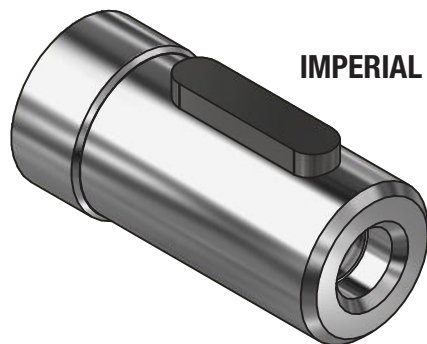


METRIC

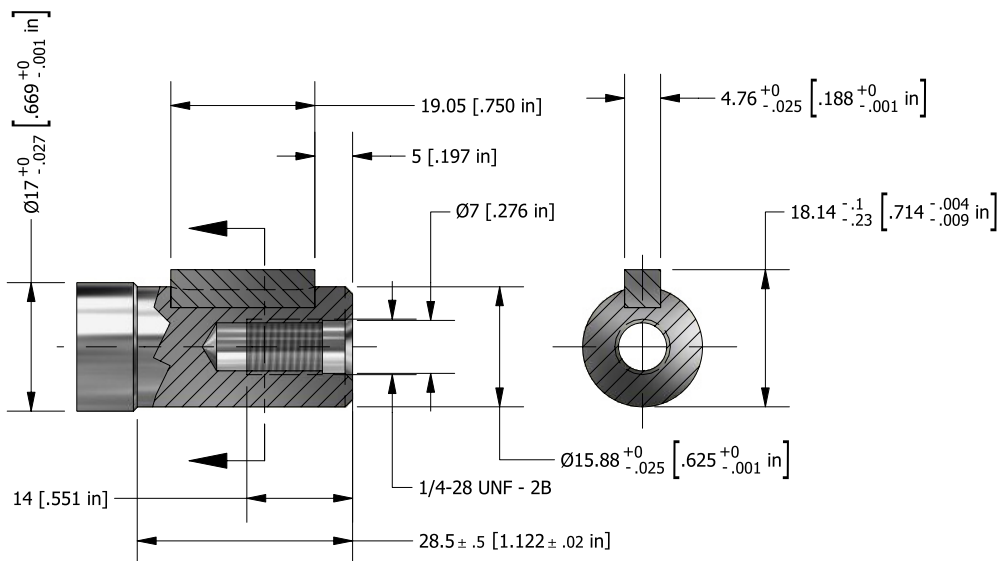


SHAFT B

Cylindrical Shaft $\varnothing 5/8$ "
Parallel Key 3/16" x 3/16" x 3/4"

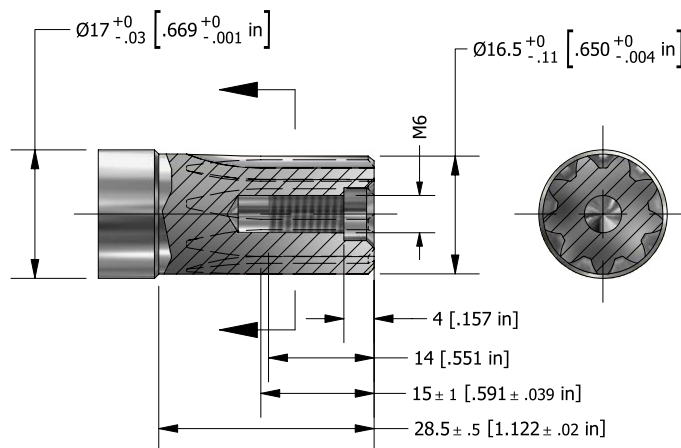


IMPERIAL

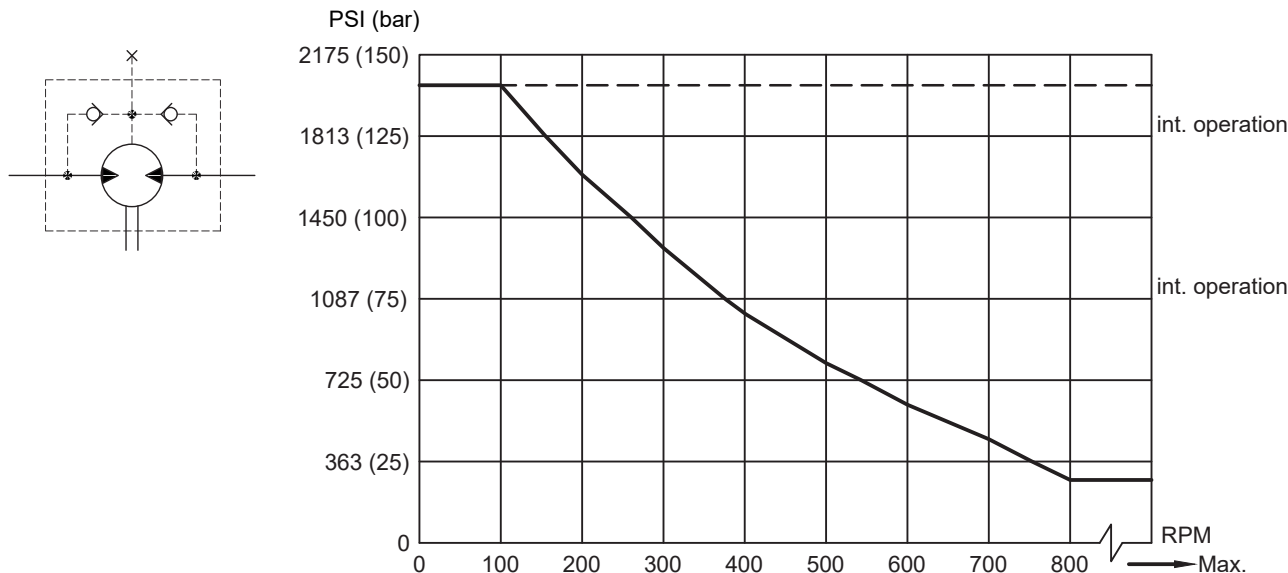


SHAFT C

Involute Splined Shaft
B17x14 DIN5482



PERMISSIBLE SHAFT SEAL PRESSURE



EBMM

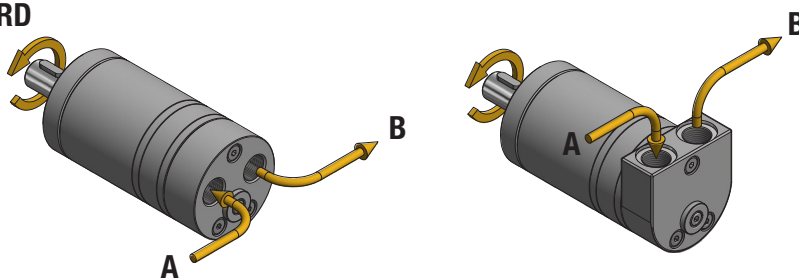
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

EBMM - DIRECTION OF SHAFT ROTATION : STANDARD

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.

Counter-Clockwise when port "B" is pressurized.



EBMM END PORT

EBMM SIDE PORT

STATUS OF THE SHAFT'S RADIAL FORCE

$$F_r = \frac{13040}{61.5 + L} \text{ daN}$$

F_r = Radial Force (daN)

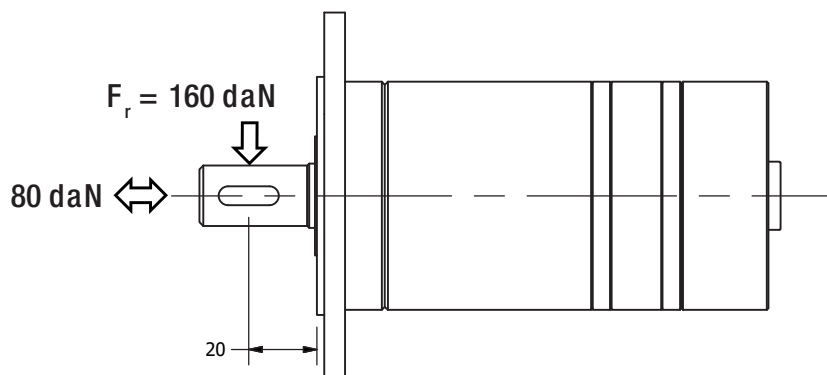
L = Distance (mm)

n = Speed (rpm)

Max. Force Load

Rhomb-flange $L = 15\text{mm}$

Square-Flange $L = 20\text{mm}$



*Speed Sensor: It's available with a sensor for monitoring motor shaft speed (see page 216)



All numbers given are nominal values and should be used for reference only.

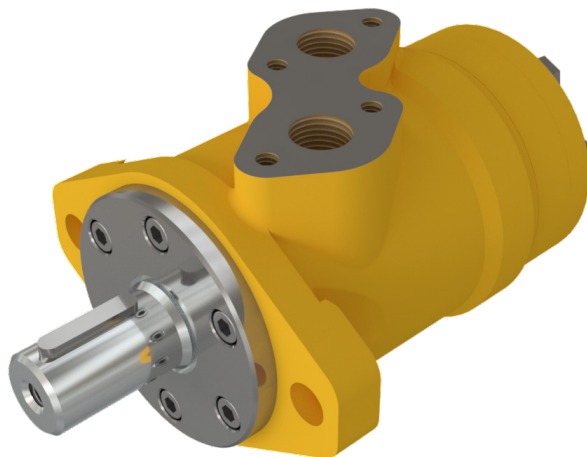
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EBMP series motor is a small volume, economical type, which is designed with shaft distribution flow, which adapts the Gerotor gear set design and provides a compact volume, high power and low weight.

EBMP

FEATURES

- Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
- Shaft seal can bear high pressure of motor and can be used in parallel or in series.
- Advanced construction design, high power and low weight.
- Speed sensor available on request.
- Internal construction: with radial needle roller bearing (inboard)



EBMP - Flange 2

TECHNICAL DATA FOR EBMP WITH 25mm Shaft / 1in Shaft / 1in Splined and 28.56mm Tapered Shaft

		EBMP EBMPH EBMPW 36	EBMP EBMPH EBMPW 50	EBMP EBMPH EBMPW 80	EBMP EBMPH EBMPW 100	EBMP EBMPH EBMPW 125	EBMP EBMPH EBMPW 160	EBMP EBMPH EBMPW 200	EBMP EBMPH EBMPW 250	EBMP EBMPH EBMPW 315	EBMP EBMPH EBMPW 400	EBMP EBMPH EBMPW 500
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.2 (36)	3.15 (51.7)	4.74 (77.7)	5.87 (96.2)	7.34 (120.2)	9.59 (157.2)	11.87 (194.5)	14.66 (240.3)	19.19 (314.5)	23.77 (389.5)	29.69 (486.5)
Max. Speed	Continuous (rpm)	1500	1150	770	615	490	383	310	250	192	155	120
	Intermittent (rpm)	1650	1450	960	770	615	475	385	310	240	190	150
Max. Torque	Continuous lbf•ft (N•m)	40.59 (55)	73.8 (100)	107.75 (146)	134.32 (182)	174.17 (236)	222.88 (302)	265.68 (360)	280.44 (380)	276.75 (375)	265.68 (360)	284.13 (385)
	Intermittent lbf•ft (N•m)	56.09 (76)	94.46 (128)	137.27 (186)	167.53 (227)	214.02 (290)	273.06 (370)	324.72 (440)	339.48 (460)	409.59 (555)	387.45 (525)	413.28 (560)
	Peak lbf•ft (N•m)	70.85 (96)	109.22 (148)	160.88 (218)	194.83 (264)	265.68 (360)	320.29 (434)	398.52 (540)	405.90 (550)	479.7 (650)	501.84 (680)	501.84 (680)
Max. Output	Continuous hp (kW)	10.73 (8)	13.41 (10)	13.41 (10)	14.74 (11)	13.41 (10)	13.41 (10)	13.41 (10)	11.4 (8.5)	9.39 (7)	8.05 (6)	6.71 (5)
	Intermittent hp (kW)	15.42 (11.5)	16.09 (12)	16.09 (12)	17.43 (13)	16.09 (12)	16.09 (12)	16.09 (12)	14.08 (10.5)	11.4 (8.5)	9.39 (7)	8.05 (6)
Max. Pressure Drop	Continuous PSI (bar)	1813 (125)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	1595 (110)	1305 (90)	1015 (70)	870 (60)
	Intermittent PSI (bar)	2395 (165)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2030 (140)	2030 (140)	1523 (105)	1305 (90)
	Peak PSI (bar)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	2610 (180)	2320 (160)	2030 (140)	1740 (120)
Max. Flow	Continuous GPM (L/min)	14.5 (55)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)
	Intermittent GPM (L/min)	15.9 (60)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
Weight	Lbs (kg)	12.32 (5.6)	12.32 (5.6)	12.54 (5.7)	12.98 (5.9)	13.2 (6.0)	13.64 (6.2)	14.08 (6.4)	14.74 (6.7)	15.18 (6.9)	16.28 (7.4)	17.6 (8)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



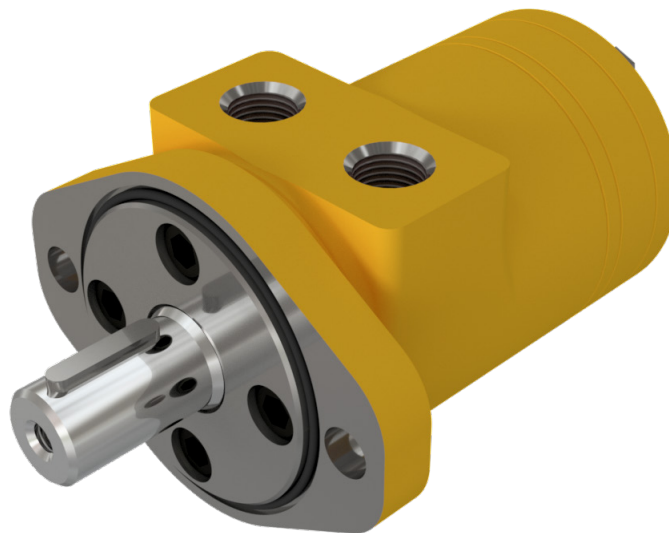
TECHNICAL DATA FOR EBMP WITH 31.75mm Shaft and 32mm Shaft

		EBMP EBMPH 36	EBMP EBMPH 50	EBMP EBMPH 80	EBMP EBMPH 100	EBMP EBMPH 125	EBMP EBMPH 160	EBMP EBMPH 200	EBMP EBMPH 250	EBMP EBMPH 315	EBMP EBMPH 400	EBMP EBMPH 500
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.2 (36)	3.15 (51.7)	4.74 (77.7)	5.87 (96.2)	7.34 (120.2)	9.59 (157.2)	11.87 (194.5)	14.66 (240.3)	19.19 (314.5)	23.77 (389.5)	29.69 (486.5)
Max. Speed	Continuous (rpm)	1500	1150	770	615	490	383	310	250	192	155	120
	Intermittent (rpm)	1650	1450	960	770	615	475	385	310	240	190	150
Max. Torque	Continuous lbf•ft (N•m)	40.59 (55)	73.8 (100)	107.75 (146)	134.32 (182)	174.17 (236)	222.88 (302)	265.68 (360)	339.48 (460)	350.55 (475)	361.62 (490)	317.34 (430)
	Intermittent lbf•ft (N•m)	56.09 (76)	94.46 (128)	137.27 (186)	167.53 (227)	214.02 (290)	273.06 (370)	324.72 (440)	420.66 (570)	409.59 (555)	428.04 (580)	413.28 (560)
	Peak lbf•ft (N•m)	70.85 (96)	109.22 (148)	160.88 (218)	194.83 (264)	265.68 (360)	320.29 (434)	398.52 (540)	494.46 (670)	619.92 (840)	619.92 (840)	575.64 (780)
Max. Output	Continuous hp (kW)	10.73 (8)	13.41 (10)	13.41 (10)	14.74 (11)	13.41 (10)	13.41 (10)	13.41 (10)	11.4 (8.5)	9.39 (7)	8.05 (6)	8.05 (6)
	Intermittent hp (kW)	15.42 (11.5)	16.09 (12)	16.09 (12)	17.43 (13)	16.09 (12)	16.09 (12)	16.09 (12)	14.08 (10.5)	11.4 (8.5)	9.39 (7)	9.39 (7)
Max. Pressure Drop	Continuous PSI (bar)	1813 (125)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	2030 (140)	1740 (120)	1378 (95)	1015 (70)
	Intermittent PSI (bar)	2395 (165)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2030 (140)	1668 (115)	1305 (90)
	Peak PSI (bar)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	2610 (180)	1885 (130)
Max. Flow	Continuous GPM (L/min)	14.5 (55)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)
	Intermittent GPM (L/min)	15.9 (60)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
Weight	Lbs (kg)	12.32 (5.6)	12.32 (5.6)	12.54 (5.7)	12.98 (5.9)	13.2 (6.0)	13.64 (6.2)	14.08 (6.4)	14.74 (6.7)	15.18 (6.9)	16.28 (7.4)	17.6 (8)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



EBMPH - Flange H2



All numbers given are nominal values and should be used for reference only.

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EBMP ORDER INFORMATION

2 3 4 5 6 7 8

EBMP - - - - - - -

EBMP

1	2	3	4	5	6	7	8
CODE	Displacement	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
	36	2 2-Ø13.5 Rhomb-Flange - Pilot Ø82.5 x 8	A Shaft Ø25 - Parallel Key 8x7x32	D G1/2 Manifold Mount 4xM8, G1/4	Blank Standard	00 No Paint	Blank Standard
	50	4 4-Ø13.5 Rhomb-Flange - Pilot Ø82.5 x 8	C Shaft Ø1" - Parallel Key 1/4"x 1/4"x1-1/4"	M M22x1.5 Manifold Mount 4xM8, M14x1.5	R Opposite	Omit Black	N1 Big Radial Force
	80	H4 4-3/8-16 Square Flange - Pilot Ø44.4 x 2.8	E Shaft Ø1" - Splined Tooth SAE 6B	S 7/8-14 O-Ring Manifold 4x5/16-18UNC, 7/16-20UNF			0 No Case Drain
	100	H5 4-M10 Square Flange - Pilot Ø44.4 x 2.8	R Short Shaft Ø1" - Parallel Key 1/4" x 1/4" x 1-1/4"	P 1/2-14 NPTF Manifold 4x5/16-18UNC, 7/16-20UNF			F Free Running
	125		B Shaft Ø32 - Parallel Key 10x8x45	R PT(Rc)1/2 Manifold 4xM8, PT(Rc)1/4			LS Low Speed
	160		F Shaft Ø1-1/4" - Splined Tooth 14-DP12/24				
	200		FD Long Shaft Ø1-1/4" - Splined Tooth 14-DP12/24				
	250		G Shaft Ø1-1/4" - Parallel Key 5/16" x 5/16" x 1-1/4"				
	315		T Cone Shaft Ø28.56 - Parallel Key B5x5x14				
	400		T3 Cone Shaft Ø1-1/4" - Parallel Key 5/16" x 5/16" x 1"				
	500						

NOTES:

- Shafts of B/F/FD/G/T/T3 are only suitable for flanges 2 and 4.
- From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.



EBMPH ORDER INFORMATION

	2		3		4		5		6		7		8
EBMPH		-		-		-		-		-		-	

1	2	3	4	5	6	7	8
CODE	Displacement	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
	36	H2 2-Ø13.5 Rhomb-Flange - Pilot Ø82.5 x 8	K Shaft Ø1" - Woodruff Key Ø1" x 1/4"	G G1/2, G1/4	Blank Standard	00 No Paint	Blank Standard
	50	H6 4-Ø13.5 Rhomb-Flange - Pilot Ø82.5 x 8	S Shaft Ø1" - Splined Tooth SAE 6B	S 7/8-14 O-Ring, 7/16-20UNF	R Opposite	Omit Black	N1 Big Radial Force
	80	H4 4-3/8-16 Square Flange - Pilot Ø44.4 x 2.8	A Shaft Ø25 - Parrallel Key 8x7x32	P 1/2-14 NPTF, 7/16-20UNF			0 No Case Drain
	100	H5 4-M10 Square Flange - Pilot Ø44.4 x 2.8	R Shaft Ø1" - Parrallel Key 1/4" x 1/4" x 1-1/4"	T 3/4-16 O-Ring, 7/16-20UNF			F Free Running
	125		H Shaft Ø1" - Pin Hole Ø10.3	R PT(Rc)1/2, PT(Rc)1/4			LS Low Speed
	160		H1 Shaft Ø1" - Pin Hole Ø8	B4 Ø10 O-Ring Manifold, 4x5/16-18UNC, 7/16-20UNF			
	200		D Shaft Ø7/8" - Parrallel Key 1/4" x 1/4" x 1"	B5 Ø10 O-Ring Manifold, 4xM8, 7/16-20UNF			
	250		I Shaft Ø7/8" - Splined Tooth 13-DP16/32				
	315		T2 Cone Shaft Ø1" - Woodruff Key Ø1" x 1/4"				
	400		P Shaft Ø25 - Parrallel Key 8x7x28				
	500		J Shaft Ø25 - Parrallel Key 7x7x32				

NOTES:

- From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.



All numbers given are nominal values and should be used for reference only.

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EBMP 36 - 2.2 in³/rev (36 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1015 (70)	1160 (80)	1450 (100)	1595 (110)	1813 (125)	2393 (165)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	9.6 (13)	18.5 (25)	21.4 (29)	25.1 (34)	31.7 (43)	35.4 (48)	
		Speed (rpm)	214	205	200	194	187	179	
	4 (15)	Torque lbf•ft (N•m)	9.6 (13)	18.5 (25)	21.4 (29)	25.1 (34)	31.7 (43)	35.4 (48)	41.3 (56)
		Speed (rpm)	406	398	391	383	374	366	353
	5.25 (20)	Torque lbf•ft (N•m)	9.6 (13)	17.7 (24)	21.4 (29)	25.1 (34)	31.7 (43)	35.4 (48)	41.3 (56)
		Speed (rpm)	541	534	528	521	513	500	486
	8.9 (30)	Torque lbf•ft (N•m)	8.9 (12)	17.7 (24)	21.4 (29)	25.1 (34)	31.7 (43)	35.4 (48)	41.3 (56)
		Speed (rpm)	814	804	792	778	763	749	726
	9.2 (35)	Torque lbf•ft (N•m)	8.9 (12)	17 (23)	20.7 (28)	25.1 (34)	31.7 (43)	35.4 (48)	41.3 (56)
		Speed (rpm)	952	944	930	913	897	879	858
	10.5 (40)	Torque lbf•ft (N•m)	8.9 (12)	17 (23)	20.7 (28)	23.6 (32)	30.3 (41)	34.7 (47)	40.6 (55)
		Speed (rpm)	1090	1078	1064	1048	1024	998	977
	1.8 (45)	Torque lbf•ft (N•m)	8.1 (11)	16.2 (22)	19.2 (26)	23.6 (32)	30.3 (41)	33.9 (46)	39.9 (46)
		Speed (rpm)	1232	1218	1196	1175	1149	1118	1080
	14.4 (55)	Torque lbf•ft (N•m)	4.4 (6)	11.1 (15)	16.2 (22)	20.7 (28)	27.3 (37)	32.5 (44)	38.4 (52)
		Speed (rpm)	1505	1494	1480	1466	1438	1406	1367
	15.8 (60)	Torque lbf•ft (N•m)	2.2 (3)	8.1 (11)	13.3 (18)	14.8 (20)	22.1 (30)	28 (38)	36.2 (49)
		Speed (rpm)	1650	1640	1626	1603	1571	1536	1502

EBMP 50 - 3.2 in³/rev (51.7 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	14.8 (20)	30.3 (41)	41.3 (56)	50.9 (69)	65.7 (89)	70.1 (95)	
		Speed (rpm)	151	134	115	90	56	42	
	4 (15)	Torque lbf•ft (N•m)	14 (19)	29.5 (40)	41.3 (56)	52.4 (71)	67.2 (91)	73.8 (100)	82.7 (112)
		Speed (rpm)	286	274	261	243	204	182	139
	5.25 (20)	Torque lbf•ft (N•m)	13.3 (18)	28.8 (39)	40.6 (55)	52.4 (71)	67.9 (92)	74.5 (101)	86.3 (117)
		Speed (rpm)	382	373	361	348	318	309	287
	8.9 (30)	Torque lbf•ft (N•m)	12.5 (17)	28 (38)	40.6 (55)	52.4 (71)	67.2 (91)	72.3 (98)	85.6 (116)
		Speed (rpm)	573	568	558	535	503	488	462
	9.2 (35)	Torque lbf•ft (N•m)	12.5 (17)	28 (38)	39.9 (54)	50.9 (69)	65.7 (89)	72.3 (98)	86.3 (117)
		Speed (rpm)	670	661	652	640	606	589	562
	11.8 (45)	Torque lbf•ft (N•m)	10.3 (14)	26.6 (36)	39.1 (53)	49.4 (67)	64.9 (88)	72.3 (98)	84.1 (114)
		Speed (rpm)	863	858	849	837	807	788	764
	14.4 (55)	Torque lbf•ft (N•m)	8.9 (12)	24.4 (33)	36.9 (50)	48 (65)	62.7 (85)	70.8 (96)	81.9 (111)
		Speed (rpm)	1055	1042	1028	1010	979	963	947
	15.8 (60)	Torque lbf•ft (N•m)	7.4 (10)	23.6 (32)	34.7 (47)	47.2 (64)	61.3 (83)	69.4 (94)	79.7 (108)
		Speed (rpm)	1150	1143	1126	1111	1079	1065	1043
	19.8 (75)	Torque lbf•ft (N•m)	4.4 (6)	18.5 (25)	31 (42)	41.3 (56)	56.1 (76)	64.2 (87)	74.5 (101)
		Speed (rpm)	1440	1430	1416	1395	1367	1351	1335

PERFORMANCE DATA



EBMP 80 - 4.7 in³/rev (77.7 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	23.6 (32)	45.8 (62)	62.7 (85)	76.8 (104)	95.2 (129)	106.3 (144)	
		Speed (rpm)	97	87	74	55	33	22	
	4 (15)	Torque lbf•ft (N•m)	23.6 (32)	45.5 (63)	62 (84)	79 (107)	93 (126)	106.3 (144)	121.8 (165)
		Speed (rpm)	186	181	170	154	132	118	86
	5.25 (20)	Torque lbf•ft (N•m)	22.9 (31)	46.5 (63)	62 (84)	79 (107)	97.4 (132)	107.7 (146)	124 (168)
		Speed (rpm)	251	243	236	225	207	196	178
	8.9 (30)	Torque lbf•ft (N•m)	22.9 (31)	45.8 (62)	61.3 (83)	78.2 (106)	96.7 (131)	107.7 (146)	124 (168)
		Speed (rpm)	381	379	368	355	332	316	285
	9.2 (35)	Torque lbf•ft (N•m)	22.1 (30)	43.5 (59)	59.8 (81)	75.3 (102)	95.9 (130)	106.3 (144)	123.2 (167)
		Speed (rpm)	443	435	426	415	397	383	361
	11.8 (45)	Torque lbf•ft (N•m)	18.5 (25)	42.8 (58)	58.3 (79)	73.8 (100)	93 (126)	104.8 (142)	121.8 (165)
		Speed (rpm)	570	564	554	543	526	509	483
	14.4 (55)	Torque lbf•ft (N•m)	17 (23)	42.1 (57)	57.6 (78)	71.6 (97)	91.5 (124)	103.3 (140)	118.8 (161)
		Speed (rpm)	696	685	672	656	643	630	602
	15.8 (60)	Torque lbf•ft (N•m)	14.8 (20)	39.1 (53)	55.4 (75)	69.4 (94)	88.6 (120)	101.1 (137)	118.1 (160)
		Speed (rpm)	761	753	744	736	720	706	681
	19.8 (75)	Torque lbf•ft (N•m)	10.3 (14)	32.5 (44)	49.4 (67)	64.2 (87)	82.7 (112)	111.4 (151)	124.7 (169)
		Speed (rpm)	948	940	931	920	906	890	871

EBMP 100 - 5.9 in³/rev (96.2 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	29.5 (40)	56.8 (77)	77.5 (105)	95.9 (130)	118.8 (161)	132.8 (180)	
		Speed (rpm)	81	75	69	57	36	24	
	4 (15)	Torque lbf•ft (N•m)	28.8 (39)	56.8 (77)	78.2 (106)	95.9 (130)	118.1 (160)	132.8 (180)	153.5 (208)
		Speed (rpm)	152	149	145	140	122	103	81
	5.25 (20)	Torque lbf•ft (N•m)	26.6 (36)	54.6 (74)	76.8 (104)	94.5 (128)	118.8 (161)	132.1 (179)	151.3 (205)
		Speed (rpm)	204	200	195	190	177	166	148
	8.9 (30)	Torque lbf•ft (N•m)	24.4 (33)	53.1 (72)	76 (103)	92.3 (125)	118.1 (160)	130.6 (177)	149.8 (203)
		Speed (rpm)	308	304	298	290	280	268	255
	9.2 (35)	Torque lbf•ft (N•m)	22.1 (30)	51.7 (70)	72.3 (98)	90 (122)	117.3 (159)	129.9 (176)	149.1 (202)
		Speed (rpm)	360	352	343	331	320	306	294
	11.8 (45)	Torque lbf•ft (N•m)	21.4 (29)	49.4 (67)	70.1 (95)	87.1 (118)	114.4 (155)	128.4 (174)	147.6 (200)
		Speed (rpm)	462	458	451	443	433	419	402
	14.4 (55)	Torque lbf•ft (N•m)	18.5 (25)	47.2 (64)	68.6 (93)	85.6 (116)	112.2 (152)	125.5 (170)	146.1 (198)
		Speed (rpm)	566	558	549	540	529	515	498
	15.8 (60)	Torque lbf•ft (N•m)	16.2 (22)	44.3 (60)	67.2 (91)	84.1 (114)	110 (149)	123.2 (167)	143.2 (194)
		Speed (rpm)	618	611	601	589	580	570	558
	19.8 (75)	Torque lbf•ft (N•m)	11.1 (15)	39.9 (54)	61.3 (83)	78.2 (106)	104.1 (141)	118.1 (160)	137.3 (186)
		Speed (rpm)	771	763	755	744	735	724	708

All numbers given are nominal values and should be used for reference only.

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EBMP

EBMP 125 - 7.3 in³/rev (120.2 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	37.6 (51)	72.3 (98)	101.1 (137)	124 (168)	153.5 (208)	174.2 (236)	
		Speed (rpm)	63	60	55	47	28	15	
	4 (15)	Torque lbf•ft (N•m)	37.6 (51)	74.5 (101)	101.8 (138)	124 (168)	154.2 (209)	174.2 (236)	197 (267)
		Speed (rpm)	121	116	110	102	89	73	48
	5.25 (20)	Torque lbf•ft (N•m)	35.4 (48)	72.3 (98)	99.6 (135)	123.2 (167)	155.7 (211)	174.9 (237)	198.5 (269)
		Speed (rpm)	162	158	153	148	137	128	109
	8.9 (30)	Torque lbf•ft (N•m)	33.9 (46)	70.8 (96)	97.4 (132)	121 (164)	154.2 (209)	171.2 (232)	194.8 (264)
		Speed (rpm)	243	239	234	227	216	202	189
	9.2 (35)	Torque lbf•ft (N•m)	31 (42)	67.9 (92)	95.9 (130)	118.1 (160)	152 (206)	169 (229)	191.9 (260)
		Speed (rpm)	284	279	274	269	259	247	231
	11.8 (45)	Torque lbf•ft (N•m)	27.3 (37)	65.7 (89)	92.3 (125)	115.9 (157)	148.3 (201)	165.3 (224)	192.6 (261)
		Speed (rpm)	370	362	355	348	340	327	310
	14.4 (55)	Torque lbf•ft (N•m)	24.4 (33)	62 (84)	80 (122)	112.2 (152)	144.6 (196)	160.9 (218)	186 (252)
		Speed (rpm)	452	446	438	431	420	412	402
	15.8 (60)	Torque lbf•ft (N•m)	21.4 (29)	57.6 (78)	86.3 (117)	107.7 (146)	141 (191)	158.7 (215)	183 (248)
		Speed (rpm)	490	482	475	468	459	448	439
	19.8 (75)	Torque lbf•ft (N•m)	13.3 (18)	48.7 (66)	79.0 (107)	98.2 (133)	132.1 (179)	149.1 (202)	174.2 (236)
		Speed (rpm)	615	606	598	586	575	563	549

EBMP 160 - 9.6 in³/rev (157.2 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	45.8 (62)	88.6 (120)	125.5 (170)	156.5 (212)	194.1 (263)	214 (290)	
		Speed (rpm)	49	48	46	42	26	14	
	4 (15)	Torque lbf•ft (N•m)	44.3 (60)	90 (122)	126.9 (172)	158.7 (215)	194.8 (264)	217 (294)	250.9 (340)
		Speed (rpm)	93	91	88	85	76	68	48
	5.25 (20)	Torque lbf•ft (N•m)	42.1 (57)	88.6 (120)	125.5 (170)	157.9 (214)	193.4 (262)	214 (290)	250.9 (340)
		Speed (rpm)	125	123	120	117	110	106	92
	8.9 (30)	Torque lbf•ft (N•m)	39.1 (53)	84.9 (115)	121 (164)	152 (206)	191.1 (259)	212.5 (288)	247.2 (335)
		Speed (rpm)	187	184	181	178	175	168	155
	9.2 (35)	Torque lbf•ft (N•m)	36.2 (49)	81.2 (110)	118.1 (160)	149.1 (202)	188.2 (255)	209.6 (284)	242.1 (328)
		Speed (rpm)	220	216	213	209	205	202	192
	11.8 (45)	Torque lbf•ft (N•m)	32.5 (44)	75.3 (102)	113.7 (154)	144.6 (196)	183 (248)	205.2 (278)	236.9 (321)
		Speed (rpm)	283	280	276	272	267	260	250
	14.4 (55)	Torque lbf•ft (N•m)	29.5 (40)	73.1 (99)	109.2 (148)	141 (191)	179.3 (243)	200.7 (272)	233.2 (316)
		Speed (rpm)	345	342	340	336	331	328	320
	15.8 (60)	Torque lbf•ft (N•m)	24.4 (33)	69.4 (94)	106.3 (144)	138.7 (188)	174.2 (236)	197 (267)	277.3 (308)
		Speed (rpm)	377	374	371	367	363	359	353
	19.8 (75)	Torque lbf•ft (N•m)	14 (19)	59 (80)	91.5 (124)	125.5 (170)	159.4 (216)	186 (252)	218.4 (296)
		Speed (rpm)	473	469	465	459	453	447	440

PERFORMANCE DATA



EBMP 200 - 11.9 in³/rev (194.5 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	58.3 (79)	121 (164)	152.8 (207)	184.5 (250)	236.2 (320)	265.7 (360)	
		Speed (rpm)	40	39	38	35	28	22	
	4 (15)	Torque lbf•ft (N•m)	57.6 (78)	119.6 (162)	151.3 (205)	184.5 (250)	237.6 (322)	266.4 (361)	302.6 (410)
		Speed (rpm)	76	75	74	71	66	61	51
	5.25 (20)	Torque lbf•ft (N•m)	56.1 (76)	116.6 (158)	149.8 (203)	182.3 (247)	236.2 (320)	264.2 (358)	297.4 (403)
		Speed (rpm)	100	98	97	95	92	89	73
	8.9 (30)	Torque lbf•ft (N•m)	51.7 (70)	112.9 (153)	147.6 (200)	180.8 (245)	232.5 (315)	258.3 (350)	293.7 (398)
		Speed (rpm)	151	149	147	145	142	139	131
	9.2 (35)	Torque lbf•ft (N•m)	48.7 (66)	110 (149)	143.2 (194)	171.2 (232)	219.2 (297)	253.1 (343)	284.9 (386)
		Speed (rpm)	177	175	173	171	168	166	160
	11.8 (45)	Torque lbf•ft (N•m)	46.5 (63)	107.7 (146)	140.2 (190)	169.7 (230)	217 (294)	250.9 (340)	282.7 (383)
		Speed (rpm)	228	226	224	221	218	215	210
	14.4 (55)	Torque lbf•ft (N•m)	39.9 (54)	103.3 (140)	133.6 (181)	165.3 (224)	211.1 (286)	246.5 (334)	273.8 (371)
		Speed (rpm)	280	278	276	274	271	269	263
	15.8 (60)	Torque lbf•ft (N•m)	28 (38)	93.7 (127)	121 (164)	156.5 (212)	199.3 (270)	239.9 (325)	262.7 (356)
		Speed (rpm)	304	302	300	297	294	291	286
	19.8 (75)	Torque lbf•ft (N•m)	16.2 (22)	70.8 (96)	107 (145)	141.7 (192)	173.4 (235)	216.2 (293)	236.9 (321)
		Speed (rpm)	382	378	374	371	368	364	360

EBMP 250 - 14.7 in³/rev (240.3 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1160 (80)	1450 (100)	1813 (125)	2030 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	70.8 (96)	140.2 (190)	197.8 (268)	240.6 (326)	297.4 (403)		
		Speed (rpm)	30	28	24	21	11		
	4 (15)	Torque lbf•ft (N•m)	72.3 (98)	143.2 (194)	199.3 (270)	241.3 (327)	298.9 (405)	332.1 (450)	376.4 (510)
		Speed (rpm)	60	58	54	50	40	30	12
	5.25 (20)	Torque lbf•ft (N•m)	67.9 (92)	138.7 (188)	197 (267)	239.9 (325)	298.9 (405)	336.5 (456)	379.3 (514)
		Speed (rpm)	82	80	77	76	69	64	52
	8.9 (30)	Torque lbf•ft (N•m)	62.7 (85)	132.8 (180)	191.1 (259)	236.2 (320)	295.2 (400)	330.6 (448)	378.6 (513)
		Speed (rpm)	123	120	118	114	106	98	87
	9.2 (35)	Torque lbf•ft (N•m)	56.8 (77)	129.9 (176)	186 (252)	229.5 (311)	287.1 (389)	321.8 (436)	372 (504)
		Speed (rpm)	143	141	139	135	128	122	112
	11.8 (45)	Torque lbf•ft (N•m)	51.7 (70)	124 (168)	179.3 (243)	221.4 (300)	278.2 (377)	315.9 (428)	365.3 (495)
		Speed (rpm)	185	182	178	174	168	161	152
	14.4 (55)	Torque lbf•ft (N•m)	46.5 (63)	117.3 (159)	174.9 (237)	214 (290)	272.3 (369)	307.7 (417)	356.5 (483)
		Speed (rpm)	226	223	218	213	209	202	193
	15.8 (60)	Torque lbf•ft (N•m)	44.3 (60)	110.7 (150)	168.3 (228)	206.6 (280)	264.2 (358)	300.4 (407)	349.1 (473)
		Speed (rpm)	248	246	243	239	233	226	215
	19.8 (75)	Torque lbf•ft (N•m)	25.1 (34)	94.5 (128)	149.1 (202)	194.8 (264)	252.4 (342)	285.6 (387)	330.6 (448)
		Speed (rpm)	309	306	302	297	292	286	278

All numbers given are nominal values and should be used for reference only.

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EBMP

EBMP 315 - 19.2 in³/rev (314.5 cm³/rev)

							Max. Cont.	Max. Int.	
Flow GPM (L/min)	Pressure PSI (bar)		435 (30)	725 (50)	1015 (70)	1305 (90)	1450 (100)	1812 (125)	2030 (140)
	2 (8)	Torque lbf•ft (N•m)	90.8 (123)	158.7 (215)	215.5 (292)	271.6 (368)	298.9 (405)		
		Speed (rpm)	25	23	21	17	11		
	4 (15)	Torque lbf•ft (N•m)	87.1 (118)	155.7 (211)	211.8 (287)	270.8 (367)	298.2 (404)	365.3 (495)	419.2 (568)
		Speed (rpm)	47	46	44	40	28	21	10
	5.25 (20)	Torque lbf•ft (N•m)	81.2 (110)	151.3 (205)	205.2 (278)	265.7 (360)	291.5 (395)	364.6 (494)	417.7 (566)
		Speed (rpm)	62	61	60	57	46	40	36
	8.9 (30)	Torque lbf•ft (N•m)	74.5 (101)	144.6 (196)	200 (271)	257.6 (349)	286.3 (388)	361.6 (490)	417 (565)
		Speed (rpm)	94	93	91	88	76	68	65
	9.2 (35)	Torque lbf•ft (N•m)	70.8 (96)	138.7 (188)	194.8 (264)	251.7 (341)	281.9 (382)	352.8 (478)	411.1 (557)
		Speed (rpm)	109	107	106	104	96	89	84
	11.8 (45)	Torque lbf•ft (N•m)	65.7 (89)	132.8 (180)	187.5 (254)	248.7 (337)	274.5 (372)	345.4 (468)	408.1 (553)
		Speed (rpm)	141	140	138	135	127	120	115
	14.4 (55)	Torque lbf•ft (N•m)	56.1 (76)	122.5 (166)	176.4 (239)	239.9 (325)	267.2 (362)	337.3 (457)	404.4 (548)
		Speed (rpm)	173	172	170	167	160	152	143
	15.8 (60)	Torque lbf•ft (N•m)	48 (65)	113.7 (154)	167.5 (227)	227.3 (308)	256.8 (348)	326.9 (443)	390.4 (529)
		Speed (rpm)	188	186	184	182	178	172	163
	19.8 (75)	Torque lbf•ft (N•m)	29.5 (40)	88.6 (120)	148.3 (201)	205.9 (279)	238.4 (323)	308.5 (418)	366.8 (497)
Speed (rpm)		236	234	232	228	226	223	214	

Max. Cont.

Max. Int.

EBMP 400 - 23.8 in³/rev (389.5 cm³/rev)

								Max. Cont.	Max. Int.	
		Pressure PSI (bar)	435 (30)	653 (45)	797 (55)	943 (65)	1160 (80)	1450 (100)	1812 (125)	
Flow GPM (L/min)	2 (8)	Torque lbf•ft (N•m)	122.5 (166)	171.2 (232)	211.8 (287)	250.9 (340)	308.5 (418)			
		Speed (rpm)	20	19	18	16	12			
	4 (15)	Torque lbf•ft (N•m)	121.8 (165)	168.3 (228)	204.4 (277)	248.7 (337)	307.7 (417)	366 (496)	451.7 (612)	
		Speed (rpm)	38	36	35	33	31	27	21	
	5.25 (20)	Torque lbf•ft (N•m)	119.6 (162)	164.6 (223)	201.5 (273)	244.3 (331)	304.8 (413)	365.3 (495)	449.4 (608)	
		Speed (rpm)	50	49	49	48	45	41	35	
	8.9 (30)	Torque lbf•ft (N•m)	113.7 (154)	159.4 (216)	196.3 (266)	234.7 (318)	298.9 (405)	358.7 (486)	442.8 (600)	
		Speed (rpm)	76	75	74	73	71	67	60	
	9.2 (35)	Torque lbf•ft (N•m)	107.7 (146)	155 (210)	188.9 (256)	230.3 (312)	291.5 (395)	354.2 (480)	433.9 (588)	
		Speed (rpm)	88	87	87	86	83	80	75	
	11.8 (45)	Torque lbf•ft (N•m)	97.4 (132)	145.4 (197)	179.3 (243)	221.4 (300)	282.7 (383)	342.4 (464)	425.1 (576)	
		Speed (rpm)	114	113	112	110	108	106	99	
	14.4 (55)	Torque lbf•ft (N•m)	86.3 (117)	135.8 (184)	167.5 (227)	208.9 (283)	267.9 (363)	332.1 (450)	407.4 (552)	
		Speed (rpm)	139	137	136	135	135	132	123	
	15.8 (60)	Torque lbf•ft (N•m)	75.3 (102)	120.3 (163)	158.7 (215)	200.7 (272)	256.1 (347)	321.8 (436)	392.6 (532)	
		Speed (rpm)	153	152	150	148	146	143	138	
	Max. Cont.	19.8 (75)	Torque lbf•ft (N•m)	39.1 (53)	94.5 (128)	134.3 (182)	172.7 (234)	234.7 (318)	288.6 (391)	357.2 (484)
	Max. Int.		Speed (rpm)	191	189	187	185	183	180	176

Max. Cont.

Max. Int.



PERFORMANCE DATA

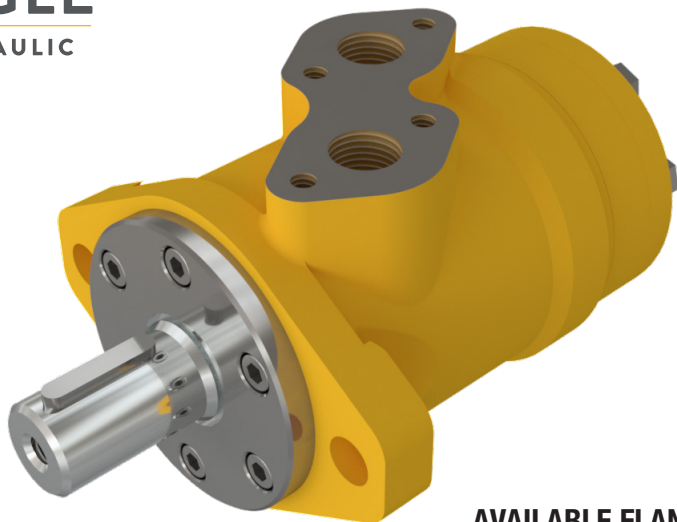


EBMP 500 - 29.7 in³/rev (486.5 cm³/rev)

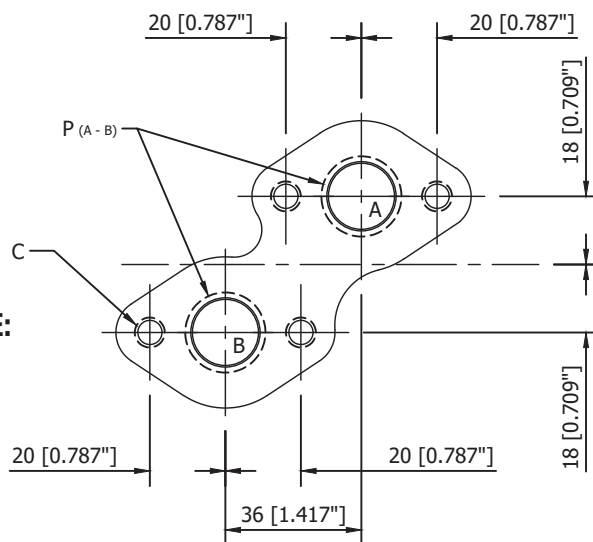
		Max. Cont.				Max. Int.		
Pressure PSI (bar)		218 (15)	435 (30)	653 (45)	870 (60)	1015 (70)	1160 (80)	1305 (90)
Flow GPM (L/min)	1 (4)	Torque lbf•ft (N•m)	70.8 (96)	143.2 (194)	210.3 (285)			
		Speed (rpm)	7	6	4			
	2 (8)	Torque lbf•ft (N•m)	72.3 (98)	148.3 (201)	224.4 (304)	288.6 (391)	326.9 (443)	377.9 (512)
		Speed (rpm)	15	15	14	14	12	9
	4 (15)	Torque lbf•ft (N•m)	70.8 (96)	141.7 (192)	209.6 (284)	280.4 (380)	310.7 (421)	366 (496)
		Speed (rpm)	30	30	29	28	26	23
	5.25 (20)	Torque lbf•ft (N•m)	70.8 (96)	141 (191)	206.6 (280)	274.5 (372)	308.5 (418)	363.8 (493)
		Speed (rpm)	40	40	40	39	37	33
	8.9 (30)	Torque lbf•ft (N•m)	67.2 (91)	136.5 (185)	200.7 (272)	265.7 (360)	304.1 (412)	358.7 (486)
		Speed (rpm)	61	60	60	58	56	53
Max. Cont.	10.6 (40)	Torque lbf•ft (N•m)	63.5 (86)	126.9 (172)	192.6 (261)	253.1 (343)	301.1 (408)	354.2 (480)
		Speed (rpm)	81	80	80	79	76	73
	13.2 (50)	Torque lbf•ft (N•m)	57.6 (78)	118.1 (160)	177.9 (241)	245 (332)	288.6 (391)	343.9 (466)
		Speed (rpm)	102	101	100	98	96	93
	15.8 (60)	Torque lbf•ft (N•m)	48.7 (66)	98.9 (134)	157.2 (213)	225.1 (305)	273.8 (371)	323.2 (438)
		Speed (rpm)	122	121	120	119	117	114
	18.5 (70)	Torque lbf•ft (N•m)	38.4 (52)	81.9 (111)	139.5 (189)	215.5 (292)	253.9 (344)	308.5 (418)
		Speed (rpm)	143	142	141	139	137	135
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)	25.8 (35)	61.3 (83)	113.7 (154)	177.9 (241)	230.3 (312)	287.1 (389)
		Speed (rpm)	153	152	151	150	149	147

EBMP

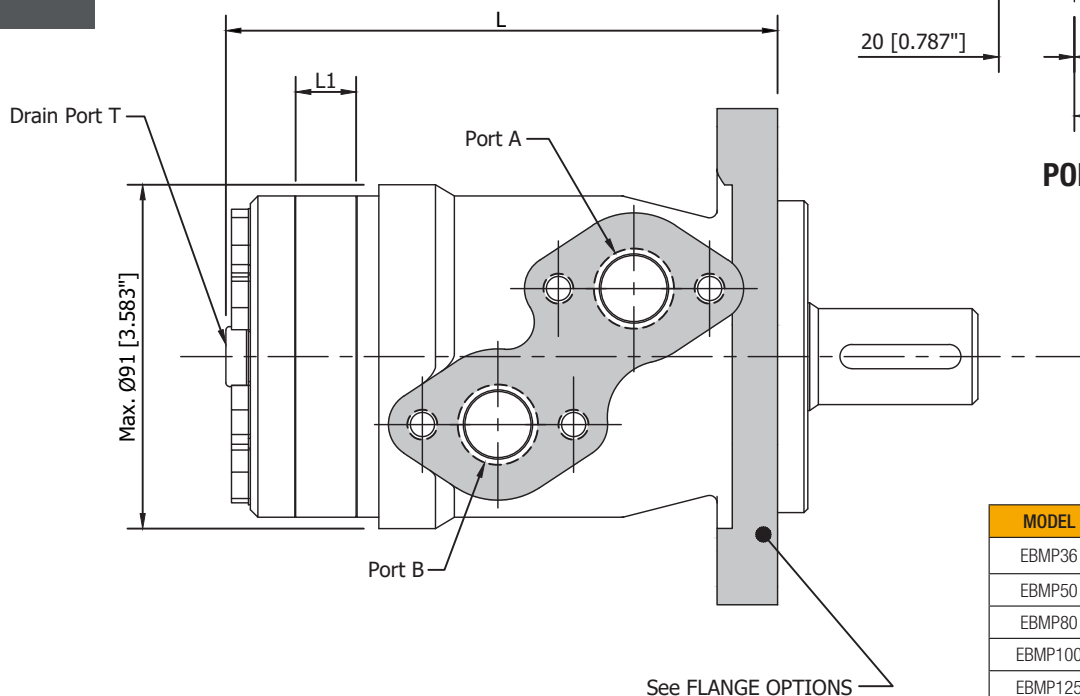




**AVAILABLE FLANGE:
2 - 4 - H4/H5**



PORTS DETAIL

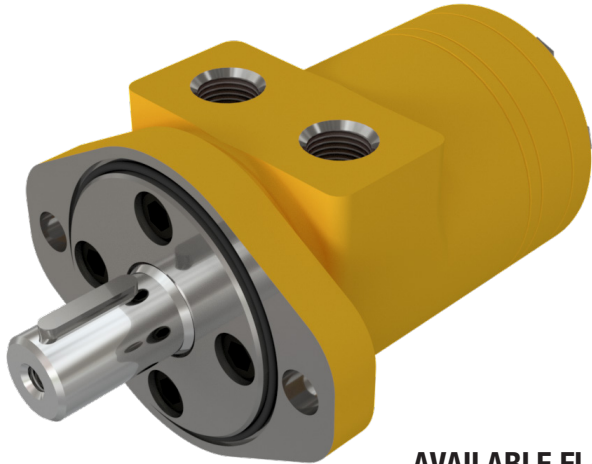


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EBMP160	151 [5.945"]	21 [0.827"]
EBMP200	157 [6.181"]	26 [1.024"]
EBMP250	162 [6.378"]	32 [1.260"]
EBMP315	172 [6.772"]	42 [1.654"]
EBMP400	182 [7.165"]	52 [2.047"]
EBMP500	195 [7.677"]	65 [2.559"]

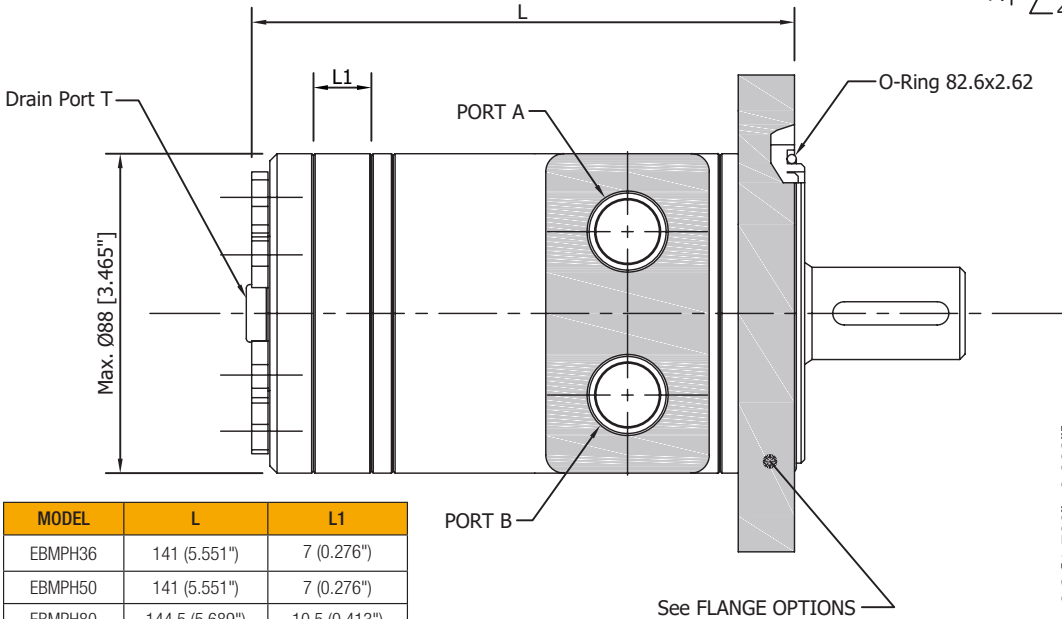
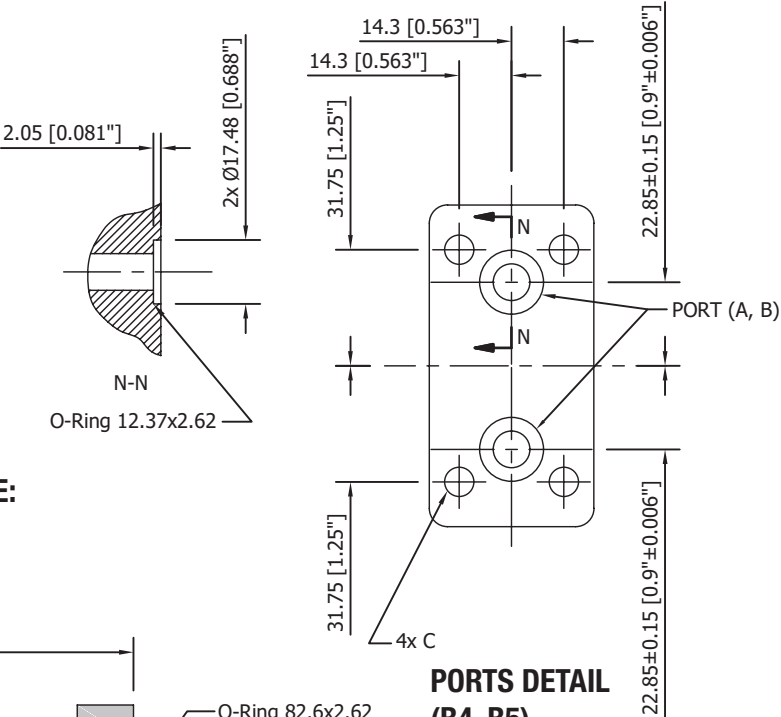
EBMP BODY DIMENSIONS

MOUNTING	CODE (Depth mm)				
	D	M	S	P	R
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)	PT (RC) 1/2 (15)
C	4x M8 (13)	4x M8 (13)	4x 5/16-18UNC (13)	4x 5/16-18UNC (13)	4x M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)

EBMPH DIMENSIONS AND MOUNTING



AVAILABLE FLANGE:
H2 - H6 - H4/H5



PORTS DETAIL
(B4, B5)

PORTS DETAIL
(G, S, P, T, R)

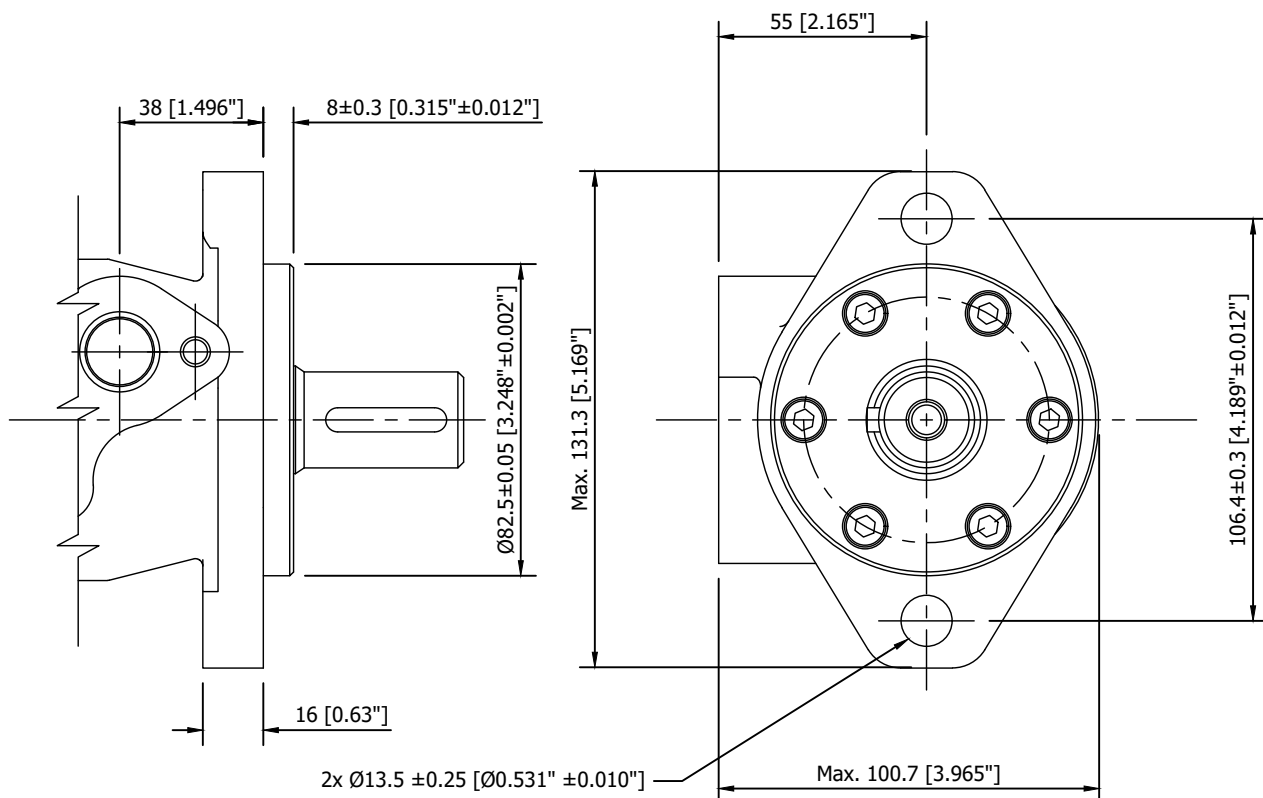
MODEL	L	L1
EBMPH36	141 (5.551")	7 (0.276")
EBMPH50	141 (5.551")	7 (0.276")
EBMPH80	144.5 (5.689")	10.5 (0.413")
EBMPH100	147 (5.787")	13 (0.512")
EBMPH125	150 (5.906")	16 (0.63")
EBMPH160	155 (6.102")	21 (0.827")
EBMPH200	160 (6.299")	26 (1.024")
EBMPH250	166 (6.535")	32 (1.26")
EBMPH315	176 (6.929")	42 (1.654")
EBMPH400	186 (7.323")	52 (2.047")
EBMPH500	199 (7.835")	65 (2.559")

MOUNTING	CODE (Depth mm)						
	G	S	P	T	R	B4	B5
P (A, B)	G 1/2 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)	3/4-16 O-Ring (15)	PT(RC) 1/2 (15)	Ø10	Ø10
T	G1/4 (12)	7/16-20 UNF (12)	7/16-20 UNF (12)	7/16-20 UNF (12)	PT(RC) 1/4 (9.7)	7/16-20 UNF (12)	G1/4 (12)
C	-	-	-	-	-	4-5/16-18UNC(13)	4-M8 (13)

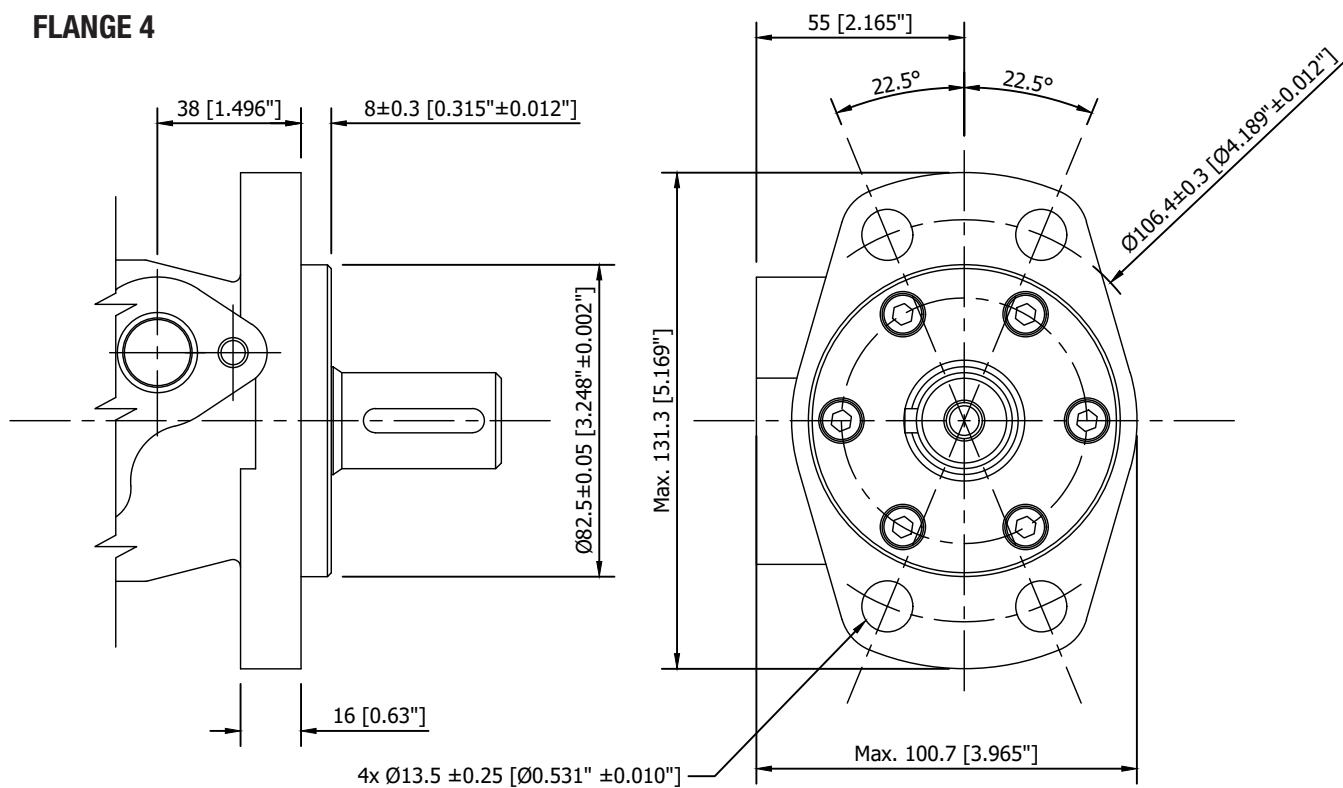
EBMPH

FLANGE 2

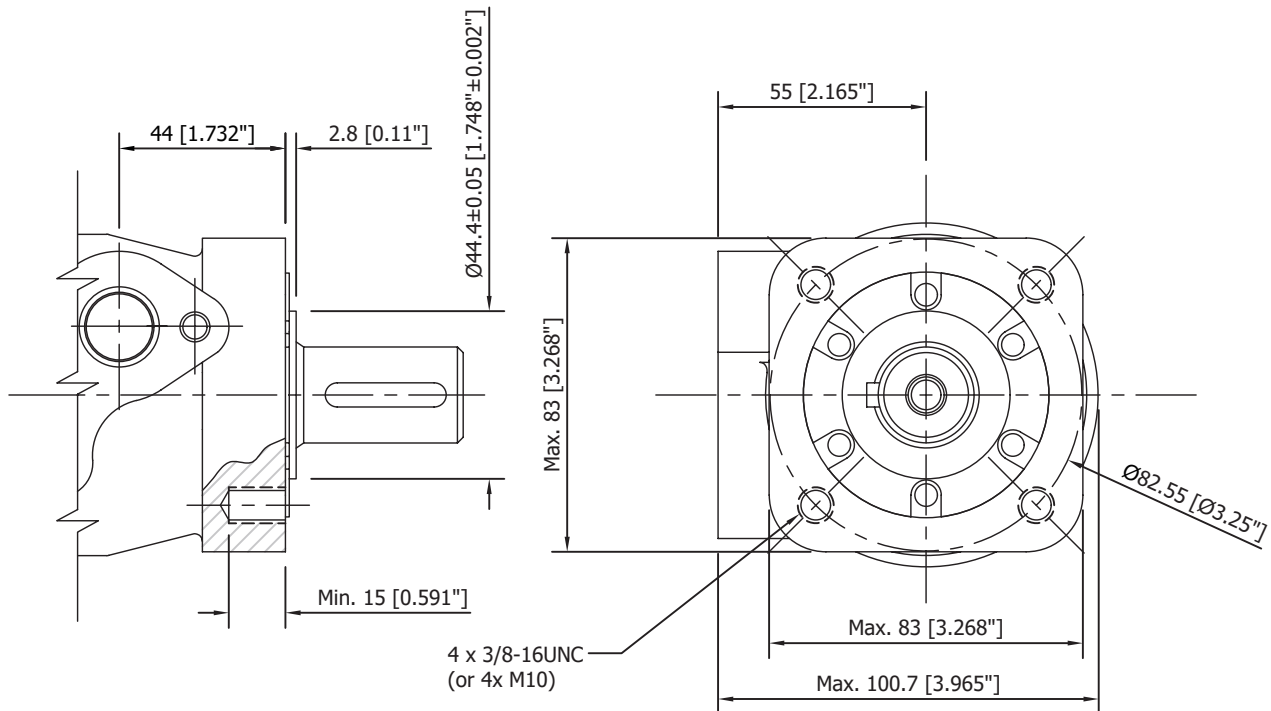
EBMP



FLANGE 4

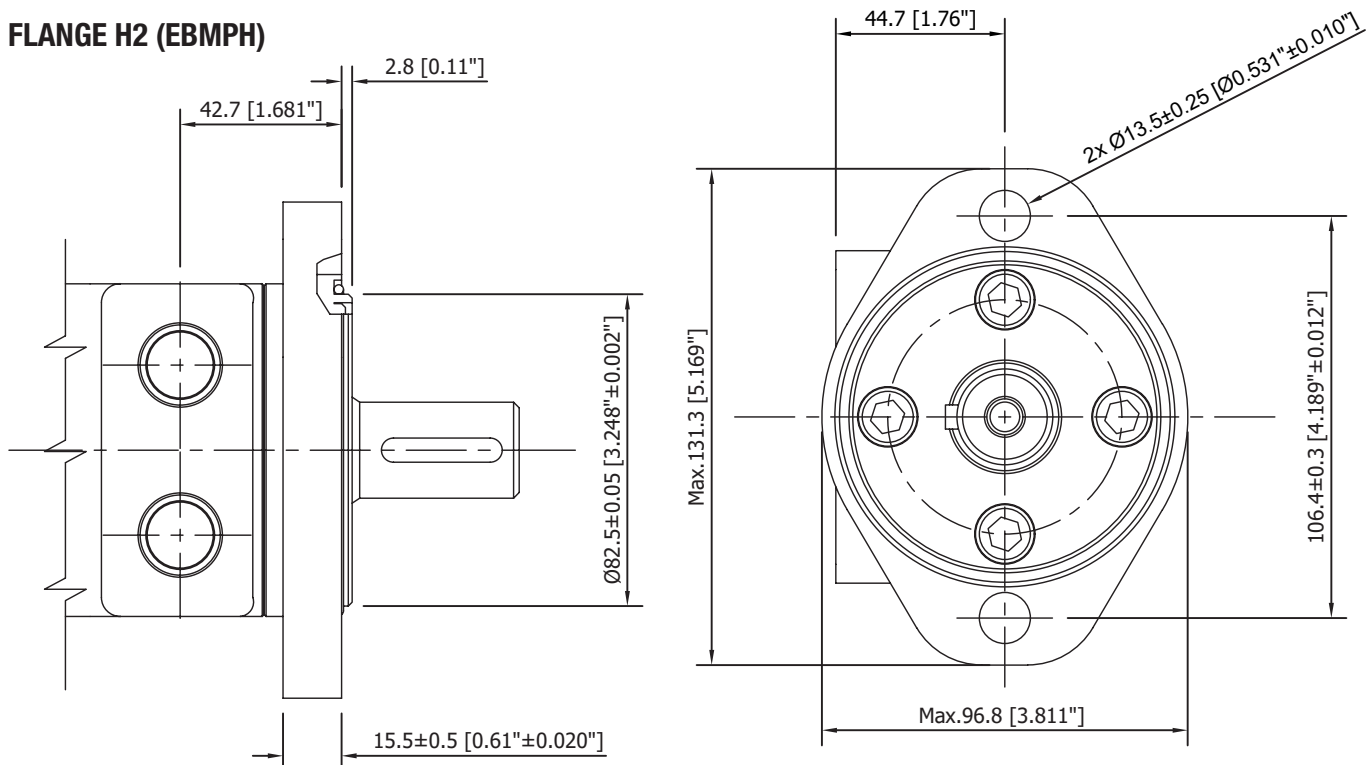


FLANGE H4 / H5



EBMP

FLANGE H2 (EBMPH)

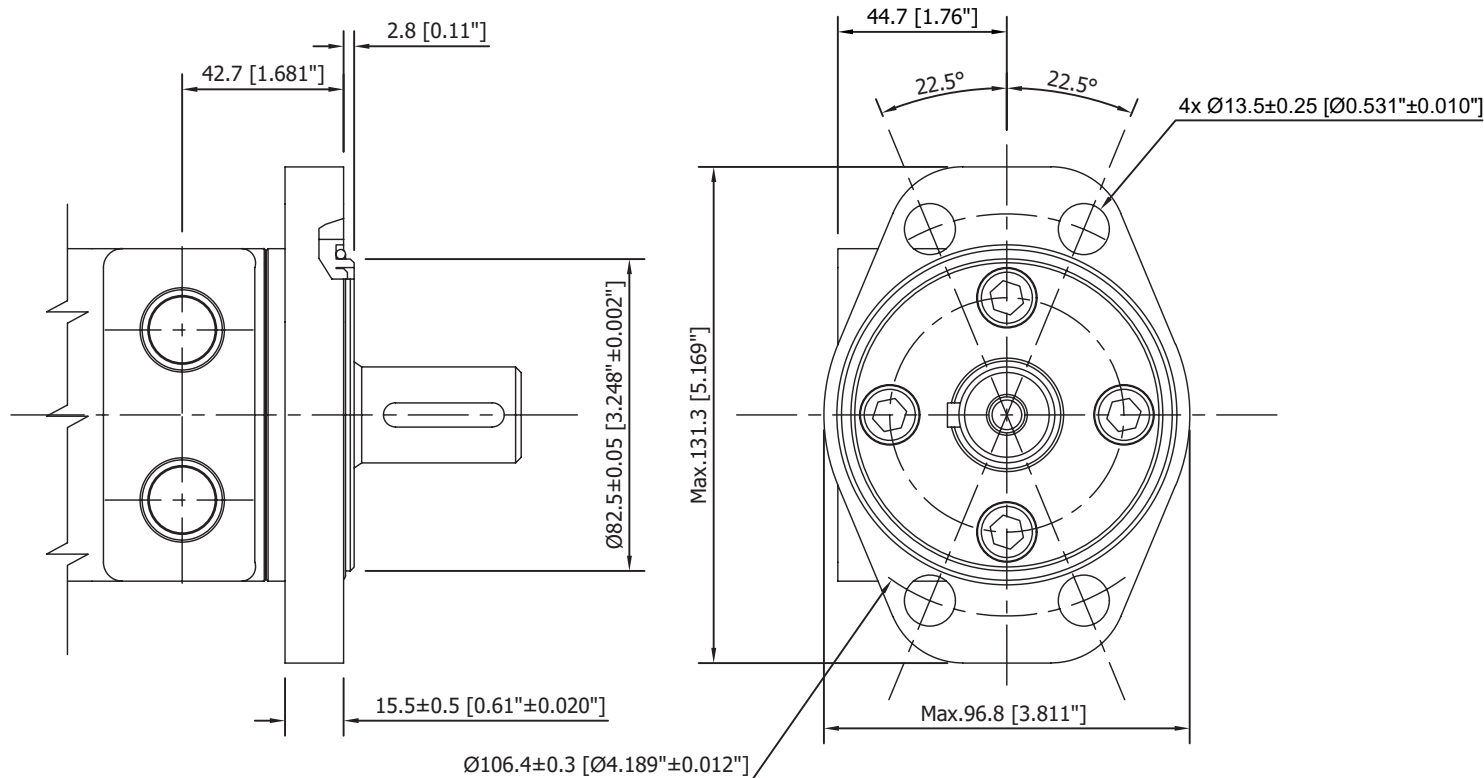


All numbers given are nominal values and should be used for reference only.

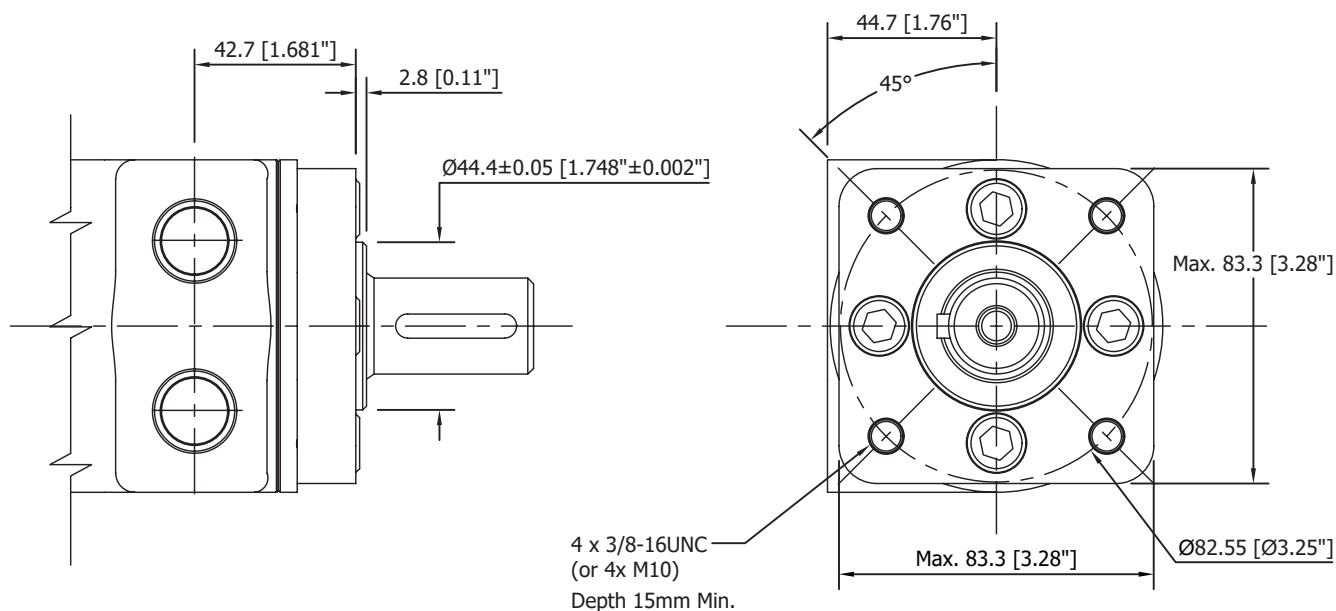
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FLANGE H6 (EBMPH)

EBMP



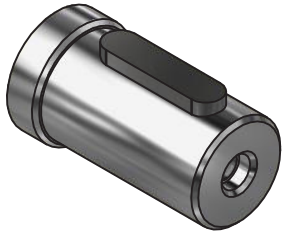
FLANGE H4/H5 (EBMPH)



EBMP SHAFT EXTENSIONS DIMENSIONS

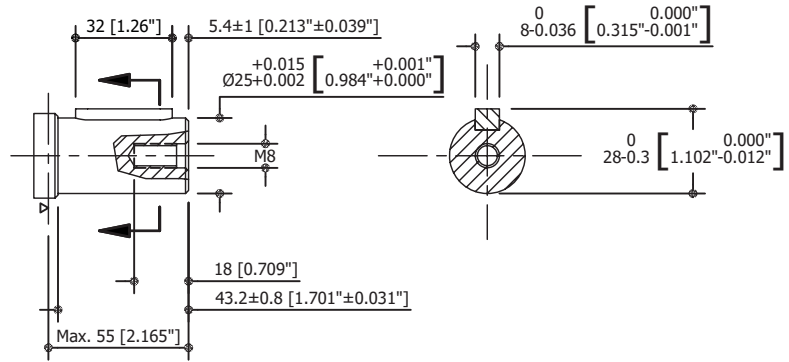


EBMP



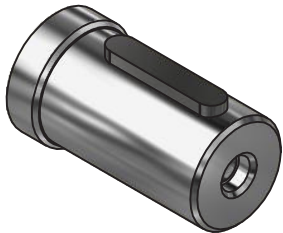
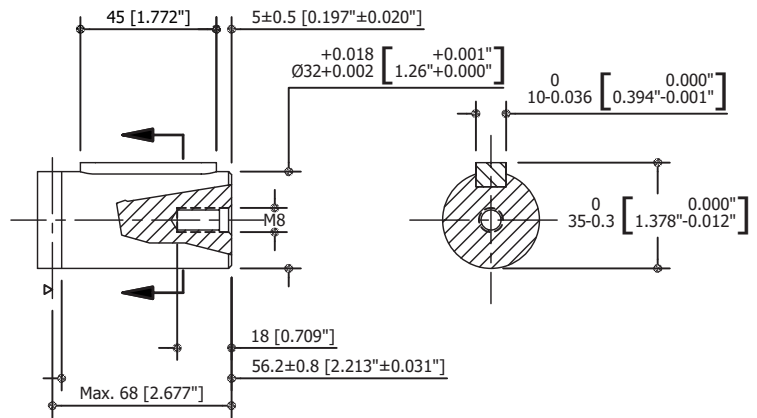
SHAFT A

Cylindrical Shaft $\varnothing 25$ - Parallel Key 8x7x32
METRIC



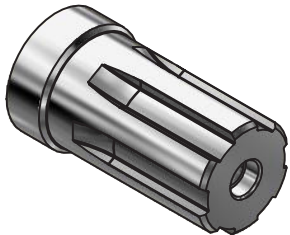
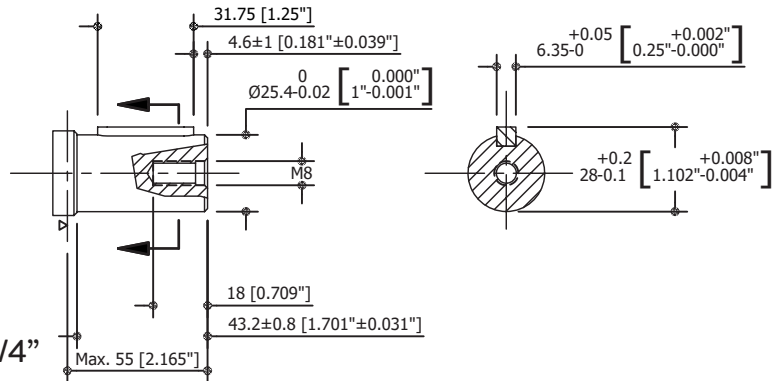
SHAFT B

Cylindrical Shaft $\varnothing 32$ - Parallel Key 10x8x45
METRIC



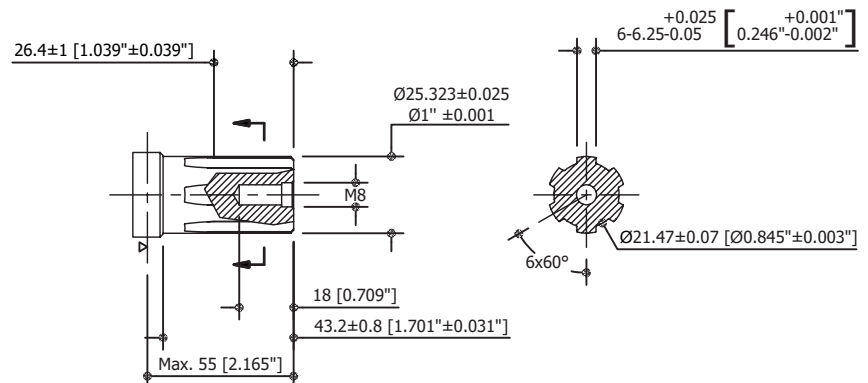
SHAFT C

Cylindrical Shaft 1" - Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



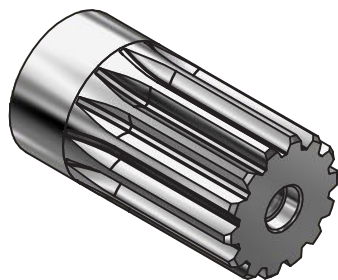
SHAFT E

Splined SAE 6B
IMPERIAL



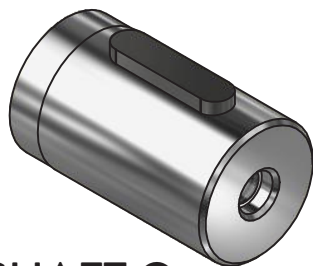
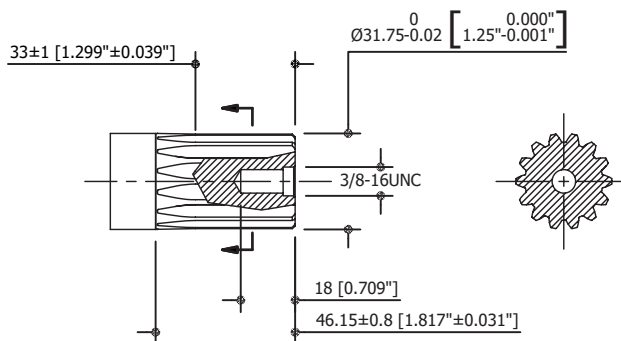
All numbers given are nominal values and should be used for reference only.

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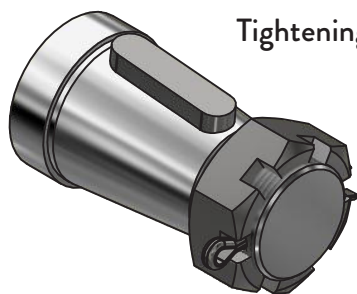
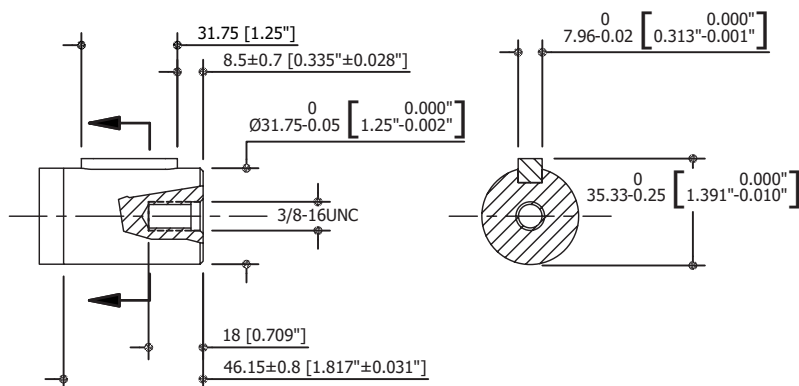
SHAFT F

Splined 14-DP12/24
IMPERIAL



SHAFT G

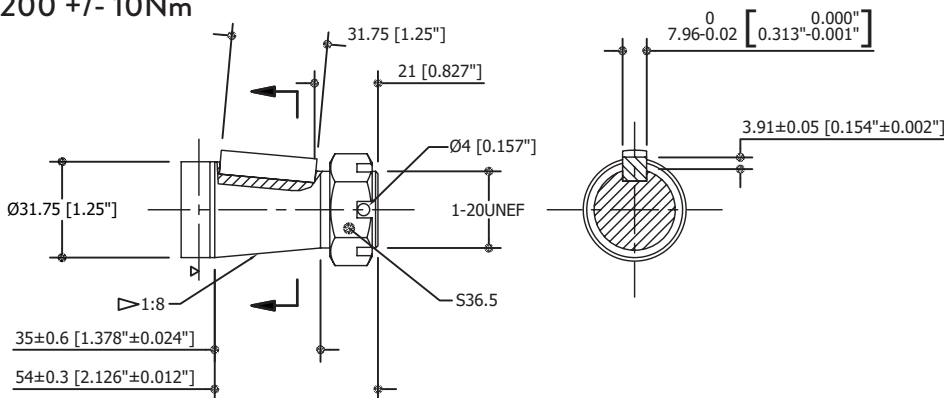
Cylindrical Shaft $\varnothing 1-1/4''$
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL

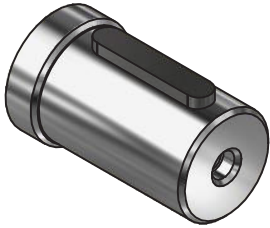


Tightening Torque: 200 +/- 10Nm

SHAFT T3

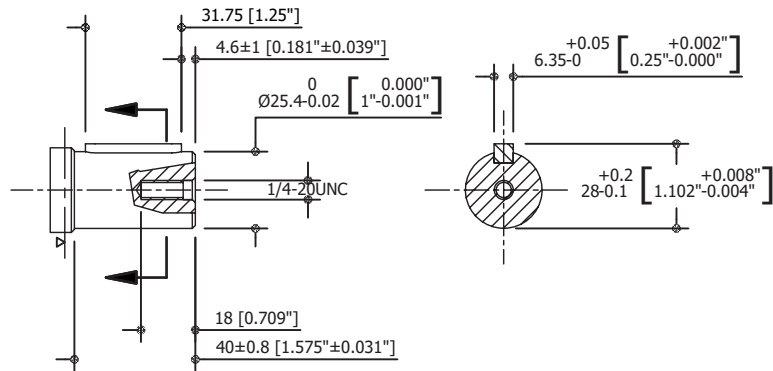
Cone Shaft $\varnothing 1-1/4''$
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL





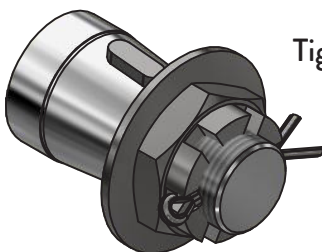
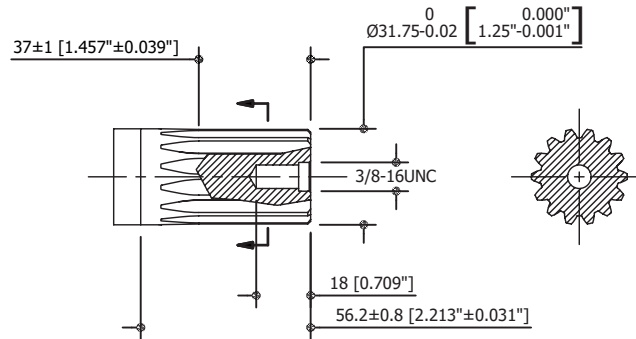
SHAFT R

Cylindrical Shaft Ø1"
Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



SHAFT FD

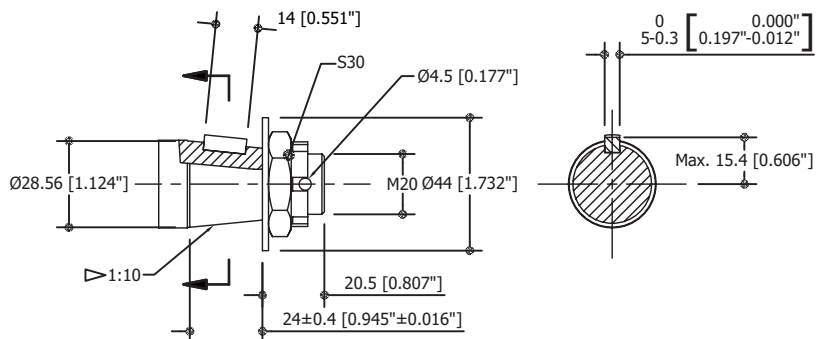
Splined 14-DPI2/24
IMPERIAL



Tightening Torque: 100 +/- 10Nm

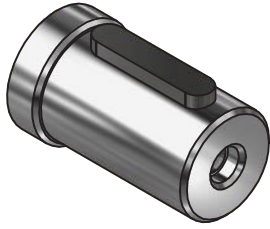
SHAFT T

Cone Shaft Ø28.56mm
Parallel Key B5x5x14
METRIC



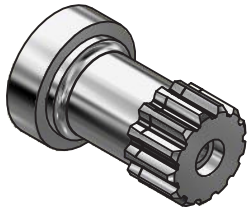
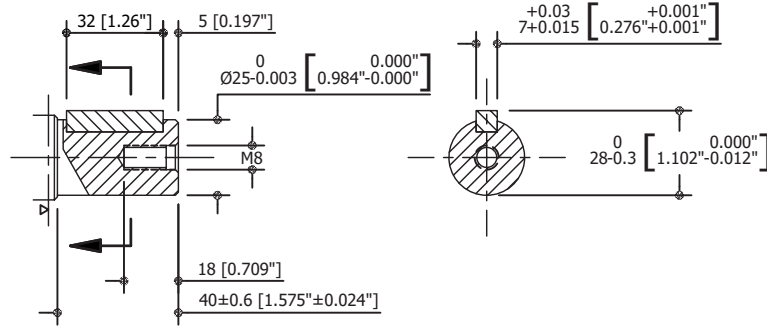
EBMP





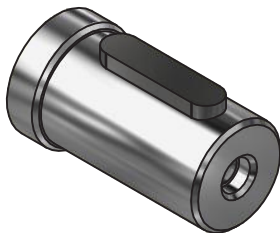
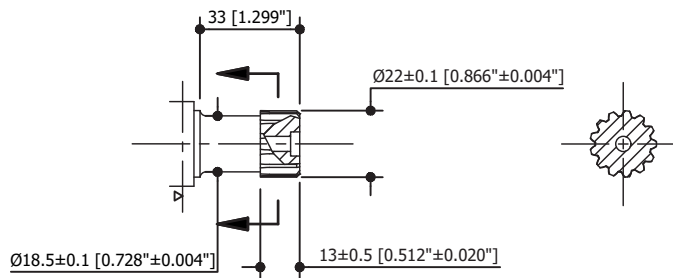
SHAFT J

Cylindrical Shaft $\varnothing 25$
Parallel Key 7x7x32
METRIC



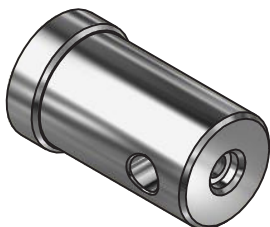
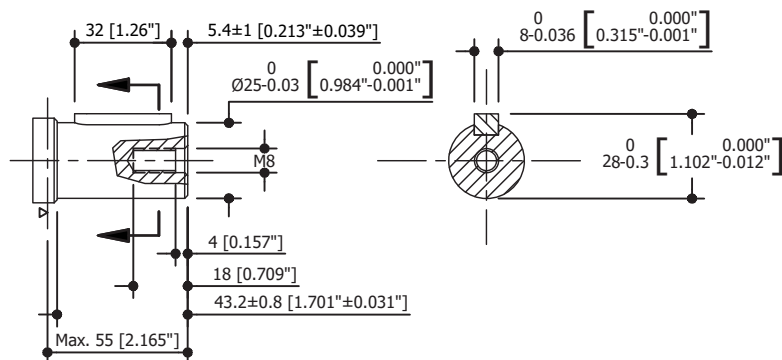
SHAFT I

Splined 13-DP16/32
METRIC



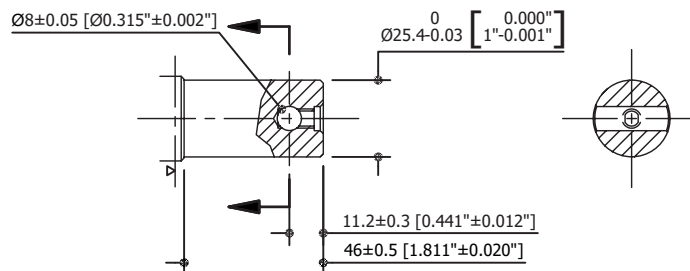
SHAFT A

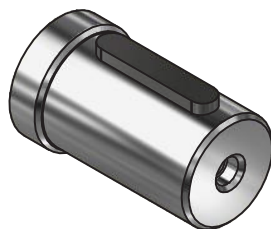
Cylindrical Shaft $\varnothing 25$
Parallel Key 8x7x32
METRIC



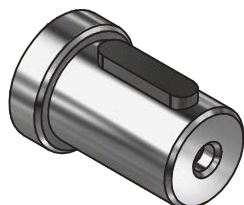
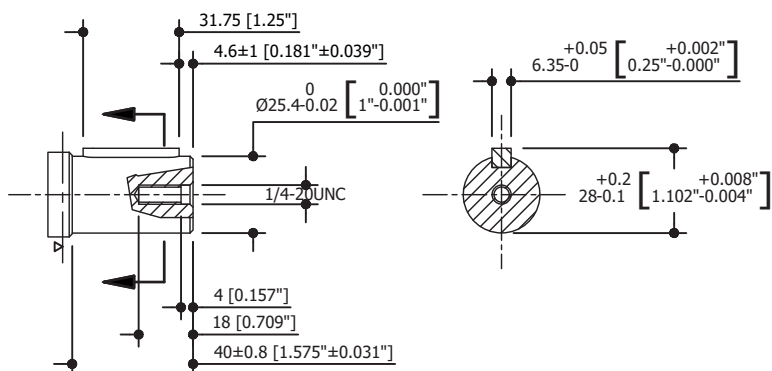
SHAFT H1

Cylindrical Shaft $\varnothing 1$ "
Pin Hole $\varnothing 8$
IMPERIAL

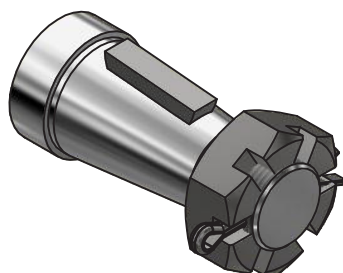
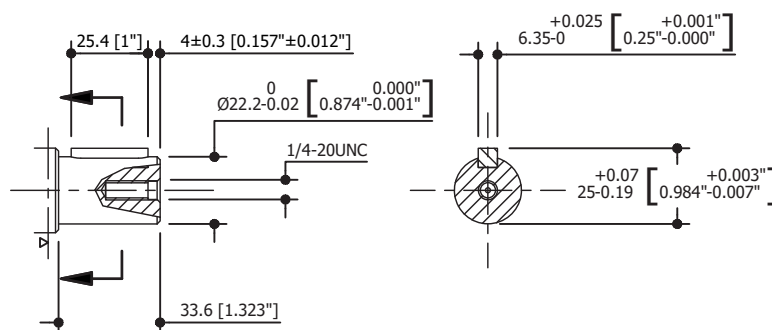




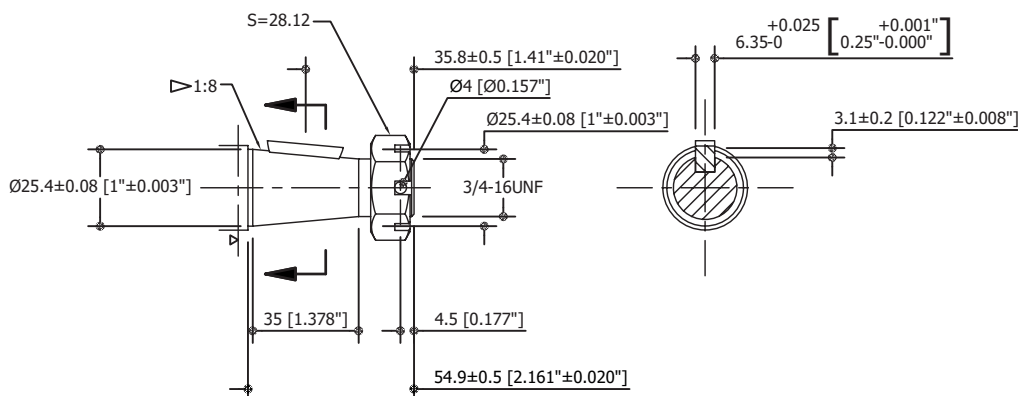
SHAFT R
Cylindrical Shaft $\varnothing 1"$
Parallel Key $1/4" \times 1/4" \times 1-1/4"$
IMPERIAL



SHAFT D
Cylindrical Shaft $\varnothing 0.875"$
Parallel Key $1/4" \times 1/4" \times 1"$
IMPERIAL

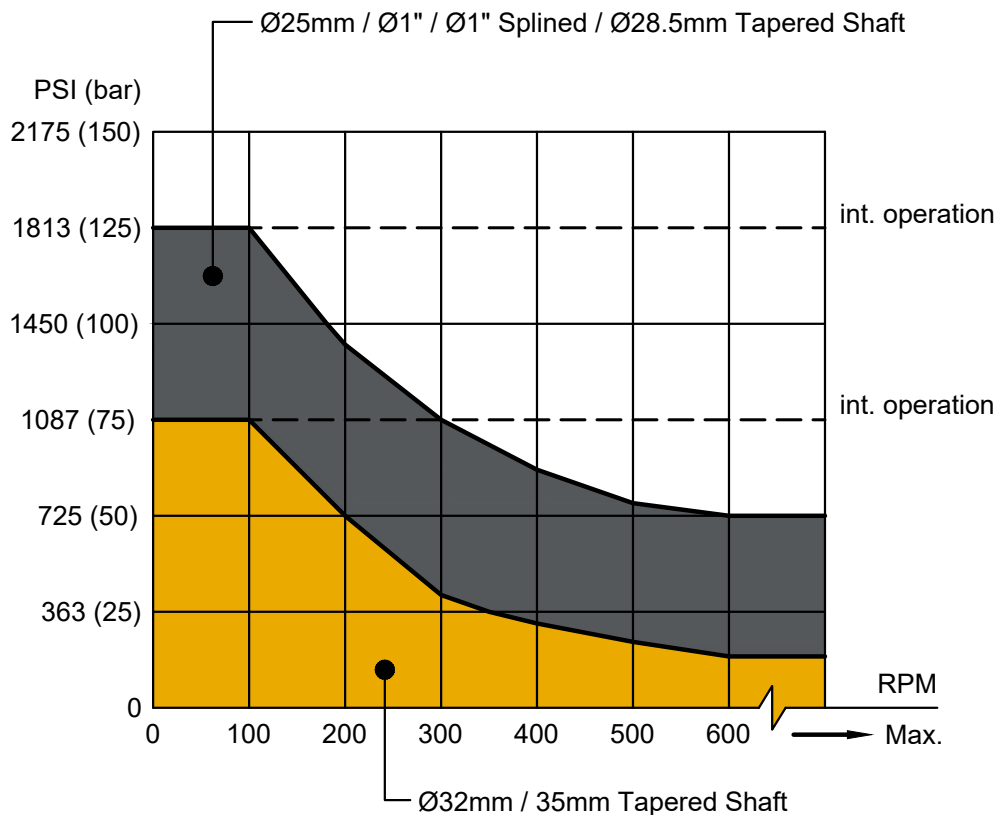
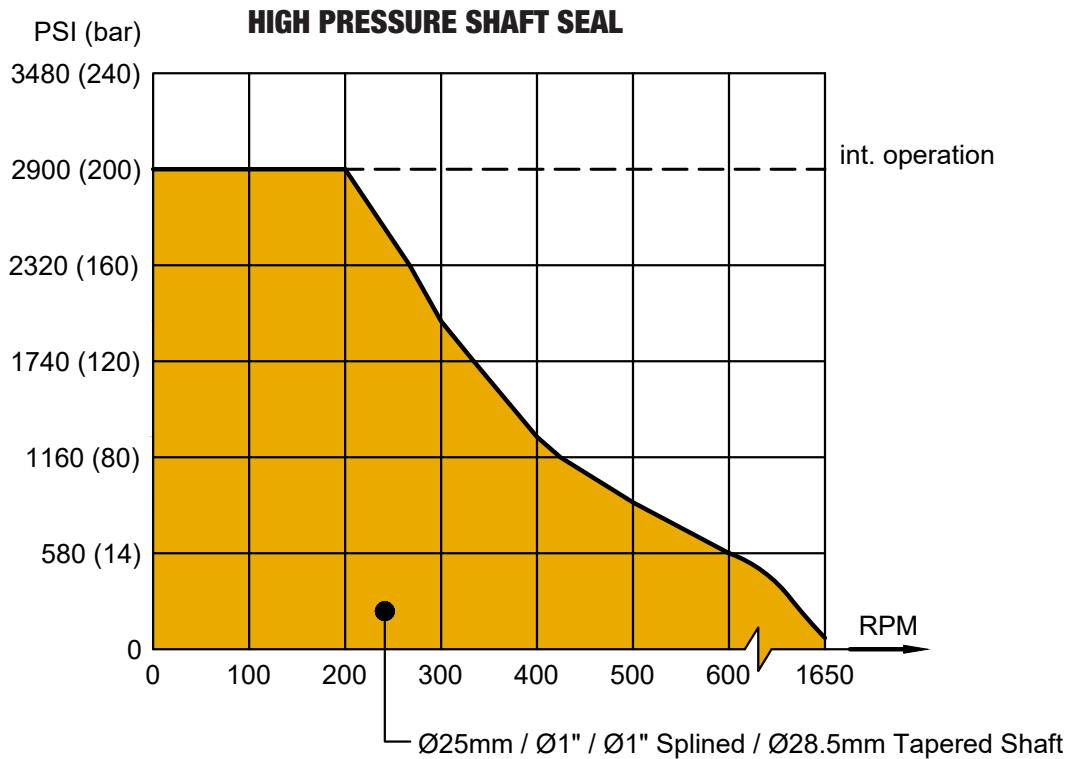
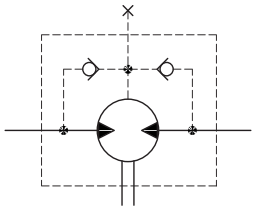


SHAFT T2
Cone Shaft $\varnothing 1"$
Woodruff Key $\varnothing 1" \times 1/4"$
IMPERIAL



Tightening Torque: $200 \pm 10\text{Nm}$

PERMISSIBLE SHAFT SEAL PRESSURE EBMP - EBMPH



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.



All numbers given are nominal values and should be used for reference only.

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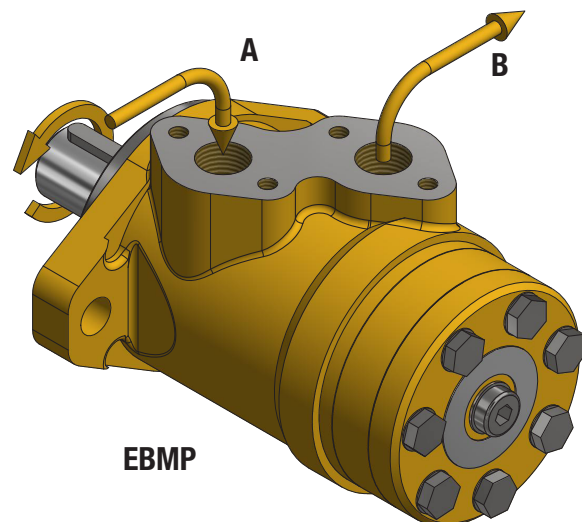
EBMP

EBMP - DIRECTION OF SHAFT ROTATION : STANDARD

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.

Counter-Clockwise when port "B"
is pressurized.



STATUS OF THE SHAFT'S RADIAL FORCE (Standard Motor with Journal Bearing)

F_r = Radial Force (daN)

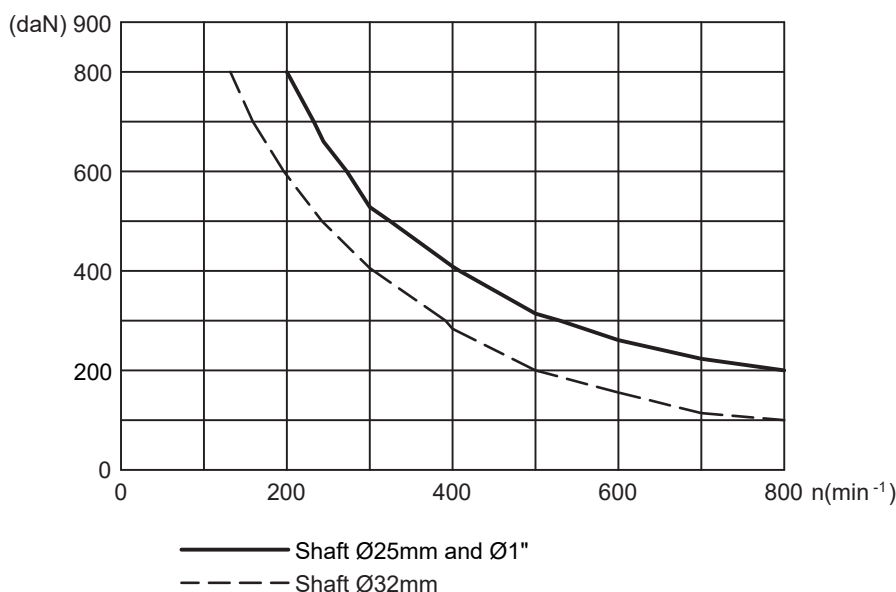
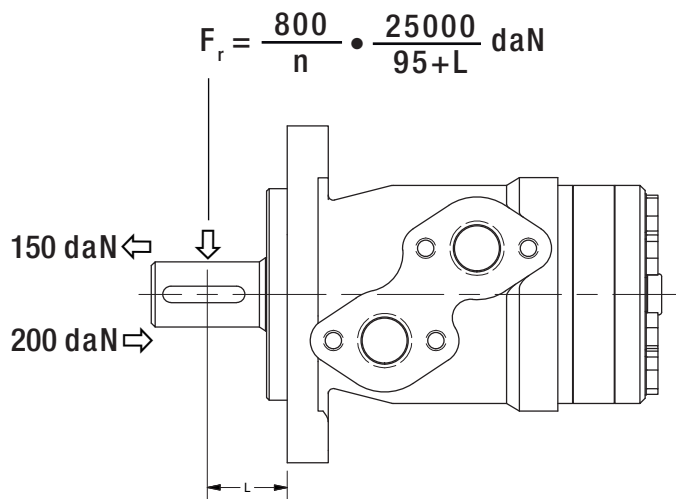
L = Distance (mm)

n = Speed (rpm)

Max. Force Load

Rhomb-flange $L = 30\text{mm}$

Square-Flange $L = 24\text{mm}$



OIL FLOW IN DRAIN LINE

The table shows the Max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

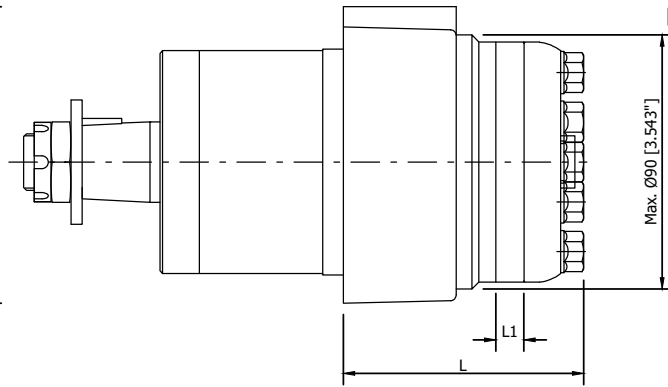
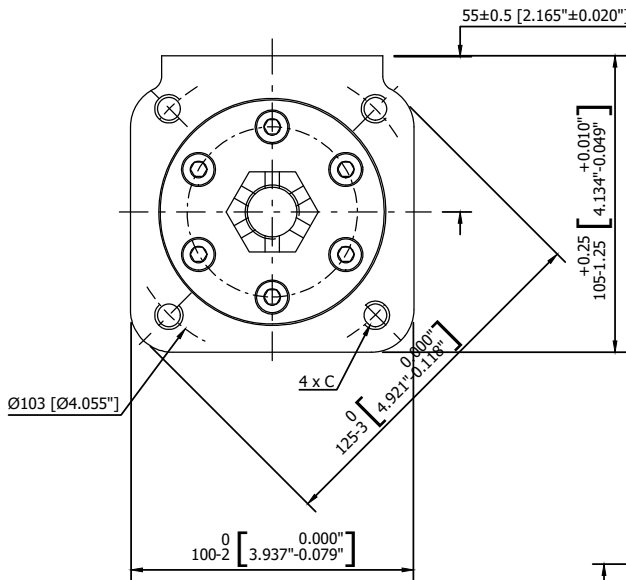
Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
1450 (100)	0.031 (20)	0.66 (2.5)
	0.054 (35)	0.48 (1.8)
2030 (140)	0.031 (20)	0.93 (3.5)
	0.054 (35)	0.75 (2.8)

*Speed Sensor: It's available with a sensor for monitoring motor shaft speed (see page 216)

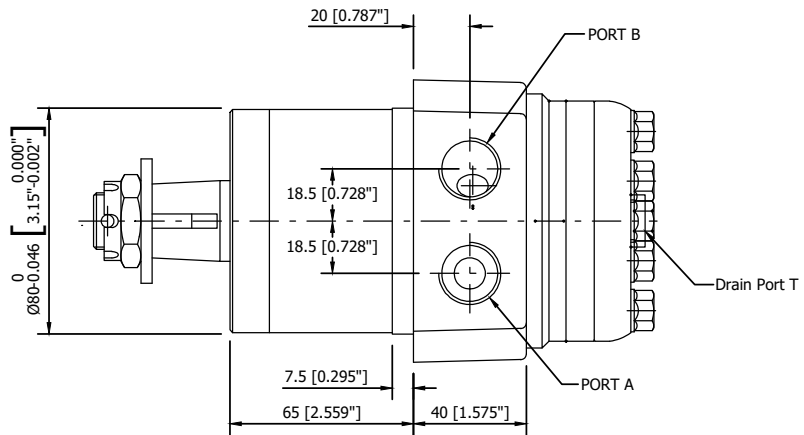
EBMPW DIMENSIONS AND MOUNTING



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MODEL	L	L1
EBMPW50	81 (3.189")	7 (0.276")
EBMPW80	84.5 (3.327")	10.5 (0.413")
EBMPW100	87 (3.425")	13 (0.512")
EBMPW125	90 (3.543")	16 (0.63")
EBMPW160	95 (3.74")	21 (0.827")
EBMPW200	100 (3.937")	26 (1.024")
EBMPW250	106 (4.173")	32 (1.26")
EBMPW315	116 (4.567")	42 (1.654")
EBMPW400	126 (4.961")	52 (2.047")
EBMPW500	139 (5.472")	65 (2.559")



MOUNTING	CODE (Depth mm)		
	G	S	M
P (A, B)	G 1/2 (15)	7/8-14 O-Ring (17)	M22 x 1.5 (15)
T	G1/4 (12)	7/16-20 UNF (12)	M14 x 1.5 (12)
C	4 x M10(20)	4 x 3/8-16UNC (20)	4 x M10 (20)

EBMPW ORDER INFORMATION

EBMPW - - - - - - -

1	2	3		4		5		6		7		8			
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function			
	50	Blank	Wheel-Flange Pilot Ø80 x 7.5	A	Shaft Ø25, Parrallel Key 8x7x32	G	G1/2, G1/4	Blank	Standard	00	No Paint	Blank	Standard		
	80			C	Shaft Ø1", Parrallel Key 1/4" x 1/4" x 1-1/4"	S	7/8-14 O-Ring, 7/16-20UNF	R	Opposite	Omit	Black	N1	Big Radial Force		
	100			E	Shaft Ø1", Splined Tooth SAE 6B	M	M22 x 1.5, M14 x 1.5							0	No Case Drain
	125			T	Cone-Shaft Ø28.56, Parrallel Key B5x5x14										
	160														
	200														
	250														
	315														
	400														
	500														

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.



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EBMPW

EOZ series motor is a small volume, economical type, which is designed with shaft distribution flow, which adapts the Gerotor Gear set design and provides a compact volume, high power and low weight.

FEATURES

- Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
- Shaft seal can bear high pressure of motor and can be used in parallel or in series.
- Advanced construction design, high power and low weight.
- Internal construction: no bearing, no bushing

TECHNICAL DATA FOR EOZ WITH 25mm Shaft / 1in Shaft / 1in Splined and 28.56mm Tapered Shaft

		EOZ 36	EOZ 50	EOZ 80	EOZ 100	EOZ 125	EOZ 160	EOZ 200	EOZ 250	EOZ 315	EOZ 400
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.26 (37)	3.15 (51.7)	4.74 (77.7)	5.87 (96.2)	7.34 (120.2)	9.59 (157.2)	11.87 (194.5)	14.66 (240.3)	19.19 (314.5)	23.77 (389.5)
Max. Speed	Continuous (rpm)	1081	774	515	416	339	257	211	173	128	104
Max. Torque	Continuous lbf•ft (N•m)	37.6 (51)	53.9 (73)	78.2 (106)	103.3 (140)	119.6 (162)	159.4 (216)	194.8 (264)	207.4 (281)	230.3 (312)	289.3 (392)
	Intermittent lbf•ft (N•m)	50.2 (68)	70.8 (96)	105.5 (143)	131.4 (178)	160.9 (218)	212.5 (288)	259 (351)	259 (351)	319.6 (433)	429.5 (582)
Max. Output	Continuous hp (kW)	7 (5.2)	7 (5.2)	7 (5.2)	7 (5.2)	7 (5.2)	7 (5.2)	7 (5.2)	6.2 (4.6)	4.6 (3.4)	4.6 (3.4)
	Intermittent hp (kW)	11.5 (8.6)	11.5 (8.6)	11.5 (8.6)	11.5 (8.6)	11.5 (8.6)	11.5 (8.6)	11.5 (8.6)	9.4 (7)	7.8 (5.8)	7.8 (5.8)
Max. Pressure Drop	Continuous PSI (bar)	1523 (105)	1523 (105)	1523 (105)	1523 (105)	1523 (105)	1523 (105)	1523 (105)	1305 (90)	1015 (70)	1015 (70)
	Intermittent PSI (bar)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	1668 (115)	1523 (105)	1523 (105)
Max. Flow	Continuous GPM (L/min)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)	10.6 (40)

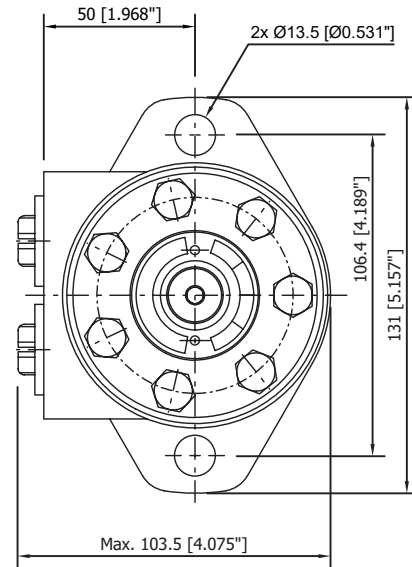
* Intermittent operation: the permissible values may occur for max. 10% of every minute

EOZ ORDER INFORMATION

EOZ - - - - - - -

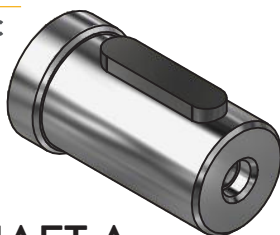
1	2	3		4		5		6		7		8		
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function		
	36	2	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	A	Shaft Ø25, Parrallel Key 8x7x32	D	G1/2 Manifold Mount, 4-M8, G1/4	Blank	Standard	00	No Paint	Blank	Standard	
	50			C	Shaft Ø1", Parrallel Key 1/4" x 1/4" x 1-1/4"	M	M22x1.5 Manifold Mount, 4-M8, M14x1.5	R	Opposite	Omit	Black	F	Free Running	
	80			E	Shaft Ø1", Splined Tooth SAE 6B	S	7/8-14 O-Ring Manifold, 4-5/16-18UNC, 7/16-20UNF					0	No Case Drain	
	100			W	Shaft Ø24.5, Splined B25x22	P	1/2-14 NPTF Manifold, 4-5/16-18UNC, 7/16-20UNF							
	125			T	Cone-Shaft Ø28.56, Parrallel Key B5x5x14	R	PT(Rc)1/2 Manifold, 4-M8, PT(Rc) 1/4							
	160													
	200													
	250													
	315													
	400													



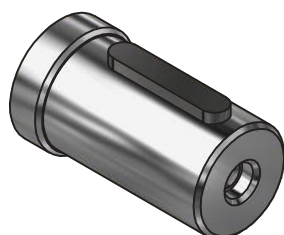
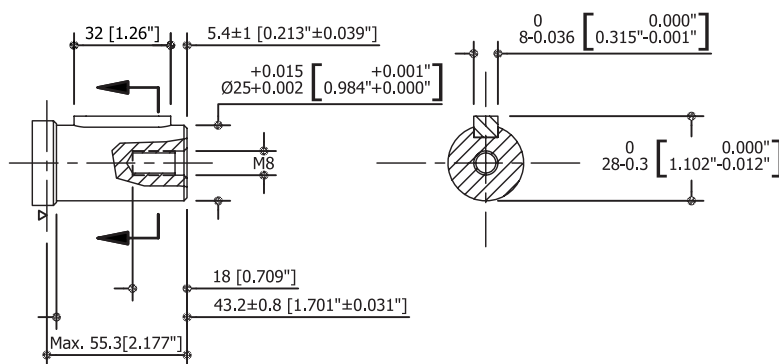


	CODE (Depth mm)				
MOUNTING	D	M	S	P	R
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)	PT (RC) 1/2 (15)
C	4x M8 (13)	4x M8 (13)	4x 5/16-18UNC (13)	4x 5/16-18UNC (13)	4x M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)

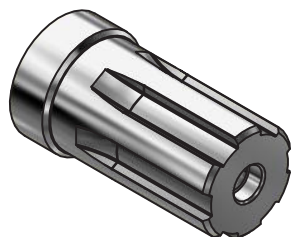
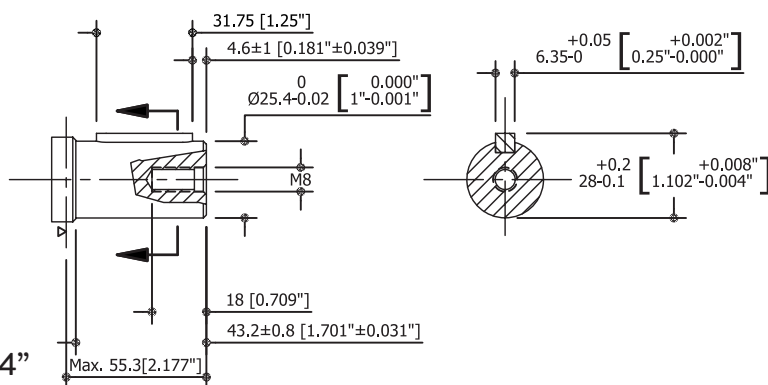
37



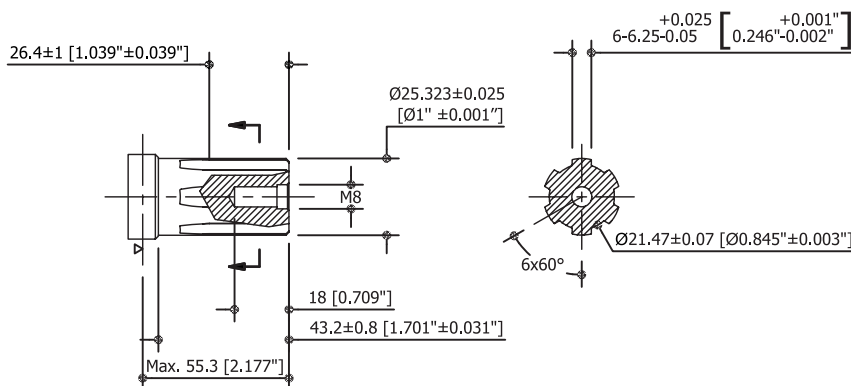
SHAFT A
Cylindrical Shaft Ø25
Parallel Key 8x7x32
METRIC



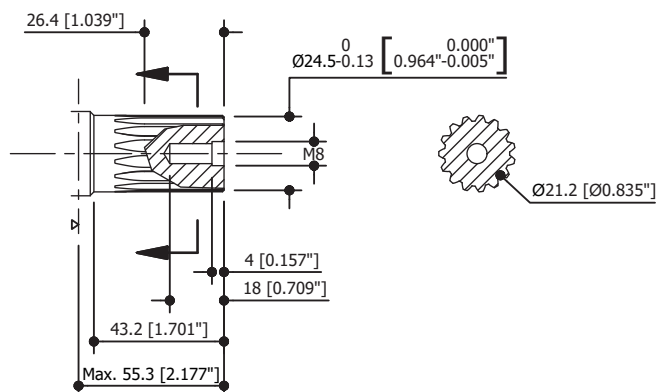
SHAFT C
Cylindrical Shaft 1" - Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



SHAFT E
Splined SAE 6B
IMPERIAL



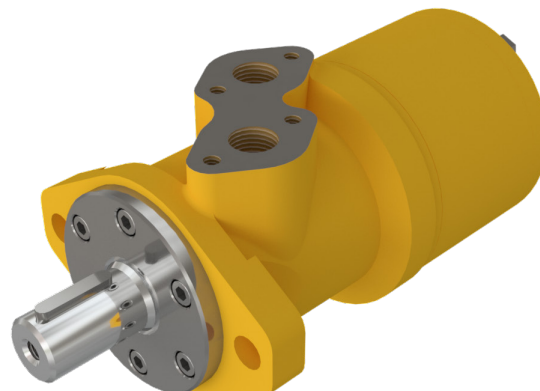
SHAFT W
DIN 5482 B25 x 22h9
14zx1.6mx30Px9h



EBMR series motor adapts the advanced Geroler gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure. This series motor provides reliable and smooth operation, high efficiency and long life.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- Shaft seal can bear high pressure of back and the motor can be used in parallel or in series.
- Special design in the driver-linker and long operating life
- Special design for distribution system can meet the requirement of low noise of unit.
- Compact volume and easy installation
- Speed sensor available on request
- Internal construction: with radial needle roller bearing



EBMR - Flange 2

EBMR

TECHNICAL DATA FOR EBMR WITH 25mm Shaft / 1in Shaft / 1in Splined and 28.56mm Tapered Shaft

		EBMR EBMRS 36	EBMR EBMRS 50	EBMR EBMRS 80	EBMR EBMRS 100	EBMR EBMRS 125	EBMR EBMRS 160	EBMR EBMRS 200	EBMR EBMRS 250	EBMR EBMRS 315	EBMR EBMRS 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.2 (36)	3.15 (51.7)	4.97 (81.5)	6.22 (102)	7.76 (127.2)	9.59 (157.2)	11.87 (194.5)	15.46 (253.3)	19.38 (317.5)	23.27 (381.4)
Max. Speed	Continuous (rpm)	1085	960	750	600	475	378	310	240	190	155
	Intermittent (rpm)	1220	1150	940	750	600	475	385	300	240	190
Max. Torque	Continuous lbf•ft (N•m)	53.1 (72)	73.8 (100)	143.9 (195)	177.1 (240)	221.4 (300)	265.7 (360)	265.7 (360)	287.8 (390)	287.8 (390)	269.4 (365)
	Intermittent lbf•ft (N•m)	61.3 (83)	93 (126)	162.4 (220)	206.6 (280)	250.9 (340)	317.3 (430)	324.7 (440)	361.6 (490)	394.8 (535)	365.3 (495)
	Peak lbf•ft (N•m)	77.5 (105)	121.8 (165)	199.3 (270)	236.2 (320)	273.1 (370)	339.5 (460)	413.3 (560)	472.3 (640)	479.7 (650)	501.8 (680)
Max. Output	Continuous hp (kW)	11.4 (8.5)	12.7 (9.5)	16.8 (12.5)	17.4 (13)	16.8 (12.5)	16.8 (12.5)	13.4 (10)	9.4 (7)	8 (6)	6.7 (5)
	Intermittent hp (kW)	13.1 (9.8)	15 (11.2)	20.1 (15)	20.1 (15)	19.4 (14.5)	18.8 (14)	17.4 (13)	12.7 (9.5)	12.1 (9)	10.7 (8)
Max. Pressure Drop	Continuous PSI (bar)	2031 (140)	2031 (140)	2538 (175)	2538 (175)	2538 (175)	2393 (165)	1885 (130)	1595 (110)	1305 (90)	1015 (70)
	Intermittent PSI (bar)	2393 (165)	2538 (175)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2538 (175)	2176 (150)	1885 (130)	1450 (100)
	Peak PSI (bar)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	2901 (200)	2538 (175)	2176 (150)
Max. Flow	Continuous GPM (L/min)	10.6 (40)	13.2 (50)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)
	Intermittent GPM (L/min)	11.9 (45)	15.9 (60)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
Weight	Lbs (kg)	14.3 (6.5)	14.7 (6.7)	15.2 (6.9)	15.4 (7)	16.1 (7.3)	16.7 (7.6)	17.6 (8)	18.7 (8.5)	19.8 (9)	20.9 (9.5)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



All numbers given are nominal values and should be used for reference only.

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TECHNICAL DATA FOR EBMR WITH 31.75mm Shaft and 32mm Shaft

EBMR

		EBMR EBMRS 36	EBMR EBMRS 50	EBMR EBMRS 80	EBMR EBMRS 100	EBMR EBMRS 125	EBMR EBMRS 160	EBMR EBMRS 200	EBMR EBMRS 250	EBMR EBMRS 315	EBMR EBMRS 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.2 (36)	3.15 (51.7)	4.97 (81.5)	6.22 (102)	7.76 (127.2)	9.59 (157.2)	11.87 (194.5)	15.46 (253.3)	19.38 (317.5)	23.27 (381.4)
Max. Speed	Continuous (rpm)	1250	960	750	600	475	378	310	240	190	155
	Intermittent (rpm)	1520	1150	940	750	600	475	385	300	240	190
Max. Torque	Continuous lbf•ft (N•m)	53.1 (72)	73.8 (100)	143.9 (195)	177.1 (240)	221.4 (300)	280.4 (380)	332.1 (450)	398.5 (540)	405.9 (550)	428 (580)
	Intermittent lbf•ft (N•m)	61.2 (83)	93 (126)	162.4 (220)	206.6 (280)	250.9 (340)	317.3 (430)	369 (500)	450.2 (610)	509.2 (690)	509.2 (690)
	Peak lbf•ft (N•m)	77.5 (105)	121.8 (165)	199.3 (270)	236.2 (320)	273.1 (370)	339.5 (460)	413.3 (560)	524 (710)	619.9 (840)	612.5 (830)
Max. Output	Continuous hp (kW)	11.4 (8.5)	12.7 (9.5)	16.8 (12.5)	17.4 (13)	16.8 (12.5)	16.8 (12.5)	14.8 (11)	13.4 (10)	12.1 (9)	10.1 (7.5)
	Intermittent hp (kW)	13.1 (9.8)	15 (11.2)	20.1 (15)	20.1 (15)	19.4 (14.5)	18.8 (14)	17.4 (13)	16.1 (12)	13.4 (10)	12.1 (9)
Max. Pressure Drop	Continuous PSI (bar)	2031 (140)	2031 (140)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	1958 (135)	1668 (115)
	Intermittent PSI (bar)	2393 (165)	2538 (175)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2538 (175)	2176 (150)
	Peak PSI (bar)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3263 (225)	3046 (210)	2538 (175)
Max. Flow	Continuous GPM (L/min)	11.9 (45)	13.2 (50)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)
	Intermittent GPM (L/min)	14.6 (55)	15.9 (60)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
Weight	Lbs (kg)	14.3 (6.5)	14.7 (6.7)	15.2 (6.9)	15.4 (7)	16.1 (7.3)	16.7 (7.6)	17.6 (8)	18.7 (8.5)	19.8 (9)	20.9 (9.5)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.

EBMR ORDER INFORMATION

2 3 4 5 6 7 8
 EBMR - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	36	2	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	A	Shaft Ø25, Parrallel Key 8x7x32	D	G1/2 Manifold Mount, 4-M8, G1/4	Blank	Standard	00	No Paint	Blank	Standard
	50	4	4-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	C	Shaft Ø1", Parrallel Key 1/4" x 1/4" x 1-1/4"	M	M22x1.5 Manifold Mount, 4-M8, M14x1.5	R	Opposite	Omit	Black	N1	Big Radial Force
	80	H4	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.8	E	Shaft Ø1", Splined Tooth SAE 6B	S	7/8-14 O-Ring Manifold, 4-5/16-18UNC, 7/16-20UNF					0	No Case Drain
	100	H5	4-M10 Square-Flange, Pilot Ø44.4 x 2.8	R	Short Shaft Ø1", Parrallel Key 1/4" x 1/4" x 1-1/4"	P	1/2-14 NPTF Manifold, 4-5/16-18UNC, 7/16-20UNF					F	Free Running
	125			B	Shaft Ø32, Parrallel Key 10 x 8 x 45	R	PT(Rc)1/2 Manifold, 4-M8, PT(Rc) 1/4					LS	Low Speed
	160			F	Shaft Ø1-1/4", Splined Tooth 14-DP12/24								
	200			FD	Long Shaft Ø1-1/4", Splined Tooth 14-DP12/24								
	250			G	Shaft Ø1-1/4", Parrallel Key 5/16" x 5/16" x 1-1/4"								
	315			T	Cone-Shaft Ø28.56, Parrallel Key B5x5x14	Note: Shafts B \ F \ FD \ G\ T are only suitable for flanges 2 and 4.							
	375												

Note: Shafts B \ F \ FD \ G \ T are only suitable for flanges 2 and 4.



EBMRS ORDER INFORMATION

2 3 4 5 6 7 8
EBMRS - - - - - -

1	2	3		4		5		6		7		8	
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	36	H2	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	K	Shaft Ø1" - Woodruff Key Ø1" x 1/4"	G	G1/2, G1/4	Blank	Standard	00	No Paint	Blank	Standard
	50	H6	4-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	S	Shaft Ø1" - Splined Tooth SAE 6B	S	7/8-14 O-Ring, 7/16-20UNF (G1/4)	R	Opposite	Omit	Black	N1	Big Radial Force
	80	H4	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.8	A	Shaft Ø25 - Parrallel Key 8x7x32	P	1/2-14 NPTF, 7/16-20UNF (G1/4)					0	No Case Drain
	100	H5	4-M10 Square-Flange, Pilot Ø44.4 x 2.8	R	Short Shaft Ø1" - Parrallel Key 1/4" x 1/4" x 1-1/4"	T	3/4-16 O-Ring, 7/16-20UNF					F	Free Running
	125			H	Sub- Ø1" - Pin Hole Ø10.3	R	PT(Rc)1/2, PT(Rc)1/4					LS	Low Speed
	160			H1	Shaft Ø1" - Pin Hole Ø8	B4	Ø10 O-Ring Manifold, 4x5/16-18UNC, 7/16-20UNF						
	200			D	Shaft Ø7/8" - Parrallel Key 1/4" x 1/4" x 1"	B5	Ø10 O-Ring Manifold, 4xM8, (G1/4)						
	250			I	Shaft Ø7/8" - Splined Tooth 13-DP16/32	M1	M18x1.5, M10x1						
	315			T2	Cone Shaft Ø1" - Woodruff Key Ø1" x 1/4"	M2	M20x1.5, M10x1						
	375	P	Shaft Ø25 - Parrallel Key 8x7x28	M3	M22x1.5, M10x1								
			J	Shaft Ø25 - Parrallel Key 7x7x32									

NOTES:

- From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc...
If the specification is not in the table or you have specific requirements, please contact us.

EBMR



EBMR 36 - 2.20 in³/rev (36 cm³/rev)

										Max. Cont.	Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		290 (20)	435 (30)	725 (50)	1015 (70)	1305 (90)	1450 (100)	1813 (125)	2031 (140)	2393 (165)
	1.1 (4)	Torque lbf•ft (N•m)	7.4 (10)	11.8 (16)	18.5 (25)	27.3 (37)	33.9 (46)	36.9 (50)			
		Speed (rpm)	105	100	92	80	71	58			
	2.1 (8)	Torque lbf•ft (N•m)	6.6 (9)	11.1 (15)	18.5 (25)	27.3 (37)	34.7 (47)	36.9 (50)	46.5 (63)	52.4 (71)	61.3 (83)
		Speed (rpm)	208	200	188	175	158	149	134	120	108
	4 (15)	Torque lbf•ft (N•m)	5.9 (8)	10.3 (14)	17 (23)	26.6 (36)	33.2 (45)	37.6 (51)	47.2 (64)	53.1 (72)	60.5 (82)
		Speed (rpm)	403	392	380	365	348	326	318	302	274
	5.3 (20)	Torque lbf•ft (N•m)	4.4 (6)	9.6 (13)	16.2 (22)	25.8 (35)	32.5 (44)	36.9 (50)	47.2 (64)	53.1 (72)	60.5 (82)
		Speed (rpm)	540	531	518	500	483	462	450	435	412
	7.9 (30)	Torque lbf•ft (N•m)	4.4 (6)	8.9 (12)	15.5 (21)	23.6 (32)	31 (42)	34.7 (47)	46.5 (63)	51.7 (70)	59 (80)
		Speed (rpm)	810	798	780	763	742	722	705	694	668
	10.6 (40)	Torque lbf•ft (N•m)	3.7 (5)	8.1 (11)	14 (19)	22.1 (30)	30.3 (41)	33.2 (45)	45 (61)	50.2 (68)	58.3 (79)
Speed (rpm)		1092	1080	1069	1056	1042	1028	1011	984	957	
11.9 (45)	Torque lbf•ft (N•m)	3 (4)	7.4 (10)	12.5 (17)	21.4 (29)	29.5 (40)	32.5 (44)	43.5 (59)	48.7 (66)	56.8 (77)	
	Speed (rpm)	1230	1215	1194	1170	1150	1128	1100	1070	1020	

EBMR 50 - 3.15 in³/rev (51.7 cm³/rev)

			Max. Cont.					Max. Int.		
Pressure PSI (bar)			725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2320 (160)	2538 (175)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	25.8 (35)	33.2 (45)	45 (61)	49.4 (67)	56.8 (77)	64.9 (88)		
		Speed (rpm)	93	84	76	73	69	46		
	2.6 (10)	Torque lbf•ft (N•m)	26.6 (36)	33.9 (46)	45.8 (62)	50.9 (69)	59 (80)	70.1 (95)	79.7 (108)	88.6 (120)
		Speed (rpm)	186	178	166	162	153	136	118	97
	4 (15)	Torque lbf•ft (N•m)	25.8 (35)	36.2 (49)	46.5 (63)	53.9 (73)	64.9 (88)	73.8 (100)	80.4 (109)	90.8 (123)
		Speed (rpm)	283	277	269	261	250	230	211	185
	5.3 (20)	Torque lbf•ft (N•m)	25.5 (34.5)	34.7 (47)	45 (61)	50.9 (69)	61.3 (83)	70.8 (96)	80.4 (109)	93 (126)
		Speed (rpm)	377	375	365	361	346	330	302	270
	7.9 (30)	Torque lbf•ft (N•m)	24.4 (33)	32.5 (44)	44.3 (60)	49.4 (67)	59 (80)	70.1 (95)	79.7 (108)	93 (126)
		Speed (rpm)	576	569	561	554	542	531	500	465
	10.6 (40)	Torque lbf•ft (N•m)	22.1 (30)	30.3 (41)	42.8 (58)	48.7 (66)	58.3 (79)	67.9 (92)	78.2 (106)	90 (122)
		Speed (rpm)	760	758	753	750	738	724	700	670
11.9 (45)	Torque lbf•ft (N•m)	21.8 (29.5)	29.5 (40)	42.1 (57)	48 (65)	57.6 (78)	66.4 (90)	77.5 (105)	89.3 (121)	
	Speed (rpm)	856	853	849	845	835	815	796	770	
13.2 (50)	Torque lbf•ft (N•m)	19.2 (26)	27.3 (37)	39.1 (53)	44.3 (60)	53.9 (73)	62.7 (85)	73.1 (99)	84.1 (114)	
	Speed (rpm)	950	940	925	906	880	852	832	801	
15.9 (60)	Torque lbf•ft (N•m)	14.8 (20)	24.4 (33)	35.4 (48)	41.3 (56)	50.9 (69)	59.8 (81)	70.1 (95)	80.4 (109)	
	Speed (rpm)	1138	1124	1100	1075	1056	1028	1006	970	
Max. Cont.										
Max. Int.										

PERFORMANCE DATA



EBMR 80 - 4.97 in³/rev (81.5 cm³/rev)

		Max. Cont.							Max. Int.		
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	36.9 (50)	47.2 (64)	64.9 (88)	79.7 (108)	98.2 (133)				
		Speed (rpm)	59	56	50	44	38				
	2.6 (10)	Torque lbf•ft (N•m)	39.9 (54)	56.8 (77)	73.1 (99)	79.7 (108)	95.2 (129)	110.7 (150)	127.7 (173)		
		Speed (rpm)	118	113	106	97	86	79	56		
	5.3 (20)	Torque lbf•ft (N•m)	42.1 (57)	57.6 (78)	75.3 (102)	81.9 (111)	98.9 (134)	114.4 (155)	130.6 (177)	144.6 (196)	166.1 (225)
		Speed (rpm)	238	234	227	216	203	190	178	154	135
	7.9 (30)	Torque lbf•ft (N•m)	39.9 (54)	55.4 (75)	73.8 (100)	79.7 (108)	96.7 (131)	112.2 (152)	129.9 (176)	143.9 (195)	164.6 (223)
		Speed (rpm)	360	352	340	332	316	302	290	274	250
	10.6 (40)	Torque lbf•ft (N•m)	35.4 (48)	53.9 (73)	70.8 (96)	77.5 (105)	93.7 (127)	109.2 (148)	126.9 (172)	140.2 (190)	162.4 (220)
		Speed (rpm)	480	470	458	445	430	418	403	388	359
	13.2 (50)	Torque lbf•ft (N•m)	31 (42)	51.7 (70)	68.6 (93)	75.3 (102)	91.5 (124)	108.5 (147)	125.5 (170)	138.7 (188)	160.9 (218)
		Speed (rpm)	604	595	582	570	556	540	521	504	487
	15.9 (60)	Torque lbf•ft (N•m)	27.3 (37)	48.7 (66)	65.7 (89)	72.3 (98)	89.3 (121)	106.3 (144)	122.5 (166)	135.8 (184)	157.2 (213)
		Speed (rpm)	726	715	704	692	678	663	647	622	594
	18.5 (70)	Torque lbf•ft (N•m)	23.6 (32)	44.3 (60)	61.3 (83)	70.1 (95)	85.6 (116)	103.3 (140)	118.1 (160)	130.6 (177)	153.5 (208)
		Speed (rpm)	845	834	820	802	789	767	754	730	705
	19.8 (75)	Torque lbf•ft (N•m)	15.5 (21)	36.9 (50)	57.6 (78)	66.4 (90)	81.9 (111)	99.6 (135)	113.7 (154)	126.2 (171)	147.6 (200)
		Speed (rpm)	910	895	881	867	852	830	806	787	756

EBMR 100 - 6.22 in³/rev (102 cm³/rev)

		Max. Cont.							Max. Int.	
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	48.7 (66)	67.9 (92)	88.6 (120)	99.6 (135)	115.1 (156)			
		Speed (rpm)	45	42	38	34	27			
	2.6 (10)	Torque lbf•ft (N•m)	50.2 (68)	70.8 (96)	92.3 (125)	101.8 (138)	117.3 (159)	138.7 (188)	156.5 (212)	
		Speed (rpm)	93	90	86	81	74	57	42	
	5.3 (20)	Torque lbf•ft (N•m)	48 (65)	69.4 (94)	90.8 (123)	101.1 (137)	114.4 (155)	137.3 (186)	155 (210)	175.6 (238)
		Speed (rpm)	189	185	180	173	165	158	150	139
	7.9 (30)	Torque lbf•ft (N•m)	46.5 (63)	67.9 (92)	88.6 (120)	98.2 (133)	112.9 (153)	136.5 (185)	154.2 (209)	173.4 (235)
		Speed (rpm)	286	281	275	266	257	246	237	225
	10.6 (40)	Torque lbf•ft (N•m)	42.1 (57)	64.9 (88)	86.3 (117)	95.9 (130)	112.2 (152)	136.5 (185)	153.5 (208)	172 (233)
		Speed (rpm)	385	378	365	355	345	332	320	314
	13.2 (50)	Torque lbf•ft (N•m)	35.4 (48)	58.3 (79)	81.2 (110)	90.8 (123)	110.7 (150)	135.1 (183)	150.6 (204)	168.3 (228)
		Speed (rpm)	482	477	470	460	448	435	420	405
	15.9 (60)	Torque lbf•ft (N•m)	28 (38)	51.7 (70)	77.5 (105)	88.6 (120)	106.3 (144)	131.4 (178)	147.6 (200)	162.4 (220)
		Speed (rpm)	580	572	560	548	535	523	510	500
	18.5 (70)	Torque lbf•ft (N•m)	23.6 (32)	48 (65)	73.8 (100)	87.1 (118)	104.1 (141)	129.9 (176)	145.4 (197)	158.7 (215)
		Speed (rpm)	678	670	660	648	638	626	615	606
	19.8 (75)	Torque lbf•ft (N•m)	17 (23)	43.5 (59)	68.6 (93)	81.9 (111)	100.4 (136)	125.5 (170)	141.7 (192)	155 (210)
		Speed (rpm)	728	720	710	695	681	667	650	634

All numbers given are nominal values and should be used for reference only.

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EBMR

EBMR 125 - 7.76 in³/rev (127.2 cm³/rev)

		Max. Cont.							Max. Int.		
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	56.1 (76)	81.2 (110)	107 (145)	123.2 (167)	139.5 (189)				
		Speed (rpm)	36	31	25	19	13				
	2.6 (10)	Torque lbf•ft (N•m)	62 (84)	87.1 (118)	114.4 (155)	129.9 (176)	149.1 (202)	168.3 (228)	186.7 (253)		
		Speed (rpm)	73	70	60	48	36	25	19		
	5.3 (20)	Torque lbf•ft (N•m)	60.5 (82)	86.3 (117)	112.9 (153)	128.4 (174)	147.6 (200)	169.7 (230)	191.1 (259)	217 (294)	245 (332)
		Speed (rpm)	153	151	148	144	138	128	117	104	73
	7.9 (30)	Torque lbf•ft (N•m)	58.3 (79)	85.6 (116)	111.4 (151)	126.2 (171)	146.1 (198)	168.3 (228)	189.7 (257)	215.5 (292)	242.8 (329)
		Speed (rpm)	231	228	224	218	210	201	183	168	137
	10.6 (40)	Torque lbf•ft (N•m)	53.1 (72)	84.1 (114)	109.2 (148)	124 (168)	144.6 (196)	166.8 (226)	188.9 (256)	214 (290)	241.3 (327)
		Speed (rpm)	309	307	303	298	292	280	270	252	218
Max. Cont.	13.2 (50)	Torque lbf•ft (N•m)	45.8 (62)	77.5 (105)	105.5 (143)	121.8 (165)	143.9 (195)	164.6 (223)	187.5 (254)	211.8 (287)	238.4 (323)
		Speed (rpm)	389	386	382	378	370	360	344	328	292
	15.9 (60)	Torque lbf•ft (N•m)	38.4 (52)	72.3 (98)	100.4 (136)	118.1 (160)	141 (191)	162.4 (220)	184.5 (250)	208.1 (282)	235.4 (319)
		Speed (rpm)	467	463	459	456	448	427	410	399	352
Max. Int.	18.5 (70)	Torque lbf•ft (N•m)	30.3 (41)	66.4 (90)	95.9 (130)	115.1 (156)	138 (187)	158.7 (215)	178.6 (242)	205.2 (278)	231 (313)
		Speed (rpm)	545	542	538	534	529	520	508	486	430
	19.8 (75)	Torque lbf•ft (N•m)	23.6 (32)	58.3 (79)	93 (126)	109.2 (148)	132.8 (180)	153.5 (208)	172.7 (234)	193.4 (262)	221.4 (300)
		Speed (rpm)	586	583	578	570	560	546	532	520	480

EBMR 160 - 9.59 in³/rev (157.2 cm³/rev)

		Max. Cont.							Max. Int.		
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	76.8 (104)	107.7 (146)	140.2 (190)	155 (210)	180.8 (245)				
		Speed (rpm)	26	23	20	16	10				
	2.6 (10)	Torque lbf•ft (N•m)	79 (107)	110.7 (150)	143.9 (195)	159.4 (216)	184.5 (250)	214 (290)	247.2 (335)		
		Speed (rpm)	59	56	50	45	37	30	22		
	5.3 (20)	Torque lbf•ft (N•m)	75.3 (102)	111.4 (151)	146.1 (198)	162.4 (220)	189.7 (257)	219.9 (298)	252.4 (342)	273.1 (370)	310 (420)
		Speed (rpm)	121	118	115	113	108	102	97	90	78
	7.9 (30)	Torque lbf•ft (N•m)	71.6 (97)	107.7 (146)	140.2 (190)	160.1 (217)	188.9 (256)	217.7 (295)	250.9 (340)	271.6 (368)	307 (416)
		Speed (rpm)	184	178	173	170	164	155	143	128	103
	10.6 (40)	Torque lbf•ft (N•m)	65.7 (89)	103.3 (140)	136.5 (185)	155 (210)	186 (252)	214 (290)	247.2 (335)	267.9 (363)	304.1 (412)
		Speed (rpm)	246	241	235	228	220	210	194	177	150
Max. Cont.	13.2 (50)	Torque lbf•ft (N•m)	53.1 (72)	94.5 (128)	132.1 (179)	149.1 (202)	180.1 (244)	209.6 (284)	241.3 (327)	264.2 (358)	301.8 (409)
		Speed (rpm)	310	307	300	295	287	278	262	247	210
	15.9 (60)	Torque lbf•ft (N•m)	44.3 (60)	85.6 (116)	125.5 (170)	146.1 (198)	177.1 (240)	205.9 (279)	236.9 (321)	259.8 (352)	295.2 (400)
		Speed (rpm)	374	367	359	354	346	338	323	306	265
Max. Int.	18.5 (70)	Torque lbf•ft (N•m)	36.2 (49)	79 (107)	121 (164)	142.4 (193)	172 (233)	200 (271)	228 (309)	253.9 (344)	287.8 (390)
		Speed (rpm)	437	430	421	415	403	393	381	365	318
	19.8 (75)	Torque lbf•ft (N•m)	26.6 (36)	72.3 (98)	112.2 (152)	136.5 (185)	166.8 (226)	195.6 (265)	221.4 (300)	246.5 (334)	279.7 (379)
		Speed (rpm)	472	463	450	441	431	420	405	389	365

PERFORMANCE DATA



EBMR 200 - 11.87 in³/rev (194.5 cm³/rev)

		Max. Cont.							Max. Int.		
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	97.4 (132)	133.6 (181)	175.6 (238)	193.4 (262)	228.8 (310)				
		Speed (rpm)	24	22	18	13	10				
	2.6 (10)	Torque lbf•ft (N•m)	99.6 (135)	137.3 (186)	177.1 (240)	194.8 (264)	232.5 (315)	262.7 (356)	297.4 (403)		
		Speed (rpm)	49	47	45	43	38	33	24		
	5.3 (20)	Torque lbf•ft (N•m)	96.7 (131)	135.1 (183)	175.6 (238)	191.9 (260)	231.7 (314)	264.2 (358)	298.2 (404)	323.2 (438)	
		Speed (rpm)	99	97	94	92	88	83	74	64	
	7.9 (30)	Torque lbf•ft (N•m)	93 (126)	131.4 (178)	172 (233)	187.5 (254)	229.5 (311)	262 (355)	296.7 (402)	318.1 (431)	
		Speed (rpm)	149	147	144	141	135	126	113	105	
	10.6 (40)	Torque lbf•ft (N•m)	82.7 (112)	124.7 (169)	168.3 (228)	184.5 (250)	226.6 (307)	259.8 (352)	295.2 (400)	314.4 (426)	
		Speed (rpm)	200	197	194	191	185	174	160	151	
Max. Cont.	13.2 (50)	Torque lbf•ft (N•m)	70.1 (95)	115.1 (156)	163.1 (221)	181.5 (246)	221.4 (300)	258.3 (350)	293.7 (398)	310.7 (421)	
		Speed (rpm)	252	249	246	243	238	228	212	194	
	15.9 (60)	Torque lbf•ft (N•m)	57.6 (78)	107 (145)	157.2 (213)	175.6 (238)	213.3 (289)	252.4 (342)	284.9 (386)	304.1 (412)	
		Speed (rpm)	304	301	298	294	286	276	262	243	
	18.5 (70)	Torque lbf•ft (N•m)	49.4 (67)	99.6 (135)	152 (206)	168.3 (228)	204.4 (277)	248 (336)	276.8 (375)	301.1 (408)	
		Speed (rpm)	355	353	349	340	329	316	300	288	
	19.8 (75)	Torque lbf•ft (N•m)	42.8 (58)	92.3 (125)	145.4 (197)	162.4 (220)	199.3 (270)	236.9 (321)	265.7 (360)	293.7 (398)	
		Speed (rpm)	382	379	373	362	350	337	322	312	
	Max. Int.										

EBMR

EBMR 250 - 15.47 in³/rev (253.5 cm³/rev)

			Max. Cont.							Max. Int.		
Pressure PSI (bar)			725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	129.2 (175)	179.3 (243)	224.4 (304)	252.4 (342)	300.4 (407)					
		Speed (rpm)	17	16	14	12	10					
	2.6 (10)	Torque lbf•ft (N•m)	131.4 (178)	181.5 (246)	228.8 (310)	253.9 (344)	301.8 (409)	343.2 (465)	387.5 (525)			
		Speed (rpm)	37	35	31	28	23	18	11			
	5.3 (20)	Torque lbf•ft (N•m)	129.2 (175)	180.1 (244)	227.3 (308)	250.9 (340)	301.1 (408)	341.7 (463)	383.8 (520)	411.8 (558)	469.4 (636)	
		Speed (rpm)	75	73	72	70	66	58	53	50	42	
	7.9 (30)	Torque lbf•ft (N•m)	119.6 (162)	173.4 (235)	224.4 (304)	245 (332)	295.2 (400)	335.8 (455)	380.8 (516)	405.9 (550)	458.3 (621)	
		Speed (rpm)	114	111	108	106	100	92	83	77	65	
	10.6 (40)	Torque lbf•ft (N•m)	105.5 (143)	164.6 (223)	221.4 (300)	242.8 (329)	292.2 (396)	329.9 (447)	377.9 (512)	402.9 (546)	455.3 (617)	
		Speed (rpm)	154	152	150	147	143	132	120	110	90	
Max. Cont.	13.2 (50)	Torque lbf•ft (N•m)	91.5 (124)	153.5 (208)	213.3 (289)	238.4 (323)	283.4 (384)	324.7 (440)	371.2 (503)	394.8 (535)	442.8 (600)	
		Speed (rpm)	193	190	187	174	168	160	149	140	116	
	15.9 (60)	Torque lbf•ft (N•m)	76 (103)	141.7 (192)	206.6 (280)	231.7 (314)	273.8 (371)	314.4 (426)	360.9 (489)	379.3 (514)	426.6 (578)	
		Speed (rpm)	233	230	227	224	218	205	190	181	155	
	18.5 (70)	Torque lbf•ft (N•m)	64.9 (88)	131.4 (178)	194.8 (264)	222.1 (301)	262.7 (356)	308.5 (418)	353.5 (479)	367.5 (498)	413.3 (560)	
		Speed (rpm)	273	270	267	263	252	242	226	209	173	
	19.8 (75)	Torque lbf•ft (N•m)	45.8 (62)	121.8 (165)	188.9 (256)	212.5 (288)	256.1 (347)	304.1 (412)	349.8 (474)	358.7 (486)	400 (542)	
		Speed (rpm)	294	291	287	283	274	263	249	236	211	
	Max. Int.											

All numbers given are nominal values and should be used for reference only.

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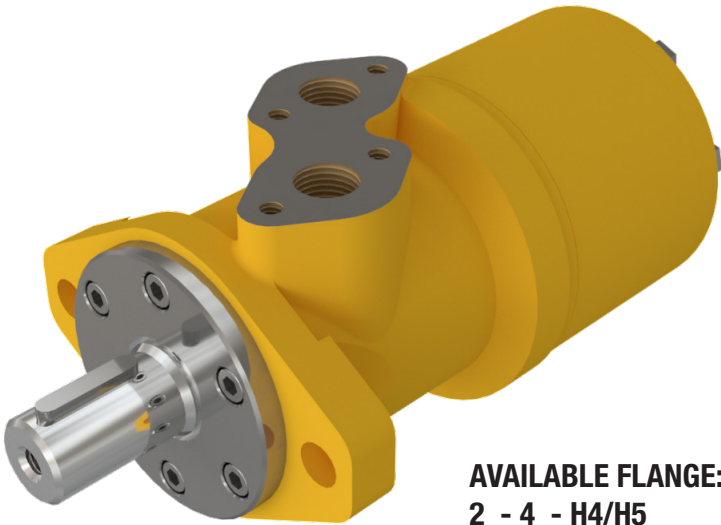
EBMR 315 - 19.38 in³/rev (317.5 cm³/rev)

		Max. Cont.					Max. Int.		
Pressure PSI (bar)		725 (50)	1015 (70)	1305 (90)	1450 (100)	1740 (120)	2031 (140)	2321 (160)	2538 (175)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	158.7 (215)	222.9 (302)					
		Speed (rpm)	13	11					
	2.6 (10)	Torque lbf•ft (N•m)	160.9 (218)	225.1 (305)	282.7 (383)	311.4 (422)	360.1 (488)	406.6 (551)	459 (622)
		Speed (rpm)	28	27	25	24	21	18	13
	5.3 (20)	Torque lbf•ft (N•m)	158.7 (215)	223.6 (303)	280.4 (380)	308.5 (418)	357.9 (485)	405.2 (549)	457.6 (620)
		Speed (rpm)	60	59	57	55	52	49	45
	7.9 (30)	Torque lbf•ft (N•m)	150.6 (204)	218.4 (296)	276.8 (375)	304.8 (413)	354.2 (480)	400 (542)	452.4 (613)
		Speed (rpm)	91	89	86	84	81	78	72
	10.6 (40)	Torque lbf•ft (N•m)	144.6 (196)	211.8 (287)	271.6 (368)	302.6 (410)	352 (477)	397.8 (539)	449.4 (609)
		Speed (rpm)	122	120	117	112	106	100	94
	13.2 (50)	Torque lbf•ft (N•m)	129.9 (176)	199.3 (270)	262.7 (356)	290 (393)	340.2 (461)	388.2 (526)	440.6 (597)
		Speed (rpm)	154	151	147	140	131	120	109
	15.9 (60)	Torque lbf•ft (N•m)	119.6 (162)	181.5 (246)	250.2 (339)	276 (374)	329.1 (446)	377.1 (511)	432.5 (586)
		Speed (rpm)	185	182	177	172	163	152	140
	18.5 (70)	Torque lbf•ft (N•m)	105.5 (143)	173.4 (235)	239.1 (324)	264.2 (358)	317.3 (430)	363.8 (493)	414.8 (562)
		Speed (rpm)	217	213	208	201	190	178	166
	19.8 (75)	Torque lbf•ft (N•m)	92.3 (125)	156.5 (212)	223.6 (303)	250.2 (339)	307.7 (417)	355 (481)	400.7 (543)
		Speed (rpm)	232	228	222	216	208	200	183

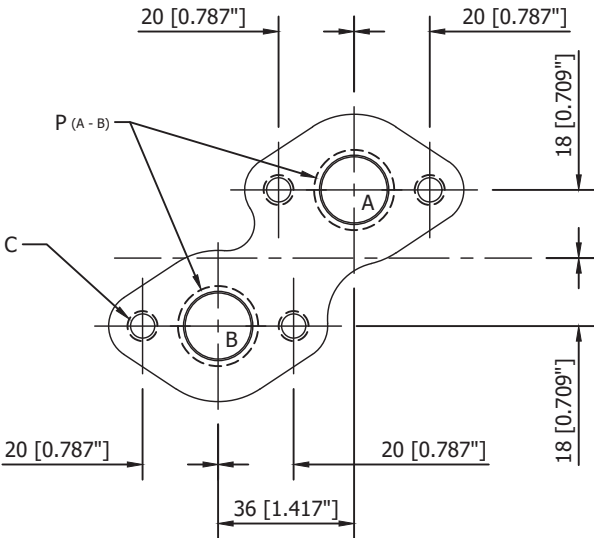
EBMR 375 - 23.27 in³/rev (381.4 cm³/rev)

		Max. Cont.					Max. Int.		
Pressure PSI (bar)		435 (30)	653 (45)	798 (55)	943 (65)	1160 (80)	1450 (100)	1813 (125)	2031 (140)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	112.9 (153)	171.2 (232)					
		Speed (rpm)	12	10					
	2.6 (10)	Torque lbf•ft (N•m)	115.9 (157)	174.2 (236)	209.6 (284)	248.7 (337)	299.6 (406)	366.8 (497)	451.7 (612)
		Speed (rpm)	24	23	22	21	19	17	15
	5.3 (20)	Torque lbf•ft (N•m)	110.7 (150)	171.2 (232)	206.6 (280)	245 (332)	295.9 (401)	361.6 (490)	447.2 (606)
		Speed (rpm)	49	48	47	46	44	41	38
	7.9 (30)	Torque lbf•ft (N•m)	104.8 (142)	158.7 (215)	202.2 (274)	241.3 (327)	293.7 (398)	356.5 (483)	445 (603)
		Speed (rpm)	76	75	74	73	71	67	63
	10.6 (40)	Torque lbf•ft (N•m)	93 (126)	156.5 (212)	197.8 (268)	236.2 (320)	290 (393)	352 (477)	437.6 (593)
		Speed (rpm)	103	101	99	97	95	92	88
	13.2 (50)	Torque lbf•ft (N•m)	77.5 (105)	138 (187)	178.6 (242)	222.9 (302)	277.5 (376)	335.8 (455)	430.3 (583)
		Speed (rpm)	128	126	124	121	118	115	111
	15.9 (60)	Torque lbf•ft (N•m)	66.4 (90)	123.2 (167)	169 (229)	207.4 (281)	267.2 (362)	327.7 (444)	417.7 (566)
		Speed (rpm)	154	152	150	148	145	138	130
	18.5 (70)	Torque lbf•ft (N•m)	66.4 (90)	110 (149)	147.6 (200)	190.4 (258)	251.7 (341)	313.7 (425)	402.9 (546)
		Speed (rpm)	180	179	178	176	173	168	160
	19.8 (75)	Torque lbf•ft (N•m)	41.3 (56)	92.3 (125)	134.3 (182)	177.9 (241)	236.2 (320)	301.1 (408)	386.7 (524)
		Speed (rpm)	195	194	193	191	189	185	178

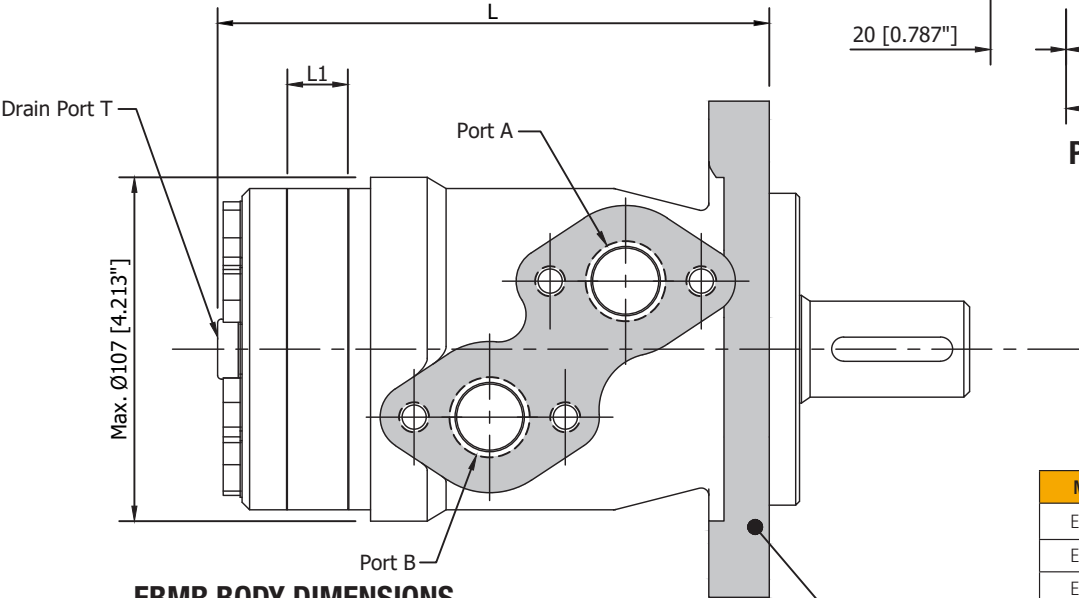
EBMR DIMENSIONS AND MOUNTING



AVAILABLE FLANGE:
2 - 4 - H4/H5



PORTS DETAIL



EBMR BODY DIMENSIONS

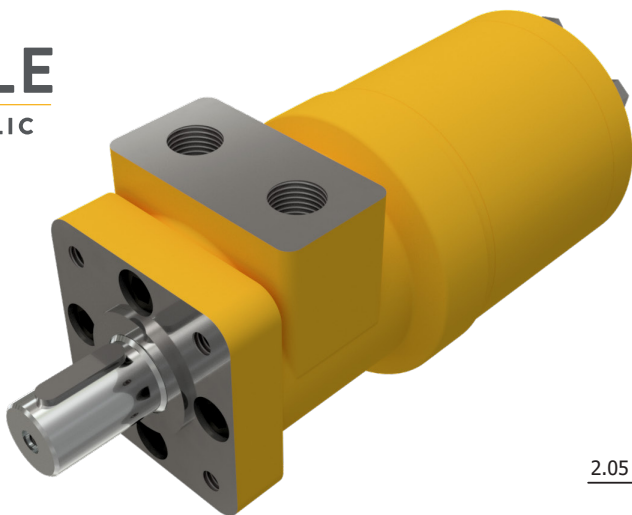
See FLANGE OPTIONS

MODEL	L	L1
EBMR36	137 (5.394")	7 (0.276")
EBMR50	140 (5.512")	10 (0.394")
EBMR80	146 (5.748")	16 (0.63")
EBMR100	150 (5.906")	20 (0.787")
EBMR125	155 (6.102")	25 (0.984")
EBMR160	161.5 (6.358")	30.5 (1.201")
EBMR200	170 (6.693")	38.1 (1.5")
EBMR250	180 (7.087")	50 (1.969")
EBMR315	192 (7.559")	62 (2.441")
EBMR375	204 (8.031")	74 (2.913")

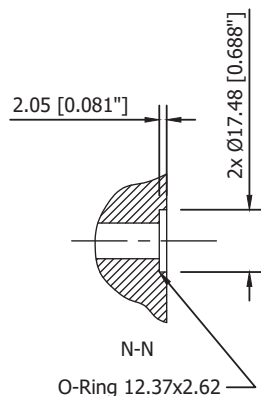
MOUNTING	CODE (Depth mm)				
	D	M	S	P	R
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)	PT (RC) 1/2 (15)
C	4x M8 (13)	4x M8 (13)	4x 5/16-18UNC (13)	4x 5/16-18UNC (13)	4x M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)

EBMRS DIMENSIONS AND MOUNTING

EBMR

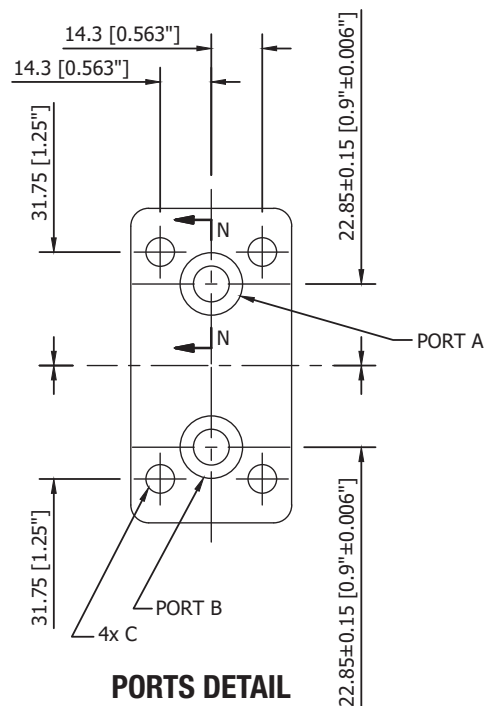


MODEL	L	L1
EBMRS36	143 (5.63")	7 (0.276")
EBMRS50	146 (5.748")	10 (0.394")
EBMRS80	152 (5.984")	16 (0.63")
EBMRS100	156 (6.142")	20 (0.787")
EBMRS125	161 (6.339")	25 (0.984")
EBMRS160	166.5 (6.555")	30.5 (1.201")
EBMRS200	174 (6.85")	38.1 (1.5")
EBMRS250	186 (7.323")	50 (1.969")
EBMRS315	198 (7.795")	62 (2.441")
EBMRS375	210 (8.268")	74 (2.913")

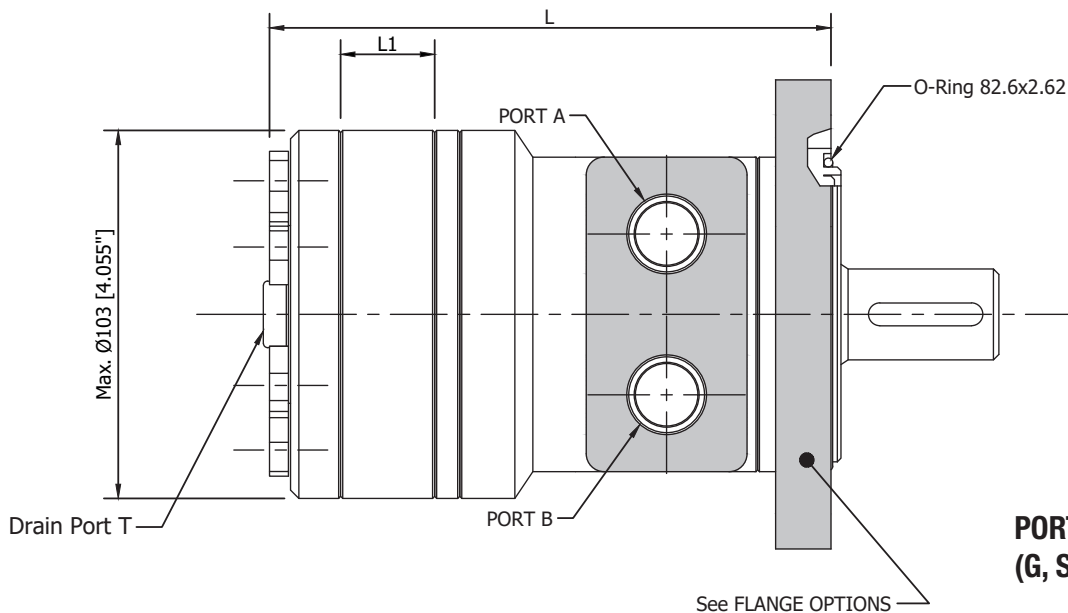


**AVAILABLE FLANGE:
H2 - H6 - H4/H5**

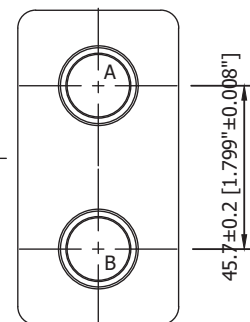
NOTES: The size L of the EBMRS N1 should be increased by 2mm.



**PORTS DETAIL
(B4, B5)**



**PORTS DETAIL
(G, S, P, R, M1, M2, M3)**



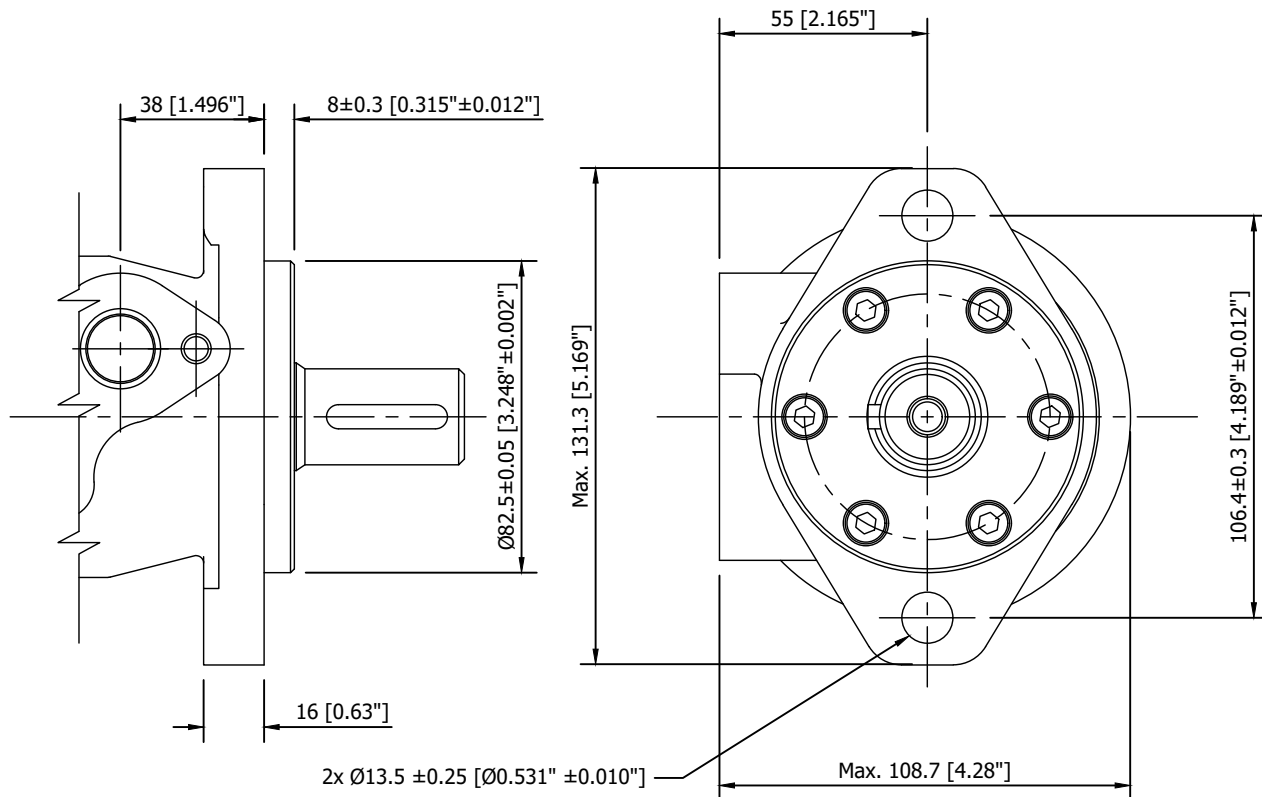
MOUNTING	CODE (Depth mm)								
	G	S	P	R	M1	M2	M3	B4	B5
P (A, B)	G 1/2 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)	PT(RC) 1/2 (15)	M18 x 1.5 (15)	M20 x 1.5 (15)	M22 x 1.5 (15)	Ø10	Ø10
T	G1/4 (12)	7/16-20 UNF (12)	7/16-20 UNF (12)	PT(RC) 1/4 (9.7)	M10 x 1 (12)	M10 x 1 (12)	M10 x 1 (12)	7/16-20 UNF (12)	G1/4 (12)
C	-	-	-	-	-	-	-	4-5/16-18UNC(13)	4-M8 (13)

All numbers given are nominal values and should be used for reference only.

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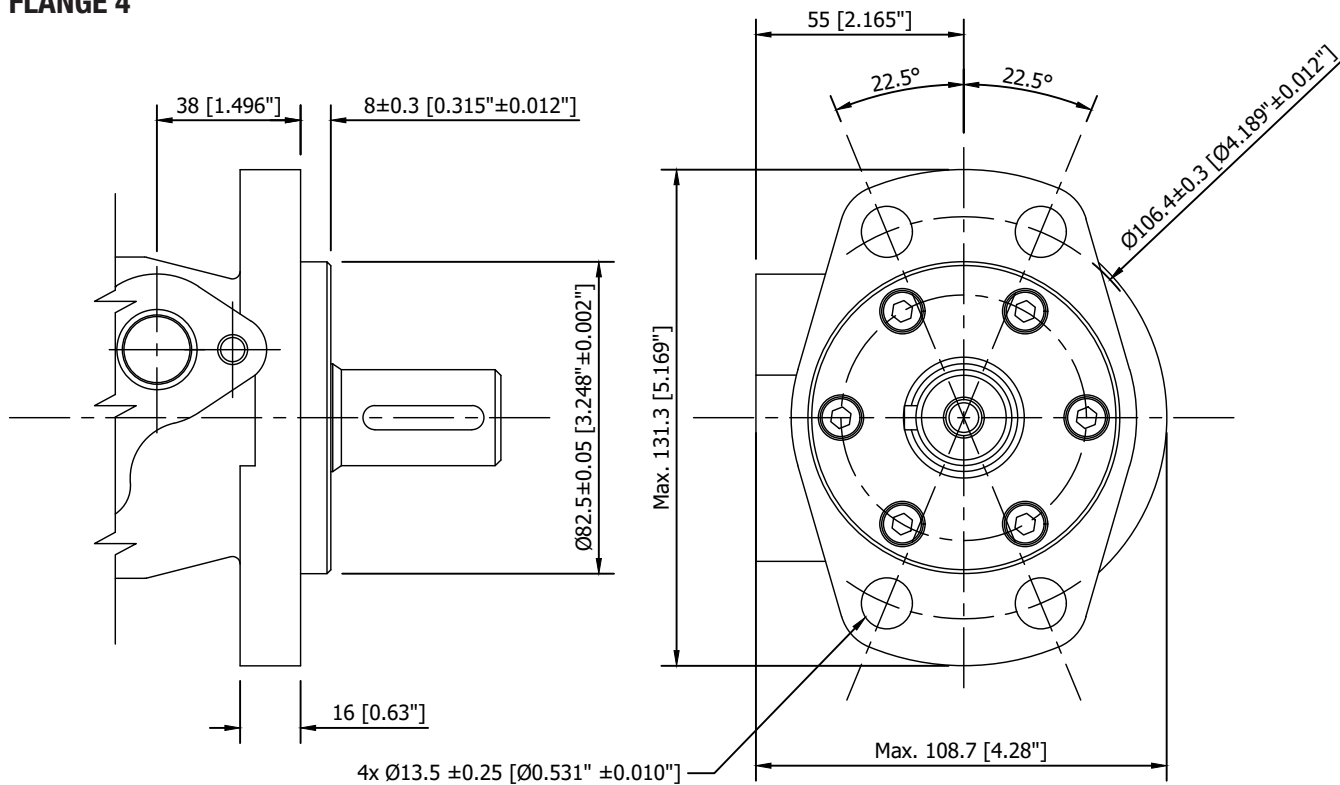


FLANGE 2



EBMR

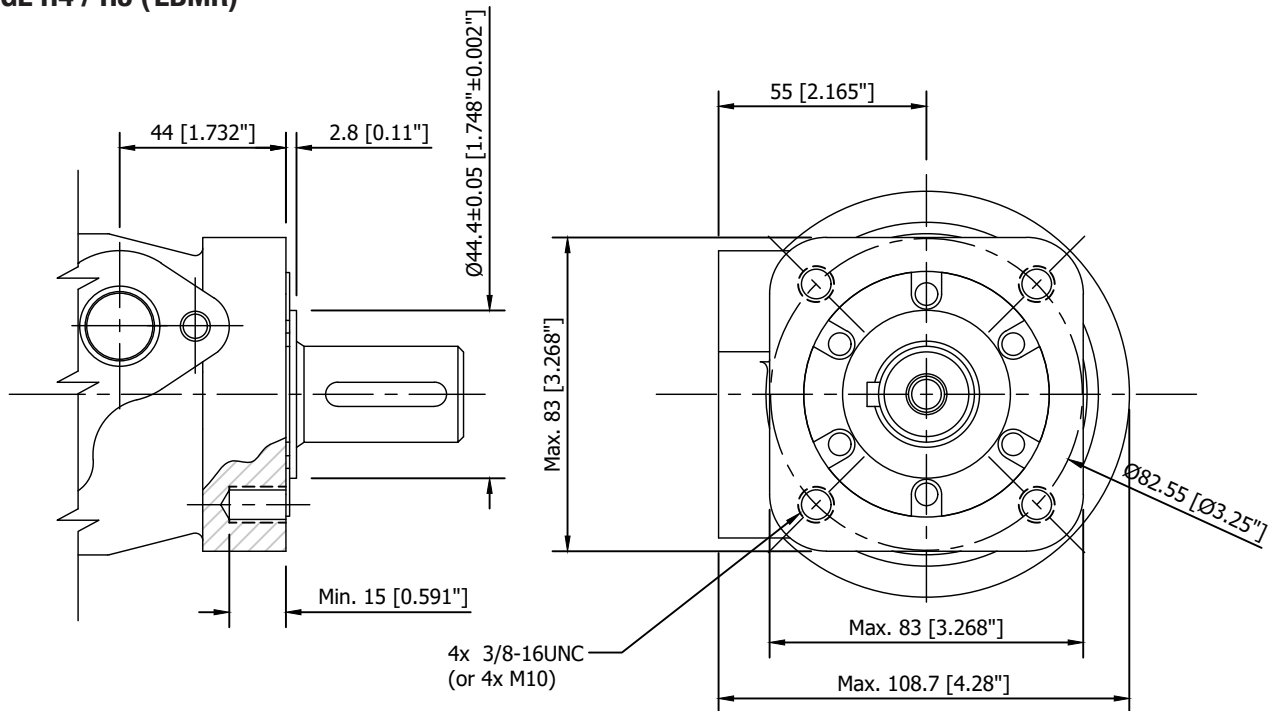
FLANGE 4



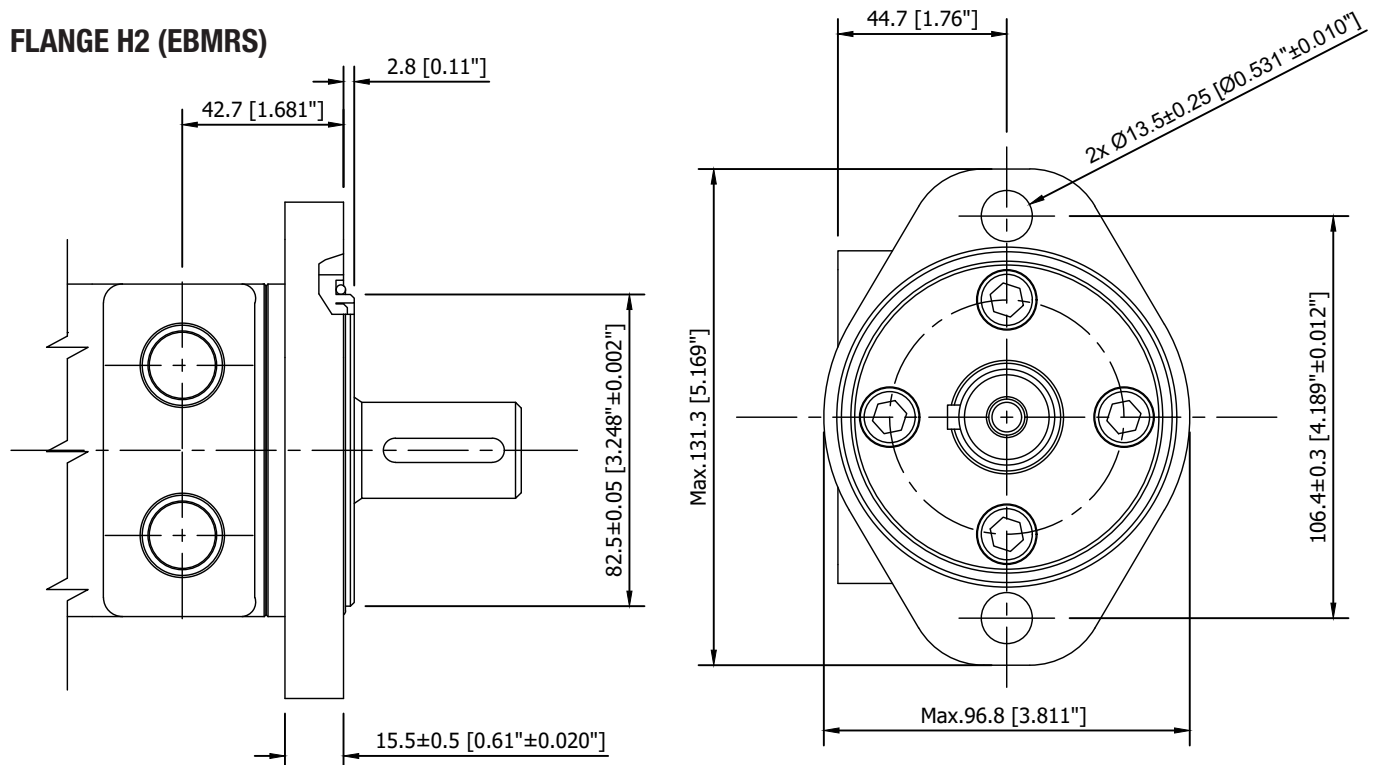
All numbers given are nominal values and should be used for reference only.

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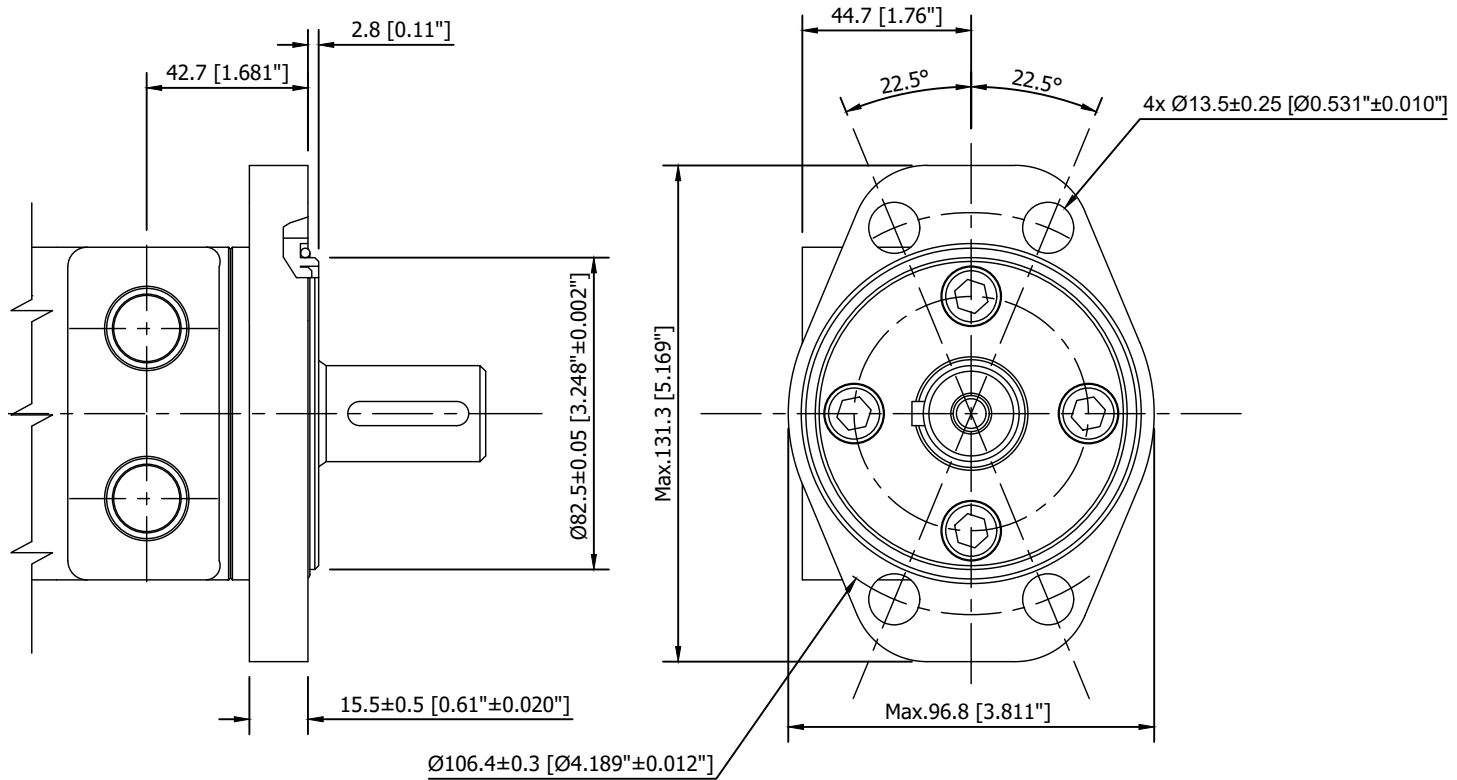
FLANGE H4 / H5 (EBMR)



FLANGE H2 (EBMRS)

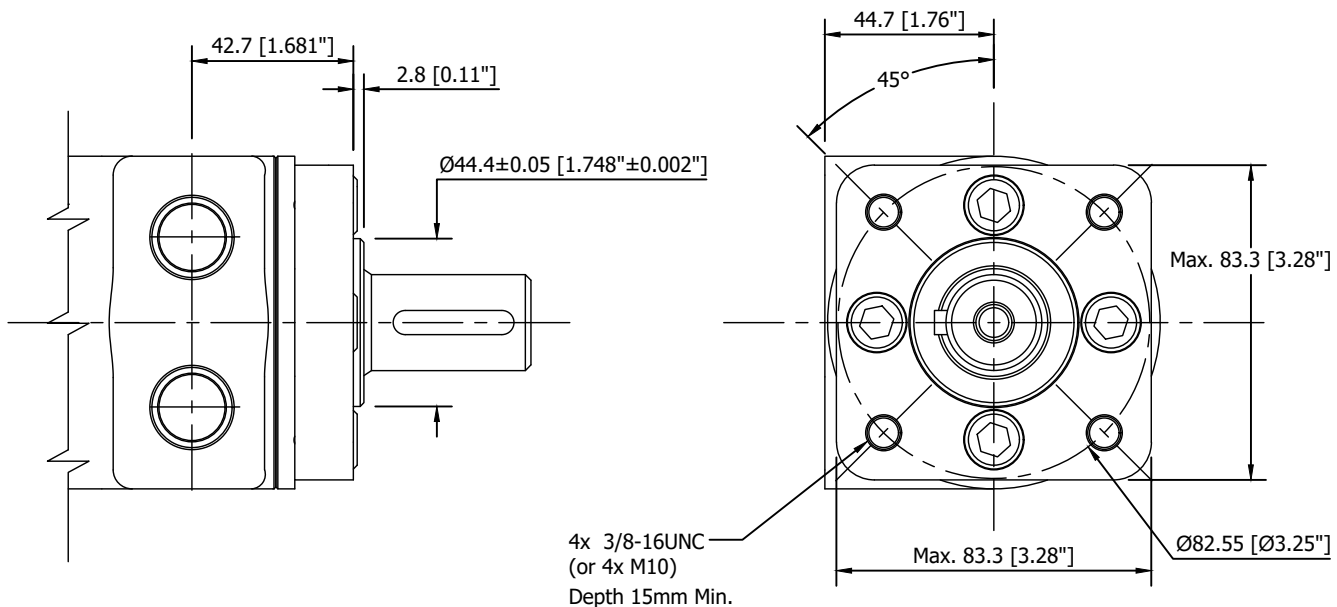


FLANGE H6 (EBMRS)



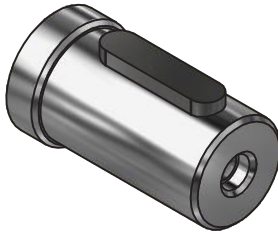
EBMR

FLANGE H4/H5 (EBMRS)



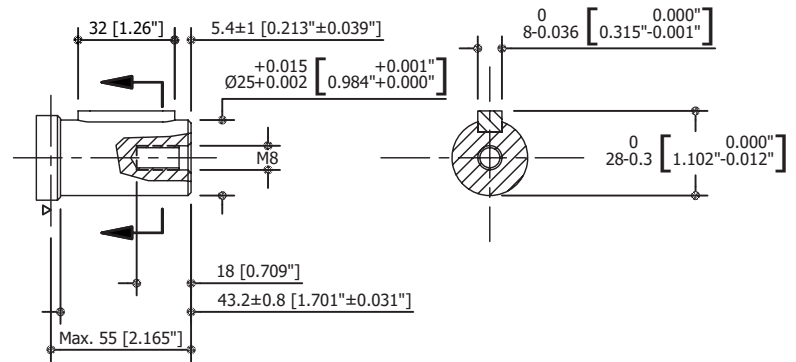
All numbers given are nominal values and should be used for reference only.

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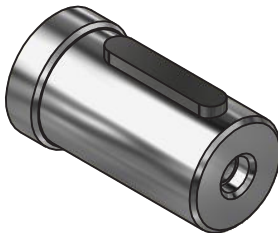
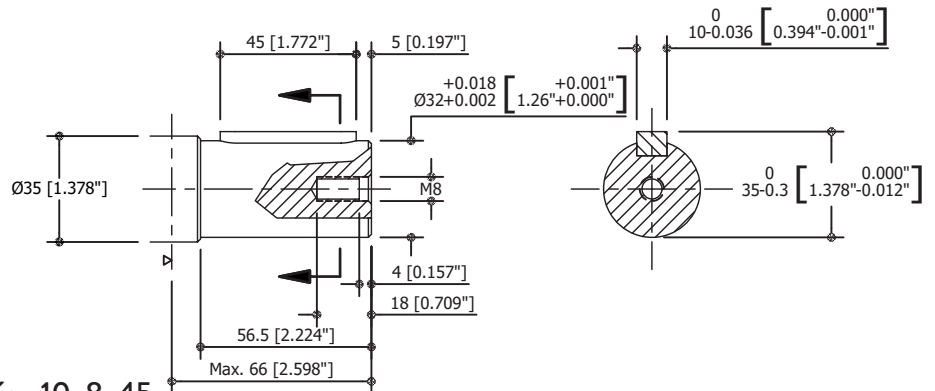
SHAFT A

Cylindrical Shaft $\varnothing 25$
Parallel Key 8x7x32
METRIC



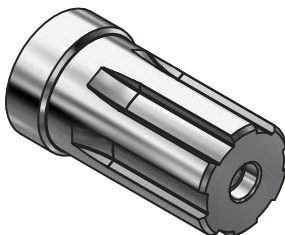
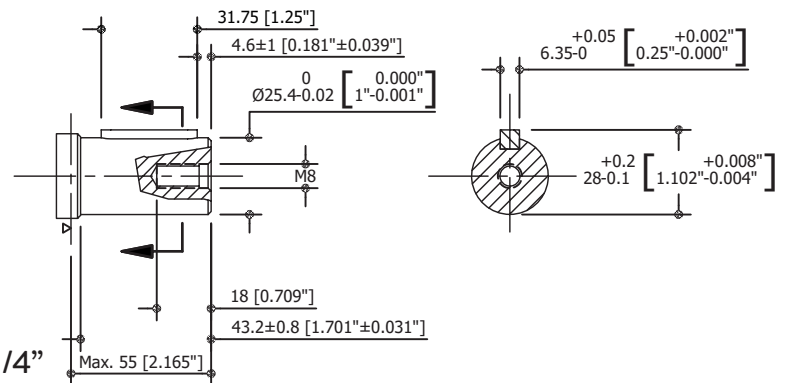
SHAFT B

Cylindrical Shaft $\varnothing 32$ - Parallel Key 10x8x45
METRIC



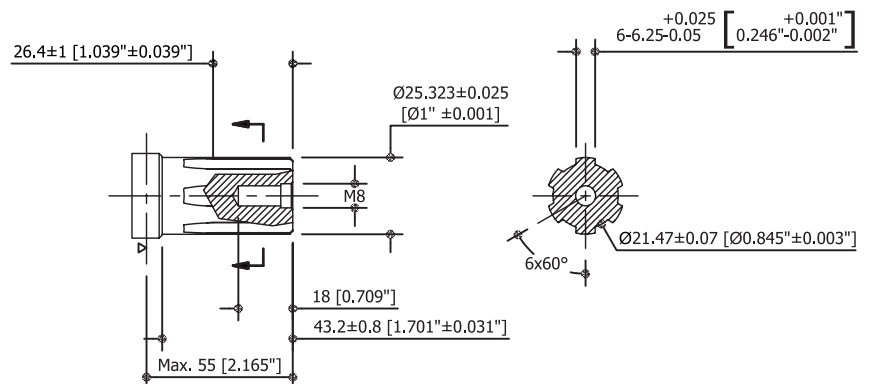
SHAFT C

Cylindrical Shaft 1" - Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL

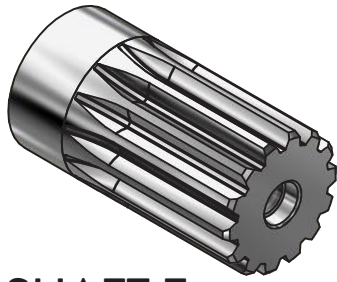


SHAFT E

Splined SAE 6B
IMPERIAL

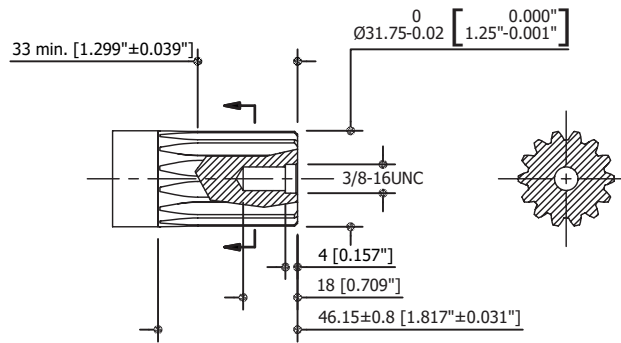


EBMR SHAFT EXTENSIONS DIMENSIONS



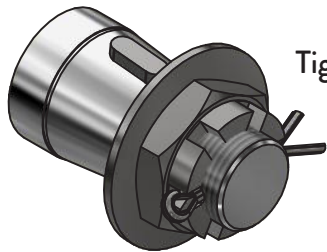
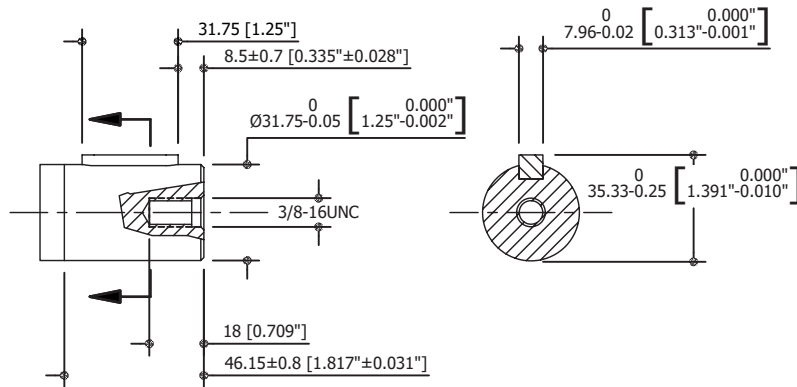
SHAFT F

Splined 14-DP12/24
IMPERIAL



SHAFT G

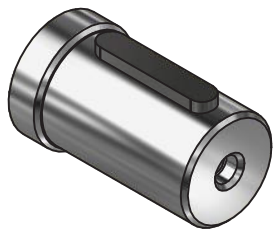
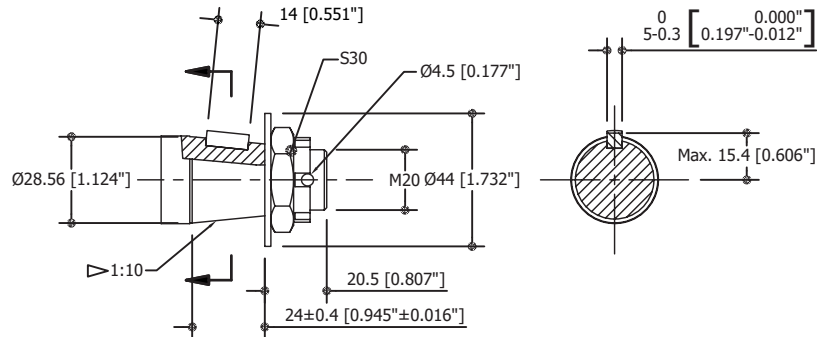
Cylindrical Shaft $\varnothing 1-1/4"$
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL



Tightening Torque: 100 +/- 10Nm

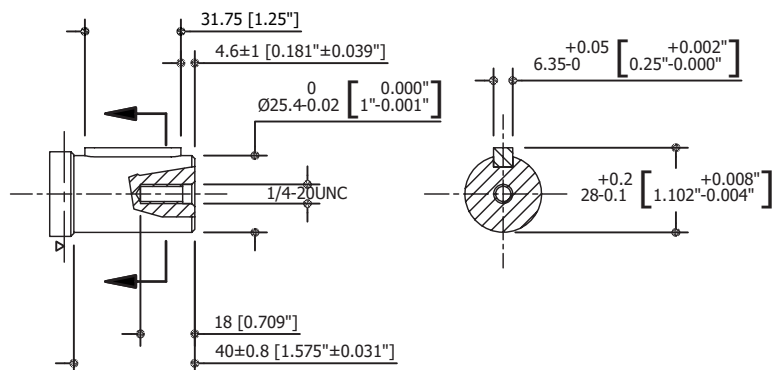
SHAFT T

Cone Shaft $\varnothing 28.56\text{mm}$
Parallel Key B5x5x14
METRIC



SHAFT R

Cylindrical Shaft $\varnothing 1"$
Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



All numbers given are nominal values and should be used for reference only.

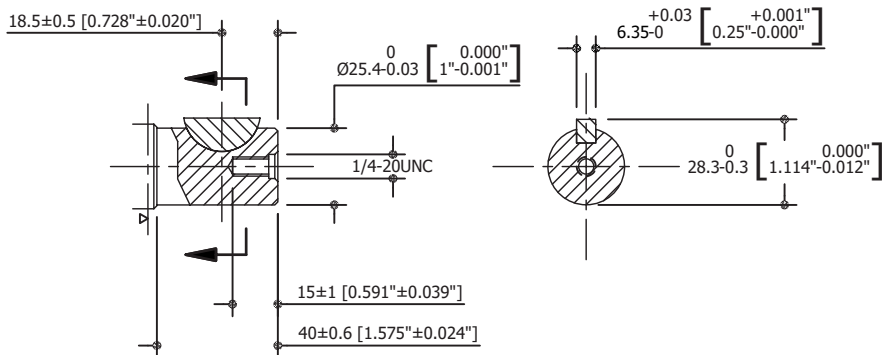
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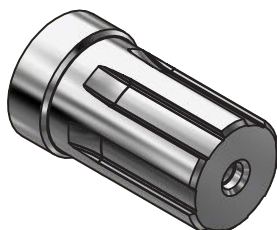
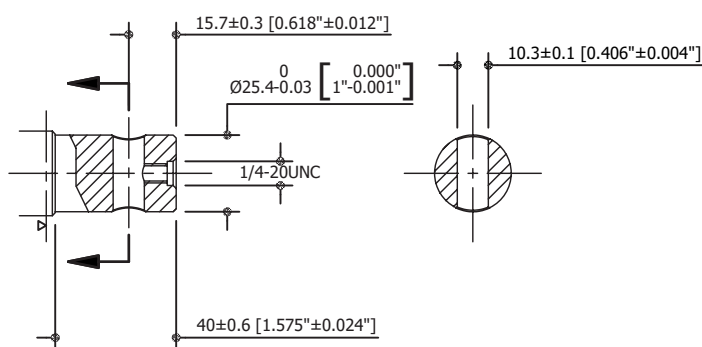
SHAFT K

Cylindrical Shaft Ø1"
Woodruff Key Ø1" x 1/4"
IMPERIAL



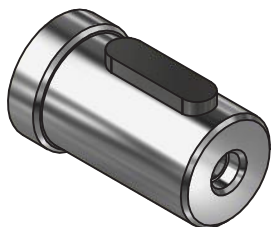
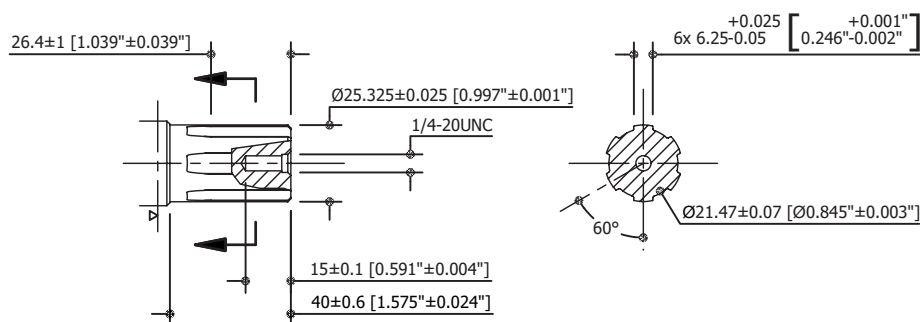
SHAFT H

Cylindrical Shaft Ø1"
Pin Hole Ø10.3mm
IMPERIAL



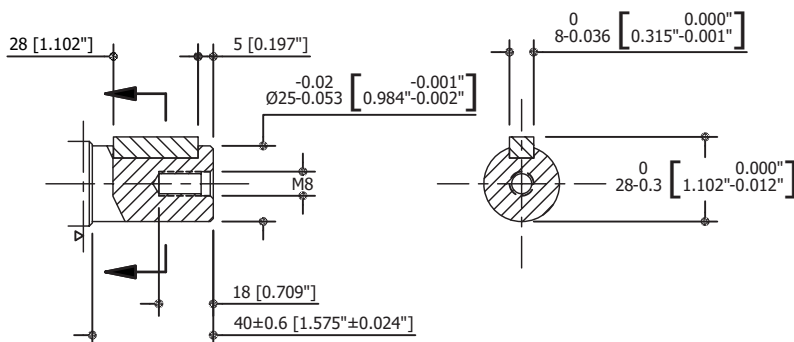
SHAFT S

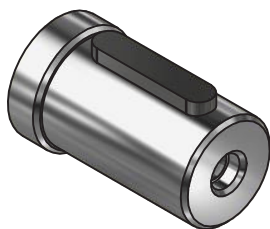
Splined SAE 6B
IMPERIAL



SHAFT P

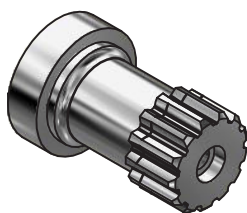
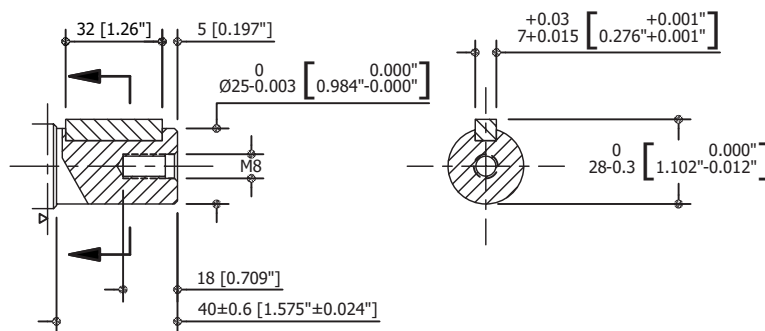
Cylindrical Shaft Ø25
Parallel Key 8x7x28
METRIC





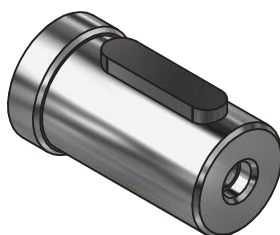
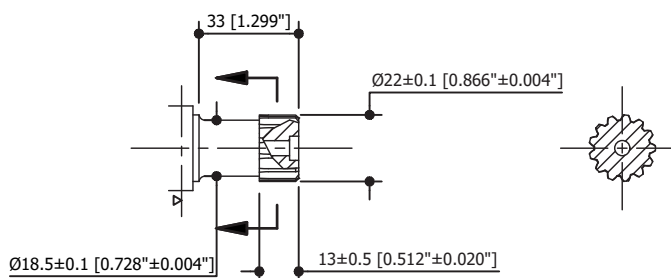
SHAFT J

Cylindrical Shaft Ø25
Parallel Key Ø7x7x32
METRIC



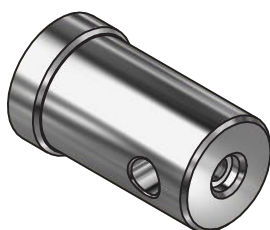
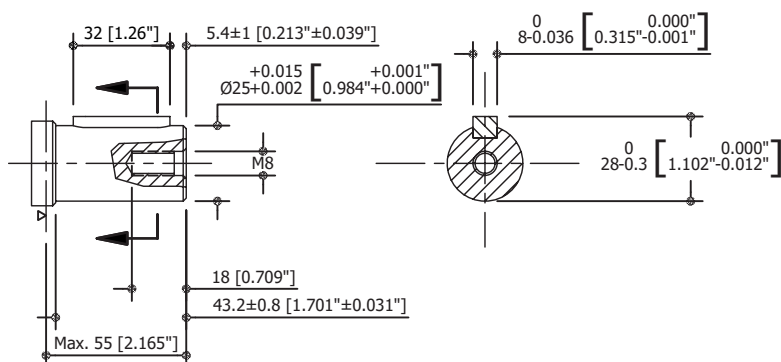
SHAFT I

Splined 13-DP16/32
METRIC



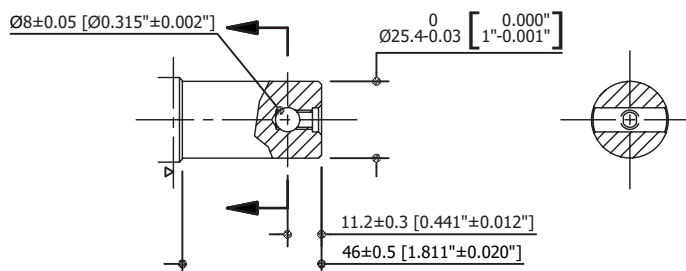
SHAFT A

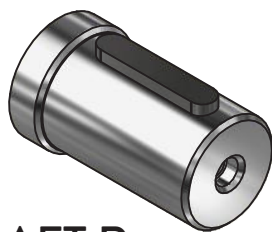
Cylindrical Shaft Ø25
Parallel Key 8x7x32
METRIC



SHAFT H1

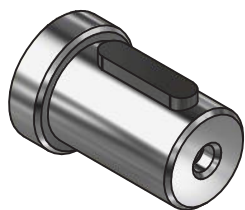
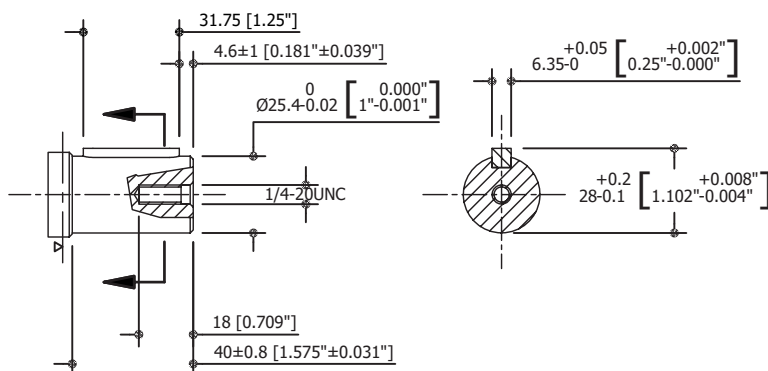
Cylindrical Shaft Ø1"
Pin Hole Ø8
IMPERIAL





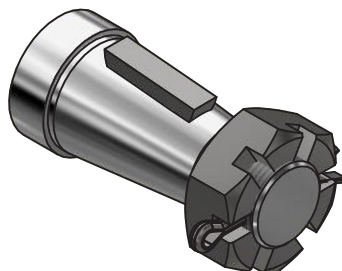
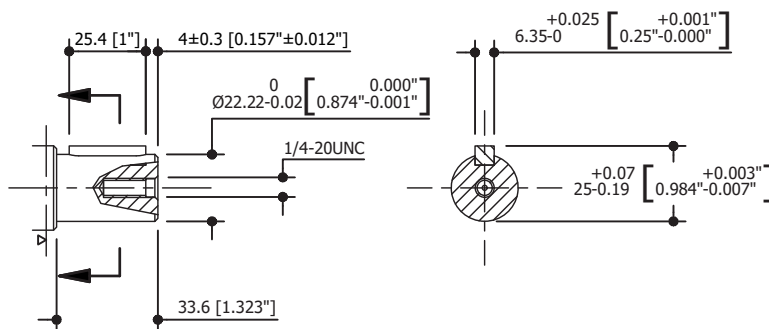
SHAFT R

Cylindrical Shaft $\varnothing 1"$
Parallel Key $1/4" \times 1/4" \times 1-1/4"$
IMPERIAL



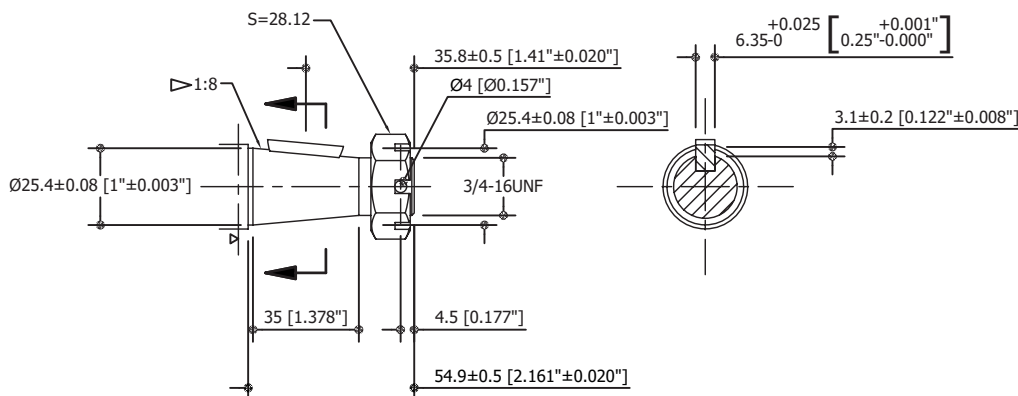
SHAFT D

Cylindrical Shaft $\varnothing 0.875"$
Parallel Key $1/4" \times 1/4" \times 1"$
IMPERIAL



SHAFT T2

Cone Shaft $\varnothing 1"$
Woodruff Key $\varnothing 1" \times 1/4"$
IMPERIAL

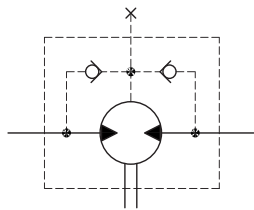


Tightening Torque: $200 \pm 10\text{Nm}$

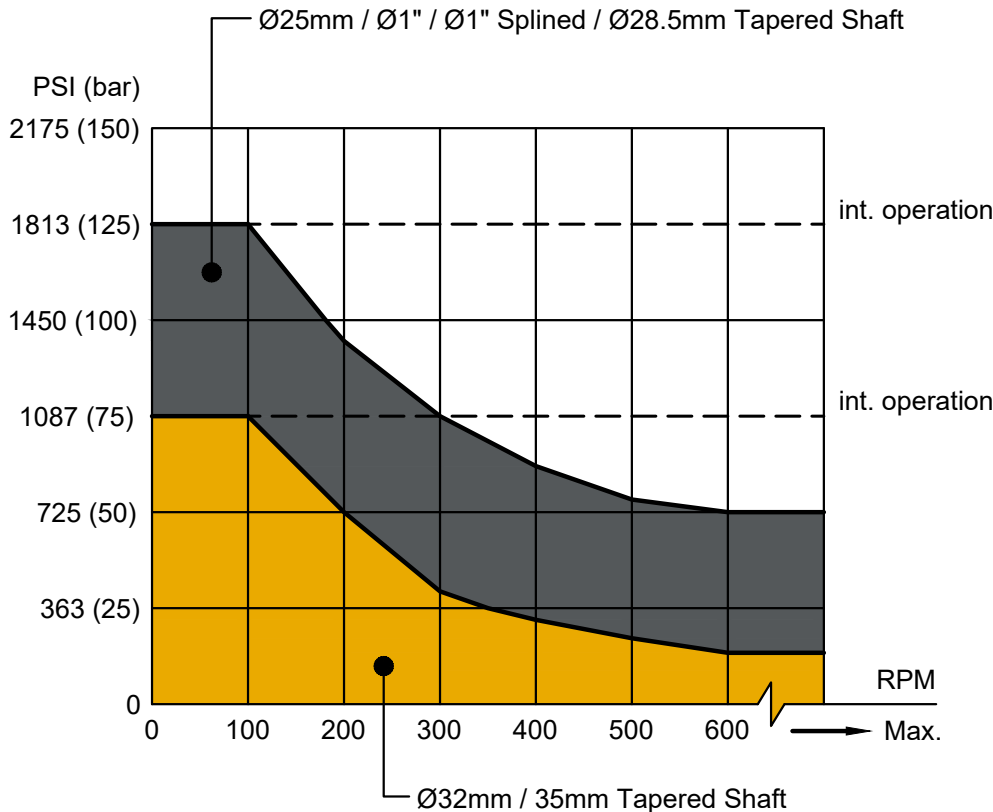
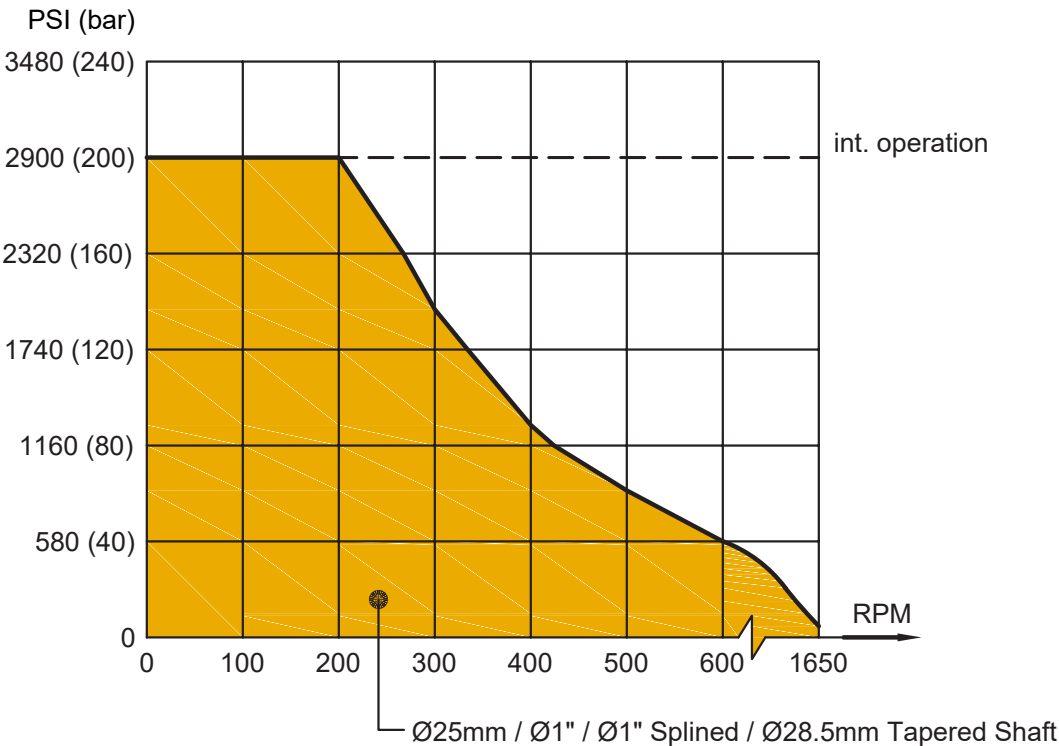
EBMR / EBMRS PERMISSIBLE SHAFT SEAL PRESSURE



EBMR



HIGH PRESSURE SHAFT SEAL



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

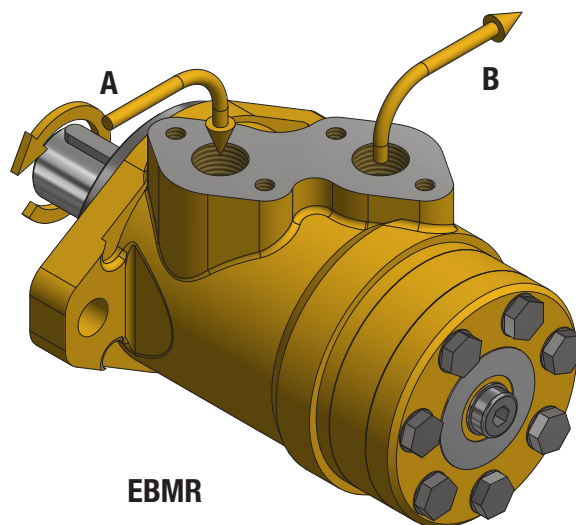
EBMR DIRECTION OF SHAFT ROTATION : STANDARD

EBMR

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.

Counter-Clockwise when port "B"
is pressurized.



STATUS OF THE SHAFT'S RADIAL FORCE (Standard Motor with Journal Bearing)

F_r = Radial Force (daN)

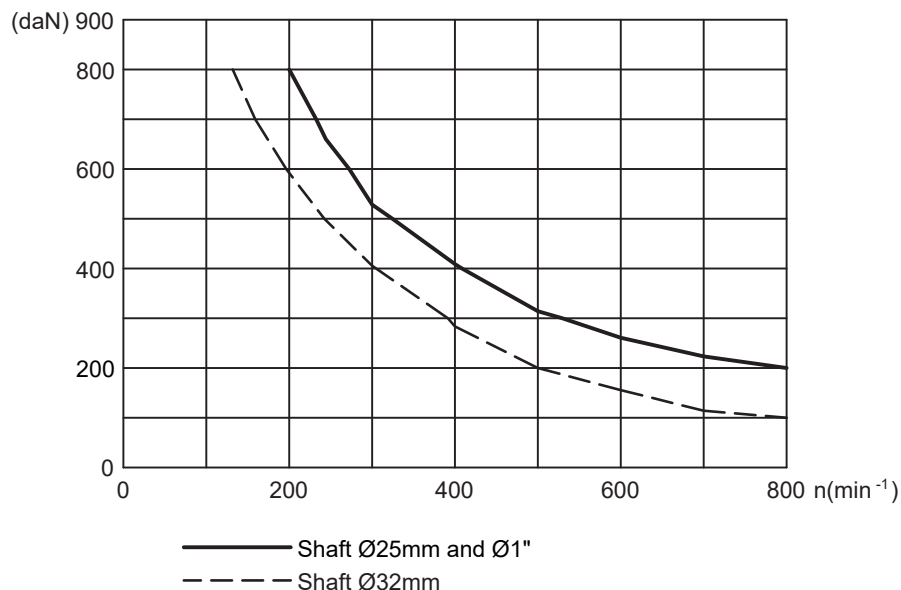
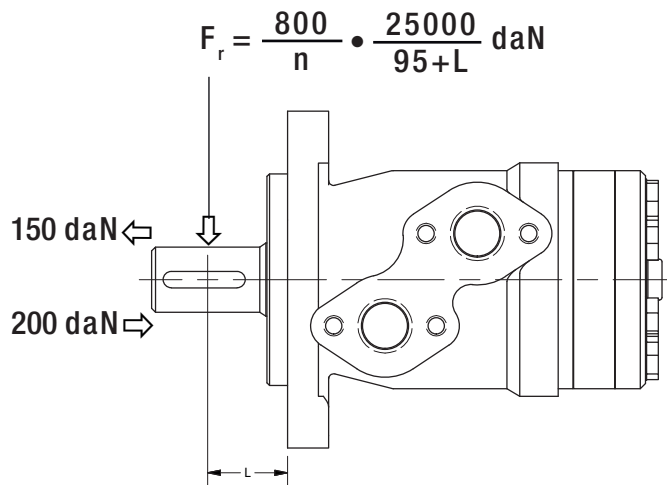
L = Distance (mm)

n = Speed (rpm)

Max. Force Load

Rhomb-flange $L = 30\text{mm}$

Square-Flange $L = 24\text{mm}$



OIL FLOW IN DRAIN LINE

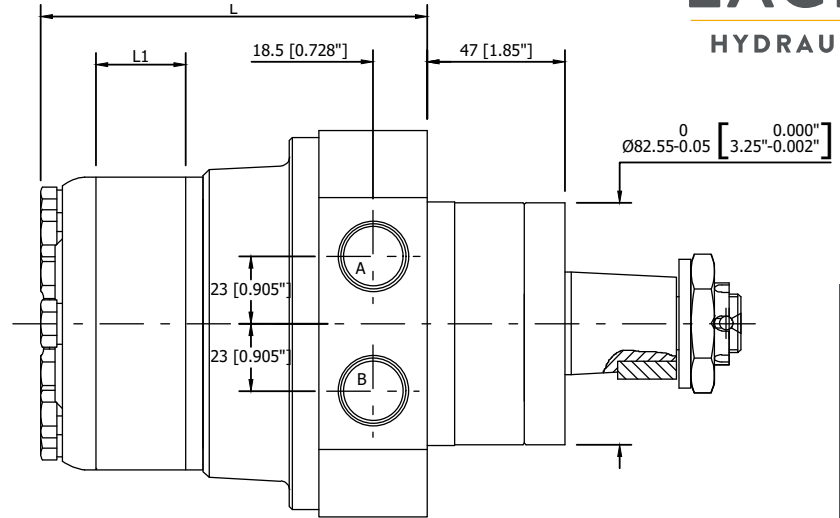
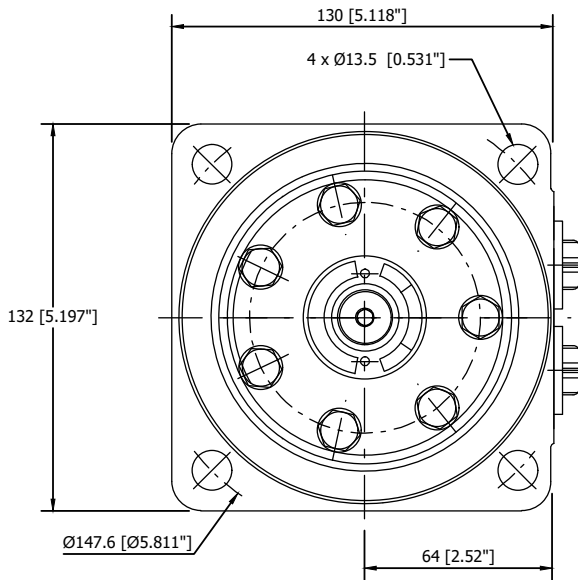
The table shows the max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
1450 (100)	0.031 (20)	0.66 (2.5)
	0.054 (35)	0.48 (1.8)
2030 (140)	0.031 (20)	0.93 (3.5)
	0.054 (35)	0.75 (2.8)

EBMRWN DIMENSIONS AND MOUNTING



EAGLE
HYDRAULIC



EBMRWN

MODEL	L	L1
EBMRWN-50	113 (4.449")	10 (0.394")
EBMRWN-80	119 (4.685")	16 (0.63")
EBMRWN-100	123 (4.843")	20 (0.787")
EBMRWN-125	128 (5.039")	25 (0.984")
EBMRWN-160	133.5 (5.256")	30.5 (1.201")
EBMRWN-200	141 (5.551")	38.1 (1.5")
EBMRWN-250	153 (6.024")	50 (1.969")
EBMRWN-315	165 (6.496")	62 (2.441")
EBMRWN-375	177 (6.969")	74 (2.913")

MOUNTING	CODE (Depth mm)			
	G	M	S	P
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14NPTF (15)
C	G 1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)

EBMRWN ORDER INFORMATION

EBMRWN - - - - -

1	2	3		4		5		6		7		8	
CODE	Displacement	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	50	Blank	4-Ø13.5 Wheel Mount, Ø82.5 x 9.4	T1	Cone Shaft Ø35, Parallel key B6x6x20	D	G1/2, G1/4	Blank	Standard	00	No Paint	Blank	Standard
	80			B	Shaft Ø32, Parallel Key 10x8x45	M	M22 x 1.5, M14 x 1.5	R	Opposite	Omit	Black		
	100			F	Shaft Ø1-1/4", Splined Key 14-DP12/24	S	7/8-14 O-Ring, 7/16-20UNF						
	125			FD	Long Shaft Ø31.75, Splined Key 14-DP12/24	P	1/2-14NPTF, 7/16-20UNF						
	160			G	Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1-1/4"								
	200												
	250												
	315												
375													

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.

Internal construction: with tapered roller bearing (inboard)



All numbers given are nominal values and should be used for reference only.

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EBMR-BK01 series hydraulic motor with brake is an extension of EBMR series motor range. This motor has an integrated holding brake.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth, reliable operation and high efficiency.
- Shaft seal can bear high pressure of back and the motor can be use in parallel or in series.
- Special design for distribution system can meet the requirement of low noise of unit.
- Compact volume and easy installation.
- Small volume and radial dimension, high holding torque, power brake and low weight.
- Internal construction: with radial needle roller bearing (inboard)

MAIN SPECIFICATIONS

		EBMR-BK01 50	EBMR-BK01 80	EBMR-BK01 100	EBMR-BK01 125	EBMR-BK01 160	EBMR-BK01 200	EBMR-BK01 250	EBMR-BK01 315	EBMR-BK01 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	3.15 (51.7)	4.97 (81.5)	6.22 (102)	7.76 (127.2)	9.59 (157.2)	11.87 (194.5)	15.46 (253.3)	19.38 (317.5)	23.27 (381.4)
Max. Speed	Rated (rpm)	490	479	478	421	341	276	212	169	141
	Continuous (rpm)	509	502	497	459	372	301	231	184	166
	Intermittent (rpm)	603	598	574	574	465	376	289	230	192
Max. Torque	Rated lbf•ft (N•m)	76.8 (104)	121 (164)	151.3 (205)	188.9 (256)	233.2 (316)	247.2 (335)	322.5 (437)	336.5 (456)	343.2 (465)
	Continuous lbf•ft (N•m)	76 (103)	149.8 (203)	187.5 (254)	233.9 (317)	288.6 (391)	264.9 (359)	322.5 (437)	336.5 (456)	343.2 (465)
	Intermittent lbf•ft (N•m)	65.4 (88.6)	118.1 (160)	147.6 (200)	184.5 (250)	227.3 (308)	245.8 (333)	349.1 (473)	370.5 (502)	383.8 (520)
Max. Output	Rated hp (kW)	7.1 (5.3)	11 (8.2)	13.8 (10.3)	15.2 (11.3)	15.2 (11.3)	13 (9.7)	13 (9.7)	10.9 (8.1)	9.3 (6.9)
	Continuous hp (kW)	7.4 (5.5)	14.3 (10.7)	17.7 (13.2)	20.4 (15.2)	20.4 (15.2)	15.2 (11.3)	14.2 (10.6)	11.8 (8.8)	10.9 (8.1)
	Intermittent hp (kW)	7.5 (5.6)	13.4 (10)	16.1 (12)	20.1 (15)	20.1 (15)	17.6 (13.1)	19.2 (14.3)	16.2 (12.1)	14.1 (10.5)
Max. Pressure Drop	Rated PSI (bar)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	1740 (120)	1740 (120)	1450 (100)	1233 (85)
	Continuous PSI (bar)	2031 (140)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	1885 (130)	1740 (120)	1450 (100)	1233 (85)
	Intermittent PSI (bar)	2538 (175)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2538 (175)	1885 (130)	1595 (110)	1378 (95)
Max. Flow	Rated GPM (L/min)	6.9 (26)	10.6 (40)	13.2 (50)	14.6 (55)	14.6 (55)	14.6 (55)	14.6 (55)	14.6 (55)	14.6 (55)
	Continuous GPM (L/min)	7.1 (27)	11.1 (42)	13.8 (52)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	17.2 (65)
	Intermittent GPM (L/min)	8.5 (32)	13.2 (50)	15.9 (60)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
Min. Opening Pressure	PSI (bar)	247 (17) --- 319 (22)								
Max. Inlet Pressure	PSI (bar)	3626 (250)								
Max. Brake Release Port Pressure	PSI (bar)	3626 (250)								
Max. Static Torque	lbf•ft (N•m)	369 (500) --- 405.9 (550)								
Weight	lbs (kg)	25.7 (11.7)	26.2 (11.9)	26.2 (11.9)	26.8 (12.2)	27.5 (12.5)	28.6 (13)	29.7 (13.5)	30.8 (14)	31.9 (14.5)

* Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure.

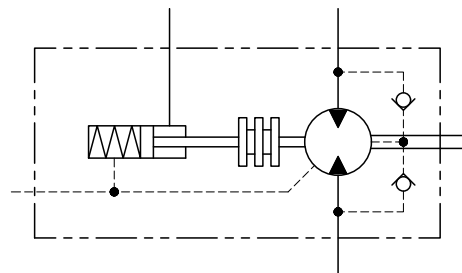
* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

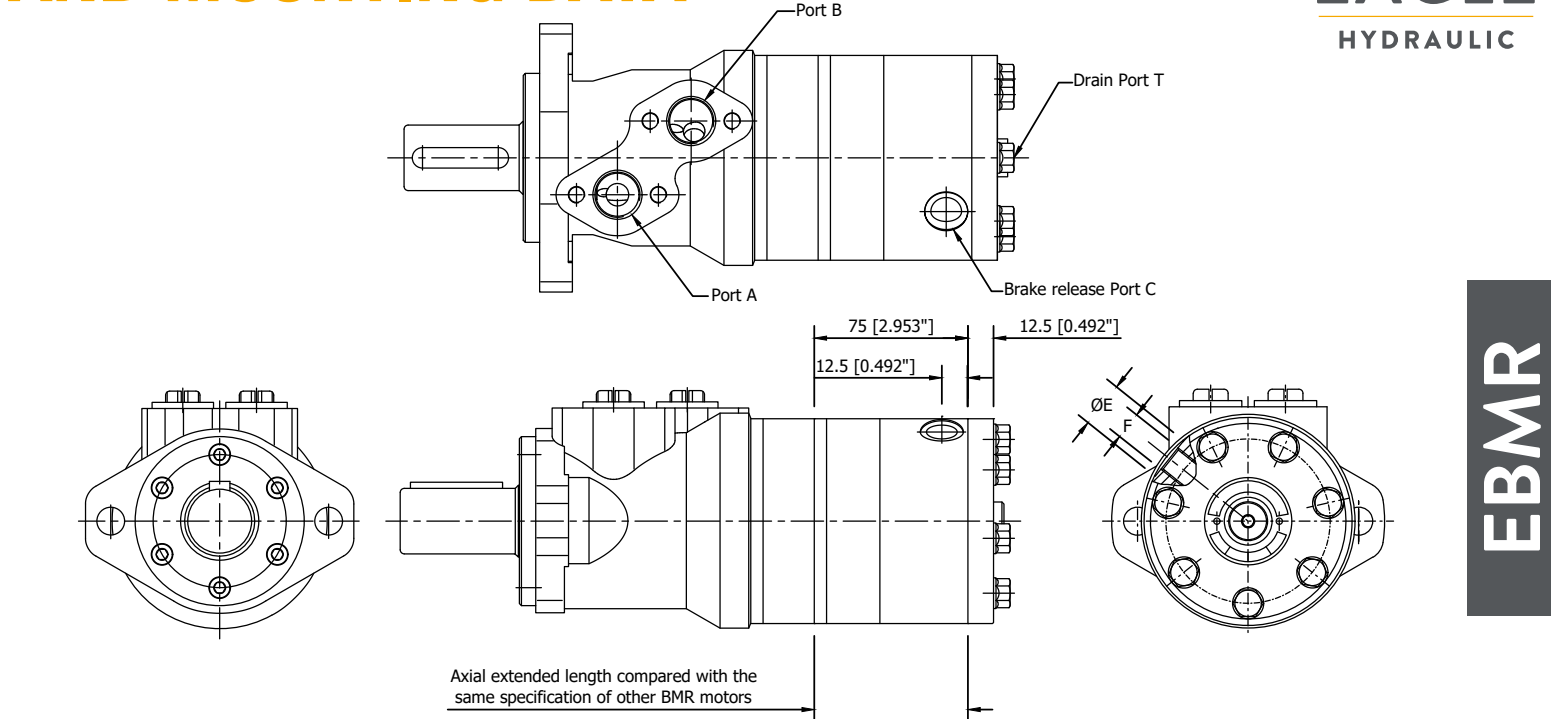
* Peak pressure: Max. value of operating motor in 0.6 second per minute.

* Such kind of brake is only used in static paring brake. Dynamic braking is not recommended.

When the motor integrated with brake is working, the pressure at releasing port must be more than 319 PSI (22 bar). In the status of braking, the pressure at releasing port must be less than 247 PSI (17 bar), optymally 0 PSI (0 bar). It is recommended when in usage that the back pressure of the oil circuit is the best 0 PSI (0 bar).



EBMR-BK01 DIMENSIONS AND MOUNTING DATA



EBMR

MODEL PORT C	ØE	F
G	22 [0.866"]	G1/4 Depth 9 [0.354"]

Note: The mount data is referring to BMR series motor. The axial extended length reduces 75mm as picture. Port C is brake releasing port, the position is as picture.

EBMR-BK01 ORDER INFORMATION

23456789

EBMR-BK01

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1	2	3		4		5		6		7		8		9	
CODE	Displacement	Flange		Output Shaft		Ports and Drain Port		Brake Release Port		Rotation Direction		Paint		Unusually Function	
	50	2	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	A	Shaft Ø25, Parrallel Key 8x7x32	D	G1/2 Manifold Mount, 4-M8, G1/4	G	G1/4 Depth 9 facing Ø22	Blank	Standard	00	No Paint	N1	Big Radial Force
	80	4	4-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 8	C	Shaft Ø1", Parrallel Key 1/4" x 1/4" x 1-1/4"	M	M22x1.5 Manifold Mount, 4-M8, M14x1.5			R	Opposite	Blank	Black		
	100	H4	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.8	E	Shaft Ø1", Splined Tooth SAE 6B	S	7/8-14 O-Ring Manifold, 4-5/16-18UNC, 7/16-20UNF								
	125	H5	4-M10 Square-Flange, Pilot Ø44.4 x 2.8	R	Short Shaft Ø1", Parallel Key 1/4" x 1/4" x 1-1/4"	P	1/2-14 NPTF Manifold, 4-5/16-18UNC, 7/16-20UNF								
	160			B	Shaft Ø32, Parallel Key 10 x 8 x 45	R	PT(Rc)1/2 Manifold, 4-M8, PT(Rc) 1/4								
	200			F	Shaft Ø1-1/4", Splined Tooth 14-DP12/24										
	250			FD	Long Shaft Ø1-1/4", Splined Tooth 14-DP12/24										
	315			G	Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1-1/14"										
	375			T	Cone-Shaft Ø28.56, Parrallel Key B5x5x14										

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us. Shafts B\F\G\T are only suitable for flanges 2 and 4.

EOK series motor adapts the advanced Geroler gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure and providing reliable and smooth operation, high efficiency and long life.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth, reliable operation and high efficiency.
- Shaft seal can bear high pressure of back and the motor can be used in parallel or in series.
- Special design in the driver-linker and long operating life.
- Special design for distribution system can meet the requirement of low noise of unit.
- Compact volume and easy installation.
- Internal construction: no bearing, no bushing.

TECHNICAL DATA FOR OK WITH 25mm Shaft / 1in Shaft / 1in Splined and 28.56mm Tapered Shaft

		EOK 36	EOK 50	EOK 80	EOK 100	EOK 125	EOK 160	EOK 200	EOK 250	EOK 315	EOK 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	2.2 (36)	3.15 (51.7)	4.97 (81.5)	6.22 (102)	7.76 (127.2)	9.59 (157.2)	11.87 (194.5)	15.46 (253.3)	19.38 (317.5)	23.27 (381.4)
Max. Speed	Continuous (rpm)	1111	780	744	595	480	382	301	238	191	162
Max. Torque	Continuous lbf•ft (N•m)	48.7 (66)	73.8 (100)	116.6 (158)	147.6 (200)	183 (248)	232.5 (315)	250.2 (339)	297.4 (403)	293.7 (398)	275.3 (373)
	Intermittent lbf•ft (N•m)	61.3 (83)	95.2 (129)	144.6 (196)	178.6 (242)	219.9 (298)	283.4 (384)	309.2 (419)	349.8 (474)	367.5 (498)	343.9 (466)
Max. Output	Continuous hp (kW)	12.1 (9)	12.1 (9)	13.9 (10.4)	14.5 (10.8)	14.5 (10.8)	13.9 (10.4)	11.8 (8.8)	10.9 (8.1)	9.9 (7.4)	8.3 (6.2)
	Intermittent hp (kW)	13.9 (10.4)	13.9 (10.4)	16.9 (12.6)	17.2 (12.8)	16.8 (12.5)	15.4 (11.5)	13.7 (10.2)	12.6 (9.4)	10.5 (7.8)	9.5 (7.1)
Max. Pressure Drop	Continuous PSI (bar)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	1813 (125)	1595 (110)	1305 (90)	1088 (75)
	Intermittent PSI (bar)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2538 (175)	2248 (155)	2031 (140)	1813 (125)	1305 (90)
Max. Flow	Continuous GPM (L/min)	10.6 (40)	10.6 (40)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)	15.9 (60)

* Intermittent operation: the permissible values may occur for max. 10% of every minute

EOK ORDER INFORMATION

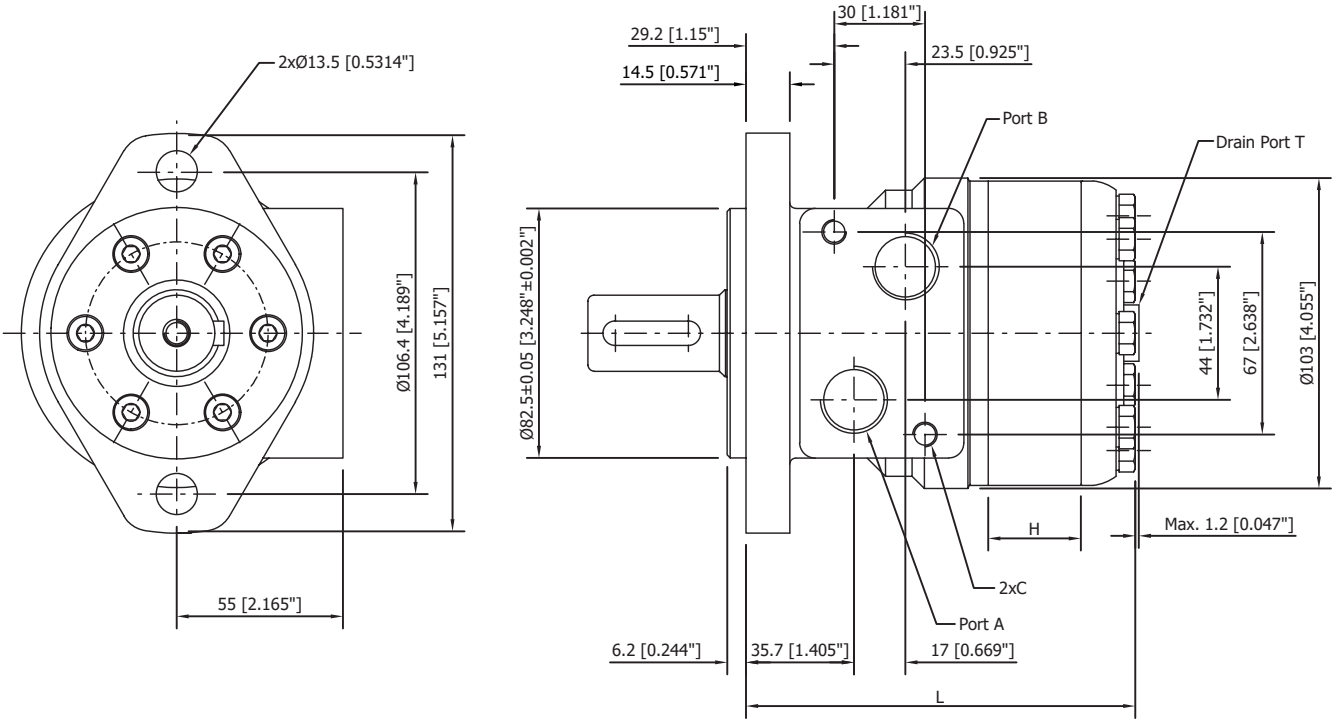
2 3 4 5 6 7 8

EOK - - - - - -

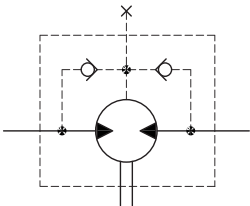
1	2	3	4	5	6	7	8
CODE	Displacement	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
	36	2	A	D	Blank	00	Blank
	50		C	M	R	Omit	F
	80		E	S			0
	100		W	P			
	125		T	R			
	160						
	200						
	250						
	315						
	375						



EOK DIMENSIONS AND MOUNTING DATA



EOK



MODEL	H	L
EOK36	7 (0.276")	105 (4.134")
EOK50	10 (0.394")	108 (4.252")
EOK80	16 (0.63")	114 (4.488")
EOK100	20 (0.787")	118 (4.646")
EOK125	25 (0.984")	123 (4.843")
EOK160	30.5 (1.201")	128.5 (5.059")
EOK200	38.1 (1.5")	136 (5.354")
EOK250	50 (1.969")	148 (5.827")
EOK315	62 (2.441")	160 (6.299")
EOK375	74 (2.913")	172 (6.772")

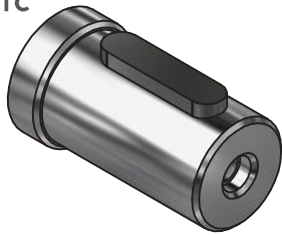
MOUNTING	CODE (Depth mm)				
	D	M	S	P	R
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (16.7)	1/2-14 NPTF (15)	PT (RC) 1/2 (15)
C	4x M8 (13)	4x M8 (13)	4x 5/16-18UNC (13)	4x 5/16-18UNC (13)	4x M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)

EOK - DIRECTION OF SHAFT ROTATION : STANDARD

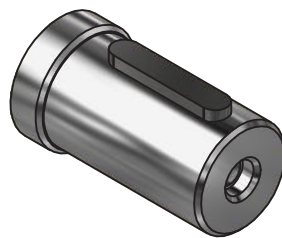
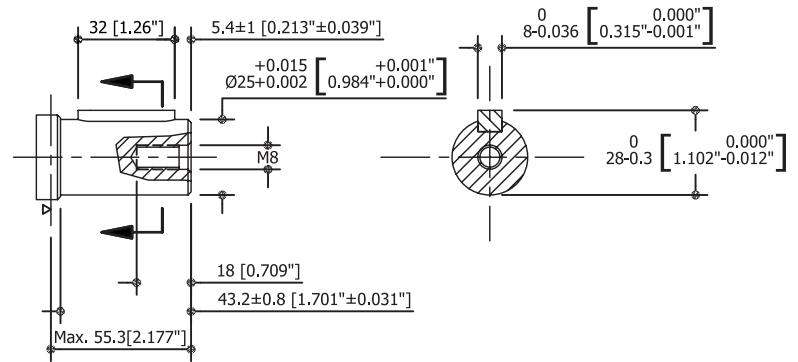
When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.

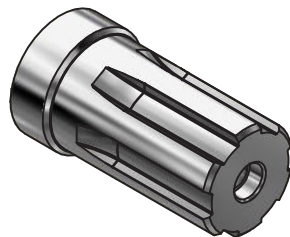
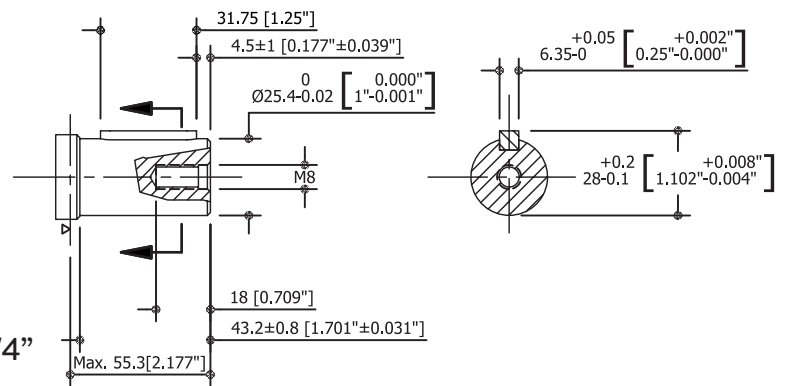




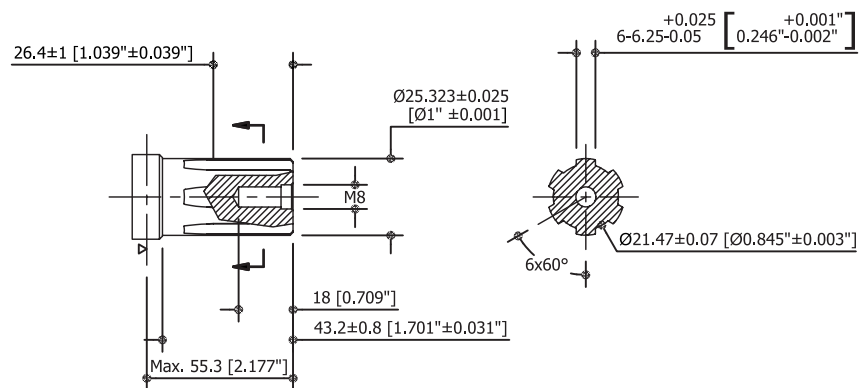
SHAFT A
Cylindrical Shaft $\varnothing 25$
Parallel Key 8x7x32
METRIC



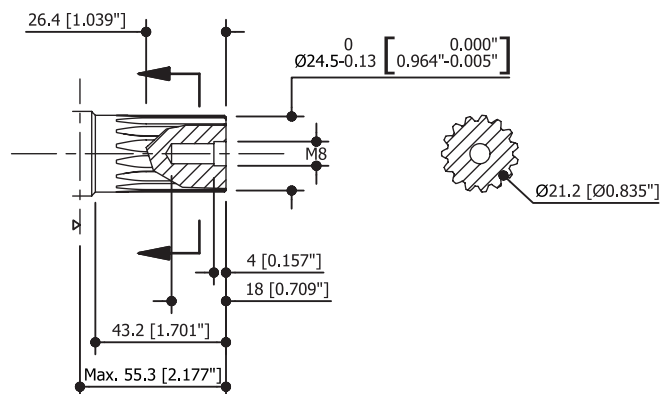
SHAFT C
Cylindrical Shaft 1" - Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



SHAFT E
Splined SAE 6B
IMPERIAL



SHAFT W
DIN 5482 B25 x 22h9
14zx1.6mx30Px9h



EBMH series motor adapts the advanced Gerolot gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure and providing reliable and smooth operation, high efficiency and long life.

FEATURES

- Advanced manufacturing devices for the Gerolot gear set, which use low pressure at start-up, provide smooth, reliable operation and high efficiency.
- Shaft seal can bear high pressure of back and the motor can be used in parallel or in series.
- Special design in the driver-linker and long operating life
- Special design for distribution system can meet the requirement of low noise of unit.
- Compact volume and easy installation
- Speed sensor available on request.
- Internal construction: with radial needle roller bearing (inboard)

MAIN SPECIFICATIONS

		EBMH 200	EBMH 250	EBMH 315	EBMH 400	EBMH 500
Geometric displacement	in ³ /rev (cm ³ /rev.)	12.4 (203.2)	15.62 (255.9)	19.29 (316.1)	24.8 (406.4)	29.85 (489.2)
Max. Speed	Continuous (rpm)	366	290	236	183	155
	Intermittent (rpm)	439	348	282	220	184
Max. Torque	Continuous lbf•ft (N•m)	376.4 (510)	458.3 (621)	546.1 (740)	627.3 (850)	612.5 (830)
	Intermittent lbf•ft (N•m)	427.3 (579)	518.1 (702)	610.3 (827)	730.6 (990)	767.5 (1040)
	Peak lbf•ft (N•m)	480.4 (651)	583 (790)	723.2 (980)	805.9 (1092)	863.5 (1170)
Max. Output	Continuous hp (kW)	21.5 (16)	21.5 (16)	18.8 (14)	16.8 (12.5)	14.8 (11)
	Intermittent hp (kW)	24.8 (18.5)	24.8 (18.5)	20.8 (15.5)	20.1 (15)	18.8 (14)
Max. Pressure Drop	Continuous PSI (bar)	2538 (175)	2538 (175)	2538 (175)	2248 (155)	1813 (125)
	Intermittent PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2756 (190)	2321 (160)
	Peak PSI (bar)	3263 (225)	3263 (225)	3263 (225)	3046 (210)	2611 (180)
Max. Flow	Continuous GPM (L/min)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
	Intermittent GPM (L/min)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)
Weight	Lbs (kg)	23.1 (10.5)	24.2 (11)	25.3 (11.5)	27.1 (12.3)	28.6 (13)

TYPE		Max. inlet pressure	Max. return pressure with drain line
EBMH200-500 PSI (bar)	cont.	2901 (200)	2538 (175)
	int.	3263 (225)	2901 (200)
	peak	3626 (250)	3263 (225)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.

* Technical data EBMH with 35mm cylindrical, 1-1/4 in splined and 35mm tapered shaft.



EBMH ORDER INFORMATION

1 2 3 4 5 6 7 8

EBMH - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Displacement	Flange		Output Shaft		Ports and Drain Port		Rotation Direction		Paint		Unusually Function	
	160	4	4-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 6	B	Shaft Ø32, Parallel Key 10 x 8 x 45	D	G1/2 Manifold Mount, 4-M8, G1/4	Omit	Standard	00	No Paint	Omit	Standard
	200	2	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5 x 6	M1	Shaft Ø35, Parallel Key 10 x 8x 45	M	M22x1.5 Manifold Mount, 4-M8, M14x1.5	R	Opposite	Omit	Black	N1	Big Radial Force
	250			F	Shaft Ø1-1/4", Splined Tooth 14-DP12/24	S	7/8-14 O-Ring Manifold, 4-5/16-18UNC, 7/16-20UNF					0	No Case Drain
	FD			Long Shaft Ø1-1/4", Splined Tooth 14-DP12/24	P	1/2-14 NPTF Manifold, 4-5/16-18UNC, 7/16-20UNF	F					Free Running	
	400			G	Shaft Ø1-1/4", Parrallel Key 5/16" x 5/16" x 1-1/4"	R	PT(Rc)1/2 Manifold, 4-M8, PT(Rc) 1/4					LS	Low Speed
	470			T1	Cone Shaft Ø35, Parallel key 6 x 6 x 20								
	500	S	Shaft Ø1", Parallel Key SAE 6B										
				M	Shaft Ø35, Parallel Key 10 x 8 x 45								

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc...If the specification is not in the table or you have specific requirements, please contact us.



PERFORMANCE DATA



EBMH 200 - 12.4 in³/rev (203.2 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)		
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	72.3 (98)	143.2 (194)	209.6 (284)				
		Speed (rpm)	25	25	22				
	2.6 (10)	Torque lbf•ft (N•m)	74.5 (101)	150.6 (204)	222.1 (301)	288.6 (391)	355.7 (482)		
		Speed (rpm)	43	41	36	29	14		
	5.3 (20)	Torque lbf•ft (N•m)	73.1 (99)	148.3 (201)	224.4 (304)	296.7 (402)	375.6 (509)	425.1 (576)	
		Speed (rpm)	100	97	93	85	69	56	
	7.9 (30)	Torque lbf•ft (N•m)	71.6 (97)	145.4 (197)	221.4 (300)	296.7 (402)	376.4 (510)	427.3 (579)	
		Speed (rpm)	145	143	139	130	114	101	
	10.6 (40)	Torque lbf•ft (N•m)	66.4 (90)	140.2 (190)	215.5 (292)	294.5 (399)	374.2 (507)	426.6 (578)	
		Speed (rpm)	200	200	200	188	168	153	
	13.2 (50)	Torque lbf•ft (N•m)	60.5 (82)	135.1 (183)	209.6 (284)	289.3 (392)	369 (500)	421.4 (571)	
		Speed (rpm)	248	246	244	235	213	199	
	15.9 (60)	Torque lbf•ft (N•m)	53.9 (73)	128.4 (174)	202.2 (274)	283.4 (384)	363.8 (493)	415.5 (563)	
		Speed (rpm)	292	290	287	279	260	244	
	18.5 (70)	Torque lbf•ft (N•m)	46.5 (63)	120.3 (163)	194.8 (264)	276 (374)	355 (481)	408.9 (554)	
		Speed (rpm)	352	350	349	338	318	301	
	19.8 (75)	Torque lbf•ft (N•m)	43.5 (59)	115.9 (157)	191.1 (259)	270.1 (366)	350.6 (475)	403.7 (547)	
		Speed (rpm)	366	365	363	355	335	319	
Max. Cont.	21.1 (80)	Torque lbf•ft (N•m)	39.1 (53)	110.7 (150)	186.7 (253)	264.2 (358)	343.9 (466)	397 (538)	
		Speed (rpm)	381	381	380	371	352	338	
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)	28.8 (39)	103.3 (140)	177.9 (241)	256.8 (348)	336.5 (456)	388.2 (526)	
		Speed (rpm)	439	437	434	426	407	392	

EBMH 250 - 15.62 in³/rev (255.9 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		508 (35)	1015 (70)	1305 (90)	1740 (120)	2103 (145)	2538 (175)	2901 (200)	
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	89.3 (121)	181.5 (246)	234.7 (318)	293.7 (398)			
		Speed (rpm)	19	19	18	14			
	2.6 (10)	Torque lbf•ft (N•m)	95.9 (130)	190.4 (258)	244.3 (331)	313.7 (425)	380.1 (515)	439.1 (595)	
		Speed (rpm)	34	33	31	29	23	12	
	5.3 (20)	Torque lbf•ft (N•m)	95.9 (130)	190.4 (258)	245 (332)	318.8 (432)	383.8 (520)	458.3 (621)	518.1 (702)
		Speed (rpm)	78	77	76	73	65	53	42
	7.9 (30)	Torque lbf•ft (N•m)	90 (122)	185.2 (251)	241.3 (327)	316.6 (429)	383.8 (520)	458.3 (621)	516.6 (700)
		Speed (rpm)	115	113	111	105	96	84	75
	10.6 (40)	Torque lbf•ft (N•m)	84.9 (115)	177.1 (240)	238.4 (323)	311.4 (422)	378.6 (513)	454.6 (616)	515.1 (698)
		Speed (rpm)	157	157	156	150	139	127	114
	13.2 (50)	Torque lbf•ft (N•m)	77.5 (105)	171.2 (232)	231.7 (314)	303.3 (411)	372.7 (505)	447.2 (606)	507 (687)
		Speed (rpm)	196	195	192	185	173	159	147
	15.9 (60)	Torque lbf•ft (N•m)	69.4 (94)	162.4 (220)	222.9 (302)	295.9 (401)	366 (496)	439.8 (596)	498.9 (676)
		Speed (rpm)	232	230	226	218	206	192	180
	18.5 (70)	Torque lbf•ft (N•m)	60.1 (81.4)	154.2 (209)	212.5 (288)	287.1 (389)	357.2 (484)	429.5 (582)	491.5 (666)
		Speed (rpm)	274	274	274	266	252	238	222
	19.8 (75)	Torque lbf•ft (N•m)	53.1 (72)	149.8 (203)	206.6 (280)	281.2 (381)	350.6 (475)	423.6 (574)	486.3 (659)
		Speed (rpm)	290	289	287	279	266	251	236
Max. Cont.	21.1 (80)	Torque lbf•ft (N•m)	48.7 (66)	143.2 (194)	201.5 (273)	273.8 (371)	344.6 (467)	417.7 (566)	480.4 (651)
		Speed (rpm)	303	302	298	290	279	264	249
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)	36.2 (49)	131.4 (178)	188.9 (256)	262 (355)	334.3 (453)	407.4 (552)	467.9 (634)
		Speed (rpm)	348	347	345	337	325	309	292

All numbers given are nominal values and should be used for reference only.

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EBMH

EBMH 315 - 19.29 in³/rev (316.1 cm³/rev)

		Max. Cont.						Max. Int.
Pressure PSI (bar)		508 (35)	1088 (75)	1450 (100)	1958 (135)	2248 (155)	2538 (175)	2901 (200)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	114.4 (155)	239.9 (325)				
		Speed (rpm)	16	13				
	2.6 (10)	Torque lbf•ft (N•m)	120.3 (163)	252.4 (342)	335.1 (454)	410.3 (556)		
		Speed (rpm)	27	24	18	14		
	5.3 (20)	Torque lbf•ft (N•m)	124.7 (169)	257.6 (349)	346.1 (469)	429.5 (582)	490 (664)	541 (733)
		Speed (rpm)	63	61	55	48	40	32
	7.9 (30)	Torque lbf•ft (N•m)	121.8 (165)	253.9 (344)	346.9 (470)	428 (580)	493.7 (669)	546.1 (740)
		Speed (rpm)	93	89	82	77	67	59
	10.6 (40)	Torque lbf•ft (N•m)	113.7 (154)	248.7 (337)	343.2 (465)	425.8 (577)	489.3 (663)	543.9 (737)
		Speed (rpm)	126	126	119	111	99	88
	13.2 (50)	Torque lbf•ft (N•m)	104.1 (141)	239.9 (325)	335.8 (455)	419.2 (568)	484.1 (656)	537.3 (728)
		Speed (rpm)	159	155	148	139	126	115
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)	89.3 (121)	230.3 (312)	324.7 (440)	409.6 (555)	474.5 (643)	527.7 (715)
		Speed (rpm)	187	186	179	169	154	143
	18.5 (70)	Torque lbf•ft (N•m)	76 (103)	219.9 (298)	313.7 (425)	399.3 (541)	465.7 (631)	518.8 (703)
		Speed (rpm)	222	222	215	205	187	176
	19.8 (75)	Torque lbf•ft (N•m)	69.4 (94)	211.8 (287)	307.7 (417)	390.4 (529)	459.8 (623)	513.6 (696)
		Speed (rpm)	236	233	224	215	196	184
	21.1 (80)	Torque lbf•ft (N•m)	60.5 (82)	204.4 (277)	299.6 (406)	382.3 (518)	450.9 (611)	507.7 (688)
		Speed (rpm)	246	244	236	228	210	197
	23.8 (90)	Torque lbf•ft (N•m)	45.8 (62)	188.9 (256)	284.9 (386)	366 (496)	437.6 (593)	493.7 (669)
		Speed (rpm)	282	280	275	266	248	234
Max. Int.								

EBMH 400 - 24.8 in³/rev (406.4 cm³/rev)

		Max. Cont.					Max. Int.
Pressure PSI (bar)		508 (35)	870 (60)	1523 (105)	1813 (125)	2248 (155)	2756 (190)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	144.6 (196)	256.8 (348)	380.8 (516)		
		Speed (rpm)	13	13	10		
	2.6 (10)	Torque lbf•ft (N•m)	151.3 (205)	267.9 (363)	402.9 (546)	518.1 (702)	633.9 (859)
		Speed (rpm)	22	21	21	17	11
	5.3 (20)	Torque lbf•ft (N•m)	154.2 (209)	270.1 (366)	400.7 (543)	522.5 (708)	645 (874)
		Speed (rpm)	50	49	46	41	36
	7.9 (30)	Torque lbf•ft (N•m)	148.3 (201)	263.5 (357)	400 (542)	521 (706)	637.6 (864)
		Speed (rpm)	73	72	70	63	56
	10.6 (40)	Torque lbf•ft (N•m)	143.9 (195)	255.3 (346)	392.6 (532)	517.3 (701)	633.2 (858)
		Speed (rpm)	99	98	96	86	77
	13.2 (50)	Torque lbf•ft (N•m)	127.7 (173)	245 (332)	382.3 (518)	507 (687)	625.8 (848)
		Speed (rpm)	123	122	118	107	97
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)	113.7 (154)	235.4 (319)	369.7 (501)	493 (668)	614.8 (833)
		Speed (rpm)	146	144	141	128	115
	18.5 (70)	Torque lbf•ft (N•m)	101.8 (138)	225.1 (305)	354.2 (480)	479 (649)	600.7 (814)
		Speed (rpm)	174	173	169	156	141
	19.8 (75)	Torque lbf•ft (N•m)	94.5 (128)	217 (294)	343.9 (466)	470.1 (637)	591.9 (802)
		Speed (rpm)	183	181	177	163	149
	21.1 (80)	Torque lbf•ft (N•m)	83.4 (113)	204.4 (277)	332.8 (451)	458.3 (621)	580.1 (786)
		Speed (rpm)	192	191	188	174	158
	23.8 (90)	Torque lbf•ft (N•m)	66.4 (90)	188.9 (256)	319.6 (433)	439.1 (595)	566 (767)
		Speed (rpm)	220	220	215	202	183
Max. Int.							

All numbers given are nominal values and should be used for reference only.



PERFORMANCE DATA



EBMH 500 - 29.85 in³/rev (489.2 cm³/rev)

		<i>Max. Cont.</i>					<i>Max. Int.</i>
Pressure PSI (bar)		363 (25)	725 (50)	1233 (85)	1450 (100)	1813 (125)	2321 (160)
Flow GPM (L/min)	1.3 (5)	Torque lbf•ft (N•m)	121.8 (165)	233.9 (317)	380.8 (516)		
		Speed (rpm)	11	11	8		
	2.6 (10)	Torque lbf•ft (N•m)	131.4 (178)	247.2 (335)	409.6 (555)	493.7 (669)	583.8 (791)
		Speed (rpm)	20	19	17	15	13
	5.3 (20)	Torque lbf•ft (N•m)	130.6 (177)	244.3 (331)	412.5 (559)	496.7 (673)	589.7 (799)
		Speed (rpm)	42	42	41	38	36
	7.9 (30)	Torque lbf•ft (N•m)	126.9 (172)	236.2 (320)	408.1 (553)	489.3 (663)	584.5 (792)
		Speed (rpm)	64	63	61	57	53
	10.6 (40)	Torque lbf•ft (N•m)	120.3 (163)	228 (309)	399.3 (541)	482.7 (654)	577.9 (783)
		Speed (rpm)	85	85	83	79	75
	13.2 (50)	Torque lbf•ft (N•m)	107.7 (146)	218.4 (296)	386 (523)	468.6 (635)	566.8 (768)
		Speed (rpm)	103	103	103	97	93
	15.9 (60)	Torque lbf•ft (N•m)	89.3 (121)	203 (275)	370.5 (502)	453.1 (614)	551.3 (747)
		Speed (rpm)	124	124	123	117	113
	18.5 (70)	Torque lbf•ft (N•m)	71.6 (97)	188.9 (256)	355.7 (482)	440.6 (597)	538 (729)
		Speed (rpm)	148	148	148	140	134
<i>Max. Cont.</i>	19.8 (75)	Torque lbf•ft (N•m)	58.3 (79)	177.1 (240)	346.1 (469)	429.5 (582)	526.9 (714)
		Speed (rpm)	155	155	155	152	144
<i>Max. Int.</i>	21.1 (80)	Torque lbf•ft (N•m)	44.3 (60)	166.8 (226)	334.3 (453)	420.7 (570)	517.3 (701)
		Speed (rpm)	166	166	166	159	153
	23.8 (90)	Torque lbf•ft (N•m)	25.1 (34)	148.3 (201)	310.7 (421)	405.9 (550)	496.7 (673)
		Speed (rpm)	184	183	182	177	166

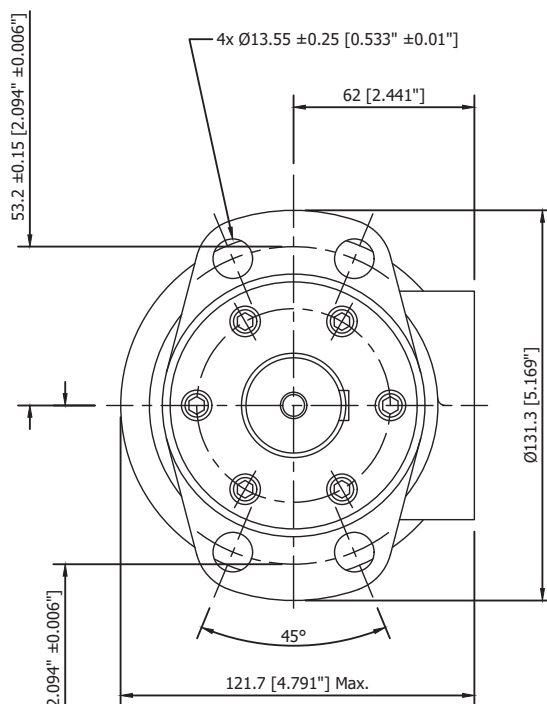
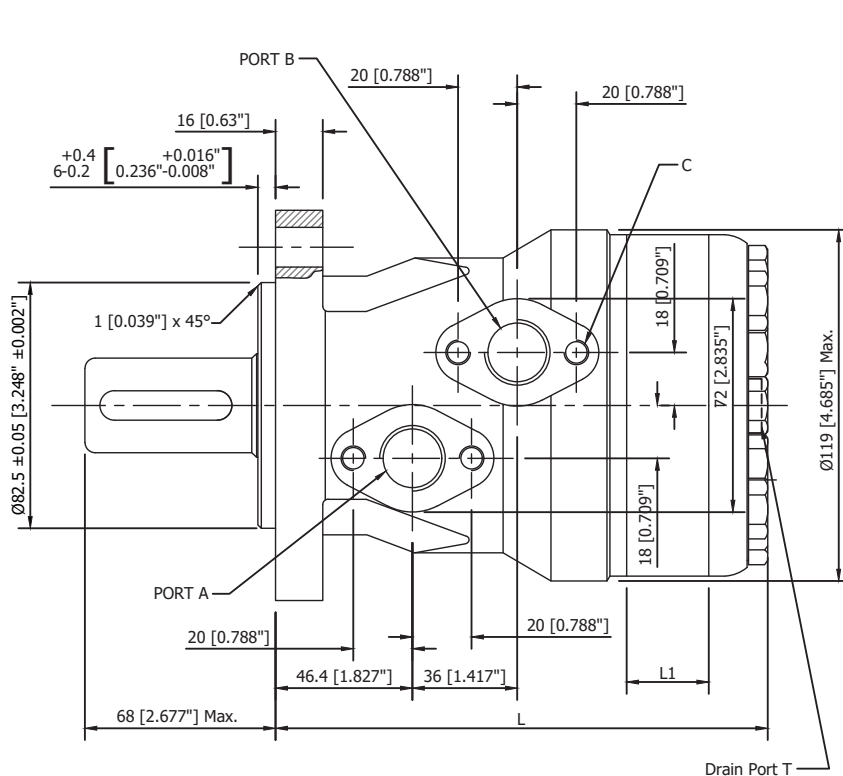
EBMH



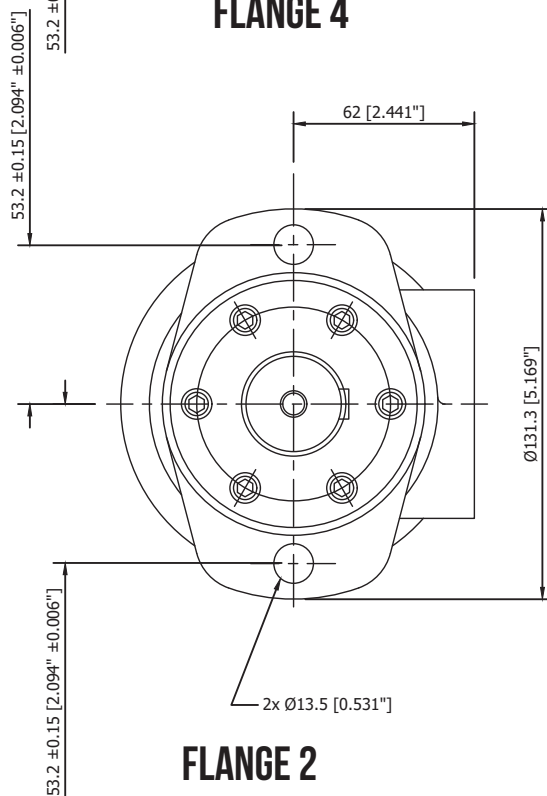
All numbers given are nominal values and should be used for reference only.

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FLANGE 4



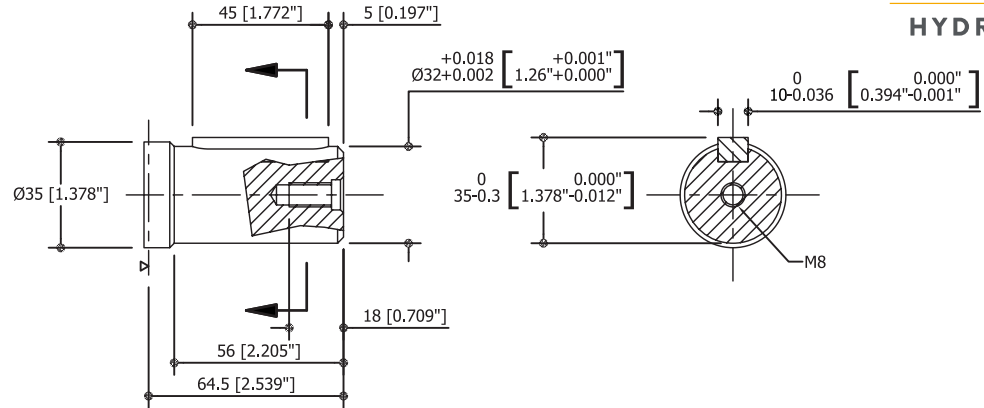
FLANGE 2

MODEL	L	L1
EBMH-160	162 (6.378")	21 (0.827")
EBMH-200	168 (6.614")	27 (1.063")
EBMH-250	175 (6.89")	34 (1.339")
EBMH-315	184 (7.244")	42 (1.654")
EBMH-400	195 (7.677")	54 (2.126")
EBMH-500	206 (8.11")	65 (2.559")

MOUNTING	CODE (Depth mm)				
	D	M	S	P	R
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (15)	1/2-14 NPTF (15)	PT (RC) 1/2 (15)
C	4x M8 (13)	4x M8 (13)	4x 5/16-18UNC (13)	4x 5/16-18UNC (13)	4x M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	7/16-20UNF (12)	PT (RC) 1/4 (9.7)



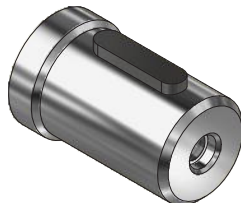
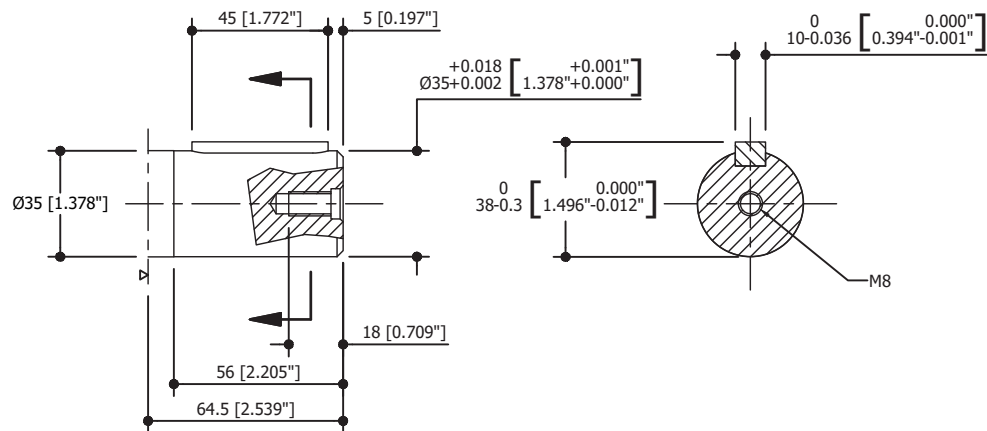
SHAFT B
Cylindrical Shaft Ø32
Parallel Key 10x8x45
METRIC



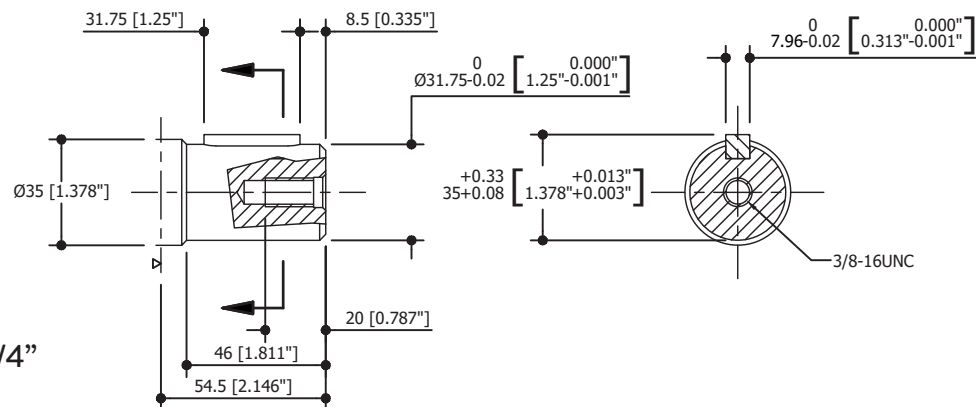
EBMH



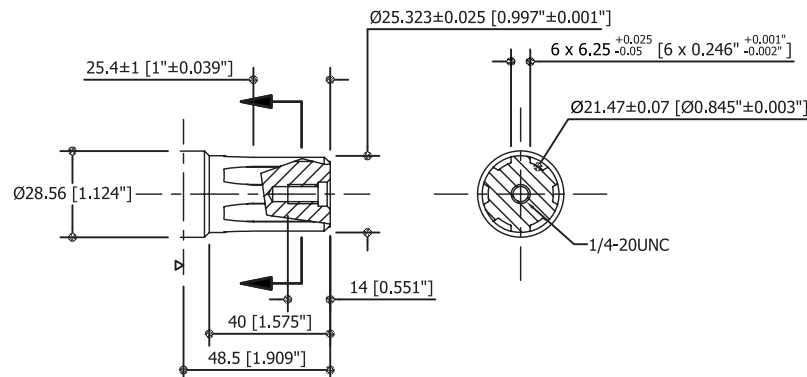
SHAFT M
Cylindrical Shaft Ø35
Parallel Key 10x8x45
METRIC



SHAFT G
Cylindrical Shaft Ø1-1/4"
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL



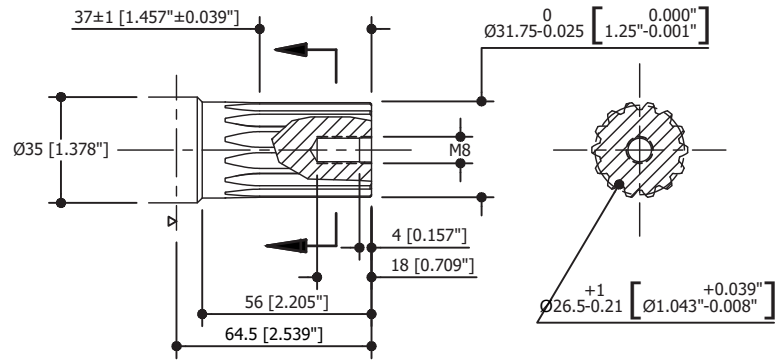
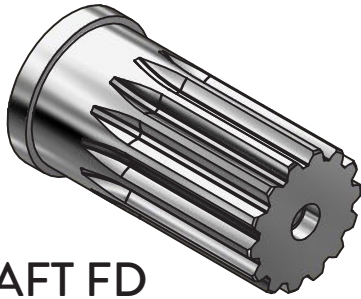
SHAFT S
Splined SAE 6B
IMPERIAL



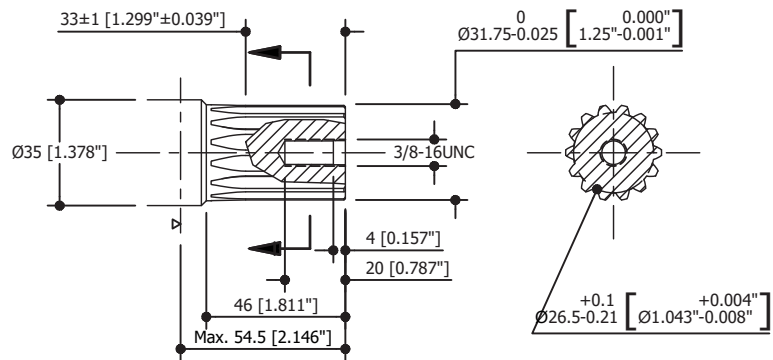
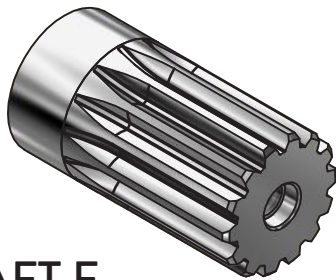
All numbers given are nominal values and should be used for reference only.

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SHAFT FD Splined 14-DP12/24 IMPERIAL

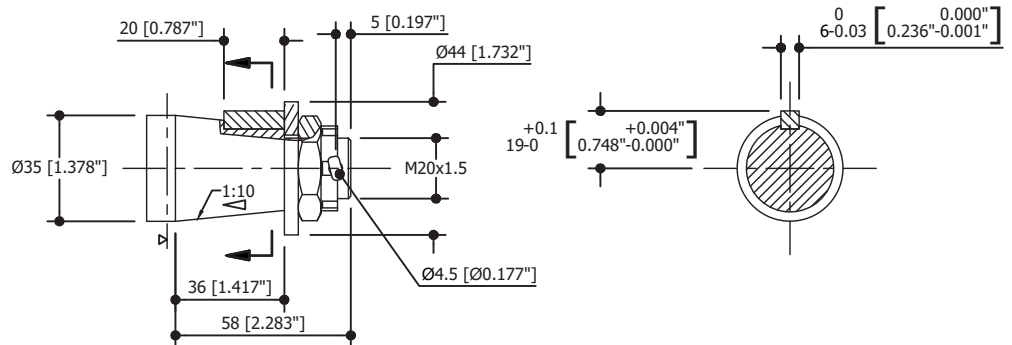
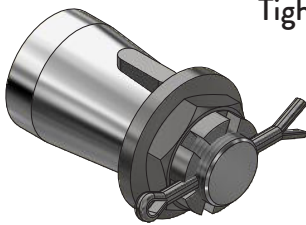


SHAFT F Splined 14-DP12/24 IMPERIAL

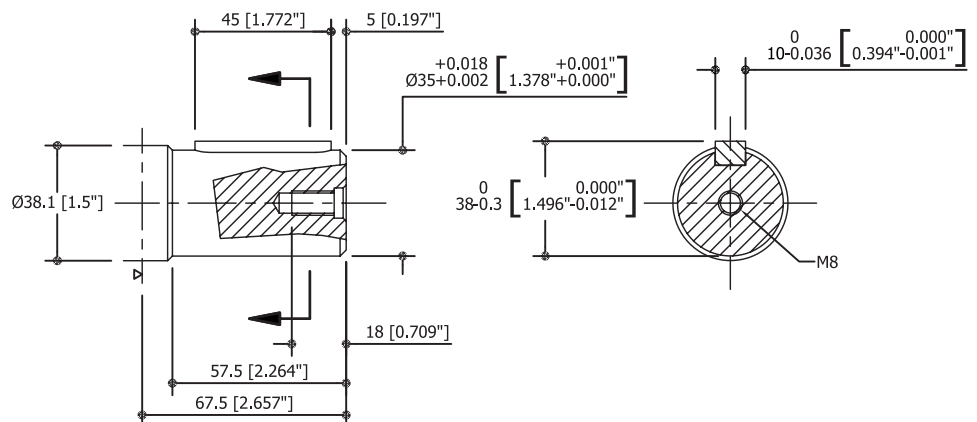


Tightening Torque: 200 +/- 10Nm

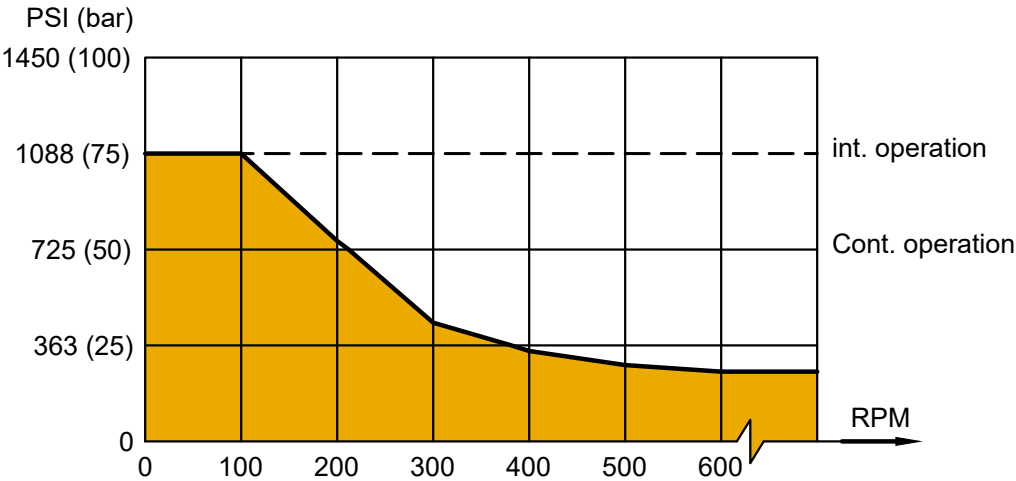
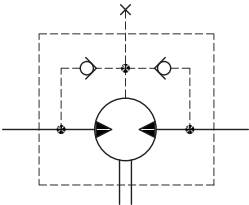
SHAFT T1 Cone Shaft Ø35mm Parallel Key 6x6x20 METRIC



SHAFT M1 Cylindrical Shaft Ø35 Parallel Key 10x8x45 METRIC

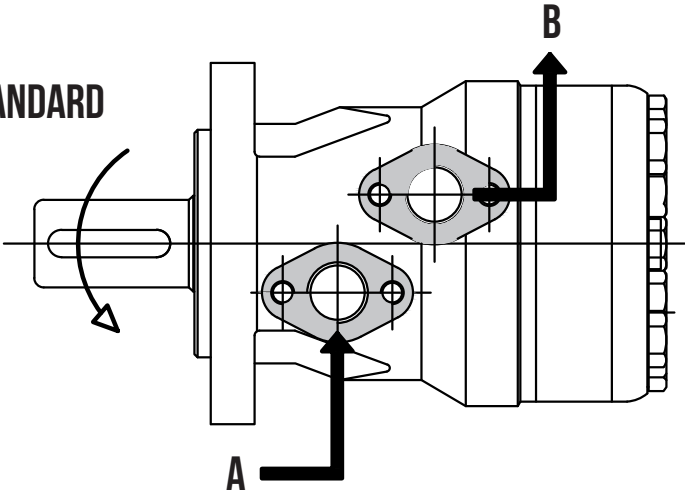


EBMH PERMISSIBLE SHAFT SEAL PRESSURE



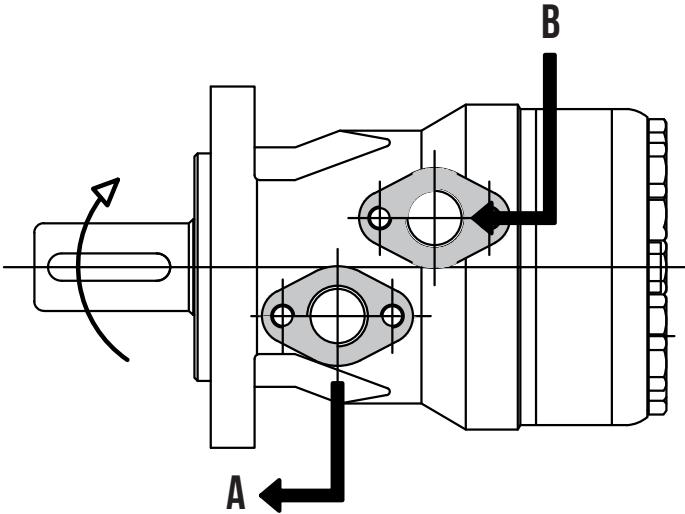
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

EBMH - DIRECTION OF SHAFT ROTATION : STANDARD



When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.



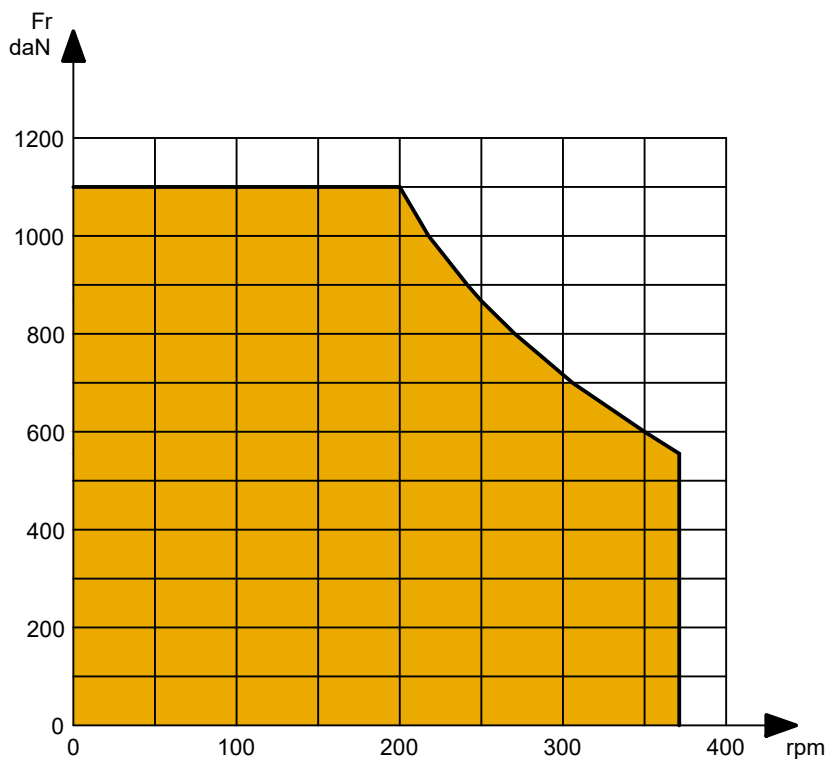
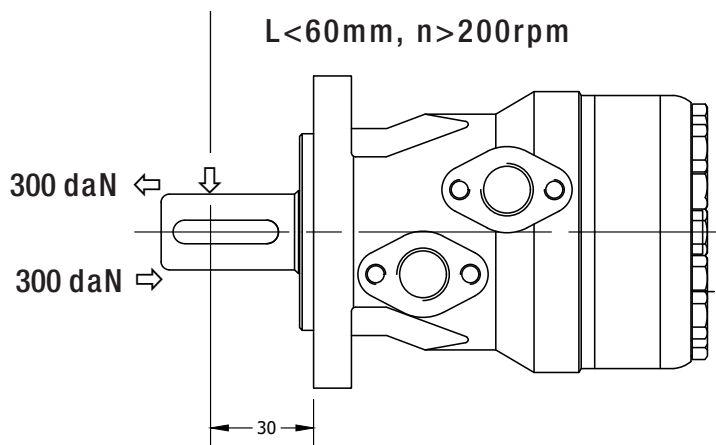
F_r = Radial Force (daN)

L = Distance (mm)

n = Speed (rpm)

$$F_r = \frac{1100}{n} \cdot \frac{25000}{103.5 + L} \text{ daN}$$

$L < 60 \text{ mm}, n > 200 \text{ rpm}$



— Shaft Ø1" (Ø25.4mm) and shaft SAE 6B

The drawing is the possible load when $L=30 \text{ mm}$

OIL FLOW IN DRAIN LINE

The table shows the max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

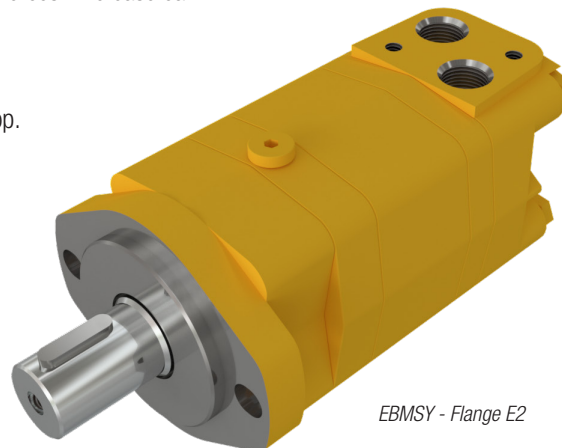
Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
1450 (100)	0.031 (20)	0.66 (2.5)
	0.054 (35)	0.48 (1.8)
2030 (140)	0.031 (20)	0.93 (3.5)
	0.054 (35)	0.75 (2.8)

EBMSY SERIES

EBMSY new series motor adapts the advanced Geroler gear set designed with disc distribution flow and high pressure. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in disc distribution flow.
- This new series motor is suitable for vehicles with greater loads and pressure drop.
- Speed sensor available on request.



EBMSY

		EBMSY EBMSYS 80	EBMSY EBMSYS 100	EBMSY EBMSYS 125	EBMSY EBMSYS 160	EBMSY EBMSYS 200	EBMSY EBMSYS 250	EBMSY EBMSYS 315	EBMSY EBMSYS 400	EBMSY EBMSYS 475
Geometric displacement	in ³ /rev (cm ³ /rev.)	4.92 (80.6)	6.15 (100.8)	7.63 (125)	9.40 (154)	11.84 (194)	14.83 (243)	18.98 (311)	24.04 (394)	28.99 (475)
Max. Speed	Continuous (rpm)	800	748	600	470	375	300	240	185	155
	Intermittent (rpm)	988	900	720	560	450	360	280	225	185
Max. Torque	Continuous lbf•ft (N•m)	166.1 (225)	214 (290)	269.4 (365)	357.9 (485)	432.5 (586)	522.5 (708)	649.4 (880)	649.4 (880)	671.6 (910)
	Intermittent lbf•ft (N•m)	225.1 (305)	287.8 (390)	354.2 (480)	435.4 (590)	520.3 (705)	634.7 (860)	738 (1000)	723.2 (980)	730.6 (990)
Max. Output	Continuous hp (kW)	21.5 (16)	24.1 (18)	24.1 (18)	24.3 (18.1)	24.3 (18.1)	24.1 (18)	22.8 (17)	14.8 (11)	12.1 (9)
	Intermittent hp (kW)	26.8 (20)	29.5 (22)	30.8 (23)	33.5 (25)	32.2 (24)	31.9 (23.8)	27.1 (20.2)	16.1 (12)	14.8 (11)
Max. Pressure Drop	Continuous PSI (bar)	2973 (205)	2973 (205)	2973 (205)	3046 (210)	3046 (210)	2901 (200)	2901 (200)	2321 (160)	2031 (140)
	Intermittent PSI (bar)	3989 (275)	3989 (275)	3989 (275)	3771 (260)	3626 (250)	3626 (250)	3481 (240)	2756 (190)	2176 (150)
	Peak PSI (bar)	4279 (295)	4279 (295)	4279 (295)	4061 (280)	3916 (270)	3916 (270)	3771 (260)	3046 (210)	2538 (175)
Max. Flow	Continuous GPM (L/min)	17.2 (65)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
	Intermittent GPM (L/min)	21.2 (80)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)
Max. Inlet Pressure	Continuous PSI (bar)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)
	Intermittent PSI (bar)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)
Weight	Lbs (kg)	21.6 (9.8)	22 (10)	22.7 (10.3)	23.5 (10.7)	24.4 (11.1)	25.5 (11.6)	27.1 (12.3)	29 (13.2)	31.5 (14.3)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



All numbers given are nominal values and should be used for reference only.

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2 3 4 5 6 7 8

EBMSY - - - - - -

TYPICAL PORTS (D, M, S, P)

1	2	3	4	5	6	7	8
CODE	Disp.	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
80	E2	2-Ø13.5 Rhomb-Flange Ø106.4 Pilot Ø82.5x6.3	B Shaft Ø32 - Parallel Key 10x8x45	D G1/2 Manifold Mount 2xM10, G1/4	Blank Standard	00 No Paint	Blank Standard
100	E4	4-Ø13.5 Rhomb-Flange Ø106.4 Pilot Ø82.5 x 6.3	D Shaft Ø1" - Parallel Key 1/4"x1/4"x1"	M M22x1.5 Manifold Mount 2xM10, M14x1.5	R Opposite	Omit Black	F Free Running
125	F6	6-Ø13.5 Rhomb-Flange Ø106.4 Pilot Ø82.5 x 2.6	G Shaft Ø1-1/4" - Parallel Key 5/16"x5/16"x1-1/4"	S 7/8-14 O-Ring Manifold 2x3/8-16UNC, 7/16-20UNF			LS Low Speed
160	W	4-Ø13.5 Wheel-Flange Ø160 Pilot Ø125 x 8	F Shaft Ø1-1/4" - Splined Key 14-DP12/24	P 1/2-14 NPTF Manifold 2x3/8-16UNC, 7/16-20UNF			
200	E2B	2-Ø14.3 Rhomb-Flange Ø146.05 - Pilot Ø101.6 x 9.4	FD Long Shaft Ø1-1/4" - Splined Key 14-DP12/24				
250	SP	4-Ø11.5 Square-Flange Ø106.4 Pilot Ø82.5 x 6.3	SL Shaft Ø34.85" - Splined Key 6-34.85x 28.14x 8.64				
315			T1 Cone Shaft Ø35 - Parallel Key B6x6x20				
400			T3 Cone Shaft Ø1-1/4" - Parallel Key 5/16"x5/16"x1-1/4"				
475			S1 Shaft Ø1" - Splined Key SAE 6B				
			I Sub-Shaft Ø22 - Splined Key 13-DP16/32				

NOTES:

- From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... The informations of mounting flange, output shaft and ports are the same as EBMS series. The SP flange applies to shafts T1, D, B, F, G. If the specification is not in the table or you have specific requirements, please contact us.

2 3 4 5 6 7 8

EBMSYS - - - - - -

TYPICAL PORTS (DMSP) WITH CIRCULAR FLANGE

1	2	3	4	5	6	7	8
CODE	Disp.	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
80	D	4-Ø11 Circular-Flange Ø125 Pilot Ø100 x 6	Blank Short 12-DP12/24	D G1/2 Manifold Mount 2xM10, G1/4	Blank Standard	00 No Paint	Blank Standard
100	E	4-Ø13.5 Circular-Flange Ø127 Pilot Ø101.6 x 6.3		M M22x1.5 Manifold Mount 2xM10, M14x1.5	R Opposite	Omit Black	F Free Running
125				S 7/8-14 O-Ring Manifold 2x3/8-16UNC, 7/16-20UNF			LS Low Speed
160				P 1/2-14 NPTF Manifold 2x3/8-16UNC, 7/16-20UNF			
200							
250							
315							
400							
475							

NOTES:

- From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... The informations of mounting flange, output shaft and ports are the same as EBMS series. The SP flange applies to shafts T1, D, B, F, G. If the specification is not in the table or you have specific requirements, please contact us.



EBMSY ORDER INFORMATION



2 3 4 5 6 7 8
 EBMSY - - - - - -

ALTERNATIVE PORTS

(EE-D, EE-M, EE-S2, ED, DB, DU, ...)

1	2	3	4	5	6	7	8
CODE	Disp.	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
80	E2	2-Ø13.5 Rhomb-Flange Ø106.4 - Pilot Ø82.5x6.3	A Shaft Ø25 - Parallel Key 8x7x32	EE-D G1/2, G1/4	Blank Standard	00 No Paint	Blank Standard
100	E4	4-Ø13.5 Rhomb-Flange Ø106.4 - Pilot Ø82.5 x 6.3	B Shaft Ø32 - Parallel Key 10x8x45	EE-M 2M22x1.5, M14x1.5	R Opposite	Omit Black	F Free Run- ning
125	E6	6-Ø13.5 Rhomb-Flange Ø106.4 - Pilot Ø82.5 x 6.3	K Shaft Ø1" - Wood- ruff Key Ø1"x1/4"	EE-S2 7/8-14UNF O-Ring, 7/16- 20UNF			LS Low Speed
160	E2B	2-Ø14.3 Rhomb-Flange Ø146.05 - Pilot Ø101.6 x 9.4	G Shaft Ø1-1/4" - Parallel Key 5/16"x5/16"x1-1/4"	ED 1-1/16-12UN O-Ring, 7/16- 20UNF			
200			F Shaft Ø1-1/4" - Splined Key 14- DP12/24	DB G1/2, G1/4			
250	WE	4-Ø13.6 Wheel-Flange Ø147.6 - Pilot Ø107.95 x 6.4	FE Shaft Ø1-1/4" - Splined Key 14- DP12/24	DU G1/2, 7/16- 20UNF			
315			T4 Cone Shaft Ø1-1/4" - Parallel Key 5/16" x 5/16"x 1"	SB 7/8-14UNF O- Ring, G1/4			
400			S1 Shaft Ø1" - Splined Key SAE 6B	SU 7/8-14 UNF O-Ring, 7/16-20 UNF			
475			I Sub-Shaft Ø21.74 - Splined Key 13- DP16/32	M4 M22x1.5, M14x1.5			
				MU 1/2", 5/8" Cross- hole Manifold 3x3/8-16UNC, 7/16-20UNF			
				MM 1/2", 5/8" Cross- hole Manifold 3xM10, G1/4			
				G G1/2, G1/4			
				M2 M22x1.5, M14x1.5			
				S2 7/8-14UNF O-Ring, 7/16- 20UNF			

NOTES:

- When the table is used, please fill the code of left rows in the table and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports. The informations of mounting flange, output shaft and ports are the same as EBMS series. The SP flange applies to shafts T1, D, B, F, G. If the specification is not in the table or you have specific requirements, please contact us.



All numbers given are nominal values and should be used for reference only.

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EBMSY

EBMSY 80 - 4.92 in³/rev (80.6 cm³/rev)

		Max. Cont.							Max. Int.
		Pressure PSI (bar)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3263 (225)
Flow GPM (L/min)	4 (15)	Torque lbf•ft (N•m)	25.8 (35)	59 (80)	88.6 (120)	116.6 (158)	143.9 (195)	168.3 (228)	183.8 (249)
		Speed (rpm)	180	174	168	164	158	151	143
	8 (30)	Torque lbf•ft (N•m)	25.8 (35)	59 (80)	88.6 (120)	116.6 (158)	143.9 (195)	171.2 (232)	191.9 (260)
		Speed (rpm)	362	352	346	338	330	322	310
	10.5 (40)	Torque lbf•ft (N•m)	25.8 (35)	58.3 (79)	87.8 (119)	114.4 (155)	142.4 (193)	167.5 (227)	184.5 (250)
		Speed (rpm)	487	480	468	457	446	438	425
	13.2 (50)	Torque lbf•ft (N•m)	22.1 (30)	56.8 (77)	86.3 (117)	112.9 (153)	141.7 (192)	165.3 (224)	183 (248)
		Speed (rpm)	612	603	592	581	572	558	542
	15.8 (60)	Torque lbf•ft (N•m)	20.7 (28)	56.8 (77)	86.3 (117)	112.9 (153)	141.7 (192)	165.3 (224)	179.3 (243)
		Speed (rpm)	735	726	718	703	687	673	646
	17.2 (65)	Torque lbf•ft (N•m)	19.2 (26)	55.4 (75)	85.6 (116)	111.4 (151)	138.7 (188)	160.1 (217)	174.2 (236)
		Speed (rpm)	794	786	773	760	744	722	706
Max. Int.	21.2 (80)	Torque lbf•ft (N•m)	17.7 (24)	53.1 (72)	80.4 (109)	104.8 (142)	129.9 (176)	152 (206)	167.5 (227)
		Speed (rpm)	981	968	955	925	893	870	832

EBMSY 100 - 6.15 in³/rev (100.8 cm³/rev)

			Max. Cont.					Max. Int.	
Pressure PSI (bar)			508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3263 (225)
Flow GPM (L/min)	4 (15)	Torque lbf•ft (N•m)	35.4 (48)	70.1 (95)	110.7 (150)	147.6 (200)	184.5 (250)	208.1 (282)	228.8 (310)
		Speed (rpm)	146	144	139	135	130	120	105
	8 (30)	Torque lbf•ft (N•m)	33.2 (45)	69.4 (94)	107.7 (146)	146.1 (198)	184.5 (250)	214 (290)	233.9 (317)
		Speed (rpm)	291	289	278	274	269	258	242
	10.5 (40)	Torque lbf•ft (N•m)	31.7 (43)	65.7 (89)	104.8 (142)	144.6 (196)	183 (248)	212.5 (288)	233.2 (316)
		Speed (rpm)	387	384	374	359	350	335	320
	13.2 (50)	Torque lbf•ft (N•m)	29.5 (40)	64.9 (88)	99.6 (135)	143.2 (194)	182.3 (247)	211.1 (286)	232.5 (315)
		Speed (rpm)	486	483	473	462	450	430	420
	15.8 (60)	Torque lbf•ft (N•m)	27.3 (37)	64.9 (88)	97.4 (132)	136.5 (185)	180.1 (244)	208.9 (283)	230.3 (312)
		Speed (rpm)	588	584	574	562	550	538	520
	19.8 (75)	Torque lbf•ft (N•m)	25.8 (35)	59 (80)	95.9 (130)	132.8 (180)	177.1 (240)	205.9 (279)	228.8 (310)
		Speed (rpm)	740	735	720	705	696	676	653
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)	22.1 (30)	55.4 (75)	91.5 (124)	125.5 (170)	174.2 (236)	200 (271)	223.6 (303)
		Speed (rpm)	850	840	810	787	770	750	747

EBMSY 125 - 7.63 in³/rev (125 cm³/rev)

			Max. Cont.						Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3263 (225)
	4 (15)	Torque lbf•ft (N•m)	40.6 (55)	88.6 (120)	129.9 (176)	180.8 (245)	228 (309)	254.6 (345)	276.8 (375)
		Speed (rpm)	115	113	110	104	98	90	84
	8 (30)	Torque lbf•ft (N•m)	40.6 (55)	88.6 (120)	129.2 (175)	184.5 (250)	232.5 (315)	268.6 (364)	298.2 (404)
		Speed (rpm)	231	228	223	214	202	188	172
	10.5 (40)	Torque lbf•ft (N•m)	39.1 (53)	87.1 (118)	131.4 (178)	184.5 (250)	232.5 (315)	268.6 (364)	297.4 (403)
		Speed (rpm)	312	309	290	289	278	262	235
	13.2 (50)	Torque lbf•ft (N•m)	36.9 (50)	84.9 (115)	129.9 (176)	183 (248)	232.5 (315)	267.2 (362)	293 (397)
		Speed (rpm)	391	386	378	365	352	339	308
	15.8 (60)	Torque lbf•ft (N•m)	33.2 (45)	83.4 (113)	126.2 (171)	177.9 (241)	227.3 (308)	264.2 (358)	293 (397)
		Speed (rpm)	469	461	450	437	425	400	372
	19.8 (75)	Torque lbf•ft (N•m)	33.2 (45)	81.2 (110)	123.2 (167)	177.1 (240)	225.8 (306)	259.8 (352)	287.1 (389)
Speed (rpm)		588	574	560	544	526	505	481	
Max. Cont.	23.8 (90)	Torque lbf•ft (N•m)	29.5 (40)	77.5 (105)	119.6 (162)	174.9 (237)	222.1 (301)	253.1 (343)	279 (378)
Max. Int.		Speed (rpm)	710	696	680	661	646	628	610

EBMSY

EBMSY 160 - 9.40 in³/rev (154 cm³/rev)

		Max. Cont.							Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	3045 (210)	3263 (225)
	4 (15)	Torque lbf•ft (N•m)	51.7 (70)	104.8 (142)	158.7 (215)	219.9 (298)	274.5 (372)	321 (435)	351.3 (476)
		Speed (rpm)	93	91	89	85	80	76	58
	8 (30)	Torque lbf•ft (N•m)	53.9 (73)	111.4 (151)	166.1 (225)	230.3 (312)	281.9 (382)	336.5 (456)	363.1 (492)
		Speed (rpm)	189	187	181	176	170	162	153
	10.5 (40)	Torque lbf•ft (N•m)	55.4 (75)	112.2 (152)	168.3 (228)	231.7 (314)	282.7 (383)	335.1 (454)	360.1 (488)
		Speed (rpm)	252	250	246	239	234	228	212
	13.2 (50)	Torque lbf•ft (N•m)	51.7 (70)	109.2 (148)	166.1 (225)	225.1 (305)	274.5 (372)	328.4 (445)	354.2 (480)
		Speed (rpm)	313	310	306	298	293	285	272
	15.8 (60)	Torque lbf•ft (N•m)	50.2 (68)	105.5 (143)	160.9 (218)	218.4 (296)	273.1 (370)	326.2 (442)	354.2 (480)
		Speed (rpm)	378	376	370	362	353	346	332
	19.8 (75)	Torque lbf•ft (N•m)	45.8 (62)	103.3 (140)	155.7 (211)	214.8 (291)	269.4 (365)	324 (439)	350.6 (475)
Speed (rpm)		475	469	461	450	441	432	414	
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)	43.5 (59)	96.7 (131)	149.1 (202)	211.1 (286)	263.5 (357)	313.7 (425)	339.5 (460)
		Speed (rpm)	567	561	554	543	532	520	509

EBMSY 200 - 11.84 in³/rev (194 cm³/rev)

		Max. Cont.							Max. Int.
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	3045 (210)	3263 (225)	
Flow GPM (L/min)	4 (15)	Torque lbf•ft (N•m)	64.2 (87)	132.1 (179)	201.5 (273)	273.8 (371)	347.6 (471)	414.8 (562)	450.2 (610)
		Speed (rpm)	74	73	71	68	64	60	48
	8 (30)	Torque lbf•ft (N•m)	67.2 (91)	140.2 (190)	212.5 (288)	284.9 (386)	360.9 (489)	422.1 (572)	456.1 (618)
		Speed (rpm)	150	148	143	140	134	128	119
	10.5 (40)	Torque lbf•ft (N•m)	69.4 (94)	142.4 (193)	218.4 (296)	290.8 (394)	367.5 (498)	431 (584)	476 (645)
		Speed (rpm)	198	195	192	188	183	178	167
	13.2 (50)	Torque lbf•ft (N•m)	66.4 (90)	141 (191)	215.5 (292)	287.1 (389)	363.8 (493)	428 (580)	467.9 (634)
		Speed (rpm)	248	246	241	236	230	223	212
	15.8 (60)	Torque lbf•ft (N•m)	62.7 (85)	136.5 (185)	205.9 (279)	281.9 (382)	356.5 (483)	424.4 (575)	459 (622)
		Speed (rpm)	300	295	288	281	273	263	251
	19.8 (75)	Torque lbf•ft (N•m)	57.6 (78)	129.9 (176)	200 (271)	273.1 (370)	348.3 (472)	414 (561)	450.2 (610)
		Speed (rpm)	374	370	364	360	352	340	331
23.8 (90)	Torque lbf•ft (N•m)	50.2 (68)	120.3 (163)	195.6 (265)	266.4 (361)	336.5 (456)	402.2 (545)	442.1 (599)	
	Speed (rpm)	443	440	435	428	424	413	400	

EBMSY 250 - 14.83 in³/rev (243 cm³/rev)

		Max. Cont.							Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2900 (200)	3263 (225)
	4 (15)	Torque lbf•ft (N•m)	81.2 (110)	170.5 (231)	259 (351)	341 (462)	431.7 (585)	502.6 (681)	574.2 (778)
		Speed (rpm)	59	58	56	53	50	46	35
	8 (30)	Torque lbf•ft (N•m)	85.6 (116)	174.2 (236)	264.9 (359)	350.6 (475)	440.6 (597)	516.6 (700)	583 (790)
		Speed (rpm)	119	117	114	108	102	92	80
	10.5 (40)	Torque lbf•ft (N•m)	87.1 (118)	177.9 (241)	267.9 (363)	354.2 (480)	442.1 (599)	521 (706)	587.4 (796)
		Speed (rpm)	162	159	156	150	143	134	121
	13.2 (50)	Torque lbf•ft (N•m)	81.9 (111)	172.7 (234)	259.8 (352)	348.3 (472)	436.2 (591)	511.4 (693)	581.5 (788)
		Speed (rpm)	203	201	197	191	182	173	158
	15.8 (60)	Torque lbf•ft (N•m)	78.2 (106)	165.3 (224)	254.6 (345)	341 (462)	429.5 (582)	505.5 (685)	569.7 (772)
		Speed (rpm)	244	242	237	230	220	208	194
	19.8 (75)	Torque lbf•ft (N•m)	74.5 (101)	157.9 (214)	250.9 (340)	335.1 (454)	420.7 (570)	494.5 (670)	560.9 (760)
Speed (rpm)		303	299	294	285	272	260	244	
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)	68.6 (93)	154.2 (209)	247.2 (335)	329.9 (447)	412.5 (559)	484.9 (657)	552.8 (749)
		Speed (rpm)	363	359	354	348	340	328	303

EBMSY 315 - 18.98 in³/rev (311 cm³/rev)

		Max. Cont.						Max. Int.	
		Pressure PSI (bar)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2900 (200)	3263 (225)
Flow GPM (L/min)	4 (15)	Torque lbf•ft (N•m)	109.2 (148)	224.4 (304)	336.5 (456)	452.4 (613)	562.4 (762)	648.7 (879)	721.8 (978)
		Speed (rpm)	48	47	45	43	41	39	27
	8 (30)	Torque lbf•ft (N•m)	114.4 (155)	231.7 (314)	343.2 (465)	468.6 (635)	574.2 (778)	652.4 (884)	729.1 (988)
		Speed (rpm)	95	93	91	89	86	82	67
	10.5 (40)	Torque lbf•ft (N•m)	118.1 (160)	236.9 (321)	353.5 (479)	479.7 (650)	587.4 (796)	668.6 (906)	735.8 (997)
		Speed (rpm)	127	125	121	117	115	109	91
	13.2 (50)	Torque lbf•ft (N•m)	114.4 (155)	231.7 (314)	343.2 (465)	470.8 (638)	575.6 (780)	653.9 (886)	729.1 (988)
		Speed (rpm)	159	157	153	149	145	142	128
	15.8 (60)	Torque lbf•ft (N•m)	111.4 (151)	225.8 (306)	334.3 (453)	457.6 (620)	564.6 (765)	653.9 (886)	720.3 (976)
		Speed (rpm)	187	185	181	176	169	157	143
	19.8 (75)	Torque lbf•ft (N•m)	107.7 (146)	221.4 (300)	328.4 (445)	452.4 (613)	557.2 (755)	645.8 (875)	712.9 (966)
		Speed (rpm)	238	236	232	227	224	220	196
Max. Cont.	23.8 (90)	Torque lbf•ft (N•m)	99.6 (135)	209.6 (284)	321.8 (436)	443.5 (601)	546.1 (740)	636.9 (863)	702.6 (952)
		Speed (rpm)	286	283	278	272	265	257	232
Max. Int.									

EBMSY

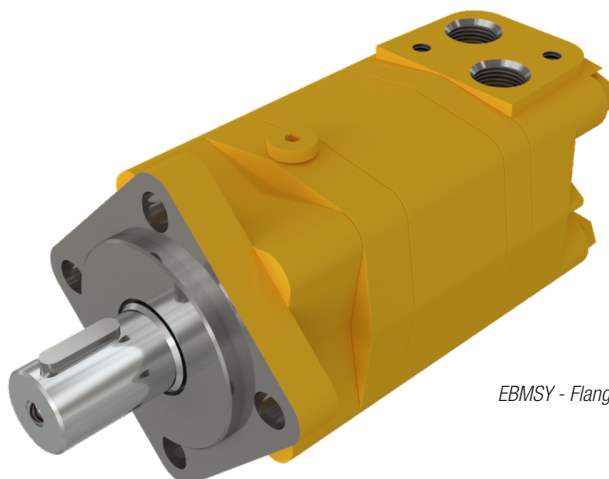
EBMSY 400 - 24.04 in³/rev (394 cm³/rev)

							Max. Cont.	Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2320 (160)	2538 (175)
	4 (15)	Torque lbf•ft (N•m)	137.3 (186)	279.7 (379)	426.6 (578)	574.9 (779)	661.2 (896)	715.1 (969)
		Speed (rpm)	37	36	35	33	31	29
	8 (30)	Torque lbf•ft (N•m)	140.2 (190)	286.3 (388)	435.4 (590)	583.8 (791)	667.9 (905)	731.4 (991)
		Speed (rpm)	75	73	71	68	65	61
	10.5 (40)	Torque lbf•ft (N•m)	143.9 (195)	290.8 (394)	439.8 (596)	588.2 (797)	673.1 (912)	736.5 (998)
		Speed (rpm)	99	97	95	93	90	85
	13.2 (50)	Torque lbf•ft (N•m)	141 (191)	286.3 (388)	433.2 (587)	579.3 (785)	667.2 (904)	725.5 (983)
		Speed (rpm)	125	123	118	114	109	102
	15.8 (60)	Torque lbf•ft (N•m)	137.3 (186)	286.3 (388)	433.2 (587)	579.3 (785)	667.2 (904)	725.5 (983)
		Speed (rpm)	149	146	142	137	131	122
	19.8 (75)	Torque lbf•ft (N•m)	133.6 (181)	274.5 (372)	425.1 (576)	568.3 (770)	657.6 (891)	718.1 (973)
Speed (rpm)		187	183	177	171	164	153	
23.8 (90)	Torque lbf•ft (N•m)	129.9 (176)	270.8 (367)	421.4 (571)	565.3 (766)	651.7 (883)	712.2 (965)	
	Speed (rpm)	226	221	214	208	199	183	



EBMSY 475 - 28.99 in³/rev (475 cm³/rev)

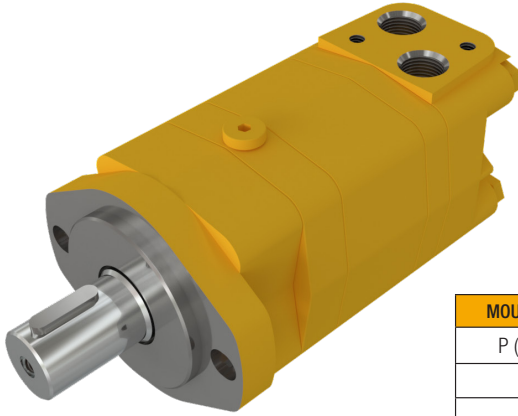
		Max. Cont.					Max. Int.	
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2175 (150)		
Flow GPM (L/min)	4 (15)	Torque lbf•ft (N•m)	160.9 (218)	324 (439)	487.8 (661)	658.3 (892)	734.3 (995)	
		Speed (rpm)	30	29	28	27	25	
	8 (30)	Torque lbf•ft (N•m)	164.6 (223)	332.1 (450)	498.9 (676)	671.6 (910)	739.5 (1002)	
		Speed (rpm)	61	60	58	56	53	
	10.5 (40)	Torque lbf•ft (N•m)	168.3 (228)	340.2 (461)	508.5 (689)	684.1 (927)	750.5 (1017)	
		Speed (rpm)	82	80	77	74	68	
	13.2 (50)	Torque lbf•ft (N•m)	165.3 (224)	336.5 (456)	503.3 (682)	679 (920)	743.9 (1008)	
		Speed (rpm)	103	101	97	92	86	
	15.8 (60)	Torque lbf•ft (N•m)	162.4 (220)	332.8 (451)	499.6 (677)	673.8 (913)	736.5 (998)	
		Speed (rpm)	123	121	118	112	105	
	19.8 (75)	Torque lbf•ft (N•m)	156.5 (212)	326.9 (443)	490 (664)	664.9 (901)	723.2 (980)	
		Speed (rpm)	155	153	147	140	132	
Max. Cont.	23.8 (90)	Torque lbf•ft (N•m)	144.6 (196)	310.7 (421)	474.5 (643)	647.2 (877)	707.7 (959)	
Max. Int.		Speed (rpm)	186	184	178	170	157	



EBMSY - Flange E4

DIMENSIONS AND MOUNTING

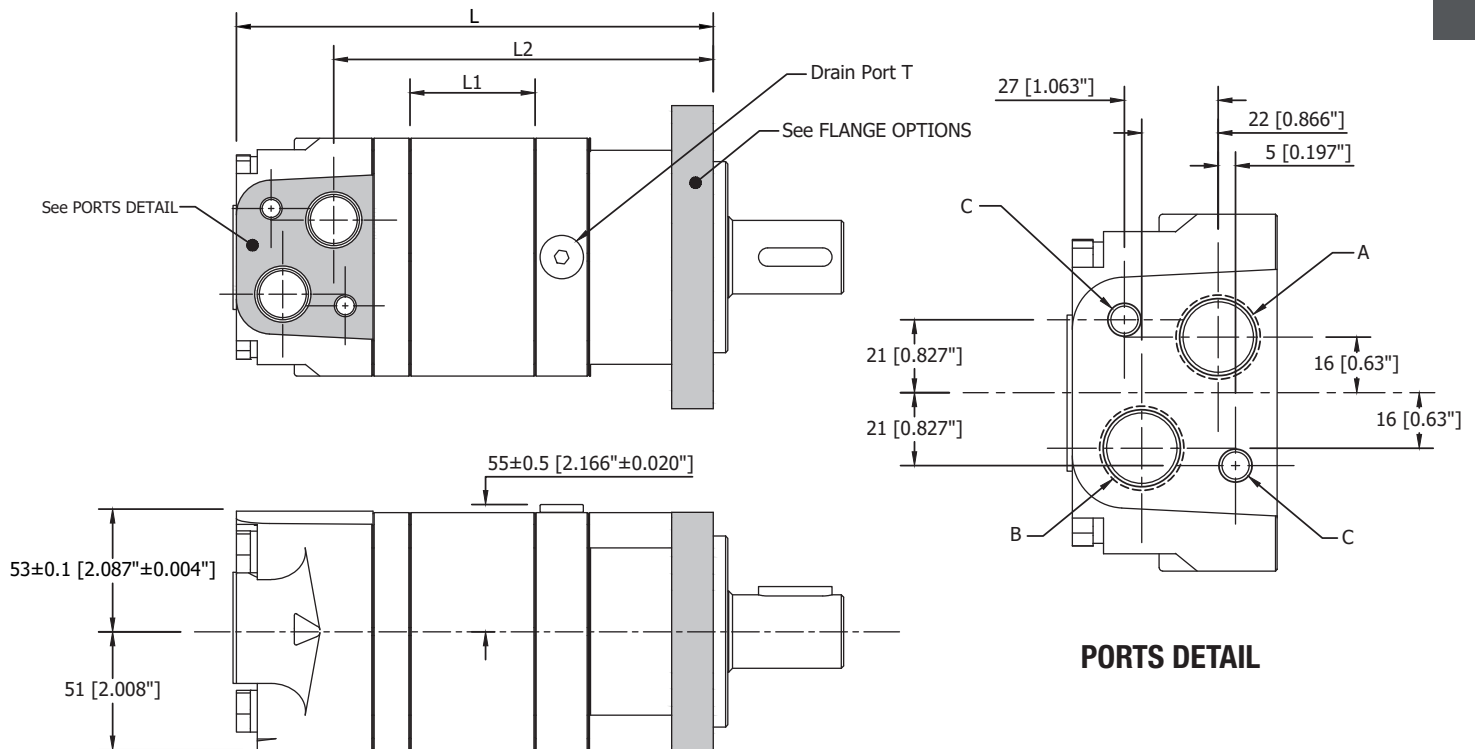
TYPICAL PORTS (D, M, S, P)



AVAILABLE FLANGE:
E2 - E4 - F6 - E2B - SP - W

MOUNTING	PORTS CODE (Depth mm)			
	D	M	S	P
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)
C	2x M10 (13)	2x M10 (13)	2x 3/8-16UNC (13)	2x 3/8-16UNC (13)

EBMSY



EBMSY BODY DIMENSIONS

MODEL	L	L1	L2
EBMSY-80	170 (6.693")	16 (0.63")	126.5 (4.98")
EBMSY-100	174 (6.85")	20 (0.787")	130.5 (5.138")
EBMSY-125	179 (7.047")	25 (0.984")	135.5 (5.335")
EBMSY-160	181 (7.126")	27 (1.063")	137.5 (5.413")
EBMSY-200	188 (7.402")	34 (1.339")	144.5 (5.689")
EBMSY-250	196 (7.717")	42 (1.654")	152.5 (6.004")
EBMSY-315	208 (8.189")	54 (2.126")	164.5 (6.476")
EBMSY-400	223 (8.78")	69 (2.717")	179.5 (7.067")
EBMSY-475	237 (9.331")	83 (3.268")	193.5 (7.618")

EBMSY BODY DIMENSIONS WITH FLANGE W

MODEL	L	L1	L2
EBMSY-80-W	132.5 (5.217")	16 (0.63")	89 (3.504")
EBMSY-100-W	136.5 (5.374")	20 (0.787")	93 (3.661")
EBMSY-125-W	141.5 (5.571")	25 (0.984")	98 (3.858")
EBMSY-160-W	143.5 (5.65")	27 (1.063")	100 (3.937")
EBMSY-200-W	150.5 (5.925")	34 (1.339")	107 (4.213")
EBMSY-250-W	158.5 (6.24")	42 (1.654")	115 (4.528")
EBMSY-315-W	170.5 (6.713")	54 (2.126")	127 (5")
EBMSY-400-W	185.5 (7.303")	69 (2.717")	142 (5.591")
EBMSY-475-W	199.5 (7.854")	83 (3.268")	156 (6.142")

Note:

If the mounting SP is used, add 12mm to dimensions L and L2

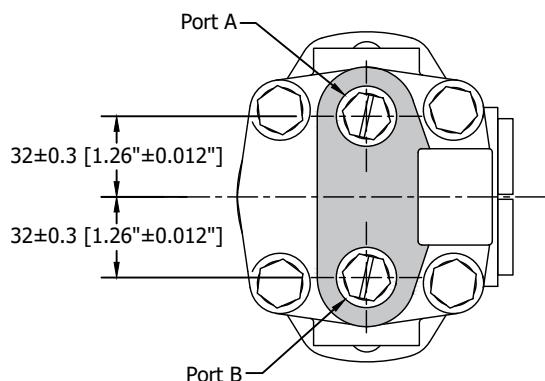


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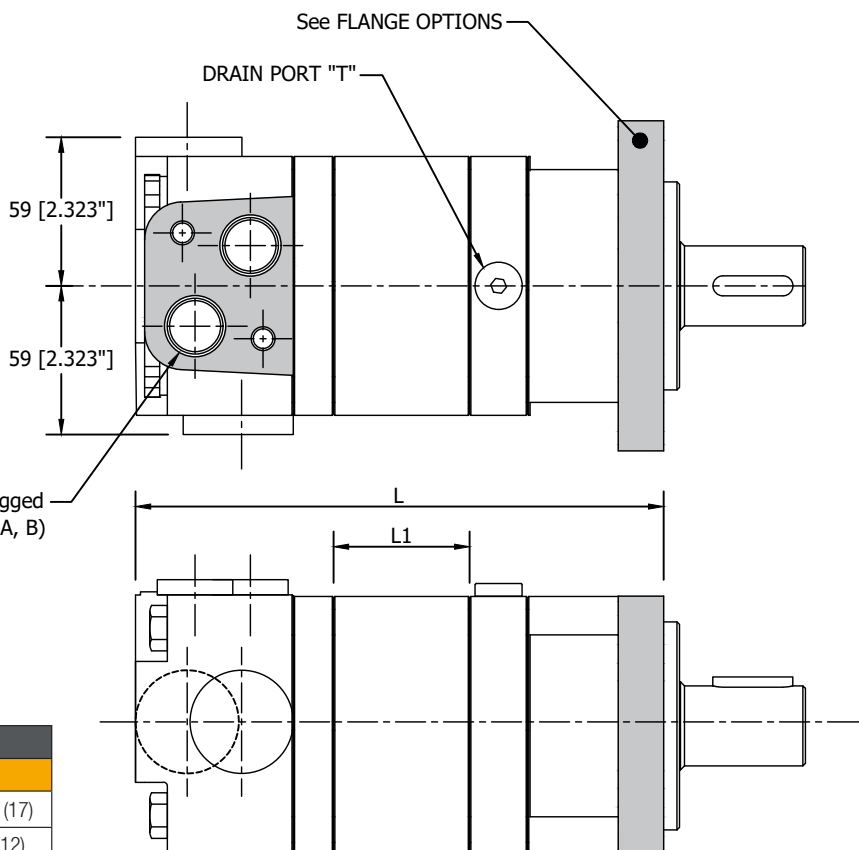
DIMENSIONS AND MOUNTING END PORTS (EE-D, EE-M2, EE-S2)

EBMSY



**AVAILABLE FLANGE:
E2 - E4 - E6 - E2B - WE**

MOUNTING	PORTS CODE (Depth mm)		
	EE-D	EE-M2	EE-S2
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)



EBMSY BODY END PORTS DIMENSIONS

MODEL	L	L1
EBMSY-80	176 (6.929")	16 (0.63")
EBMSY-100	180 (7.087")	20 (0.787")
EBMSY-125	185 (7.283")	25 (0.984")
EBMSY-160	187 (7.362")	27 (1.063")
EBMSY-200	194 (7.638")	34 (1.339")
EBMSY-250	202 (7.953")	42 (1.654")
EBMSY-315	214 (8.425")	54 (2.126")
EBMSY-400	229 (9.016")	69 (2.717")
EBMSY-475	243 (9.567")	83 (3.268")

EBMSY BODY END PORTS DIMENSIONS WITH FLANGE WE

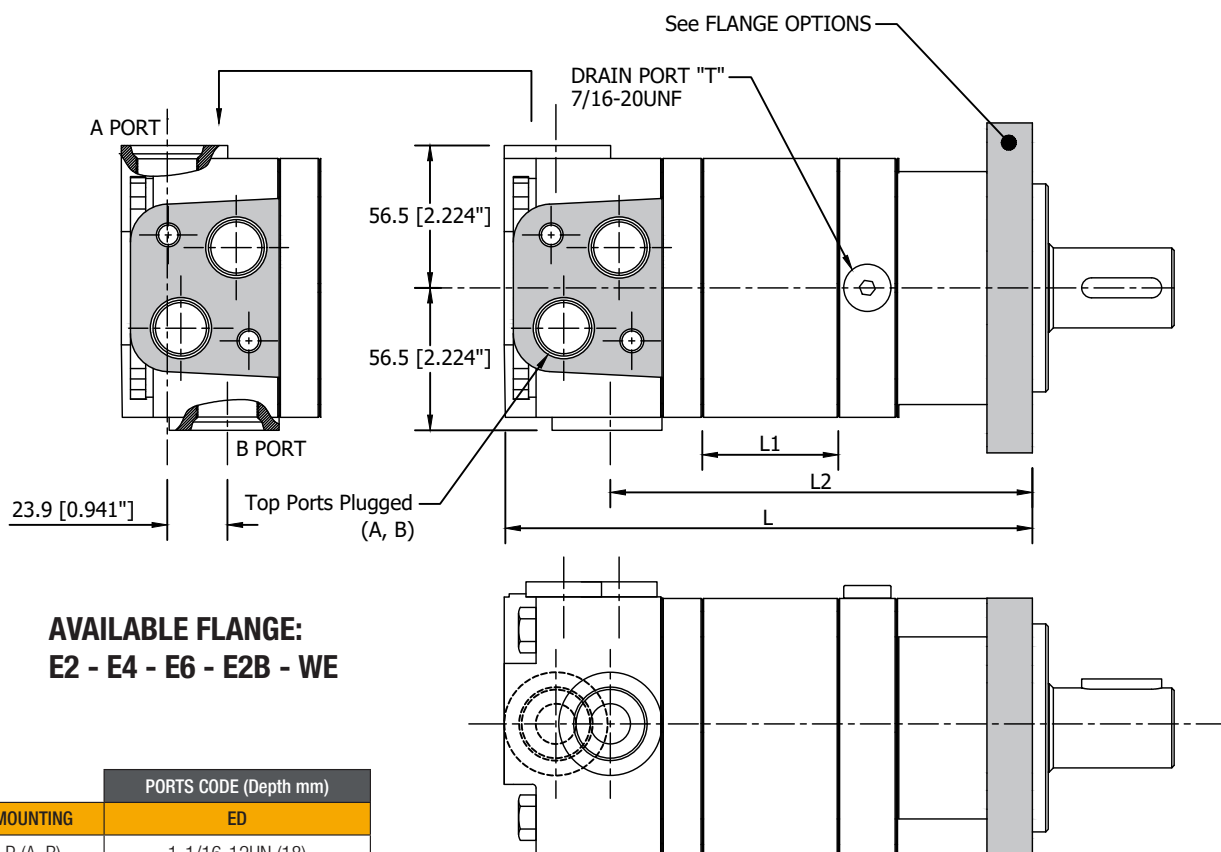
MODEL	L	L1
EBMSY-80-WE	148 (5.827")	16 (0.63")
EBMSY-100-WE	152 (5.984")	20 (0.787")
EBMSY-125-WE	157 (6.181")	25 (0.984")
EBMSY-160-WE	159 (6.26")	27 (1.063")
EBMSY-200-WE	166 (6.535")	34 (1.339")
EBMSY-250-WE	174 (6.85")	42 (1.654")
EBMSY-315-WE	186 (7.323")	54 (2.126")
EBMSY-400-WE	201 (7.913")	69 (2.717")
EBMSY-475-WE	215 (8.465")	83 (3.268")



DIMENSIONS AND MOUNTING

ED 1-1/16-12UN O-RING 180°

APART PORTS (ED)



AVAILABLE FLANGE:
E2 - E4 - E6 - E2B - WE

MOUNTING	PORTS CODE (Depth mm)
	ED
P (A, B)	1-1/16-12UN (18)
T	7/16-20UNF (12)

EBMSY BODY 180° PORTS DIMENSIONS

MODEL	L	L1	L2
EBMSY-80	176 (6.929")	16 (0.63")	130 (5.118")
EBMSY-100	180 (7.087")	20 (0.787")	134 (5.276")
EBMSY-125	185 (7.283")	25 (0.984")	139 (5.472")
EBMSY-160	187 (7.362")	27 (1.063")	141 (5.551")
EBMSY-200	194 (7.638")	34 (1.339")	148 (5.827")
EBMSY-250	202 (7.953")	42 (1.654")	156 (6.142")
EBMSY-315	214 (8.425")	54 (2.126")	168 (6.614")
EBMSY-400	229 (9.016")	69 (2.717")	183 (7.205")
EBMSY-475	243 (9.567")	83 (3.268")	197 (7.756")

EBMSY BODY 180° PORTS DIMENSIONS WITH FLANGE WE

MODEL	L	L1	L2
EBMSY-80-WE	148 (5.827")	16 (0.63")	102 (4.016")
EBMSY-100-WE	152 (5.984")	20 (0.787")	106 (4.173")
EBMSY-125-WE	157 (6.181")	25 (0.984")	111 (4.37")
EBMSY-160-WE	159 (6.26")	27 (1.063")	113 (4.449")
EBMSY-200-WE	166 (6.535")	34 (1.339")	119 (4.685")
EBMSY-250-WE	178 (7.008")	42 (1.654")	127 (5")
EBMSY-315-WE	190 (7.48")	54 (2.126")	139 (5.472")
EBMSY-400-WE	205 (8.071")	69 (2.717")	154 (6.063")
EBMSY-475-WE	219 (8.622")	83 (3.268")	168 (6.614")

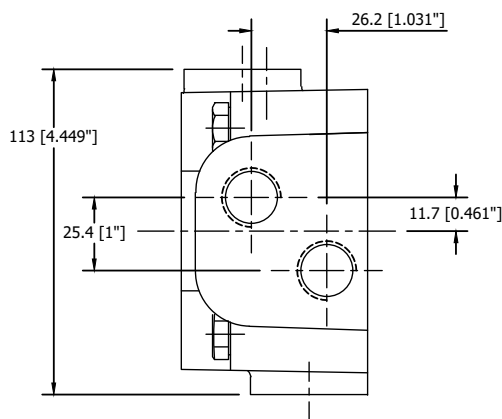
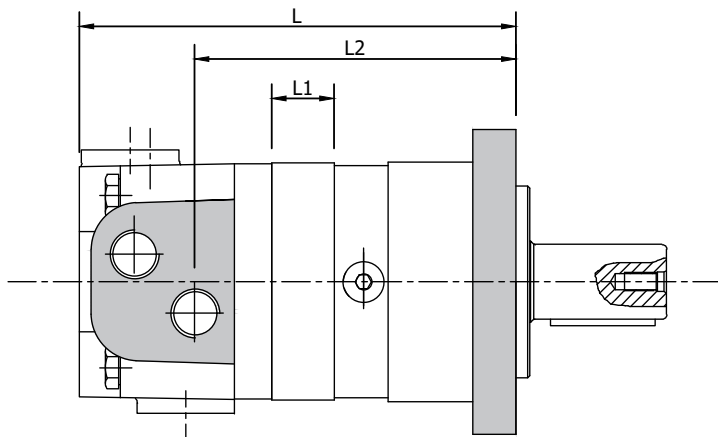


DIMENSIONS AND MOUNTING

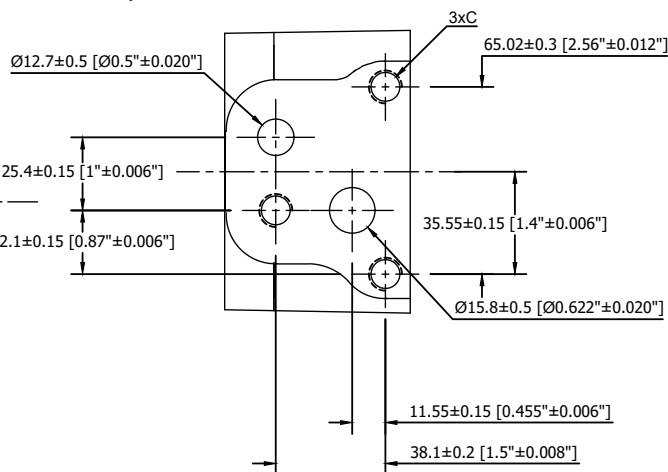
ALTERNATIVE PORTS

(DB, DU, SU, SB, M4, MU, MM)

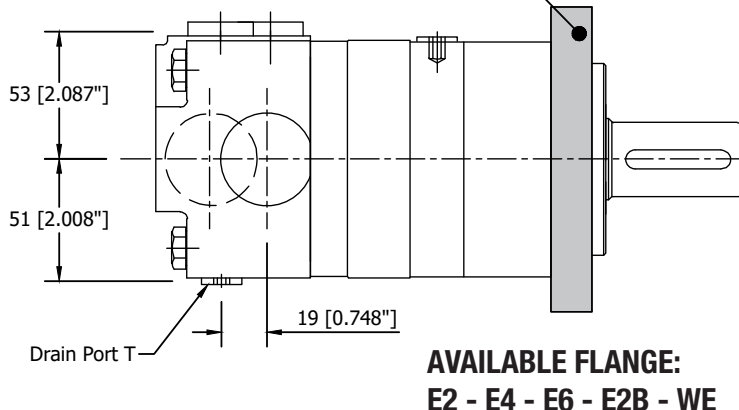
DB, DU, SU, SB, M4



MU, MM



See FLANGE OPTIONS



MOUNTING	PORTS CODE (Depth mm)						
	DB	DU	SU	SB	M4	MU	MM
P (A, B)	G 1/2 (15)	G 1/2 (15)	7/8-14 O-Ring (17)	7/8-14 O-Ring (17)	M22 x 1.5 (15)	Ø12.7, Ø15.8	Ø12.7, Ø15.8
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	G1/4 (12)
C			---			3/8-16UNC	M10

EBMSY BODY ALT. PORTS DIMENSIONS

MODEL	L	L1	L2
EBMSY-80	177 (6.969")	16 (0.63")	126.5 (4.98")
EBMSY-100	181 (7.126")	20 (0.787")	130.5 (5.138")
EBMSY-125	186 (7.323")	25 (0.984")	135.5 (5.335")
EBMSY-160	188 (7.402")	27 (1.063")	137.5 (5.413")
EBMSY-200	195 (7.677")	34 (1.339")	144.5 (5.689")
EBMSY-250	203 (7.992")	42 (1.654")	152.5 (6.004")
EBMSY-315	215 (8.465")	54 (2.126")	164.5 (6.476")
EBMSY-400	230 (9.055")	69 (2.717")	179.5 (7.067")
EBMSY-475	244 (9.606")	83 (3.268")	193.5 (7.618")

EBMSY BODY ALT. PORTS DIMENSIONS WITH FLANGE WE

MODEL	L	L1	L2
EBMSY-80-WE	148.5 (5.846")	16 (0.63")	98 (3.858")
EBMSY-100-WE	152.5 (6.004")	20 (0.787")	102 (4.016")
EBMSY-125-WE	157.5 (6.201")	25 (0.984")	107 (4.213")
EBMSY-160-WE	159.5 (6.28")	27 (1.063")	109 (4.291")
EBMSY-200-WE	166.5 (6.555")	34 (1.339")	116 (4.567")
EBMSY-250-WE	174.5 (6.87")	42 (1.654")	124 (4.882")
EBMSY-315-WE	186.5 (7.343")	54 (2.126")	136 (5.354")
EBMSY-400-WE	201.5 (7.933")	69 (2.717")	151 (5.945")
EBMSY-475-WE	215.5 (8.484")	83 (3.268")	165 (6.496")

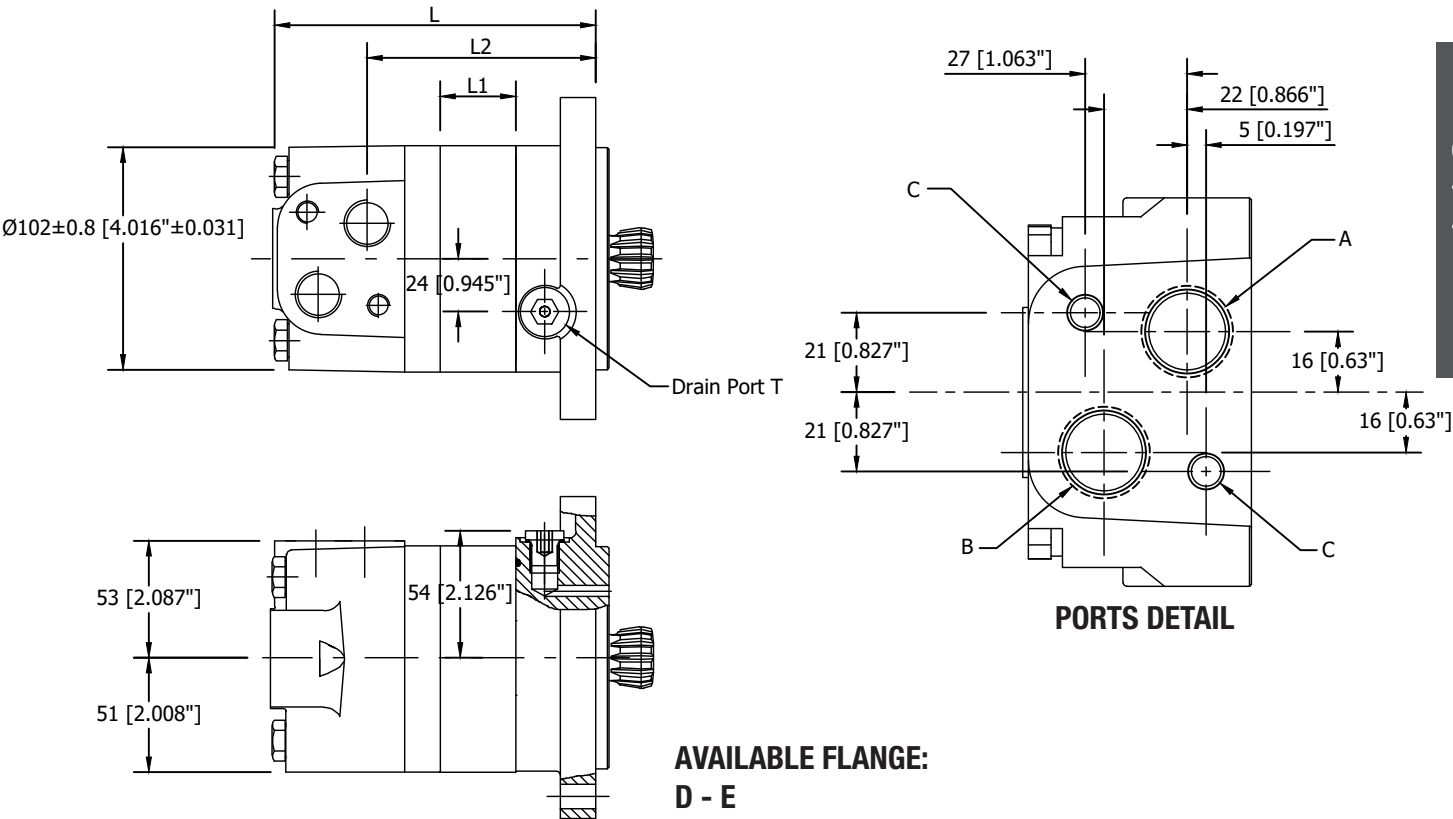
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DIMENSIONS AND MOUNTING

CIRCULAR FLANGE

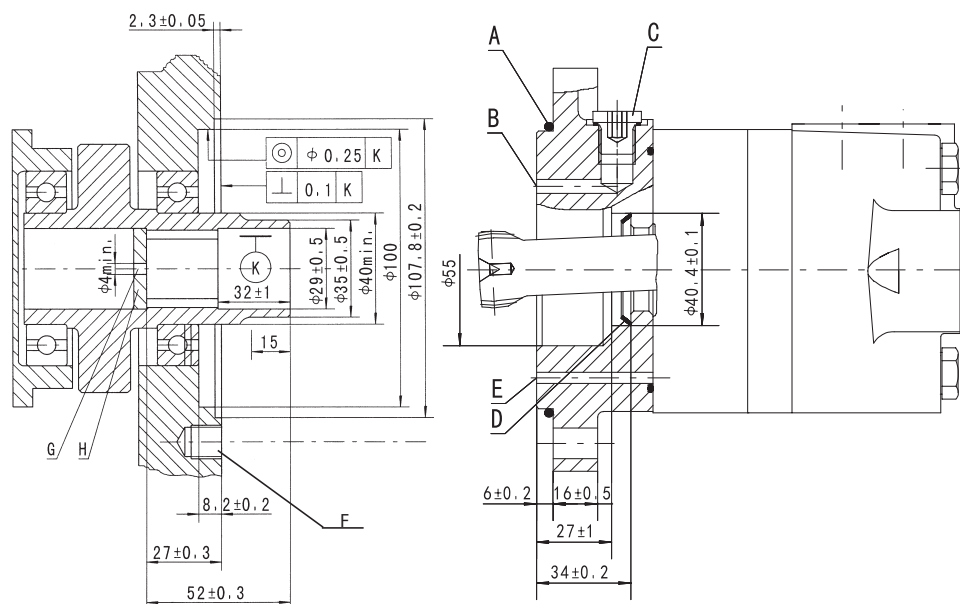
PORTS (D,M,S,P)



PORTS CODE (Depth mm)				
MOUNTING	D	M	S	P
P (A, B)	G 1/2 (15)	M22 x 1.5 (15)	7/8-14 O-Ring (17)	1/2-14 NPTF (15)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)
C	2x M10 (13)	2x M10 (13)	2x 3/8-16UNC (13)	2x 3/8-16UNC (13)

EBMSYS BODY DIMENSIONS

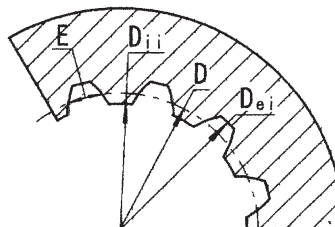
MODEL	L	L1	L2
EBMSY-80	129 (5.079")	16 (0.63")	85 (3.346")
EBMSY-100	133 (5.236")	20 (0.787")	89 (3.504")
EBMSY-125	138 (5.433")	25 (0.984")	94 (3.701")
EBMSY-160	140 (5.512")	27 (1.063")	96 (3.78")
EBMSY-200	147 (5.787")	34 (1.339")	103 (4.055")
EBMSY-250	155 (6.102")	42 (1.654")	111 (4.37")
EBMSY-315	167 (6.575")	54 (2.126")	123 (4.843")
EBMSY-400	182 (7.165")	69 (2.717")	138 (5.433")
EBMSY-475	196 (7.717")	83 (3.268")	152 (5.984")



- A: O-Ring 100 x 3
- B: External Drain Channel
- C: Drain Connection G1/4; 12mm Deep
- D: Conical Seal Ring
- E: Internal Drain Channel
- F: M10; Min. 15mm Deep
- G: Oil Circulation Hole
- H: Hardened Stop Plate

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

FILLET ROOT SIDE FIT		mm
Number of Teeth	Z	12
Diametral Pitch	DP	12/24
Pressure Angle	α_0	30°
Pitch Diameter	D	Ø25.4
Major Diameter	D_{ei}	Ø28 $\begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
Minor Diameter	D_{ii}	Ø23 $\begin{smallmatrix} +0.033 \\ 0 \end{smallmatrix}$
Space Width (Circular)	E	4.308 ± 0.02



HARDENING SPECIFICATION : HRC 62 ± 2
EFFECTIVE CASE DEPTH: 0.7 ± 0.2mm

Technical drawing of a mechanical part, showing side and front views with dimensions in inches and millimeters.

Side View Dimensions:

- Overall width: 16 [0.63"]
- Distance from left edge to centerline: 6±0.2 [0.236"±0.008"]
- Distance from centerline to right edge: 23 [0.906"]
- Distance from left edge to start of thread: 25.8±0.5 [1.016"±0.020"]
- Thread length: 0.000" [3.937"-0.002"]
- Thread specification: Ø100-0.054 [3.937"-0.002"]

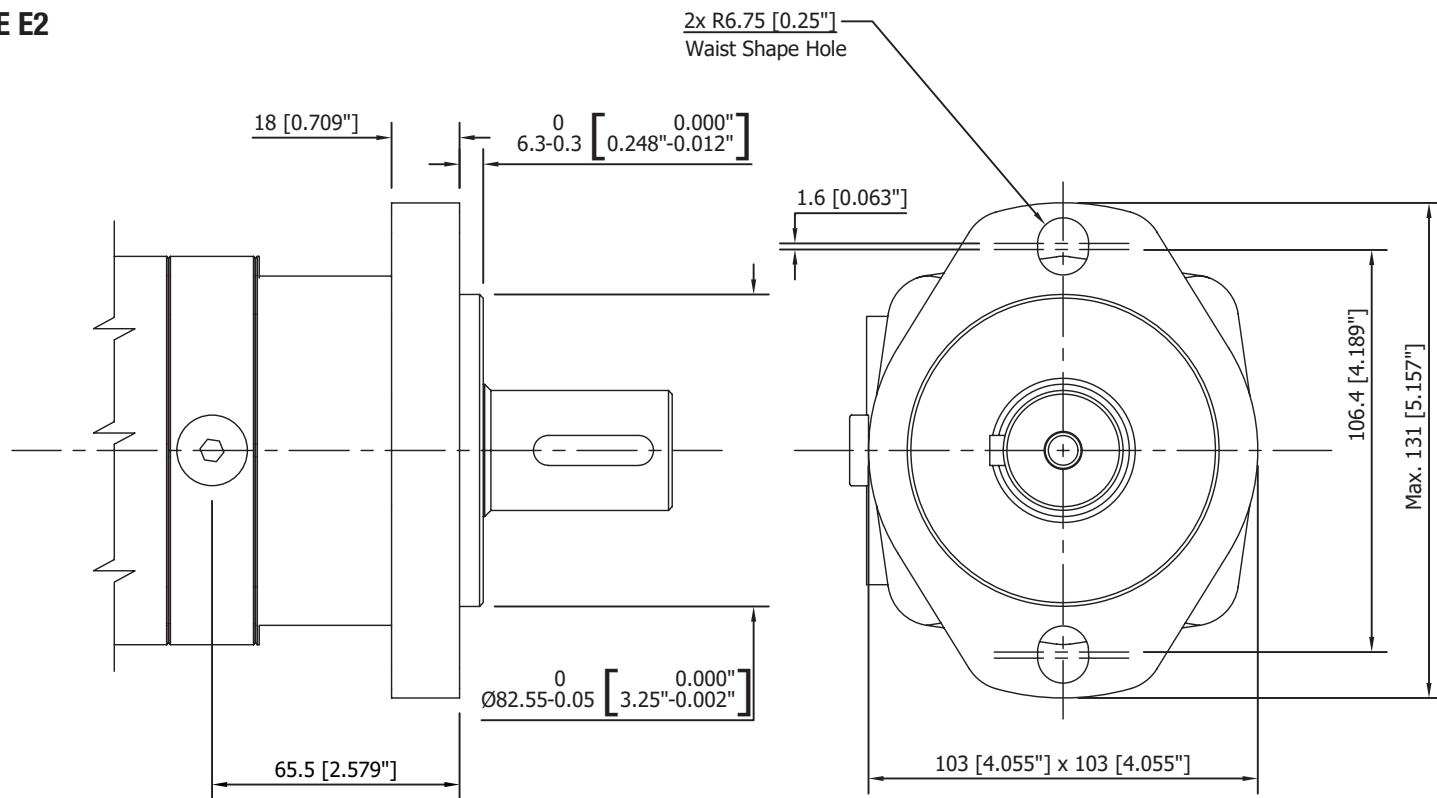
Front View Dimensions:

- Outer diameter: Ø145±0.815 [5.709"±0.032"]
- Inner diameter: Ø125±0.3 [4.921"±0.012"]
- Distance between mounting holes: 38 [1.496"]
- Distance between mounting holes: 30 [1.181"]
- Mounting hole diameter: 4x Ø11 [Ø0.433"]
- Central hole diameter: Ø4 [Ø0.157"]
- Distance from center to mounting hole: 24 [0.945"]
- Inner hole diameter: Ø5 [Ø0.197"]

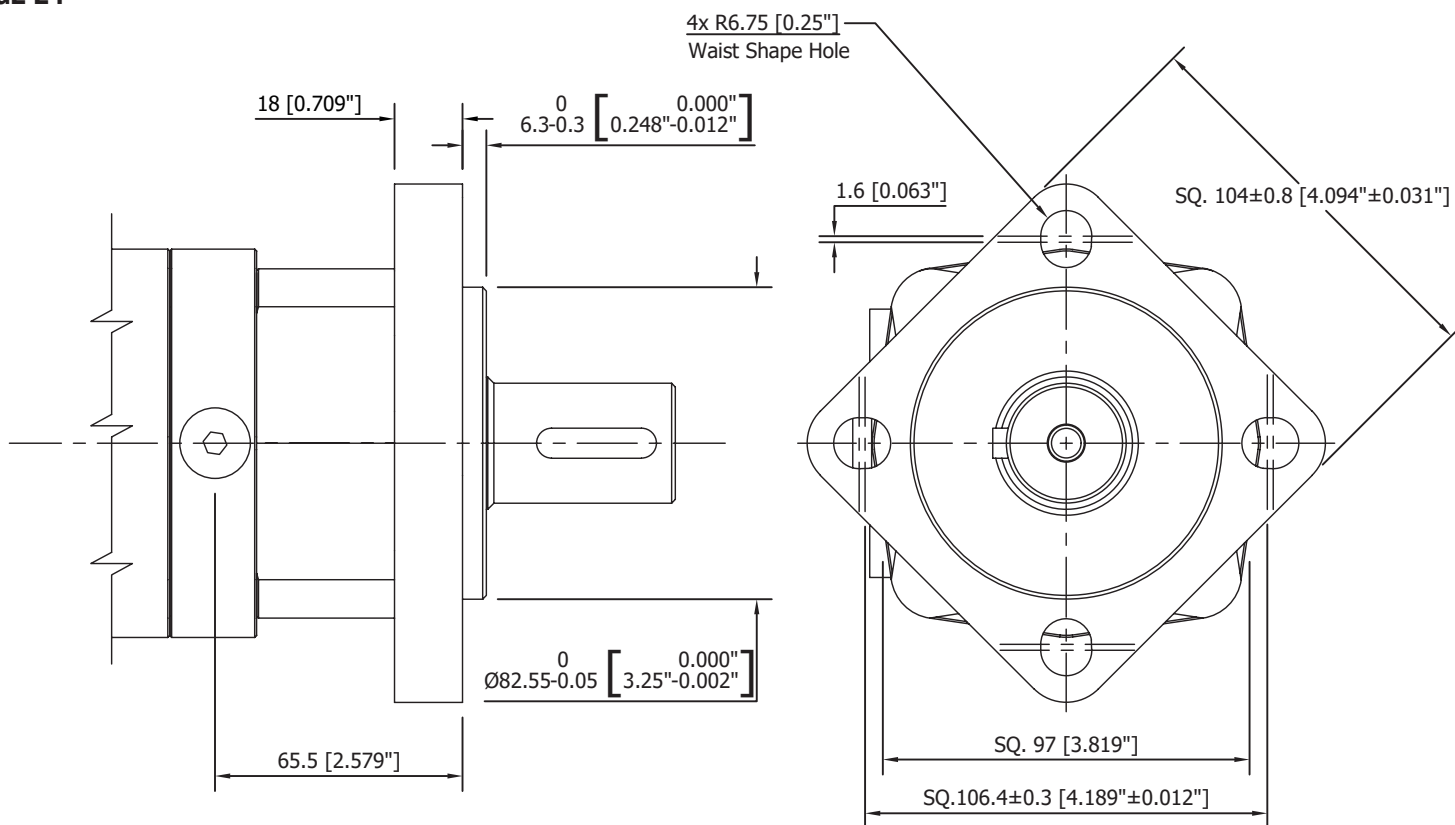
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FLANGE E2

EBMSY

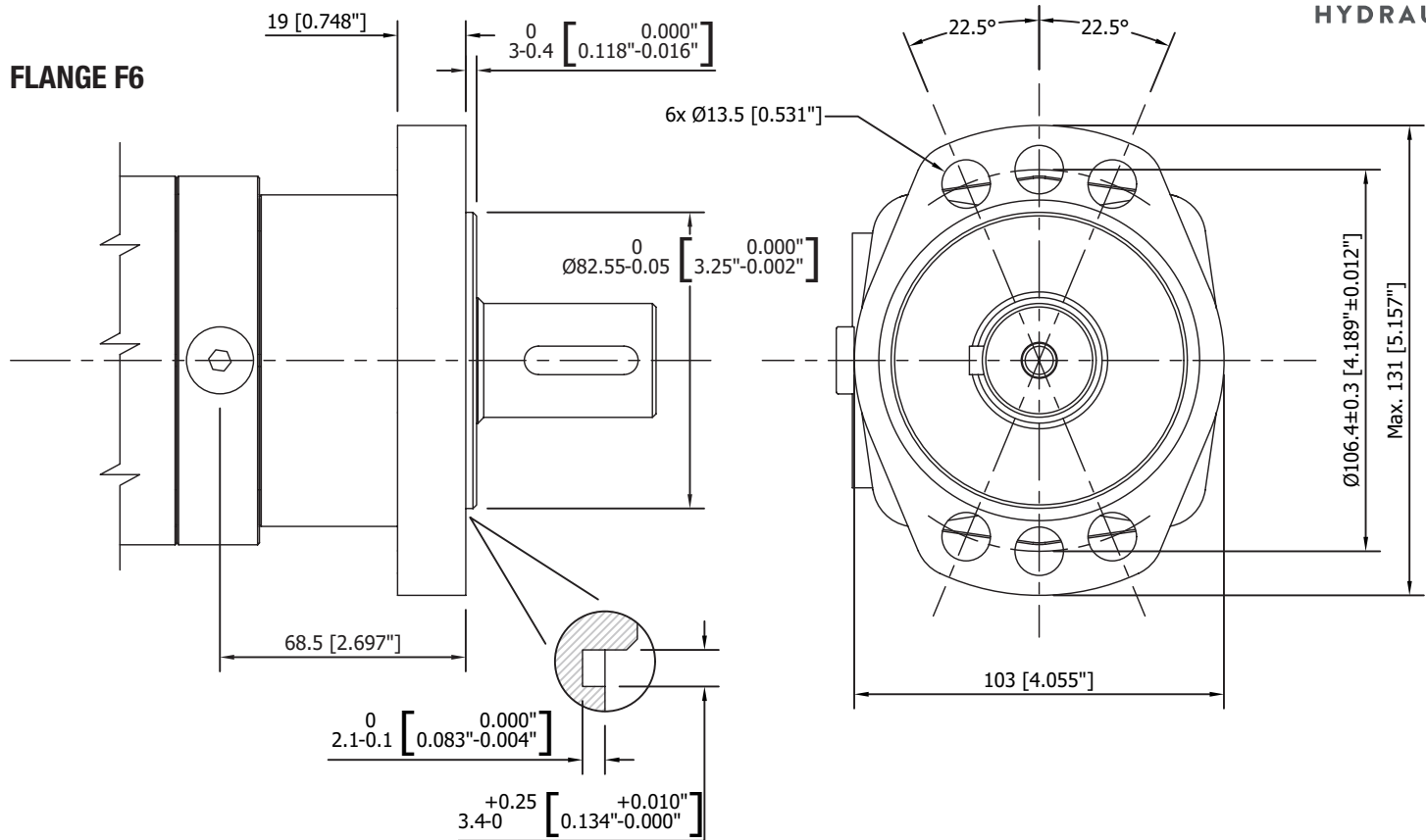


FLANGE E4

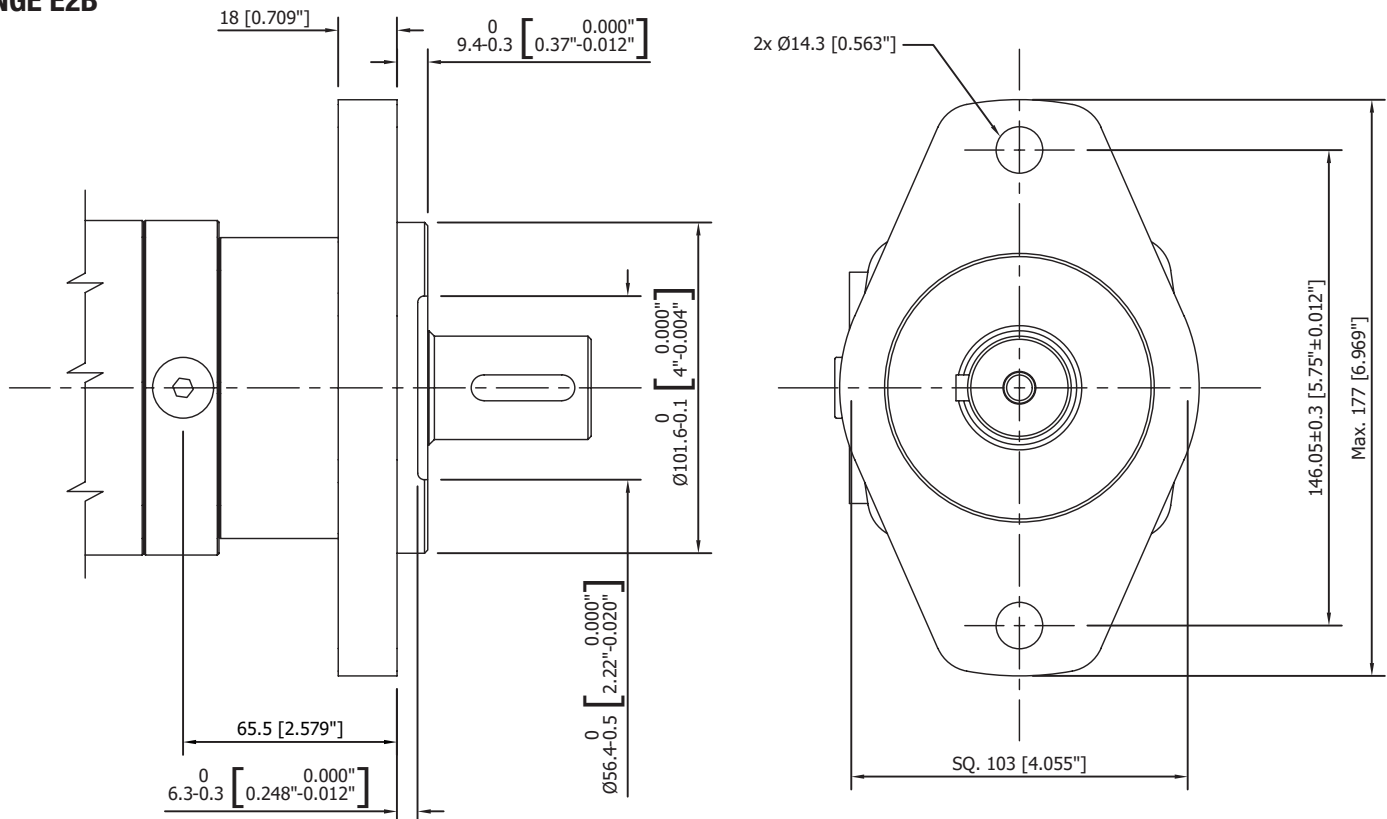


FLANGE OPTIONS

FLANGE F6



FLANGE E2B



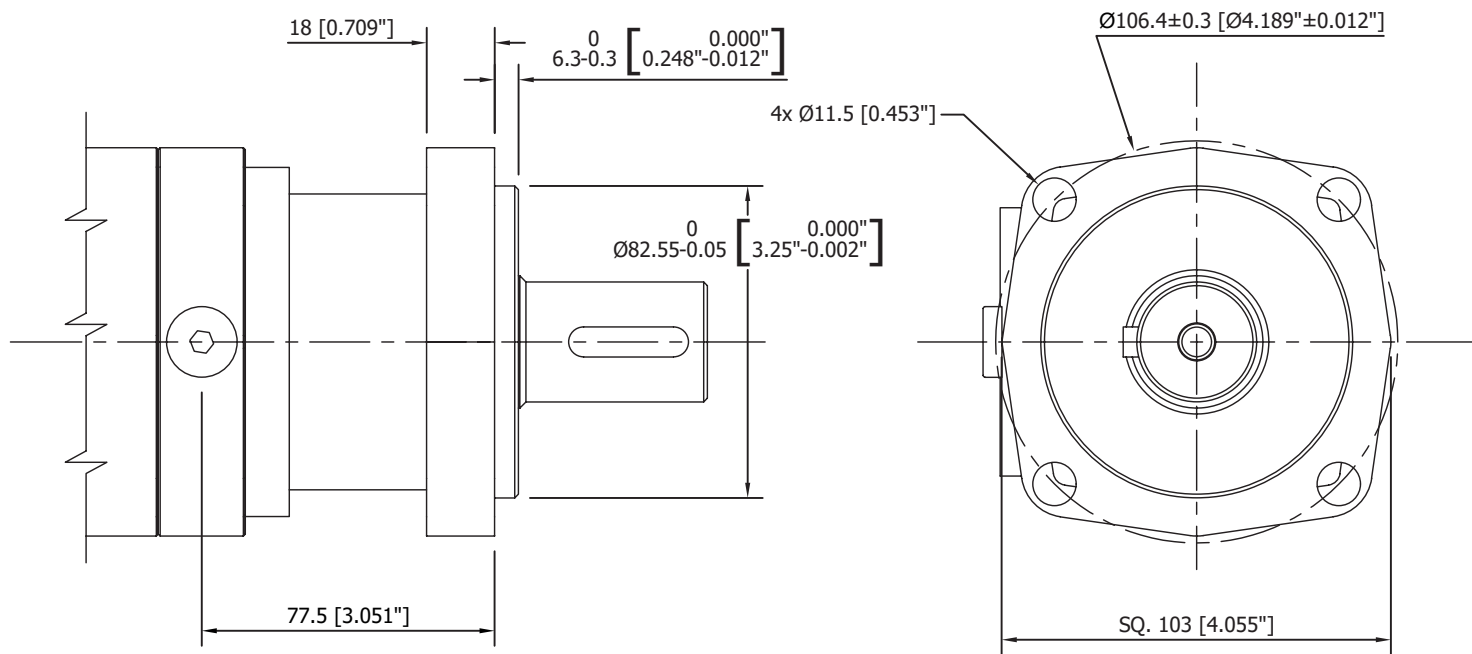
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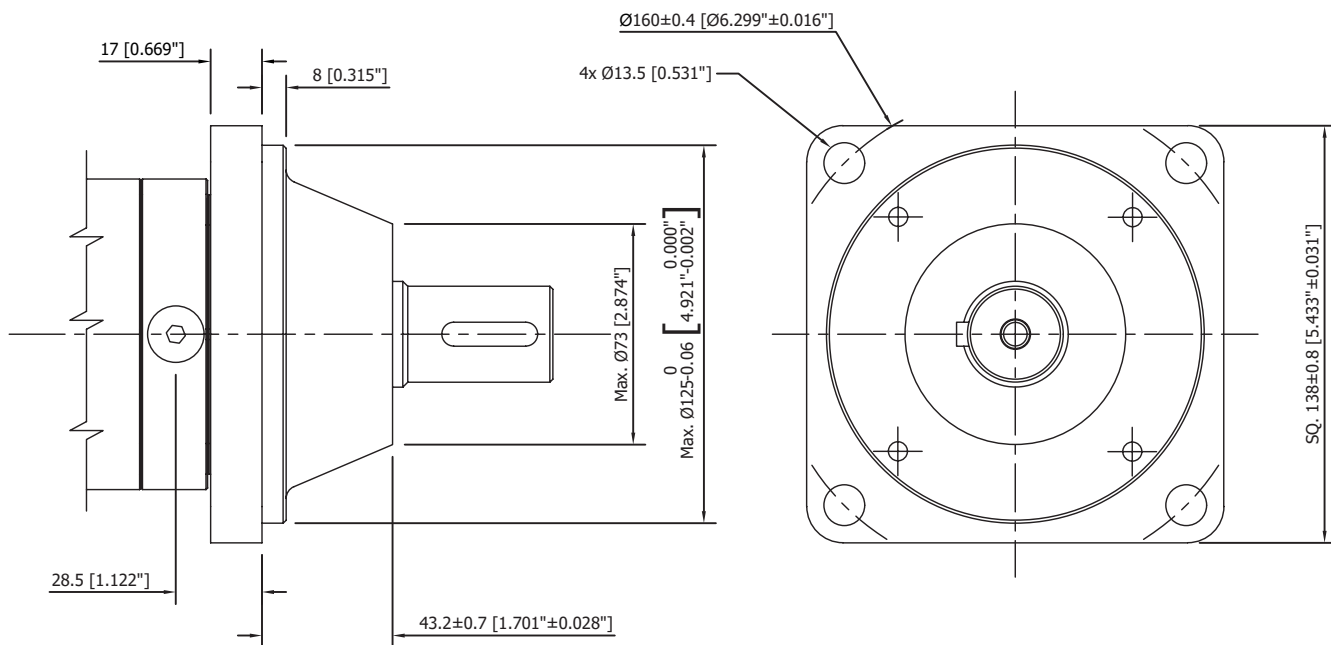
EBMSY

FLANGE SP

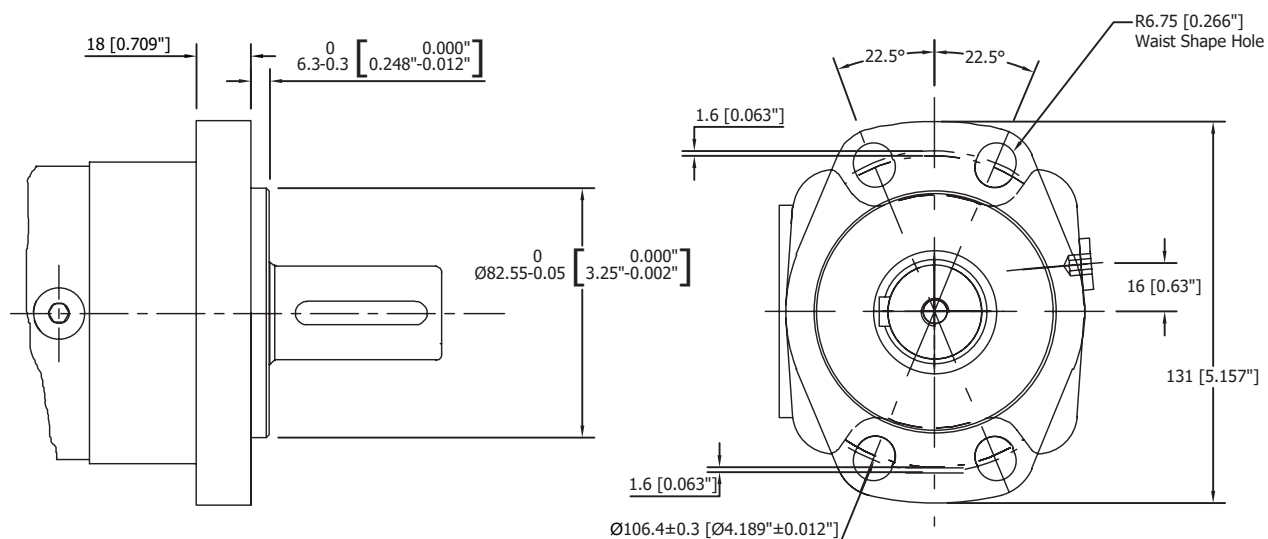
EBMSY



FLANGE W

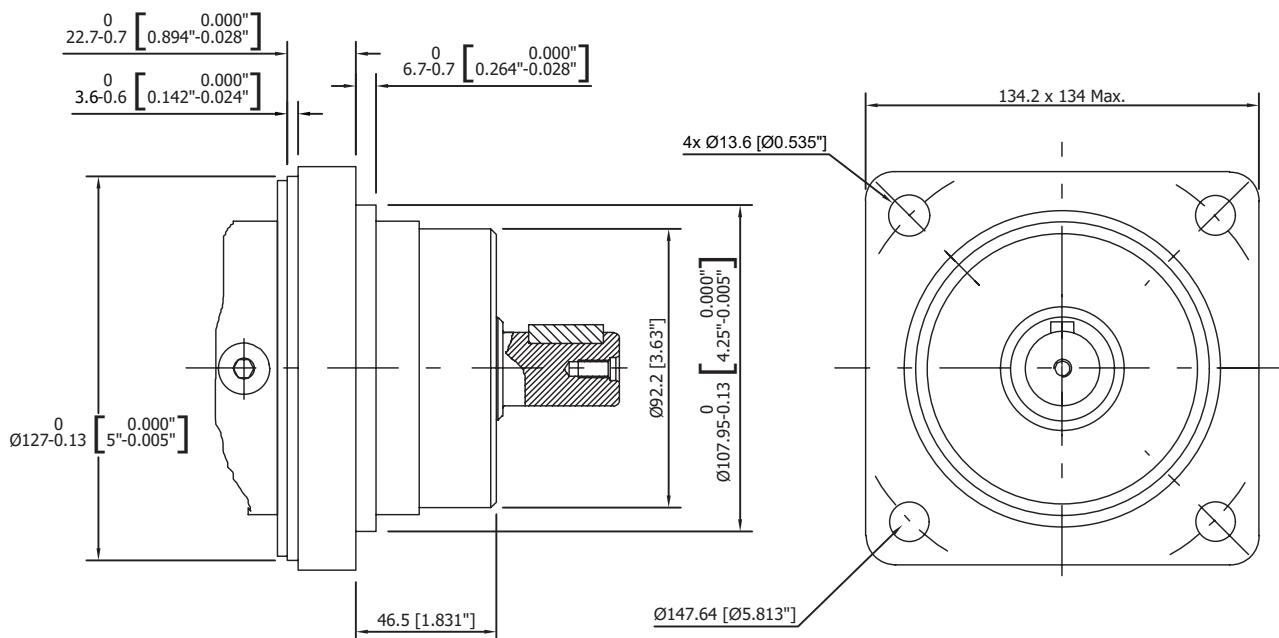


FLANGE E6



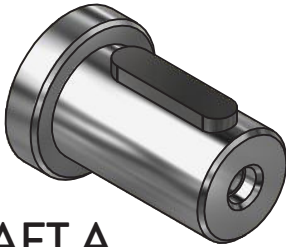
EBMSY

FLANGE WE



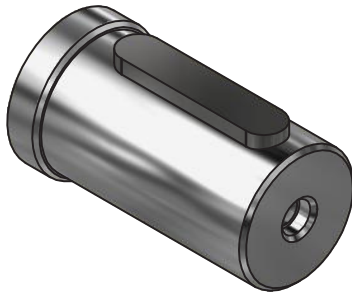
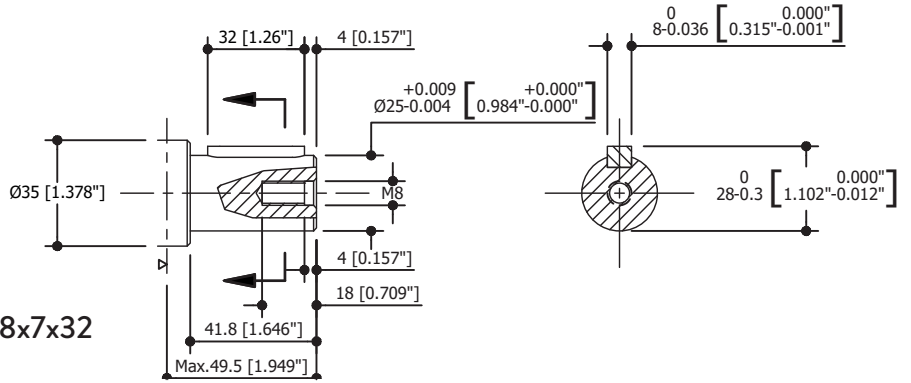
All numbers given are nominal values and should be used for reference only.

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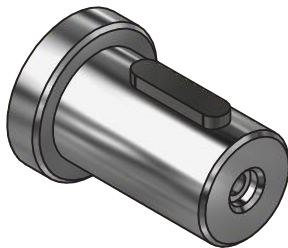
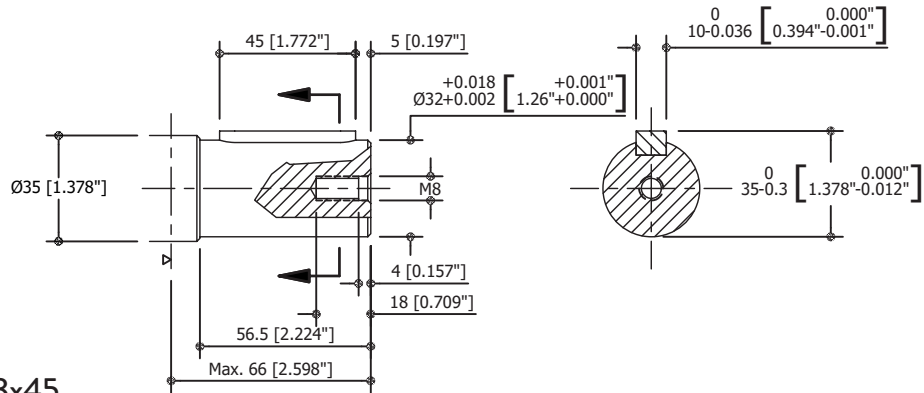
SHAFT A

Cylindrical Shaft $\varnothing 25$ - Parallel Key 8x7x32
METRIC



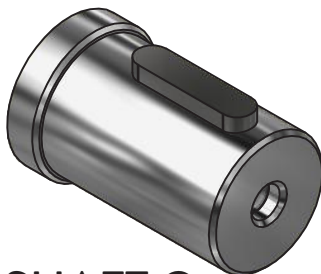
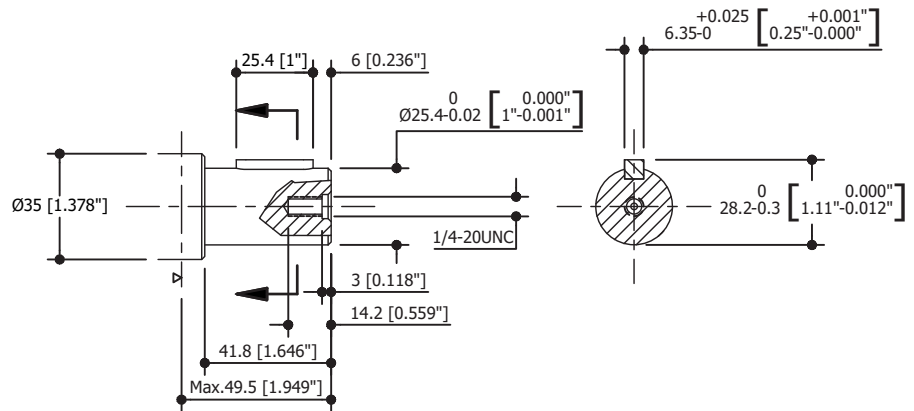
SHAFT B

Cylindrical Shaft $\varnothing 32$ - Parallel Key 10x8x45
METRIC



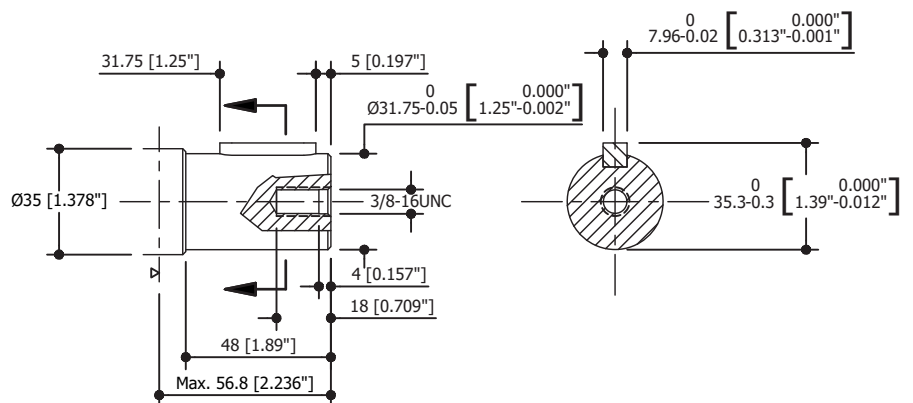
SHAFT D

Cylindrical Shaft $\varnothing 1$ "
Parallel Key 1/4"x1/4"x1"
IMPERIAL

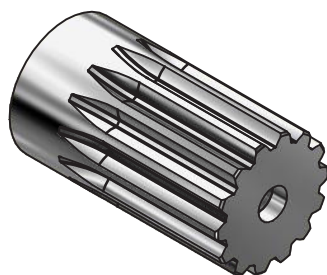


SHAFT G

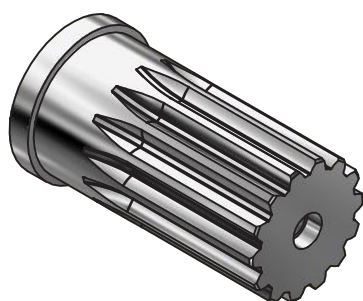
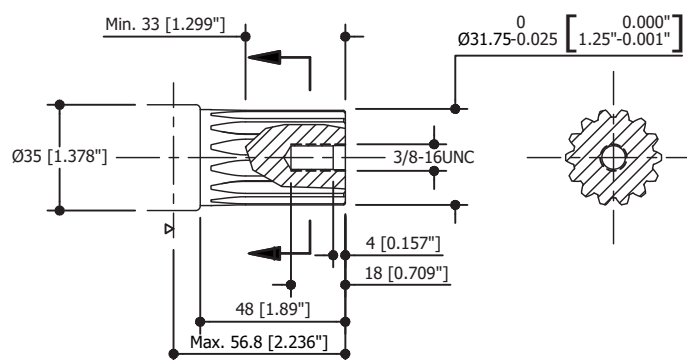
Cylindrical Shaft $\varnothing 1-1/4$ "
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL



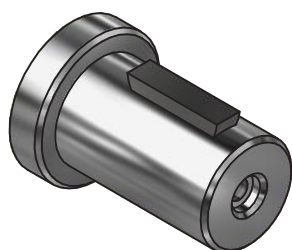
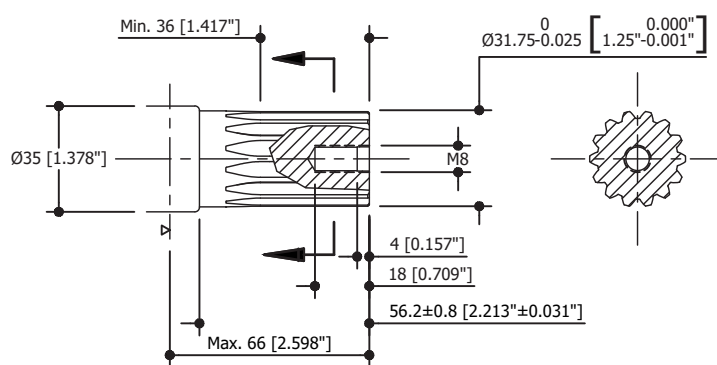
SHAFT EXTENSIONS DIMENSIONS



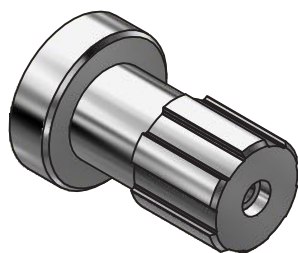
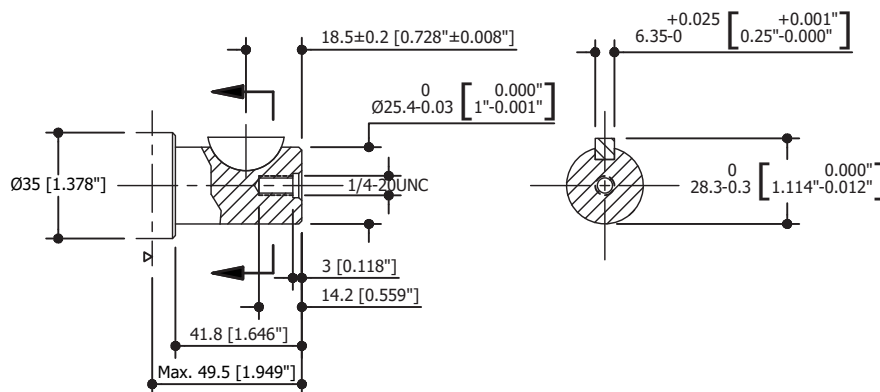
SHAFT F
Splined 14-DP12/24
IMPERIAL



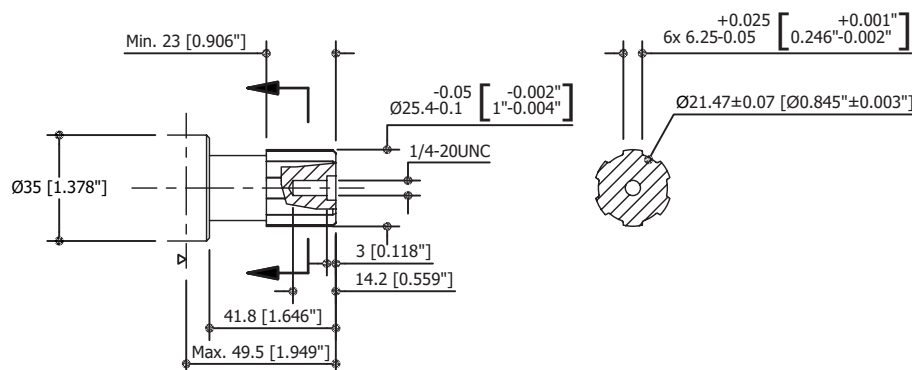
SHAFT FD
Splined 14-DP12/24
IMPERIAL



SHAFT K
Cylindrical Shaft Ø1"
Woodruff Key Ø1" x 1/4"
IMPERIAL



SHAFT S1
Splined SAE 6B
IMPERIAL

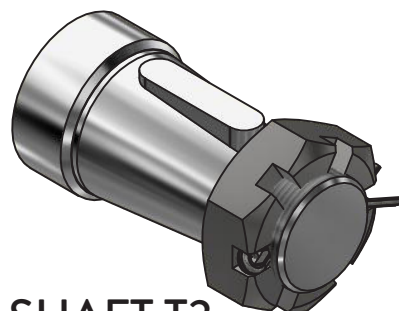
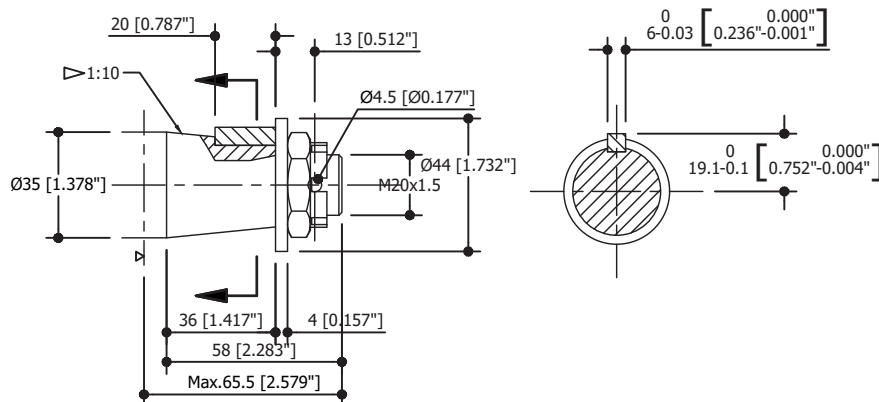
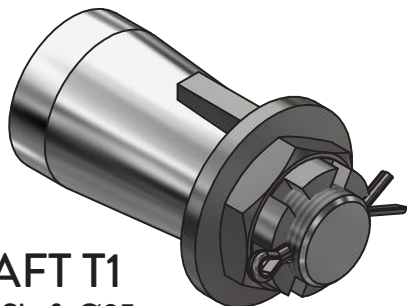


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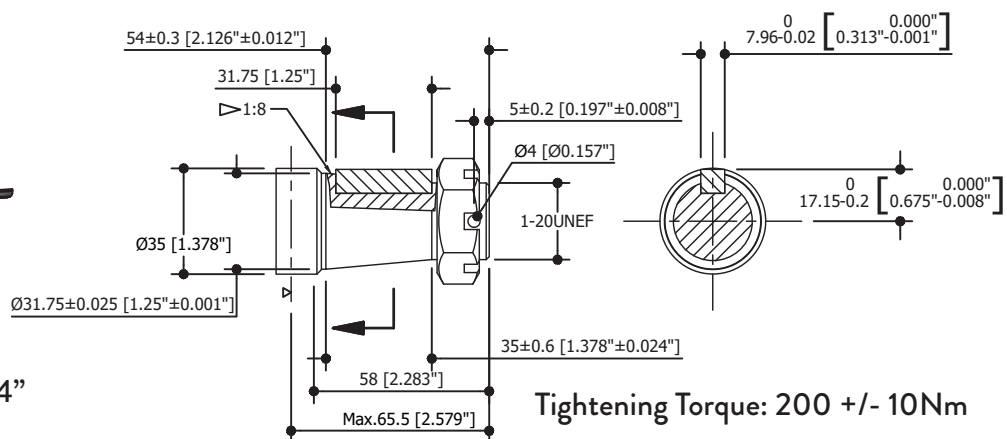
SHAFT T1

Cone Shaft Ø35
Parallel Key B6x6x20
METRIC

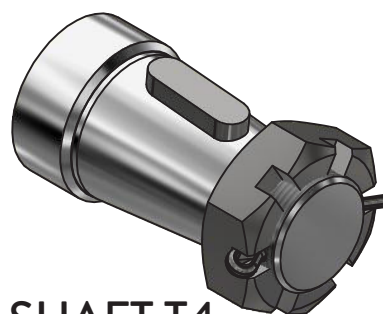


SHAFT T3

Cone Shaft Ø1-1/4"
Parallel Key 5/16"x5/16"x1-1/4"
IMPERIAL

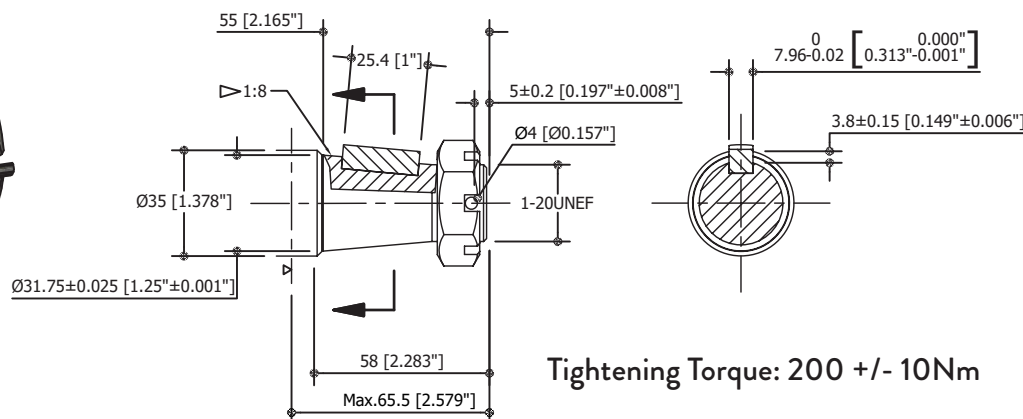


Tightening Torque: 200 +/- 10Nm

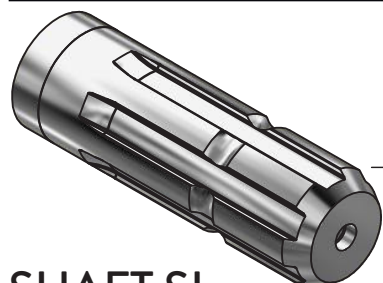


SHAFT T4

Cone Shaft Ø1-1/4"
Parallel Key 5/16"x5/16"x1"
IMPERIAL

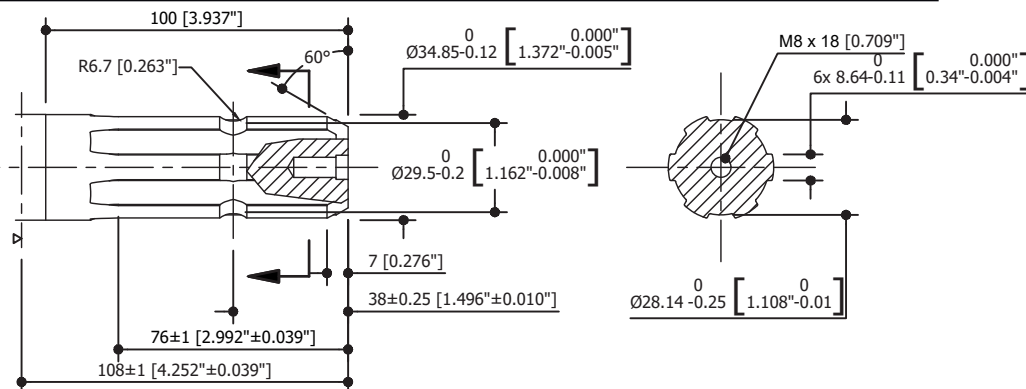


Tightening Torque: 200 +/- 10Nm



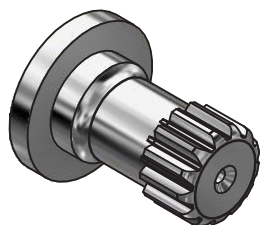
SHAFT SL

Splined 6-34.85 x 28.14 x 8.64
METRIC



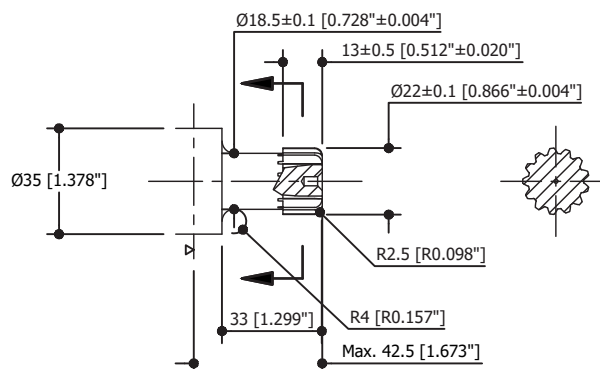
All numbers given are nominal values and should be used for reference only.

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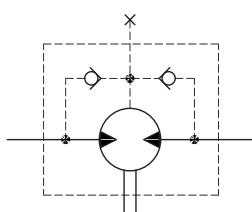


SHAFT I

Splined 13-DP16/32
METRIC

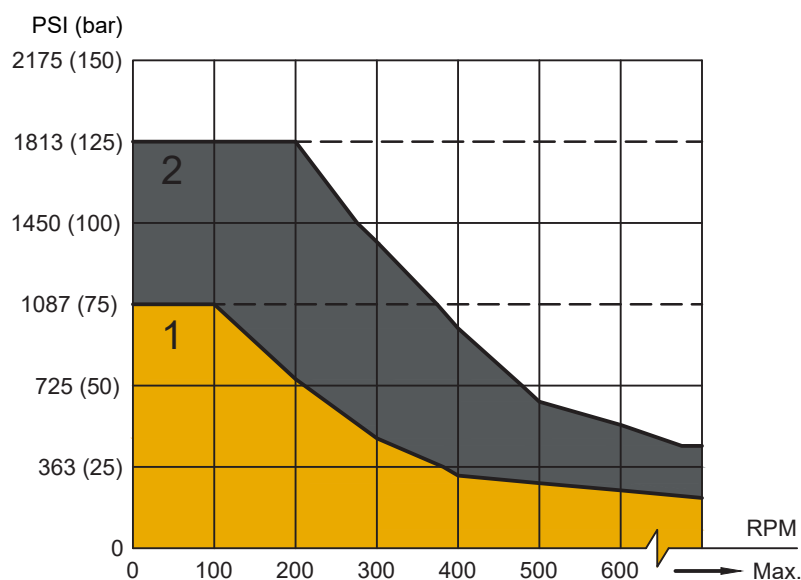


PERMISSIBLE SHAFT SEAL PRESSURE



NOTES:

- 1 : Chart for standard shaft seal
- 2 : Chart for high pressure shaft seal



EBMSY - DIRECTION OF SHAFT ROTATION : STANDARD

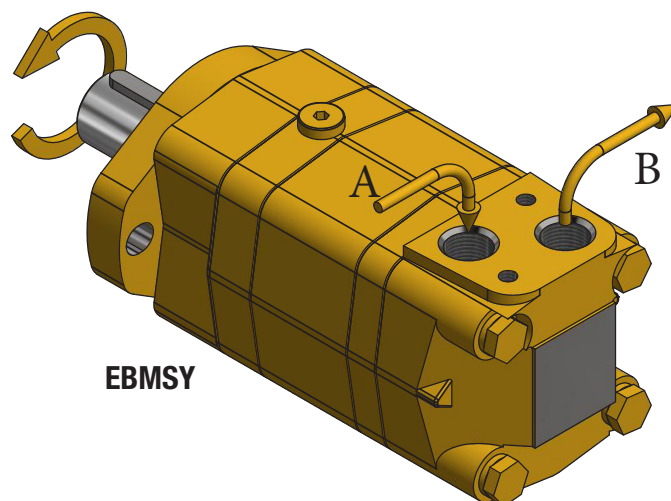
When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.

OIL FLOW IN DRAIN LINE

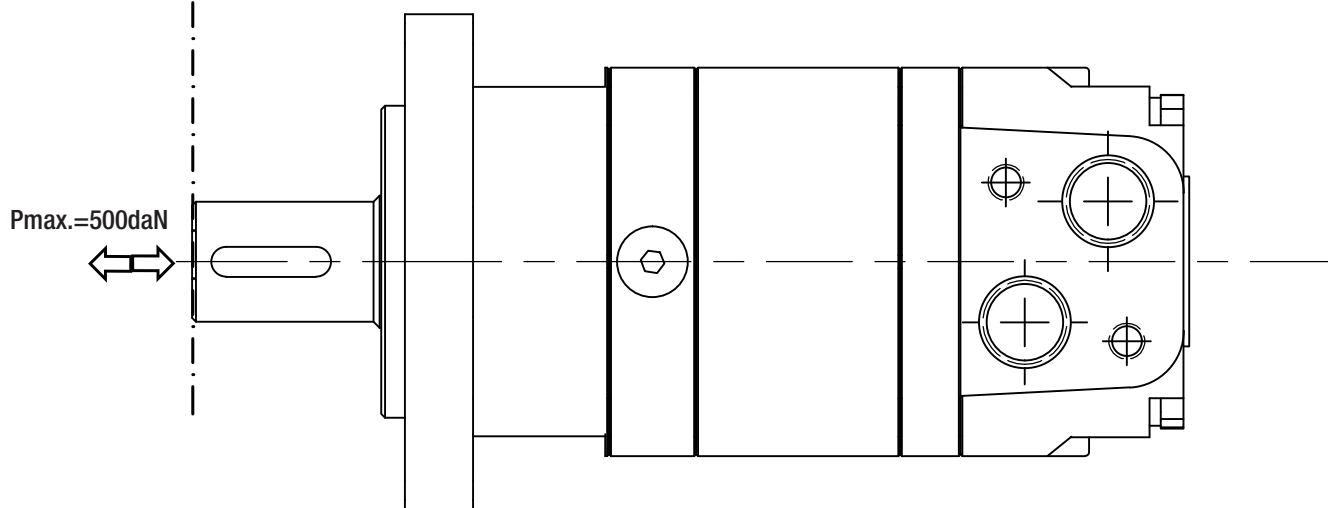
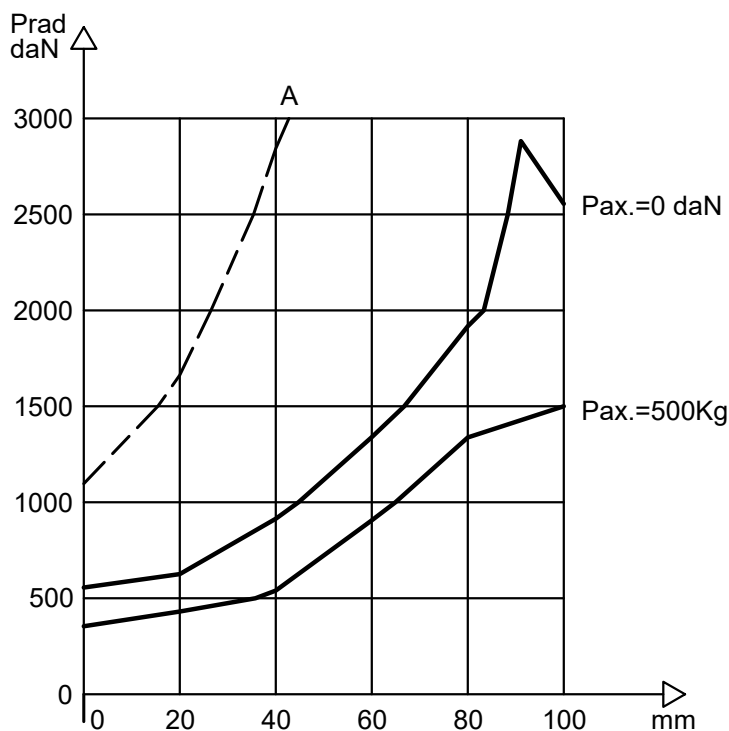
The table shows the max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
2030 (140)	0.031 (20)	0.40 (1.5)
	0.054 (35)	0.26 (1)
3045 (210)	0.031 (20)	0.79 (3)
	0.054 (35)	0.53 (2)



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.





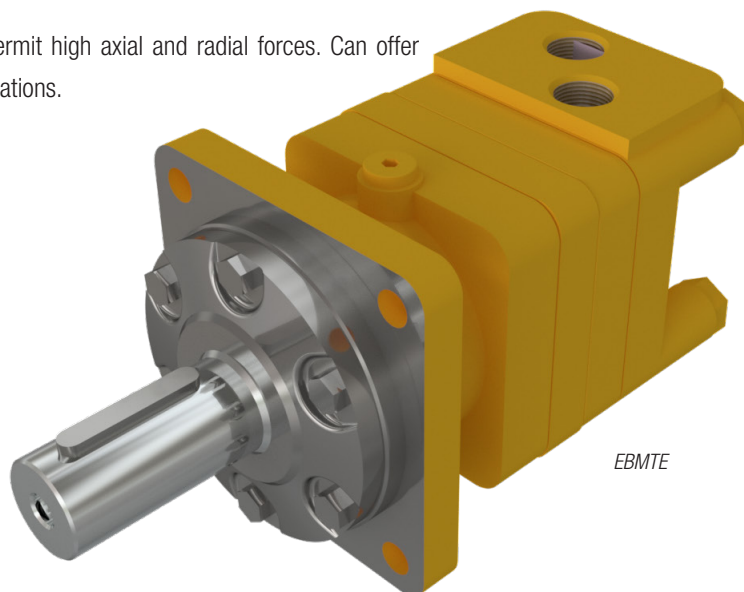
The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load. Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

*Speed Sensor: It's available with a sensor for monitoring motor shaft speed (see page 216)

EBMT series motor adapts the advanced Geroler gear set design with disc distribution flow and high pressure. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. Can offer capacities of high pressure and high torque in many applications.
- Advanced design in disc distribution flow.



EBMTE

EBMT

		EBMT 160	EBMT 200	EBMT 230	EBMT 250	EBMT 315	EBMT 400	EBMT 500	EBMT 630	EBMT 800
Geometric displacement	in ³ /rev (cm ³ /rev.)	9.83 (161.1)	12.29 (201.4)	14.19 (232.5)	15.37 (251.8)	19.91 (326.3)	25.07 (410.9)	31.95 (523.6)	38.39 (629.1)	48.93 (801.8)
Max. Speed	Continuous (rpm)	625	625	536	500	380	305	240	196	154
	Intermittent (rpm)	780	750	643	600	460	365	285	233	185
Max. Torque	Continuous lbf•ft (N•m)	346.9 (470)	435.4 (590)	494.5 (670)	538.7 (730)	701.1 (950)	797 (1080)	900.4 (1220)	972.7 (1318)	1080.4 (1464)
	Intermittent lbf•ft (N•m)	413.3 (560)	524 (710)	605.9 (821)	649.4 (880)	841.3 (1140)	929.9 (1260)	1011.1 (1370)	1105.5 (1498)	1121.8 (1520)
	Peak lbf•ft (N•m)	493.7 (669)	618.4 (838)	707 (958)	764.6 (1036)	993.6 (1346.3)	1070.3 (1450.3)	1213.1 (1643.8)	1194.7 (1618.8)	1228.8 (1665)
Max. Output	Continuous hp (kW)	37.1 (27.7)	46.8 (34.9)	46.5 (34.7)	46.3 (34.5)	46.8 (34.9)	41.8 (31.2)	38.6 (28.8)	33.9 (25.3)	29.8 (22.2)
	Intermittent hp (kW)	42.9 (32)	53.6 (40)	53.6 (40)	53.6 (40)	53.6 (40)	46.9 (35)	46.9 (35)	36.9 (27.5)	35.9 (26.8)
Max. Pressure Drop	Continuous PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2611 (180)	2321 (160)	2031 (140)	1813 (125)
	Intermittent PSI (bar)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3046 (210)	2611 (180)	2321 (160)	1885 (130)
	Peak PSI (bar)	4061 (280)	4061 (280)	4061 (280)	4061 (280)	4061 (280)	3481 (240)	3046 (210)	2756 (190)	2321 (160)
Max. Flow	Continuous GPM (L/min)	26.5 (100)	33.1 (125)	33.1 (125)	33.1 (125)	33.1 (125)	33.1 (125)	33.1 (125)	33.1 (125)	33.1 (125)
	Intermittent GPM (L/min)	33.1 (125)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)
Max. Inlet Pressure	Continuous PSI (bar)	3046 (210)	3046 (210)	3046 (210)	3046 (210)	3046 (210)	3046 (210)	3046 (210)	3046 (210)	3046 (210)
	Intermittent PSI (bar)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)	3626 (250)
	Peak PSI (bar)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)
Weight	Lbs (kg)	42.9 (19.5)	44 (20)	44.9 (20.4)	45.1 (20.5)	46.2 (21)	48.4 (22)	50.6 (23)	52.8 (24)	55 (25)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



All numbers given are nominal values and should be used for reference only.

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EBMT ORDER INFORMATION

EBMT

1 2 3 4 5 6 7 8

EBMT - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Disp.	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	160	4	4-Ø14 Square-Flange Ø160, Pilot Ø125 x 9	M	Shaft Ø40, Parallel Key 12 x 8 x 70	D	G3/4 Manifold Mount, 4-M10, G1/4	Omit	Standard	00	No Paint	Omit	Standard
	200	K6	4-Ø14.5 Square-Flange Ø162, Pilot Ø127 x 9	G	Shaft Ø1-1/2" - Parallel Key 3/8"x3/8"x2.25"	M	M27 x 2 Manifold Mount, 4-M10, M14 x 1.5	R	Opposite	Omit	Black	F	Free Running
	250	W	4-Ø18 Wheel-Flange Ø200, Pilot Ø160 x 7	F	Shaft Ø1-1/2", Splined Tooth 17-DP12/24	S	1-1/16-12UN O-Ring, 9/16-18UNF					LS	Low Speed
	315			FD	Shaft Ø1-1/2" - Splined Key 17-DP12/24	S1	1-1/16-12UN O-Ring, 7/16-20UNF						
	T			Cone-Shaft 1:10 Ø45, Parallel Key B12 x 8 x 28	G	G3/4, G1/4							
	T1			Cone Shaft 1:8 Ø45 Parallel Key 7/16"x7/16"x1-1/4"	M3	M27 x 2, M14 x 1.5							
	SL			Shaft Ø34.85 - Splined Key 6-34.85x 28.14x 8.64									
	G1			Shaft Ø1-1/4", Parallel key 5/16" x 5/16" x 40mm									
	F1			Shaft Ø1-1/4", Splined Tooth 14-DP12/24									
800													

EBMTS ORDER INFORMATION

1 2 3 4 5 6 7 8

EBMTS - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Disp.	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	160	D	4-Ø14 Circle-Flange Ø160, Pilot Ø125 x 8	Omit	Short shaft 16-DP12/24	D	G3/4 Manifold Mount, 4-M10, G1/4	Omit	Standard	00	No Paint	Omit	Standard
	200	E	4-Ø14.5 Square-Flange Ø162, Pilot Ø127 x 10			M	M27 x 2 Manifold Mount, 4-M10, M14 x 1.5					R	Opposite
	250			S	1-1/16-12UN O-Ring, 9/16-18UNF			LS	Low Speed				
	S1			1-1/16-12UN O-Ring, 7/16-20UNF									
	G			G3/4, G1/4									
	M3			M27 x 2, M14 x 1.5									
	315												
	400												
500													
630													
800													



EBMTE ORDER INFORMATION



1 2 3 4 5 6 7 8

EBMTE - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Disp.	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	230	CC	4-Ø14.3 Square-flange Ø161.9, Pilot Ø127 x 12	G2	Shaft Ø1-1/2", Parallel Key 3/8" x 3/8" x 42mm	SF	3/4", Manifold Mount, 8-3/8-16UNC, 7/16-20UNF	Omit	Standard	00	No Paint	Omit	Standard
	250			FE	Shaft Ø1-1/2", Splined Tooth 17-DP12/24	SF5	1-5/16-12UN O-ring, 7/16-20 UNF	R	Opposite	Omit	Black	F	Free Running
	315			Y1	Shaft Ø40, Parallel Key 12 x 8 x 63	SF6	M33 x 2, M14 x 1.5					LS	Low Speed
	400			Y2	Shaft Ø40, Parallel Key 12 x 8 x 63	SF7	G1, G1/4						
	500			T2	Cone-Shaft 1:8 Ø1-5/8", Parallel Key 7/16" x 7/16" x 1-1/4"	SE	1-1/16-12UN O-Ring, 9/16-18UNF						
	630	WE	4-1/2-13UNC Wheel-flange Ø147.6, Pilot Ø127 x 9	T3	Cone Shaft 1:8 Ø1-5/8", Parallel Key 7/16"x7/16"x1-1/4"	SE1	1-1/16-12UN O-Ring, 7/16-20UNF						
	800					SE2	G3/4, G1/4						

EBMT

EBMTJ ORDER INFORMATION

1 2 3 4 5 6 7 8

EBMTJ - - - - - - -

1	2	3		4		5		6		7		8	
CODE	Disp.	Flange		Output Shaft		Port and Drain Port		Rotation Direction		Paint		Unusually Function	
	230	J	4-Ø14.5 Square-flange Ø161.9, Pilot Ø127 x 12.4	Omit	Short Shaft 12-DP8.5/17	SF	3/4", Manifold Mount, 8-3/8-16UNC, 7/16-20UNF	Omit	Standard	00	No Paint	Omit	Standard
	250					SF5	1-5/16-12UN O-ring, 7/16-20 UNF	R	Opposite	Omit	Black	F	Free Running
	315					SF6	M33 x 2, M14 x 1.5					LS	Low Speed
	400					SF7	G1, G1/4						
	500					SE	1-1/16-12UN O-Ring, 9/16-18UNF						
	630					SE1	1-1/16-12UN O-Ring, 7/16-20UNF						
	800					SE2	G3/4, G1/4						

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc...
If the specification is not in the table or you have specific requirements, please contact us.



All numbers given are nominal values and should be used for reference only.

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EBMT 160 - 9.83 in³/rev (161.1 cm³/rev)

			Max. Cont.					Max. Int.	
Pressure PSI (bar)			580 (40)	1160 (80)	1450 (100)	1740 (120)	2321 (160)	2901 (200)	3481 (240)
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	64.9 (88)	129.9 (176)	168.3 (228)	203 (275)	266.4 (361)	329.9 (447)	394.8 (535)
		Speed (rpm)	60	59	58	56	54	50	44
	5.3 (20)	Torque lbf•ft (N•m)	65.7 (89)	133.6 (181)	172.7 (234)	204.4 (277)	274.5 (372)	338.7 (459)	411.1 (557)
		Speed (rpm)	121	120	117	114	109	103	95
	10.6 (40)	Torque lbf•ft (N•m)	67.2 (91)	132.8 (180)	173.4 (235)	204.4 (277)	281.2 (381)	347.6 (471)	422.9 (573)
		Speed (rpm)	249	246	243	236	230	223	212
	15.9 (60)	Torque lbf•ft (N•m)	60.5 (82)	131.4 (178)	173.4 (235)	204.4 (277)	281.2 (381)	346.9 (470)	424.4 (575)
		Speed (rpm)	371	367	362	356	349	340	330
	21.2 (80)	Torque lbf•ft (N•m)	57.6 (78)	127.7 (173)	169 (229)	203.7 (276)	279.7 (379)	343.9 (466)	418.4 (567)
		Speed (rpm)	492	489	485	478	470	462	447
	26.5 (100)	Torque lbf•ft (N•m)	51.7 (70)	118.1 (160)	160.9 (218)	198.5 (269)	273.1 (370)	335.8 (455)	411.8 (558)
		Speed (rpm)	614	611	606	598	590	582	570
33.1 (125)	Torque lbf•ft (N•m)	42.8 (58)	109.2 (148)	155.7 (211)	192.6 (261)	264.9 (359)	330.6 (448)	407.4 (552)	
	Speed (rpm)	770	764	758	750	741	731	715	
Max. Cont.									
Max. Int.									

EBMT 200 - 12.29 in³/rev (201.4 cm³/rev)

			Max. Cont.					Max. Int.		
Pressure PSI (bar)			580 (40)	1160 (80)	1450 (100)	1740 (120)	2321 (160)	2901 (200)	3481 (240)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	91.5 (124)	172 (233)	213.3 (289)	250.9 (340)	335.1 (454)	413.3 (560)	493.7 (669)	
		Speed (rpm)	47	46	45	42	39	37	33	
	5.3 (20)	Torque lbf•ft (N•m)	92.3 (125)	176.4 (239)	219.9 (298)	256.1 (347)	345.4 (468)	425.1 (576)	513.6 (696)	
		Speed (rpm)	95	94	92	90	87	84	75	
	10.6 (40)	Torque lbf•ft (N•m)	88.6 (120)	177.9 (241)	218.4 (296)	259.8 (352)	350.6 (475)	434.7 (589)	528.4 (716)	
		Speed (rpm)	195	193	191	187	183	178	167	
	15.9 (60)	Torque lbf•ft (N•m)	85.6 (116)	174.9 (237)	217.7 (295)	259.8 (352)	352.8 (478)	434.7 (589)	529.9 (718)	
		Speed (rpm)	297	295	292	287	282	276	263	
	21.2 (80)	Torque lbf•ft (N•m)	79.7 (108)	170.5 (231)	213.3 (289)	258.3 (350)	349.8 (474)	432.5 (586)	528.4 (716)	
		Speed (rpm)	395	393	389	384	377	370	359	
	Max. Cont.	26.5 (100)	Torque lbf•ft (N•m)	73.1 (99)	167.5 (227)	211.1 (286)	253.9 (344)	347.6 (471)	428 (580)	525.5 (712)
			Speed (rpm)	493	490	486	482	475	467	460
33.1 (125)		Torque lbf•ft (N•m)	62 (84)	153.5 (208)	203.7 (276)	245.8 (333)	338.7 (459)	417.7 (566)	514.4 (697)	
	Speed (rpm)	615	611	607	602	595	588	572		
Max. Int.	39.7 (150)	Torque lbf•ft (N•m)	51.7 (70)	143.2 (194)	191.9 (260)	239.1 (324)	329.9 (447)	408.9 (554)	503.3 (682)	
		Speed (rpm)	743	740	735	727	717	706	682	

EBMT 250 - 15.37 in³/rev (251.8 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		580 (40)	1160 (80)	1450 (100)	1740 (120)	2321 (160)	2901 (200)	3481 (240)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	101.8 (138)	211.1 (286)	262 (355)	309.2 (419)	412.5 (559)	508.5 (689)	608.1 (824)
		Speed (rpm)	38	38	37	36	34	32	31
	5.3 (20)	Torque lbf•ft (N•m)	105.5 (143)	218.4 (296)	268.6 (364)	318.8 (432)	428 (580)	522.5 (708)	629.5 (853)
		Speed (rpm)	76	75	74	72	70	67	62
	10.6 (40)	Torque lbf•ft (N•m)	102.6 (139)	222.1 (301)	274.5 (372)	324.7 (440)	437.6 (593)	533.6 (723)	652.4 (884)
		Speed (rpm)	156	154	152	149	146	142	134
	15.9 (60)	Torque lbf•ft (N•m)	97.4 (132)	217 (294)	274.5 (372)	325.5 (441)	436.9 (592)	536.5 (727)	655.3 (888)
		Speed (rpm)	237	236	233	229	224	219	207
	21.2 (80)	Torque lbf•ft (N•m)	94.5 (128)	208.9 (283)	268.6 (364)	319.6 (433)	433.2 (587)	532.1 (721)	654.6 (887)
		Speed (rpm)	317	316	314	308	303	299	284
	26.5 (100)	Torque lbf•ft (N•m)	93 (126)	208.1 (282)	262 (355)	315.1 (427)	429.5 (582)	528.4 (716)	648.7 (879)
		Speed (rpm)	396	394	391	387	381	373	359
	33.1 (125)	Torque lbf•ft (N•m)	85.6 (116)	191.9 (260)	250.9 (340)	305.5 (414)	419.2 (568)	518.8 (703)	637.6 (864)
		Speed (rpm)	495	492	488	483	476	469	454
	39.7 (150)	Torque lbf•ft (N•m)	64.9 (88)	178.6 (242)	236.2 (320)	293 (397)	407.4 (552)	506.3 (686)	625.1 (847)
		Speed (rpm)	592	589	585	580	572	565	545

EBMT 315 - 19.91 in³/rev (326.3 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		580 (40)	1160 (80)	1450 (100)	1740 (120)	2321 (160)	2901 (200)	3481 (240)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	135.8 (184)	267.9 (363)	334.3 (453)	402.2 (545)	541.7 (734)	657.6 (891)	783.8 (1062)
		Speed (rpm)	30	29	28	27	26	25	23
	5.3 (20)	Torque lbf•ft (N•m)	139.5 (189)	280.4 (380)	348.3 (472)	414.8 (562)	558.7 (757)	676.7 (917)	818.4 (1109)
		Speed (rpm)	60	59	58	56	54	52	50
	10.6 (40)	Torque lbf•ft (N•m)	141 (191)	281.2 (381)	357.2 (484)	420.7 (570)	571.2 (774)	704.1 (954)	848 (1149)
		Speed (rpm)	121	120	118	115	112	109	104
	15.9 (60)	Torque lbf•ft (N•m)	139.5 (189)	277.5 (376)	363.8 (493)	422.9 (573)	569.7 (772)	710 (962)	851.7 (1154)
		Speed (rpm)	183	181	179	175	172	168	158
	21.2 (80)	Torque lbf•ft (N•m)	132.1 (179)	272.3 (369)	353.5 (479)	417 (565)	566.8 (768)	704.1 (954)	850.9 (1153)
		Speed (rpm)	244	242	239	236	231	227	217
	26.5 (100)	Torque lbf•ft (N•m)	124.7 (169)	263.5 (357)	344.6 (467)	414.8 (562)	559.4 (758)	695.2 (942)	843.5 (1143)
		Speed (rpm)	305	304	301	298	294	289	276
	33.1 (125)	Torque lbf•ft (N•m)	108.5 (147)	248 (336)	329.9 (447)	401.5 (544)	549.8 (745)	679 (920)	831.7 (1127)
		Speed (rpm)	380	378	375	371	367	362	349
	39.7 (150)	Torque lbf•ft (N•m)	87.8 (119)	234.7 (318)	318.8 (432)	388.2 (526)	526.2 (713)	659.8 (894)	809.6 (1097)
		Speed (rpm)	458	456	453	449	444	431	425
Max. Cont.									
Max. Int.									

EBMT



All numbers given are nominal values and should be used for reference only.

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EBMT 400 - 25.07 in³/rev (410.9 cm³/rev)

		Max. Cont.							Max. Int.
		Pressure PSI (bar)							
		435 (30)	870 (60)	1305 (90)	1740 (120)	2176 (150)	2611 (180)	3046 (210)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	129.9 (176)	270.8 (367)	413.3 (560)	527.7 (715)	653.1 (885)	774.9 (1050)	892.2 (1209)
		Speed (rpm)	24	23	22	21	20	19	18
	5.3 (20)	Torque lbf•ft (N•m)	132.1 (179)	273.1 (370)	417 (565)	535.8 (726)	663.5 (899)	790.4 (1071)	912.2 (1236)
		Speed (rpm)	49	48	47	44	42	40	38
	10.6 (40)	Torque lbf•ft (N•m)	129.9 (176)	273.1 (370)	418.4 (567)	541 (733)	678.2 (919)	805.2 (1091)	932.1 (1263)
		Speed (rpm)	96	95	93	90	87	83	79
	15.9 (60)	Torque lbf•ft (N•m)	128.4 (174)	266.4 (361)	415.5 (563)	538 (729)	679 (920)	808.1 (1095)	936.5 (1269)
		Speed (rpm)	145	143	139	135	131	127	121
	21.2 (80)	Torque lbf•ft (N•m)	122.5 (166)	260.5 (353)	408.1 (553)	530.6 (719)	673.1 (912)	800 (1084)	932.1 (1263)
		Speed (rpm)	193	191	188	184	180	176	170
	26.5 (100)	Torque lbf•ft (N•m)	110.7 (150)	250.2 (339)	397 (538)	522.5 (708)	661.2 (896)	787.4 (1067)	924 (1252)
		Speed (rpm)	242	240	238	234	228	224	218
	33.1 (125)	Torque lbf•ft (N•m)	99.6 (135)	228 (309)	386.7 (524)	507.7 (688)	644.3 (873)	771.2 (1045)	901.1 (1221)
		Speed (rpm)	302	300	298	294	289	285	278
	39.7 (150)	Torque lbf•ft (N•m)	93 (126)	215.5 (292)	374.9 (508)	491.5 (666)	628.8 (852)	752.8 (1020)	883.4 (1197)
		Speed (rpm)	364	362	358	354	350	346	339

EBMT 500 - 31.95 in³/rev (523.6 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		435 (30)	870 (60)	1305 (90)	1740 (120)	2031 (140)	2321 (160)	2611 (180)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	163.8 (222)	332.8 (451)	510.7 (692)	658.3 (892)	774.9 (1050)	880.4 (1193)	988.9 (1340)
		Speed (rpm)	18	18	18	17	16	15	13
	5.3 (20)	Torque lbf•ft (N•m)	170.5 (231)	342.4 (464)	526.9 (714)	677.5 (918)	789.7 (1070)	900.4 (1220)	1016.2 (1377)
		Speed (rpm)	37	36	35	34	33	32	30
	10.6 (40)	Torque lbf•ft (N•m)	169.7 (230)	343.9 (466)	529.1 (717)	694.5 (941)	807.4 (1094)	918.1 (1244)	1049.4 (1422)
		Speed (rpm)	75	74	73	72	70	68	64
	15.9 (60)	Torque lbf•ft (N•m)	166.1 (225)	337.3 (457)	526.9 (714)	694.5 (941)	802.9 (1088)	918.8 (1245)	1039.8 (1409)
		Speed (rpm)	113	112	111	109	107	105	101
	21.2 (80)	Torque lbf•ft (N•m)	157.2 (213)	318.1 (431)	513.6 (696)	684.1 (927)	794.1 (1076)	918.1 (1244)	1033.9 (1401)
		Speed (rpm)	151	150	149	147	145	143	138
	26.5 (100)	Torque lbf•ft (N•m)	143.2 (194)	310 (420)	501.8 (680)	664.9 (901)	784.5 (1063)	903.3 (1224)	1020.7 (1383)
		Speed (rpm)	189	188	187	185	183	181	177
	33.1 (125)	Torque lbf•ft (N•m)	134.3 (182)	293.7 (398)	473.1 (641)	647.2 (877)	755.7 (1024)	884.9 (1199)	997.8 (1352)
		Speed (rpm)	237	236	235	233	231	229	225
	39.7 (150)	Torque lbf•ft (N•m)	108.5 (147)	272.3 (369)	456.1 (618)	629.5 (853)	741 (1004)	861.2 (1167)	977.9 (1325)
		Speed (rpm)	284	283	282	280	278	276	272



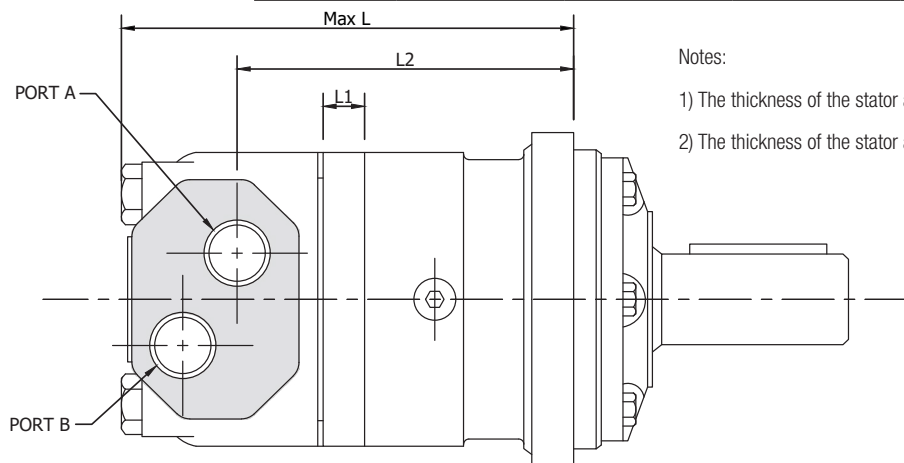
EBMT 630 - 38.39 in³/rev (629.1 cm³/rev)

		Max. Cont.						Max. Int.	
		Pressure PSI (bar)							
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	172 (233)	383.8 (520)	586.7 (795)	665.7 (902)	792.6 (1074)	881.2 (1194)	1005.9 (1363)
		Speed (rpm)	14	14	13	13	13	11	11
	5.3 (20)	Torque lbf•ft (N•m)	174.9 (237)	408.9 (554)	617.7 (837)	703.3 (953)	824.3 (1117)	914.4 (1239)	1038.4 (1407)
		Speed (rpm)	28	27	27	26	26	24	22
	10.6 (40)	Torque lbf•ft (N•m)	176.4 (239)	408.1 (553)	634.7 (860)	728.4 (987)	864.2 (1171)	965.3 (1308)	1094.5 (1483)
		Speed (rpm)	62	62	61	60	59	56	54
	15.9 (60)	Torque lbf•ft (N•m)	164.6 (223)	401.5 (544)	636.9 (863)	721.8 (978)	864.9 (1172)	972.7 (1318)	1105.5 (1498)
		Speed (rpm)	94	94	92	91	90	86	82
	21.2 (80)	Torque lbf•ft (N•m)	162.4 (220)	396.3 (537)	630.3 (854)	712.2 (965)	864.9 (1172)	969.7 (1314)	1104.8 (1497)
		Speed (rpm)	123	122	121	119	118	114	110
	26.5 (100)	Torque lbf•ft (N•m)	153.5 (208)	385.2 (522)	614 (832)	697.4 (945)	853.1 (1156)	961.6 (1303)	1098.1 (1488)
		Speed (rpm)	156	155	153	152	150	147	142
	33.1 (125)	Torque lbf•ft (N•m)	148.3 (201)	368.3 (499)	597.8 (810)	687.1 (931)	839.1 (1137)	953.5 (1292)	1086.3 (1472)
		Speed (rpm)	196	196	194	192	191	187	183
	39.7 (150)	Torque lbf•ft (N•m)	128.4 (174)	363.1 (492)	579.3 (785)	679.7 (921)	827.3 (1121)	942.4 (1277)	1073.1 (1454)
		Speed (rpm)	233	232	231	230	227	223	217

EBMT 800 - 48.93 in³/rev (801.8 cm³/rev)

		Max. Cont.						Max. Int.	
		Pressure PSI (bar)							
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	255.3 (346)	499.6 (677)	740.2 (1003)	855.3 (1159)	1007.4 (1365)	1025.8 (1390)	
		Speed (rpm)	12	12	11	11	11	10	
	5.3 (20)	Torque lbf•ft (N•m)	262.7 (356)	510.7 (692)	763.1 (1034)	873.1 (1183)	1036.2 (1404)	1076 (1458)	
		Speed (rpm)	24	24	24	23	22	18	
	10.6 (40)	Torque lbf•ft (N•m)	269.4 (365)	518.8 (703)	786.7 (1066)	912.2 (1236)	1076.7 (1459)	1118.8 (1516)	
		Speed (rpm)	50	50	49	48	46	40	
	15.9 (60)	Torque lbf•ft (N•m)	261.3 (354)	518.8 (703)	782.3 (1060)	912.9 (1237)	1080.4 (1464)	1121.8 (1520)	
		Speed (rpm)	74	73	71	71	68	63	
	21.2 (80)	Torque lbf•ft (N•m)	245 (332)	506.3 (686)	774.9 (1050)	904.8 (1226)	1080.4 (1464)	1117.3 (1514)	
		Speed (rpm)	99	98	98	96	93	86	
	26.5 (100)	Torque lbf•ft (N•m)	225.1 (305)	482.7 (654)	756.5 (1025)	890.8 (1207)	1066.4 (1445)	1111.4 (1506)	
		Speed (rpm)	125	123	123	121	118	110	
	33.1 (125)	Torque lbf•ft (N•m)	206.6 (280)	459 (622)	729.9 (989)	871.6 (1181)	1049.4 (1422)	1097.4 (1487)	
		Speed (rpm)	154	153	153	150	149	140	
	39.7 (150)	Torque lbf•ft (N•m)	182.3 (247)	435.4 (590)	703.3 (953)	853.1 (1156)	1037.6 (1406)	1089.3 (1476)	
		Speed (rpm)	185	184	183	181	179	172	

MOUNTING	PORTS CODE (Depth mm)					
	D	M	S	G	M3	S1
P (A, B)	G 3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)	G 3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)
T	G 1/4 (12)	M14 x 1.5 (12)	9/16-18UNF (12)	G 1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)
C	4x M10 (10)	4x M10 (10)	--	--	--	--



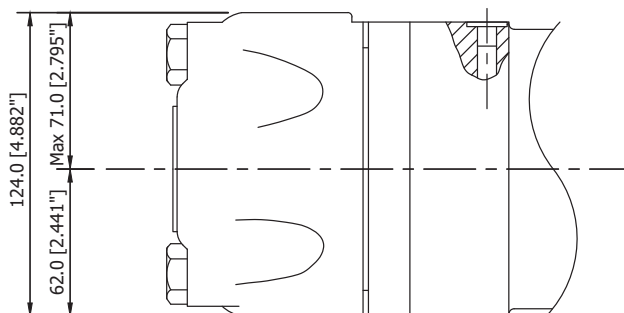
Notes:

- 1) The thickness of the stator and rotor for disp. from 160 to 200 is the dimension of L1 + 3mm.
- 2) The thickness of the stator and rotor for disp. from 250 to 800 is the dimension of L1 + 7mm.

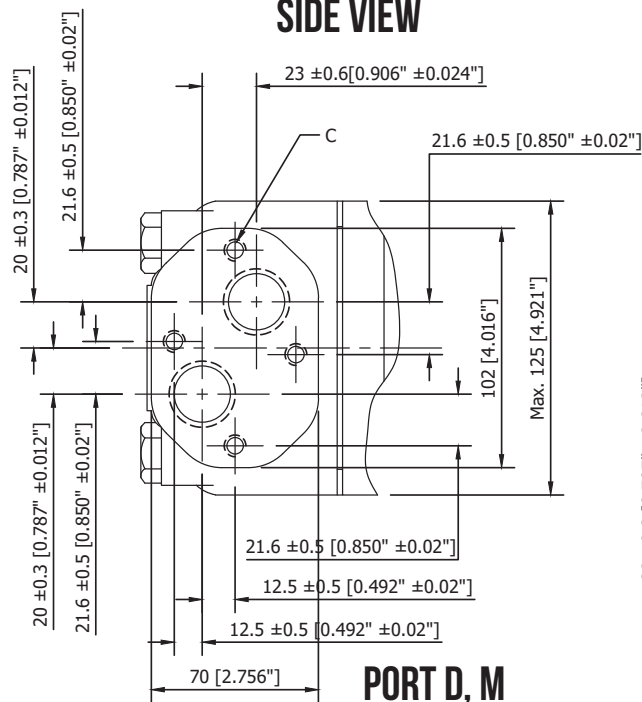
EBMT BODY DIMENSIONS

MODEL	L	L1	L2
EBMT-160	193 (7.598")	17 (0.669")	142.5 (5.61")
EBMT-200	197 (7.756")	21 (0.827")	146.5 (5.768")
EBMT-250	204 (8.031")	14 (0.551")	152.5 (6.004")
EBMT-315	210 (8.268")	20 (0.787")	158.5 (6.24")
EBMT-400	217 (8.543")	27 (1.063")	165.5 (6.516")
EBMT-500	225 (8.858")	35 (1.378")	173.5 (6.831")
EBMT-630	237 (9.331")	47 (1.85")	185.5 (7.303")
EBMT-800	248 (9.764")	58 (2.283")	196.5 (7.736")

PLAN VIEW



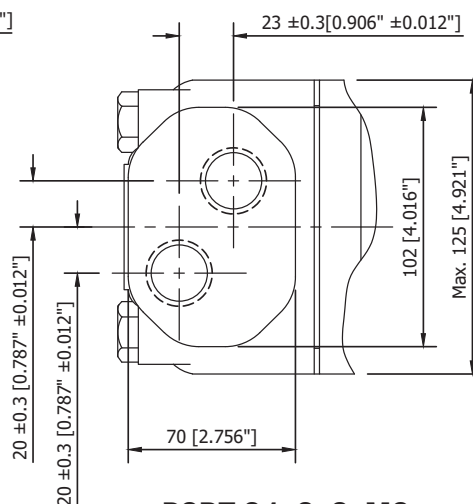
SIDE VIEW



PORT D, M

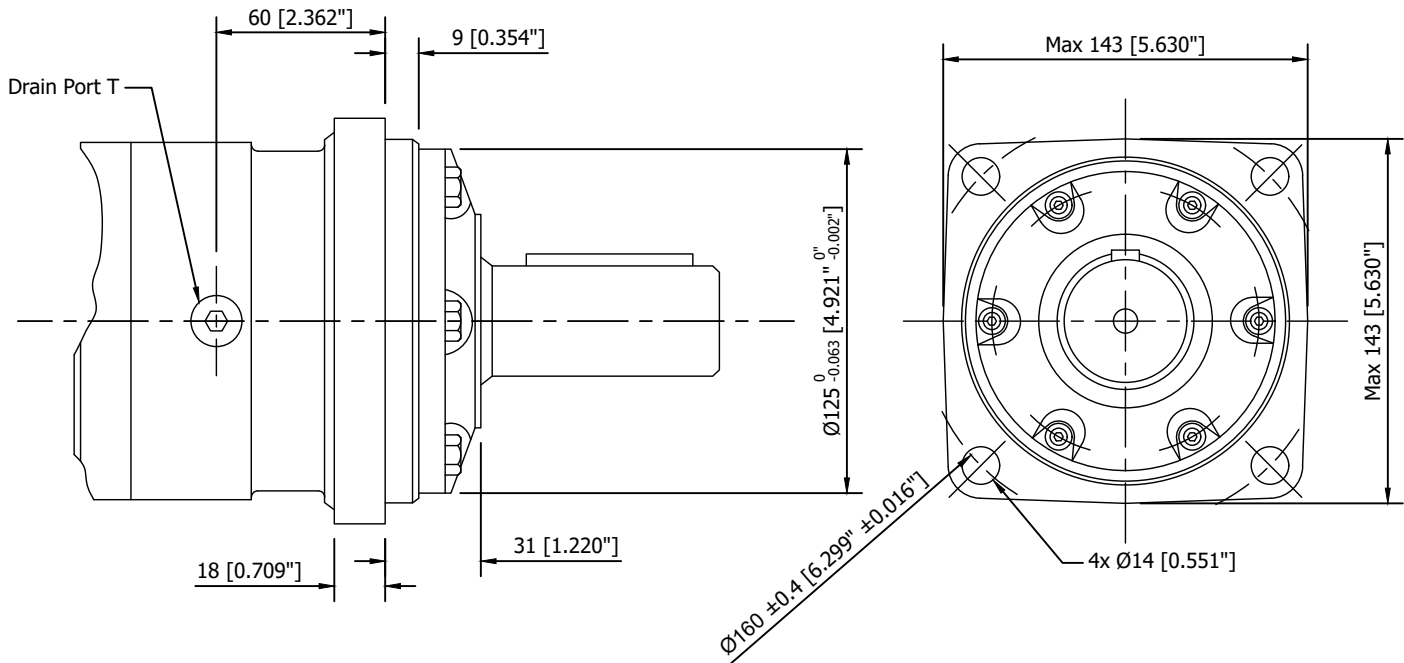
EBMTW BODY DIMENSIONS

MODEL	L	L1	L2
EBMTW-160	127 (5")	17 (0.669")	77 (3.031")
EBMTW-200	131 (5.157")	21 (0.827")	81 (3.189")
EBMTW-250	136 (5.354")	14 (0.551")	86 (3.386")
EBMTW-315	142 (5.591")	20 (0.787")	91 (3.583")
EBMTW-400	148 (5.827")	27 (1.063")	98 (3.858")
EBMTW-500	157 (6.181")	35 (1.378")	106 (4.173")
EBMTW-630	169 (6.654")	47 (1.85")	118 (4.646")
EBMTW-800	180 (7.087")	58 (2.283")	129 (5.079")



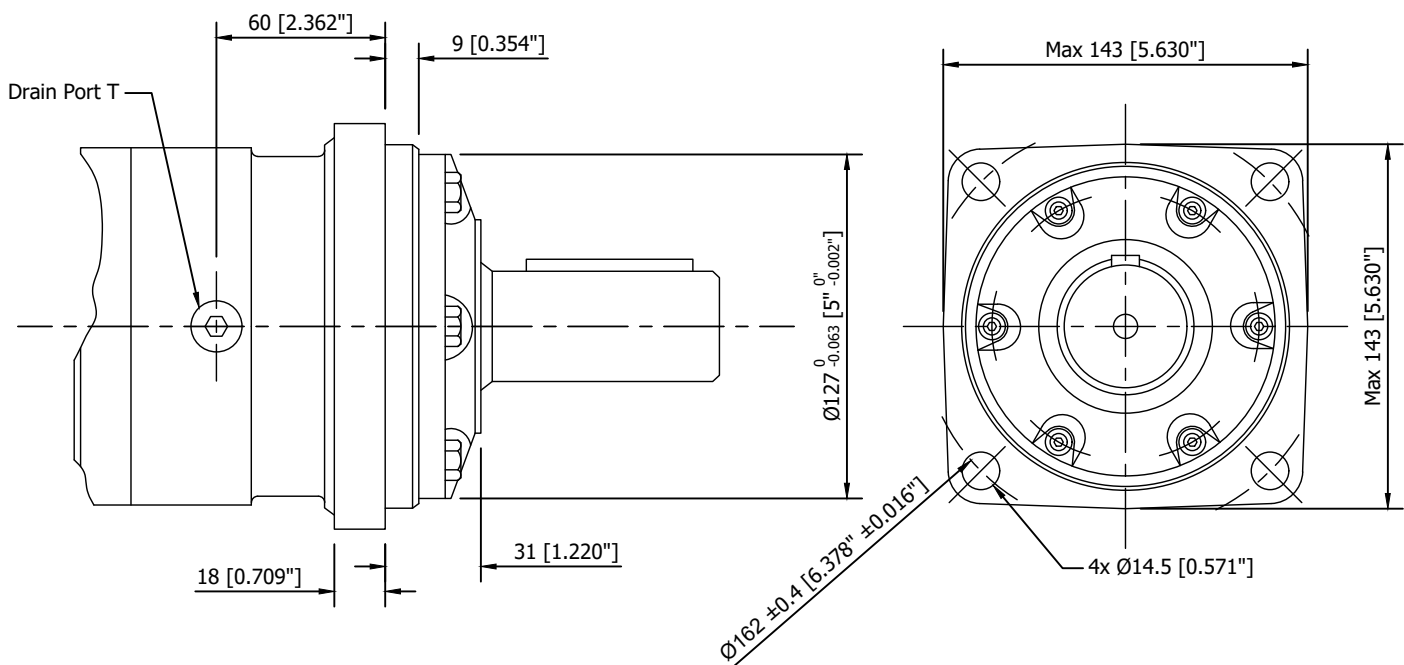
PORT S1, S, G, M3

FLANGE 4



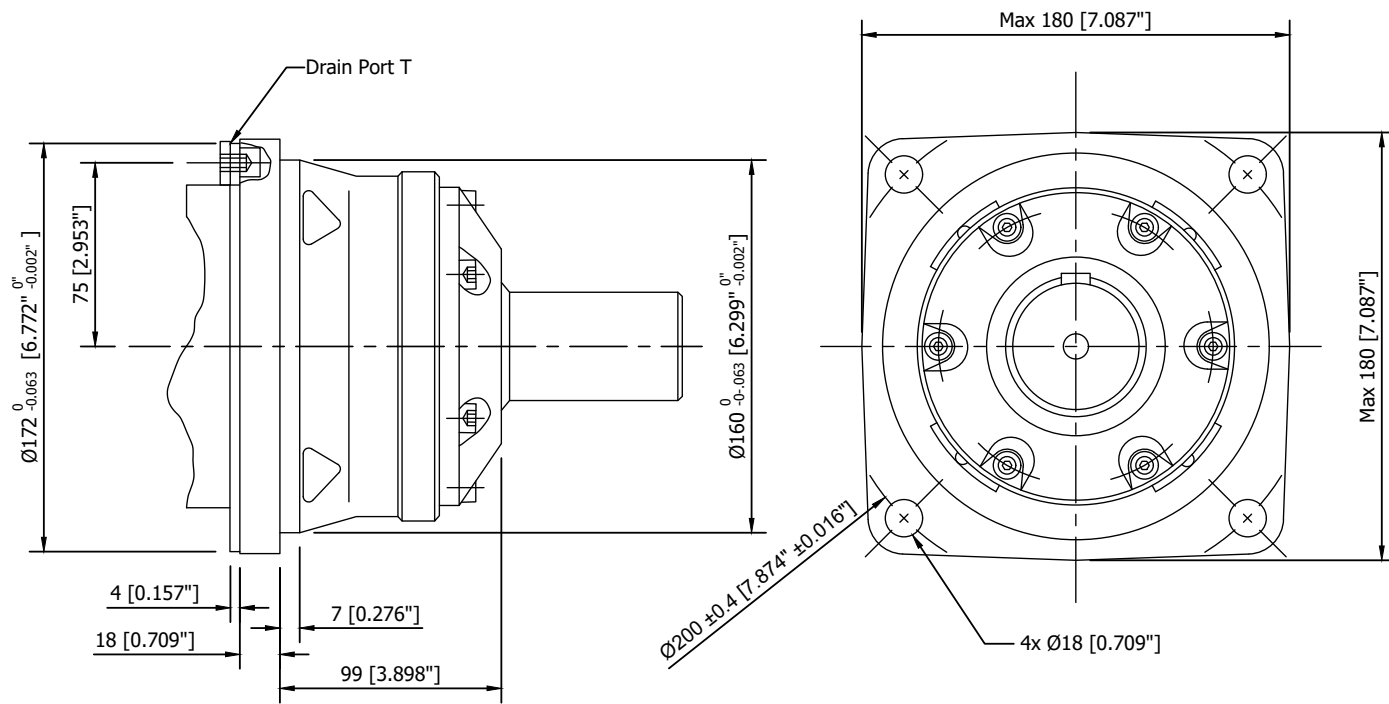
EBMT

FLANGE K6

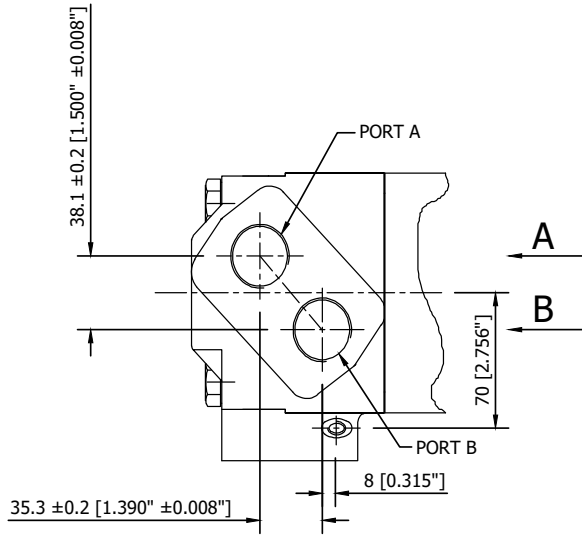


FLANGE W

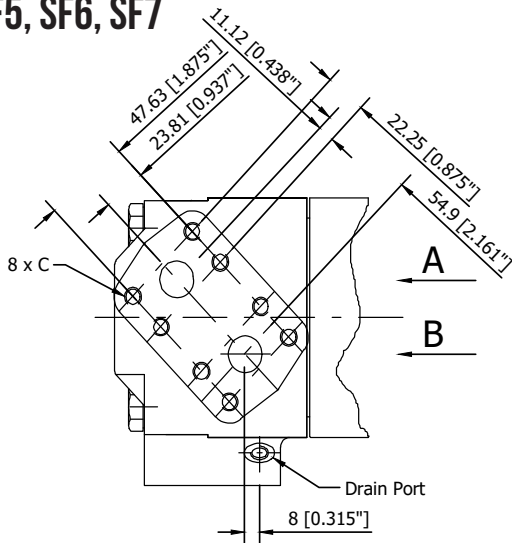
EBMT



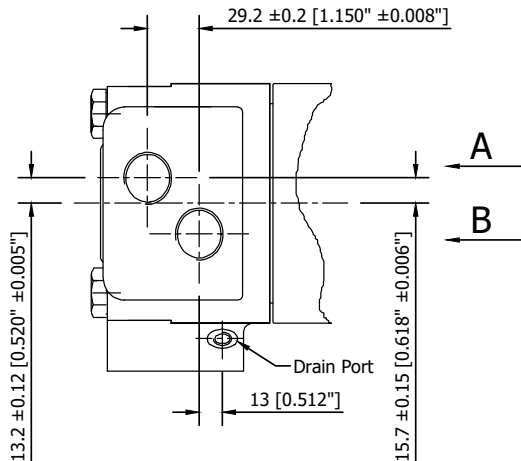
EBMTE DIMENSIONS AND MOUNTING



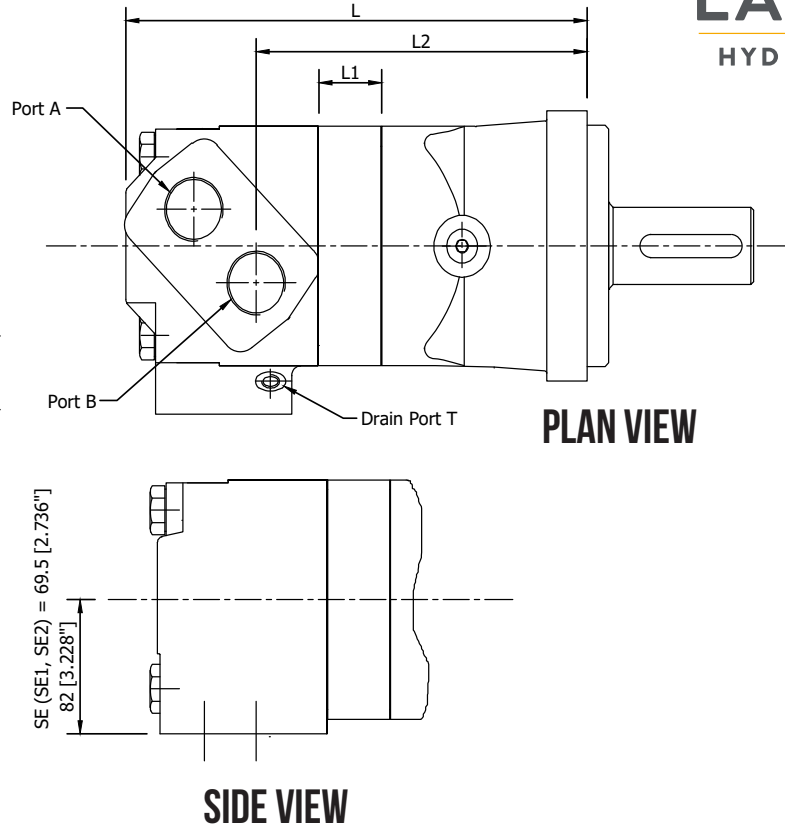
PORT SF5, SF6, SF7



PORT SF



PORT SE, SE1, SE2



MODEL	L	L1	L2
EBMTE-230	238.5 (9.39")	12 (0.472")	164.5 (6.476")
EBMTE-250	240.5 (9.469")	14 (0.551")	166.5 (6.555")
EBMTE-315	246.5 (9.705")	20 (0.787")	172.5 (6.791")
EBMTE-400	253.5 (9.98")	27 (1.063")	179.5 (7.067")
EBMTE-500	261.5 (10.295")	35 (1.378")	187.5 (7.382")
EBMTE-630	273.5 (10.768")	47 (1.85")	199.5 (7.854")
EBMTE-800	284.5 (11.201")	58 (2.283")	210.5 (8.287")

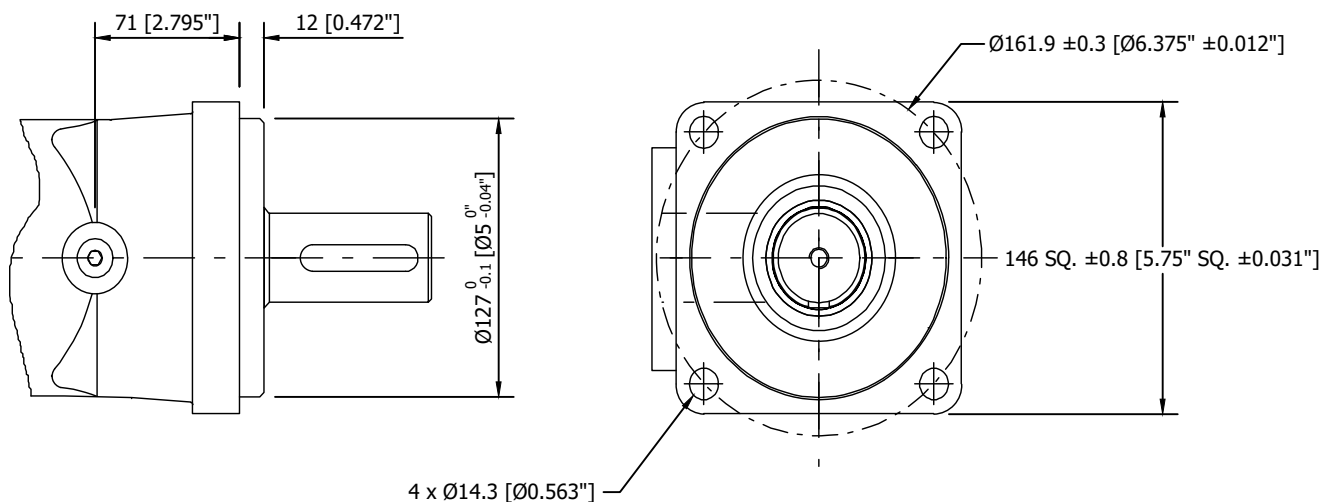
Notes:

- 1) The data for the port of SF (SF5 and SF6 and SF7)
- 2) The data for the port of SE (SE1 and SE2) and flange WE: L-70 and L2-59.
- 3) The thickness of the stator and rotor for disp, from 230 to 800 is the dimension of L1 adding on 7mm.

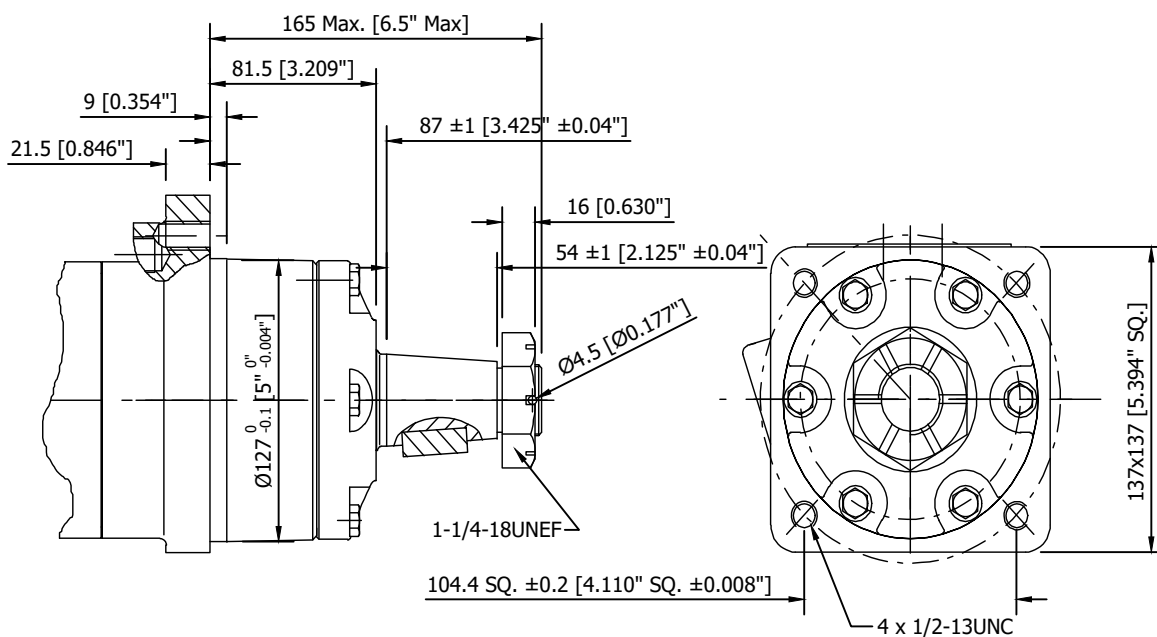
MOUNTING	PORTS CODE (Depth mm)						
	SF5	SF6	SF7	SF	SE	SE1	SE2
P (A, B)	1-5/16-12UN (18)	M33 x 2 (18)	G1 (18)	3/4" (18)	1-1/16-12UN (18)	1-1/16-12UN (18)	G3/4 (18)
T	7/16-20UNF (12)	M14 x 1.5 (12)	G1/4 (12)	7/16-20UNF (12)	9/16-18UNF (12)	7/16-20UNF (12)	G1/4 (12)
C	--	--	--	8 x 3/8-16UNC	--	--	--

FLANGE CC

EBMT



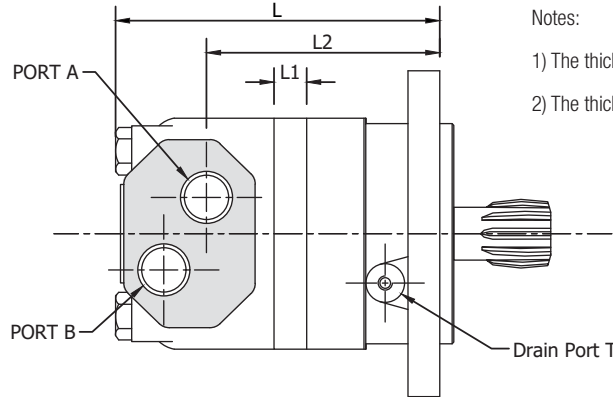
FLANGE WE



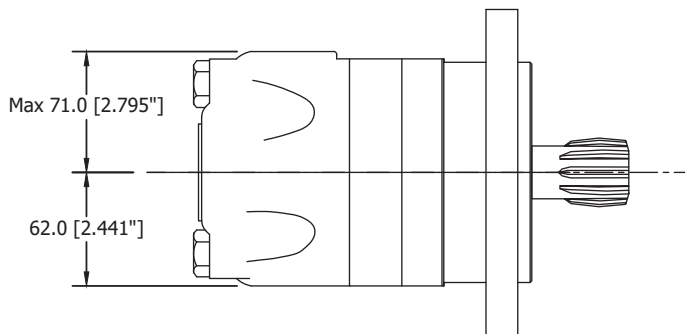
Internal construction: with tapered roller bearing (inboard)

EBMTS DIMENSIONS AND MOUNTING

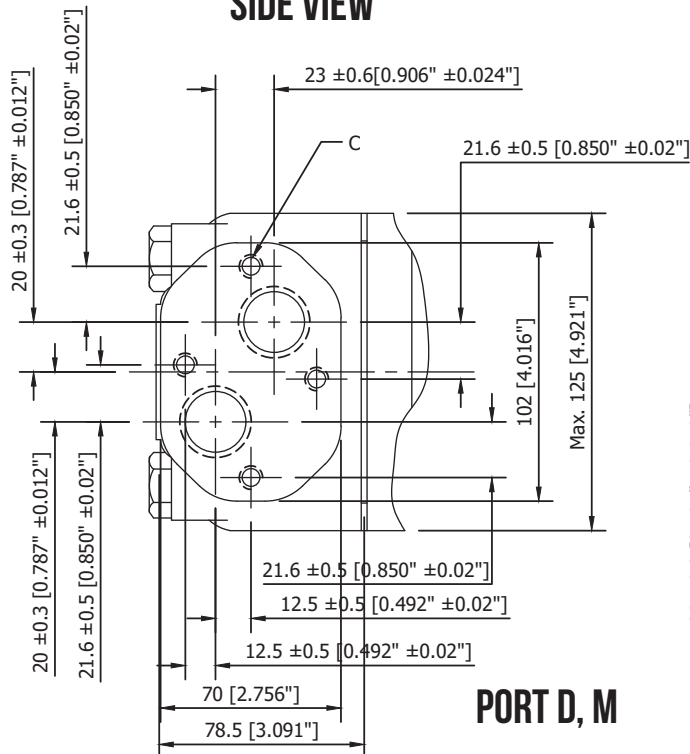
MOUNTING	PORTS CODE (Depth mm)					
	D	M	S	G	M3	S1
P (A, B)	G 3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)	G 3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)
T	G 1/4 (12)	M14 x 1.5 (12)	9/16-18UNF (12)	G 1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)
C	4x M10 (10)	4x M10 (10)	--	--	--	--



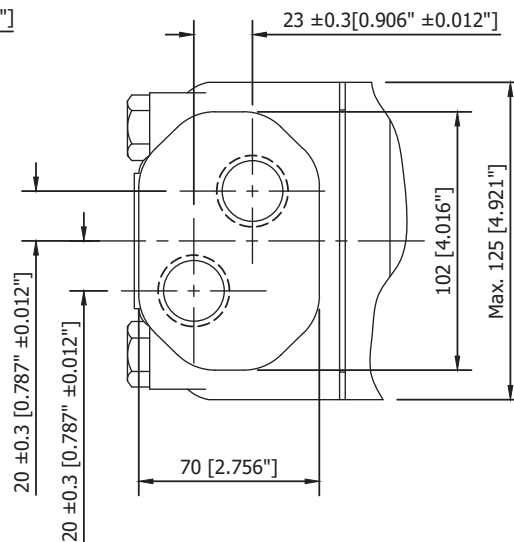
PLAN VIEW



SIDE VIEW



PORT D, M



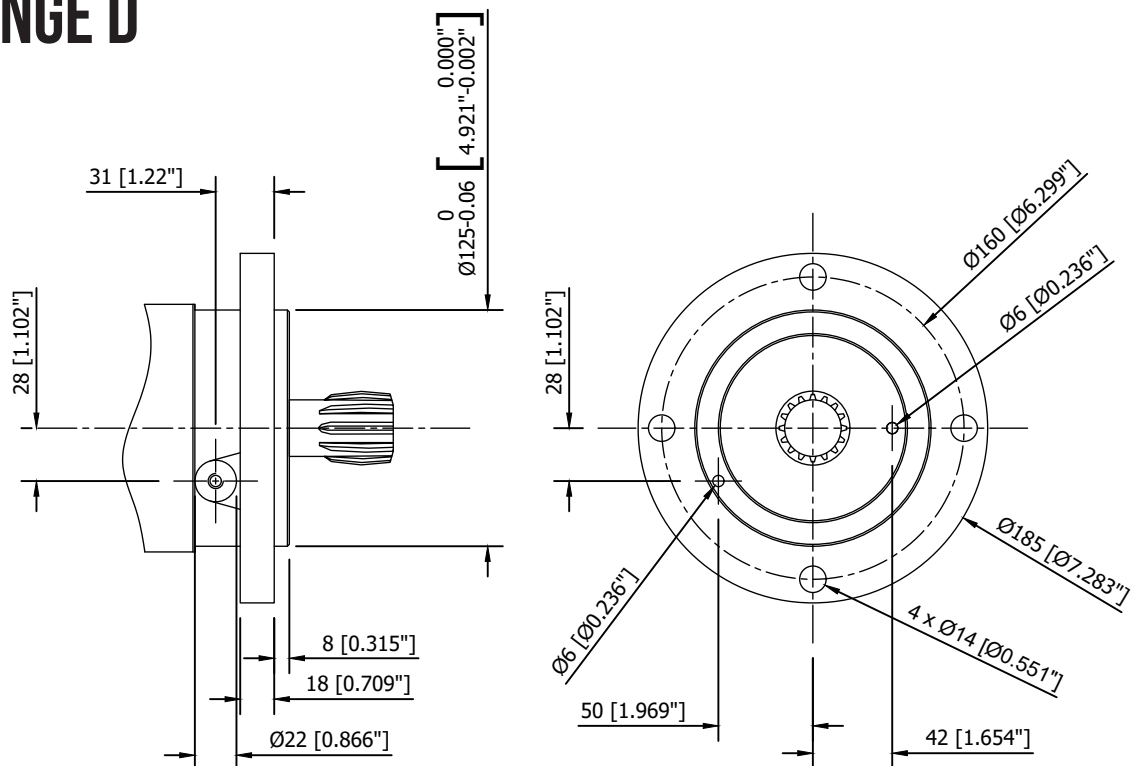
PORT S1, S, G2, M3

EBMTS BODY DIMENSIONS

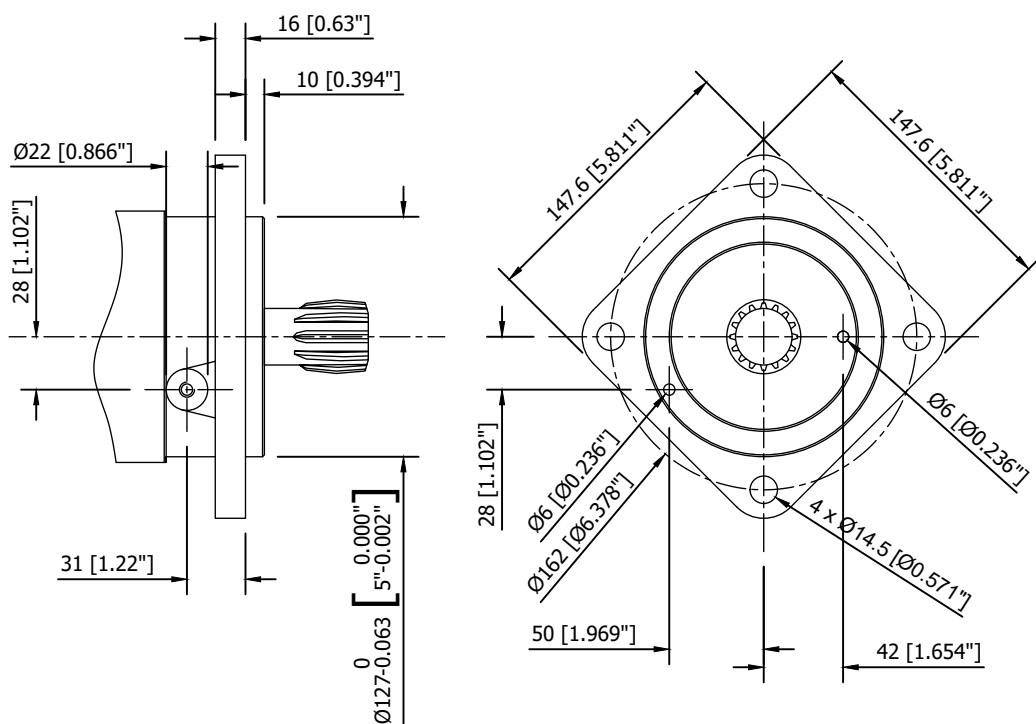
MODEL	L	L1	L2
EBMTS-160	148 (5.827")	17 (0.669")	96.5 (3.799")
EBMTS-200	152 (5.984")	21 (0.827")	100.5 (3.957")
EBMTS-250	157 (6.181")	14 (0.551")	109 (4.291")
EBMTS-315	163 (6.417")	20 (0.787")	115 (4.528")
EBMTS-400	170 (6.693")	27 (1.063")	122 (4.803")
EBMTS-500	178 (7.008")	35 (1.378")	130 (5.118")
EBMTS-630	190 (7.48")	47 (1.85")	142 (5.591")
EBMTS-800	201 (7.913")	58 (2.283")	153 (6.024")

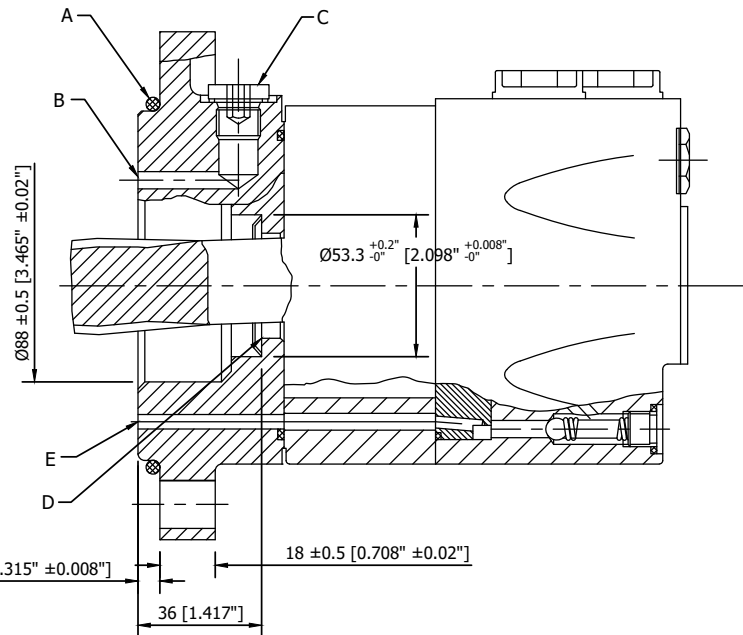
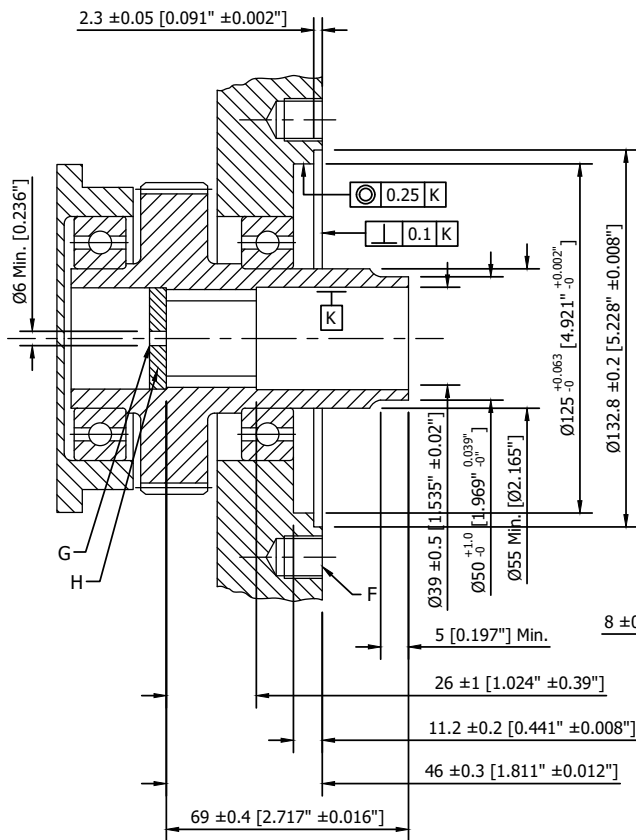


FLANGE D



FLANGE E



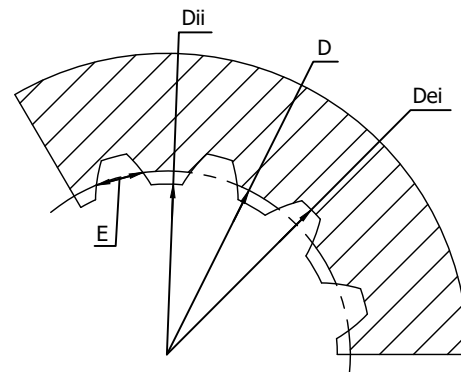


EBMT

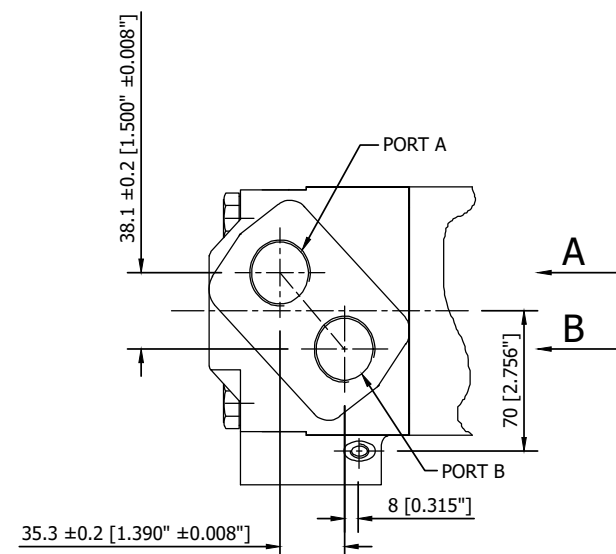
- A: O-Ring: 125 x 3**
B: External drain channel
C: Drain connection G 1/4; 12mm deep
D: Conical seal ring
E: Internal drain channel
F: M12; min. 18mm deep
G: Oil circulation hole
H: Hardened stop plate

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

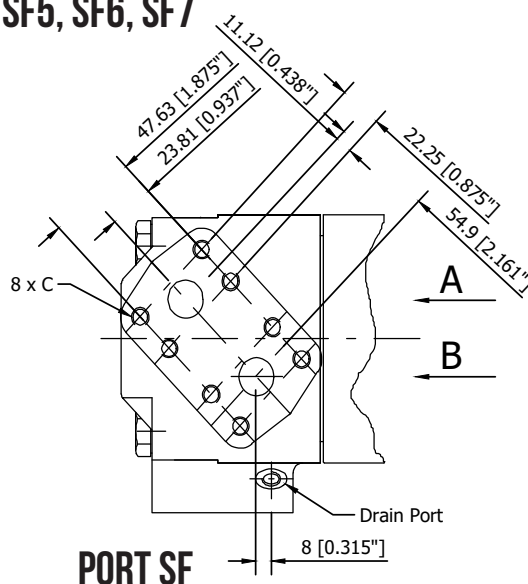
FILLET ROOT SIDE FIT		
Number of Teeth	Z	16
Diametral Pitch	DP	12/24
Pressure Angle	α_D	30°
Pitch Dia.	D	Ø33.8656mm [Ø1.333"]
Major Dia.	D_{ei}	Ø38.4 ^{+0.25} [Ø1.512" ^{+0.01} "]
Minor Dia.	D_{ij}	Ø32.15 ^{+0.04} [Ø1.266" ^{+0.002} "]
Space Width [Circular]	E	4.516 ±0.037 [0.178" ±0.001"]



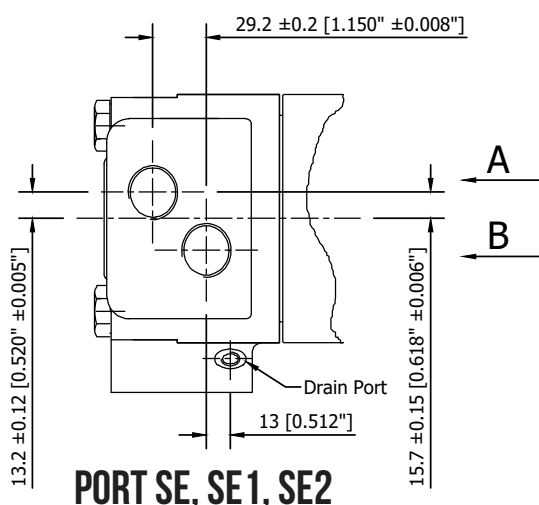
HARDENING SPECIFICATION : HRC 62 ±2
EFFECTIVE CASE DEPTH: 0.7 ±0.2



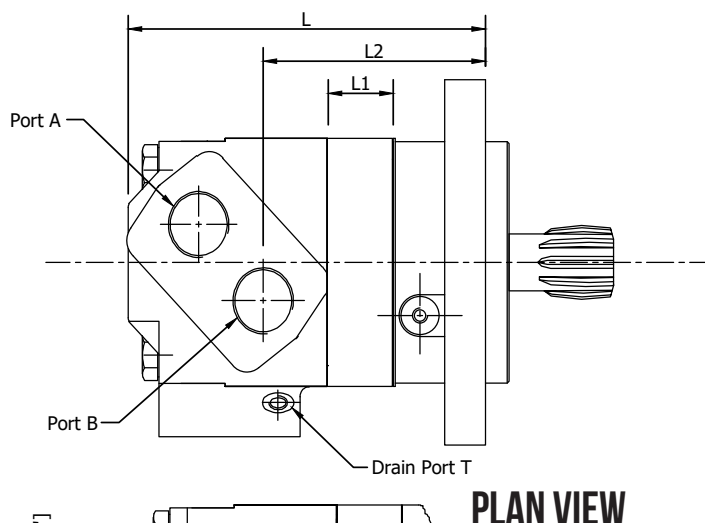
PORT SF5, SF6, SF7



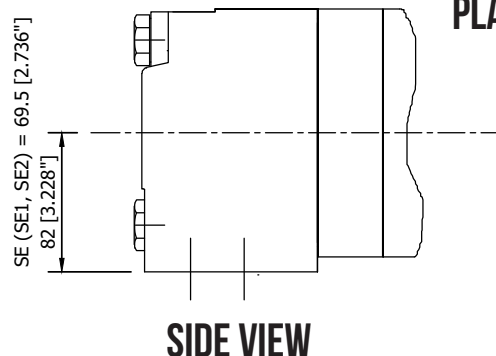
PORT SF



PORT SE, SE1, SE2



PLAN VIEW



SIDE VIEW

MODEL	L	L1	L2
EBMTJ-230	176 (6.929")	12 (0.472")	104.5 (4.114")
EBMTJ-250	178 (7.008")	14 (0.551")	106.5 (4.193")
EBMTJ-315	184 (7.244")	20 (0.787")	112.5 (4.429")
EBMTJ-400	191 (7.52")	27 (1.063")	119.5 (4.705")
EBMTJ-500	199 (7.835")	35 (1.378")	127.5 (5.02")
EBMTJ-630	211 (8.307")	47 (1.85")	139.5 (5.492")
EBMTJ-800	222 (8.74")	58 (2.283")	150.5 (5.925")

Notes:

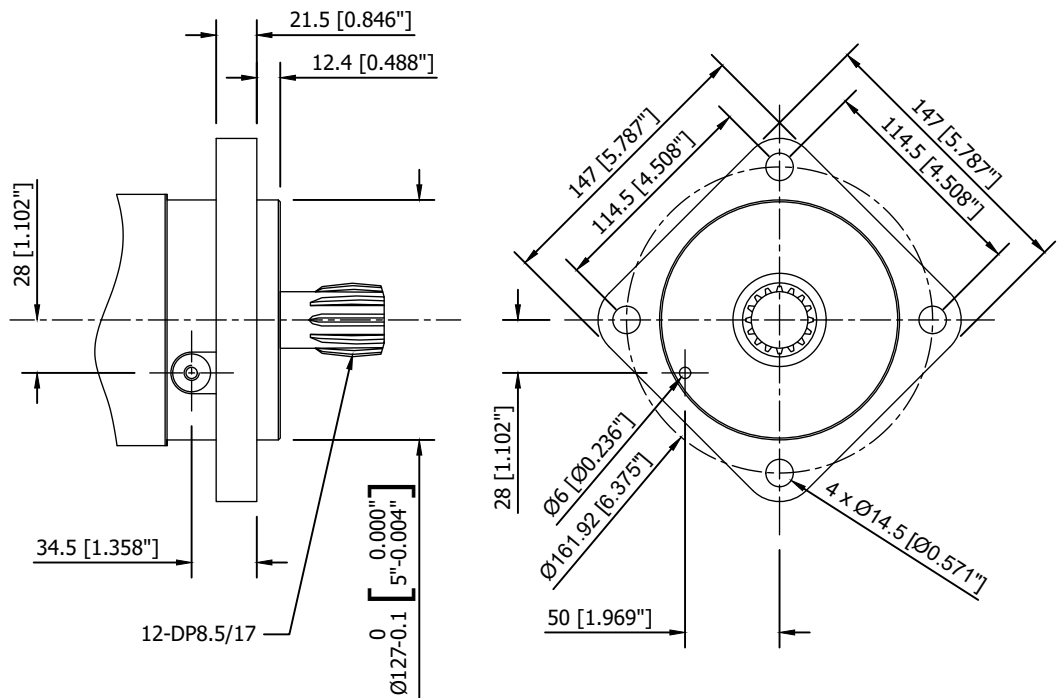
1) The data for the port of SF (SF5 and SF6 and SF7)

2) The data for the port of SE (SE1 and SE2) and flange WE: L-70 and L2-59.

3) The thickness of the stator and rotor is the dimension of L1 adding on 7mm.

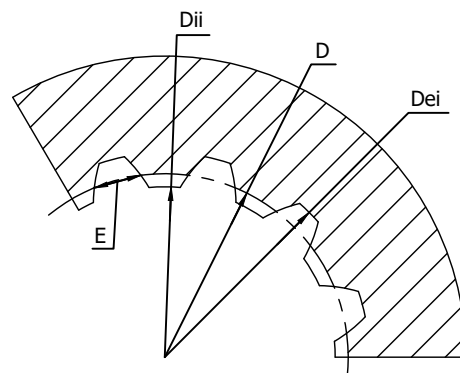
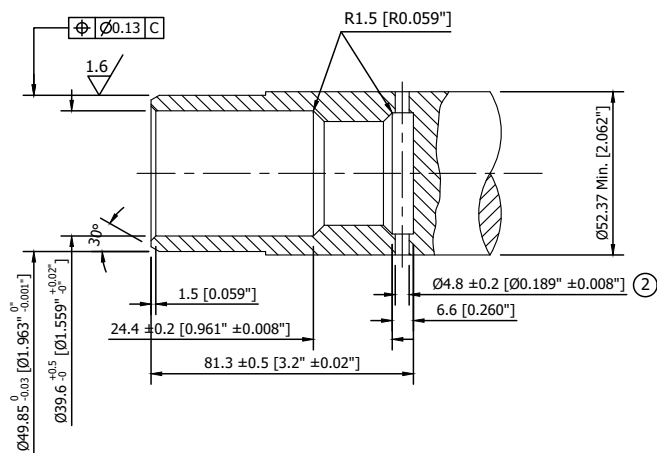
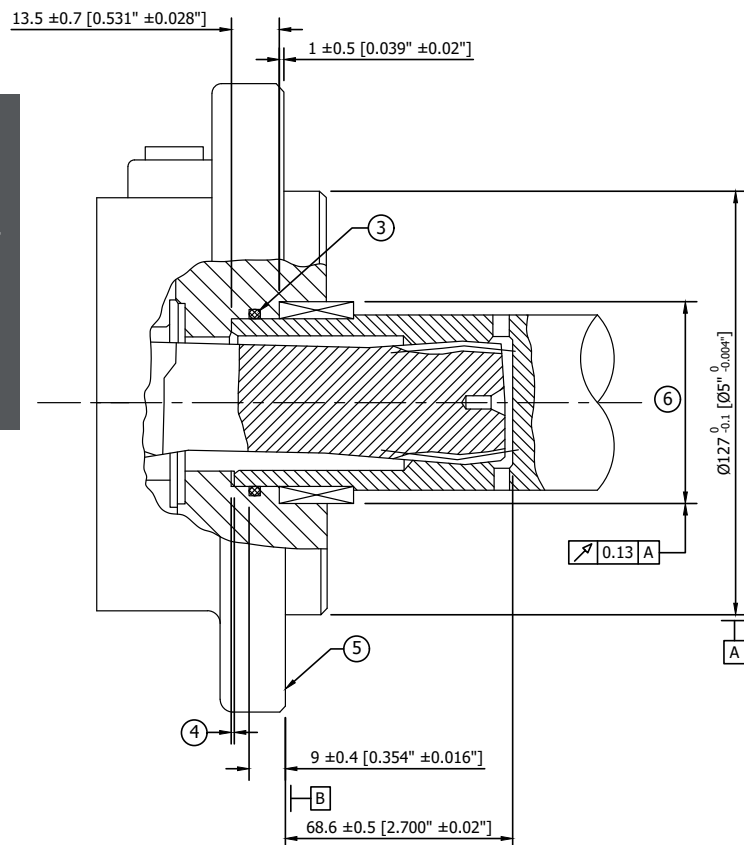
MOUNTING	PORTS CODE (Depth mm)						
	SF5	SF6	SF7	SF	SE	SE1	SE2
P (A, B)	1-5/16-12UN (18)	M33 x 2 (18)	G1 (18)	3/4" (18)	1-1/16-12UN (18)	1-1/16-12UN (18)	G3/4 (18)
T	7/16-20UNF (12)	M14 x 1.5 (12)	G1/4 (12)	7/16-20UNF (12)	9/16-18UNF (12)	7/16-20UNF (12)	G1/4 (12)
C	--	--	--	8 x 3/8-16UNC	--	--	--

FLANGE J



EBMT

EBMT



INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

FILLET ROOT SIDE FIT		
Number of Teeth	Z	12
Diametral Pitch	DP	8.5/17
Pressure Angle	a _D	30°
Pitch Dia.	D	Ø35.858823mm [Ø1.412"]
Major Dia.	D _{ei}	Ø38.97 ^{+0.20} ₀ [Ø1.534" ^{+0.01"} ₀]
Minor Dia.	D _{ii}	Ø33.3 ^{+0.18} ₀ [Ø1.311" ^{+0.008"} ₀]
Space Width [Circular]	E	5.866 ±0.032 [0.231" ±0.001"]
Dimension between tow pins (Ø4mm [Ø0.157"])	M _e	26.929 - 27.084 [1.060" - 1.066"]

1) Internal spline in mating part to be as follows: Material to be ASTM A304, 8620H. Carburized to a hardness of 60-64HRC with case depth (to 50HRC) of 0.75-1 [0.030-.040] (dimensions apply after heat treat).

2) Mating part to have critical dimensions as shown, Oil holes must be provided and open for proper oil circulation.

3) Maintenance and cleaning between shaft and mounting flange must be provided.

4) Seal to be furnished with motor for proper oil circulation thru splines.

5) Similar to SAE "C" Four Bolt Flange.

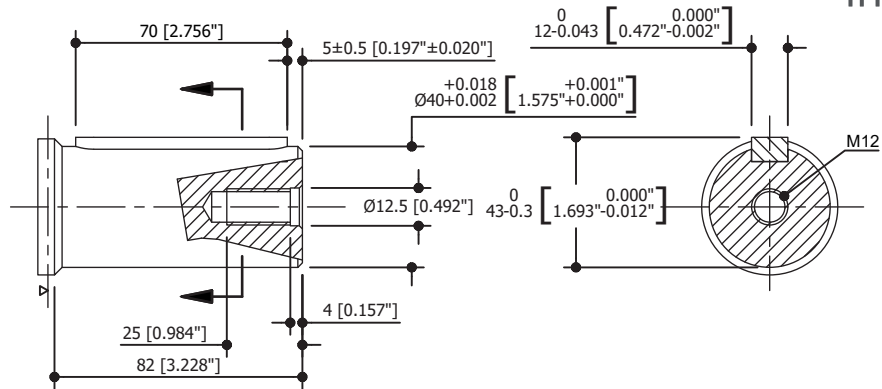
6) Counterbore designed to adapt to a standard sleeve bearing 50.010-50.038 [1.9689-1.9700] ID by 60.51-60.079 [2.3642-2.3653] O.D. (Oilite bronze sleeve bearing).

EBMT(E) SHAFT EXTENSIONS

DIMENSIONS

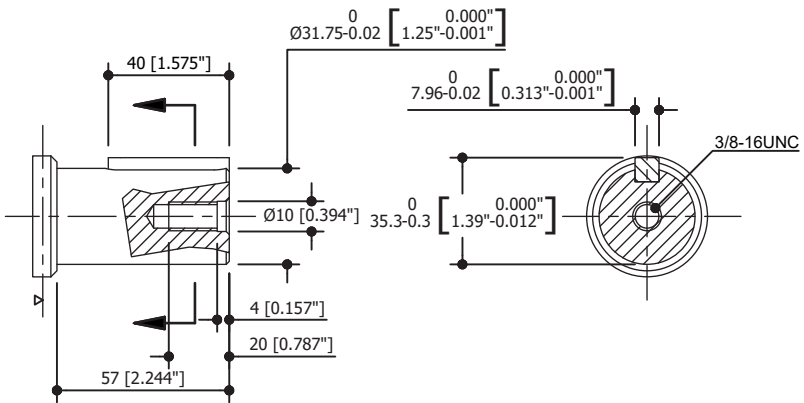
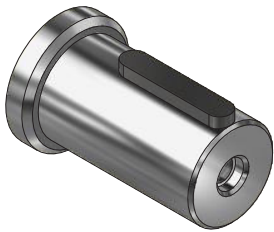
SHAFT M

Cylindrical Shaft Ø40
Parallel Key 12x8x70
METRIC



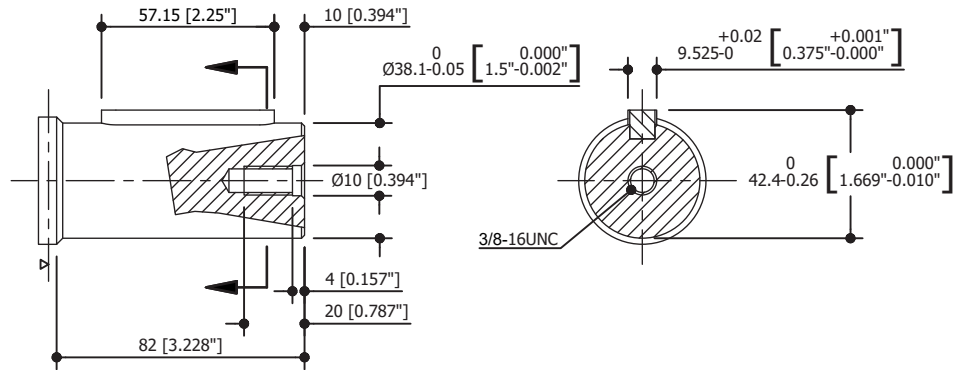
SHAFT G1

Cylindrical Shaft Ø1-1/4"
Parallel Key 5/16"x5/16"x40mm
IMPERIAL



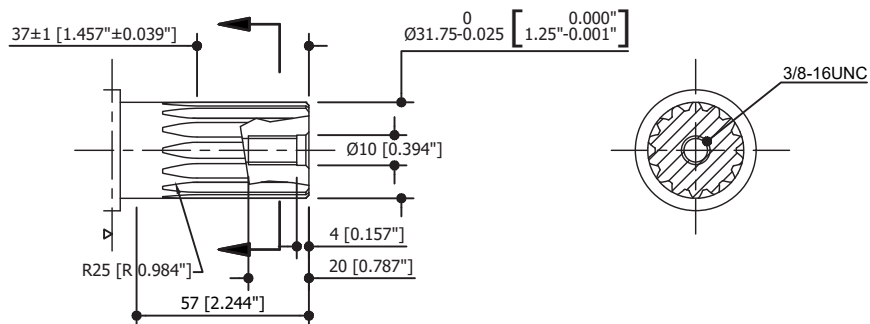
SHAFT G

Cylindrical Shaft Ø1-1/2"
Parallel Key 3/8"x3/8"x2-1/4"
IMPERIAL



SHAFT F1

Splined 14-DP12/24

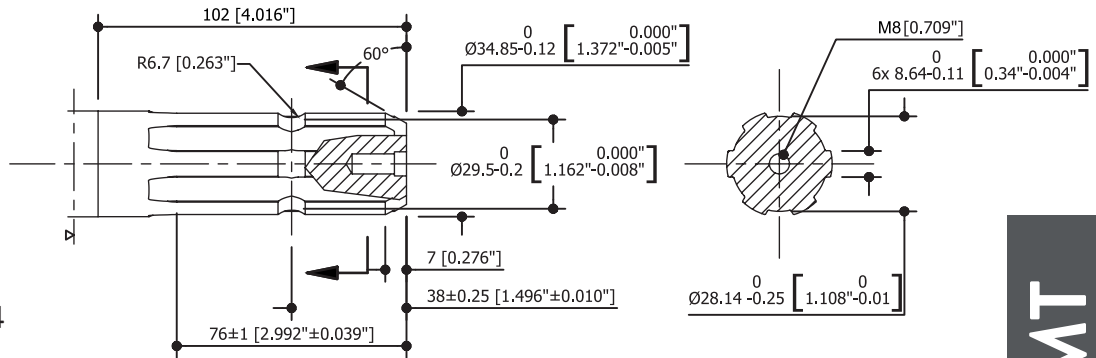


EBMT(E) SHAFT EXTENSIONS

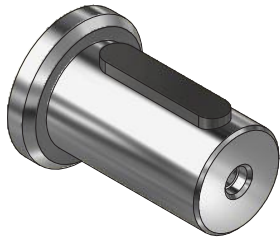
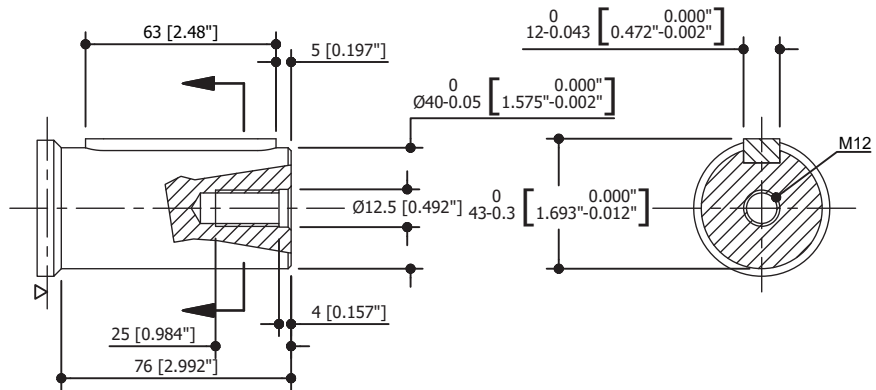
DIMENSIONS



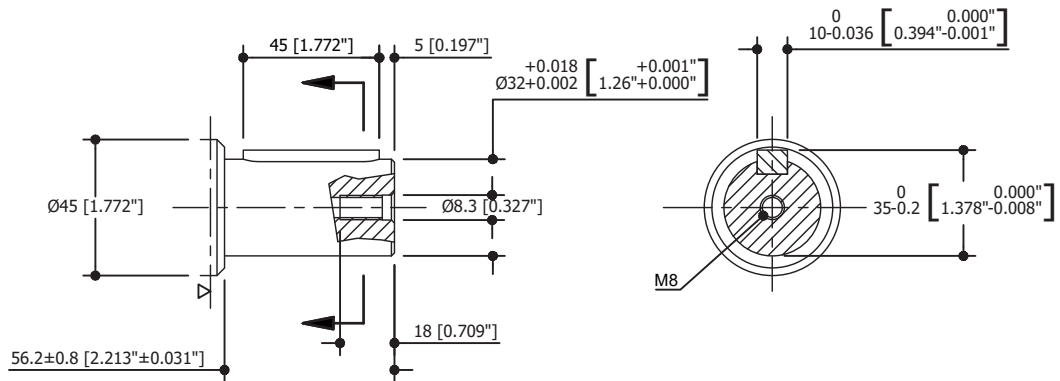
SHAFT SL
SPLINED 6-34.85x28.14x8.64



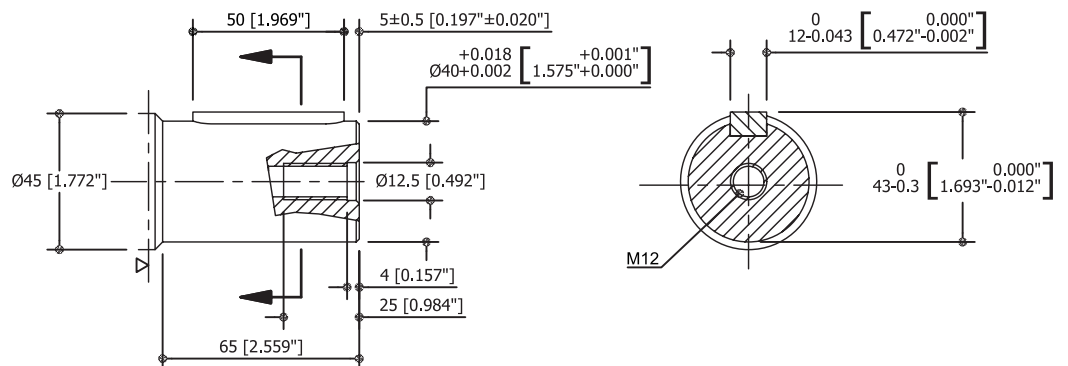
SHAFT Y1
Cylindrical Shaft Ø40
Parallel Key 12 x 8 x 63
METRIC



SHAFT B
Cylindrical Shaft Ø32
Parallel Key 10 x 8 x 45
METRIC



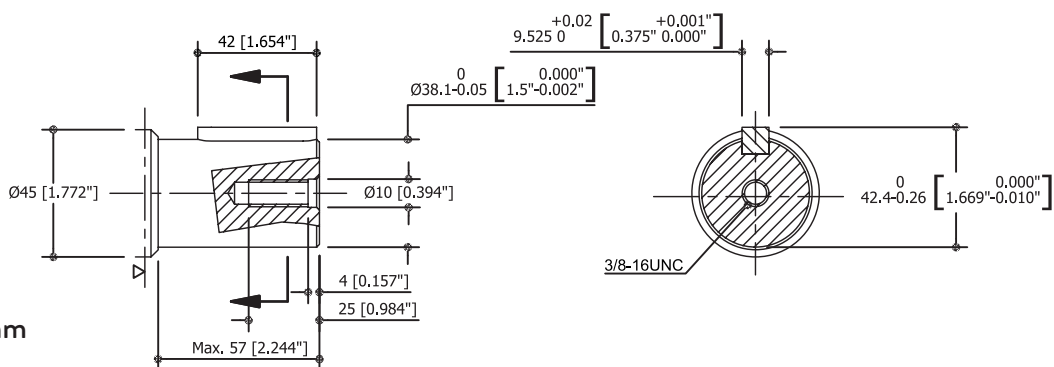
SHAFT Y
Cylindrical Shaft Ø40
Parallel Key 12 x 8 x 50
METRIC





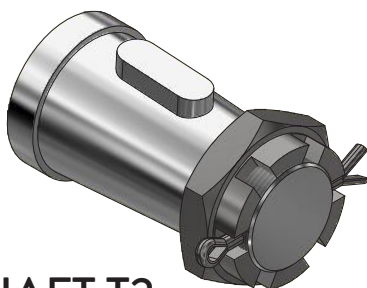
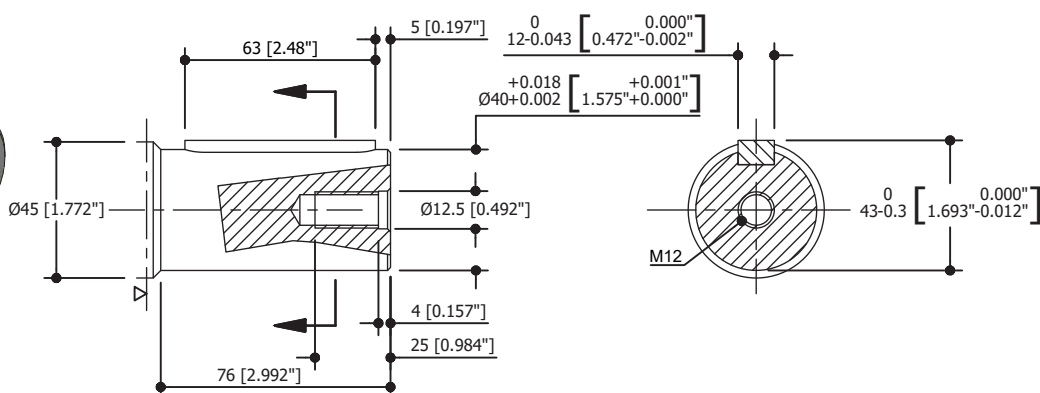
SHAFT G2

Cylindrical Shaft Ø1-1/2"
Parallel Key 3/8" x 3/8" x 42mm
IMPERIAL



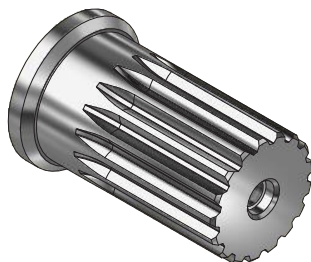
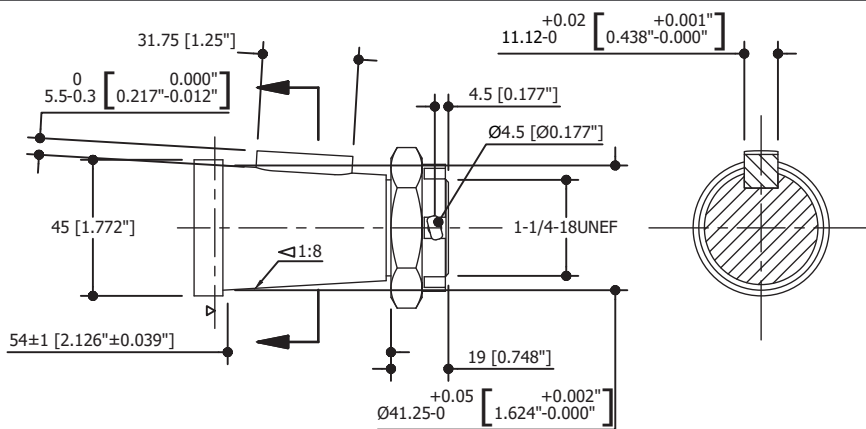
SHAFT Y2

Cylindrical Shaft Ø40
Parallel Key 12 x 8 x 63
METRIC



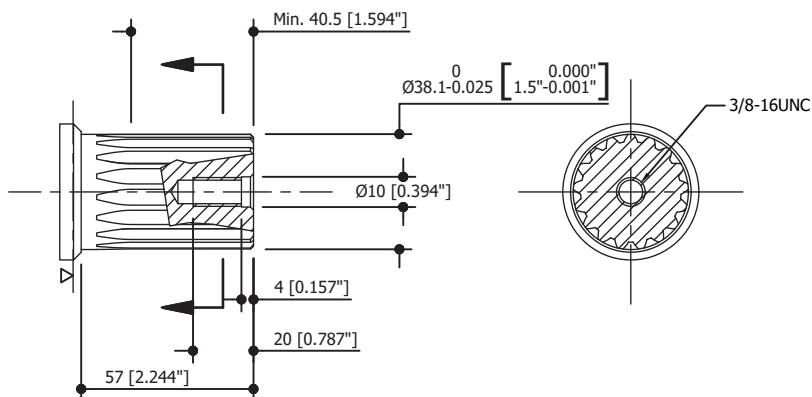
SHAFT T2

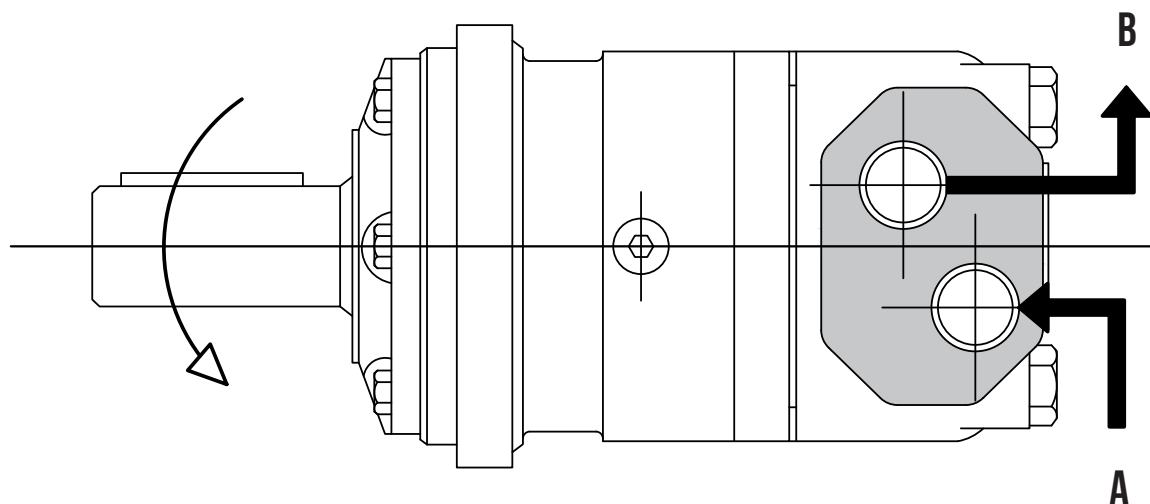
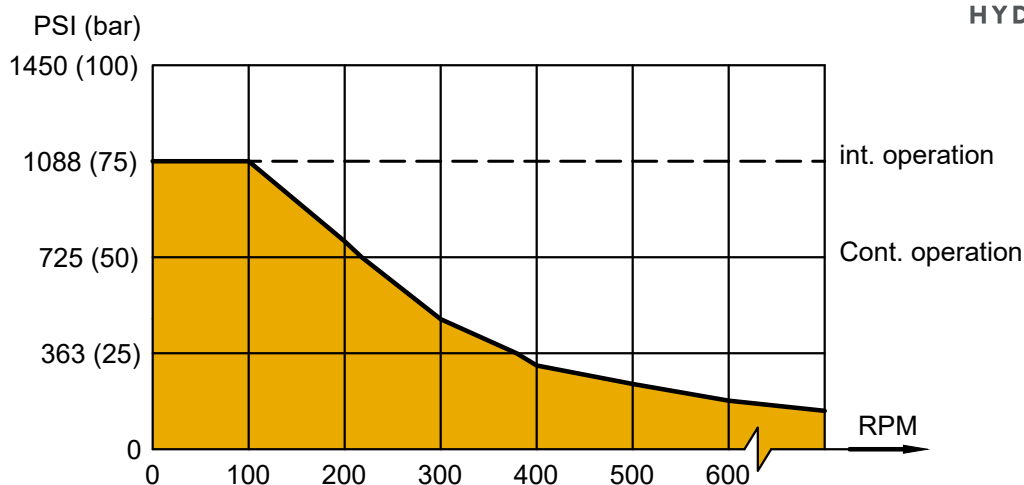
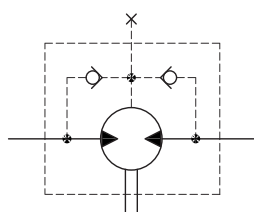
Cone Shaft Ø1-5/8"
Parallel Key 7/16" x 7/16" x 1-1/4"
Tightening Torque: 500 ±10Nm



SHAFT FE

Splined 17-DP12/24





EBMT - DIRECTION OF SHAFT ROTATION : STANDARD

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.

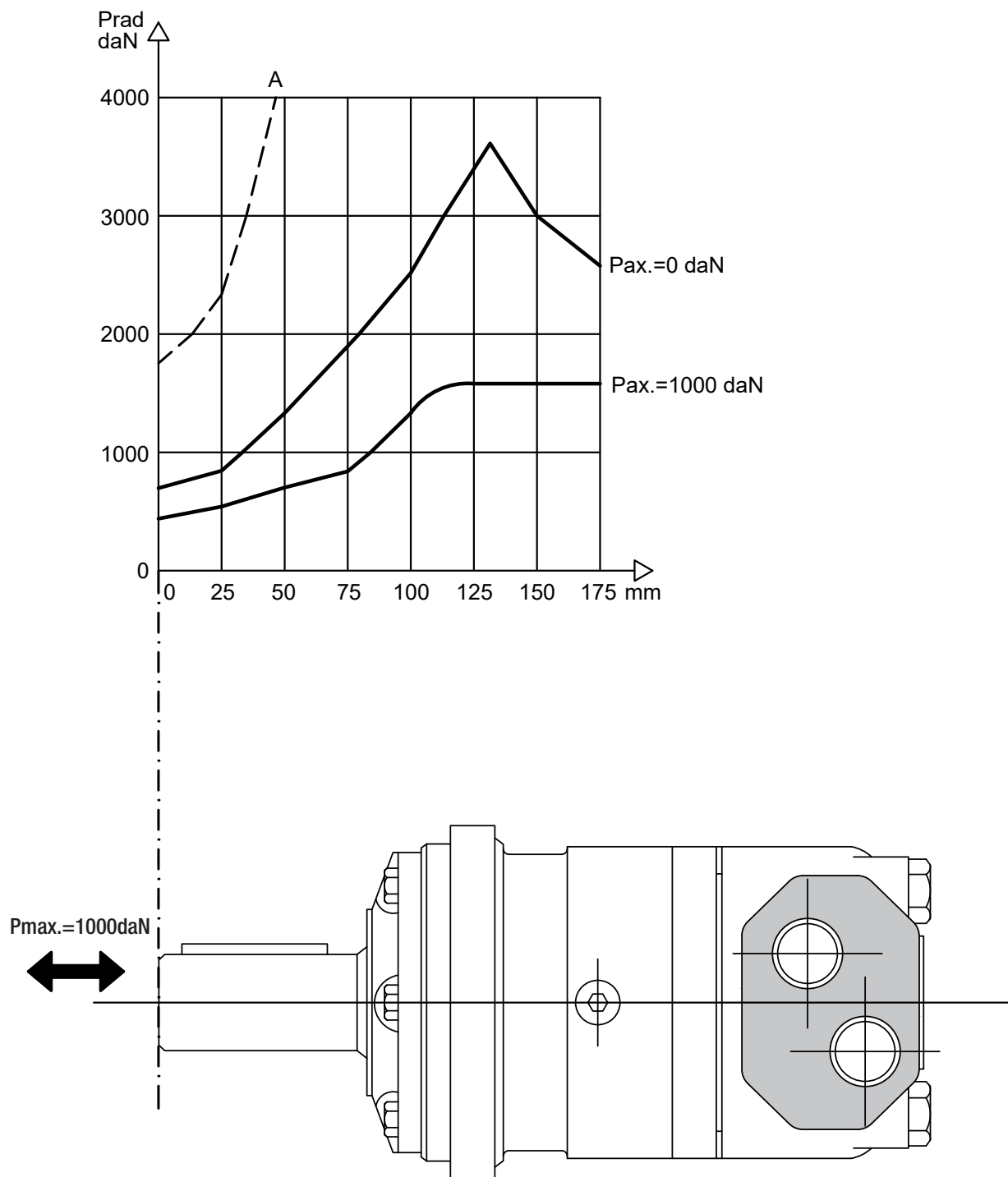
OIL FLOW IN DRAIN LINE

The table shows the max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
2030 (140)	0.031 (20)	0.66 (2.5)
	0.054 (35)	0.40 (1.5)
3045 (210)	0.031 (20)	1.32 (5)
	0.054 (35)	0.79 (3)

In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.





The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load. Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

Internal construction: no bearing, no bushing

EBMV series motor adapts the advanced Geroler gear set designed with disc distribution flow and high pressure. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in disc distribution.

EBMV

		EBMV 315	EBMV 400	EBMV 500	EBMV 630	EBMV 800	EBMV 1000
Geometric displacement	in ³ /rev (cm ³ /rev.)	20.32 (333)	25.57 (419)	31.61 (518)	40.64 (666)	48.88 (801)	60.41 (990)
Max. Speed	Continuous (rpm)	510	500	400	320	250	200
	Intermittent (rpm)	630	600	480	380	300	240
Max. Torque	Continuous lbf•ft (N•m)	679 (920)	870.8 (1180)	1077.5 (1460)	1225.1 (1660)	1387.4 (1880)	1487.1 (2015)
	Intermittent lbf•ft (N•m)	819.2 (1110)	1040.6 (1410)	1298.9 (1760)	1431.7 (1940)	1557.2 (2110)	1682.6 (2280)
	Peak lbf•ft (N•m)	952 (1290)	1210.3 (1640)	1512.9 (2050)	1631 (2210)	1822.9 (2470)	1771.2 (2400)
Max. Output	Continuous hp (kW)	51 (38)	63 (47)	63 (47)	53.6 (40)	44.3 (33)	38.4 (28.6)
	Intermittent hp (kW)	61.7 (46)	75.1 (56)	75.1 (56)	75.1 (56)	59 (44)	53.6 (40)
Max. Pressure Drop	Continuous PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2611 (180)	2321 (160)	2031 (140)
	Intermittent PSI (bar)	3481 (240)	3481 (240)	3481 (240)	3046 (210)	2611 (180)	2321 (160)
	Peak PSI (bar)	4061 (280)	4061 (280)	4061 (280)	3481 (240)	3046 (210)	2611 (180)
Max. Flow	Continuous GPM (L/min)	42.3 (160)	52.9 (200)	52.9 (200)	52.9 (200)	52.9 (200)	52.9 (200)
	Intermittent GPM (L/min)	52.9 (200)	63.5 (240)	63.5 (240)	63.5 (240)	63.5 (240)	63.5 (240)
Weight	Lbs (kg)	70 (31.8)	71.7 (32.6)	73.7 (33.5)	76.8 (34.9)	80.3 (36.5)	84.9 (38.6)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



1 2 3 4 5 6 7 8

EBMV - - - - - - - -

1	2	3	4	5	6	7	8
CODE	Disp.	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
EBMV	315	4 4-Ø18 Square-Flange Ø200, Pilot Ø160 x 11	A Shaft Ø50, Parallel Key 14 x 9 x 70	D G1 Manifold Mount, 4-M12, G1/4	Omit Standard	00 No Paint	Omit Standard
	400	W 4-Ø18 Wheel-Flange Ø224, Pilot Ø180 x 10	BD Shaft Ø2-1/8", Splined key 16-DP8/16	M M33 x 2 Manifold Mount, 4-M12, M14 x 1.5	R Opposite	Omit Black	
	500		B Shaft Ø2-1/8", Splined key 16-DP8/16	S 1-5/16-12UN, 9/16-18UNF			
	630		C Shaft Ø2-1/4", Parallel key 1/2"x1/2"x2-1/4"	G G1, G1/4			
	800		T Cone shaft Ø60, Parallel key 16x 10x 32	M5 M33x2, M14x1.5			
	1000		T1 Cone Shaft Ø57.2 Parallel Key 9/16"x9/16"x2"	S1 1-5/16-12UN, 7/16-20UNF			

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.

EBMV 315 - 20.32 in³/rev (333 cm³/rev)

			Max. Cont							Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1450 (100)	2031 (140)	2611 (180)	2901 (200)	3481 (240)	
	2.6 (10)	Torque lbf•ft (N•m)	103.3 (140)	217 (294)	324.7 (440)	450.2 (610)	547.6 (742)	623.6 (845)	738 (1000)	
		Speed (rpm)	26	24	23	22	20	17	14	
	5.3 (20)	Torque lbf•ft (N•m)	112.9 (153)	231.7 (314)	343.9 (466)	469.4 (636)	580.8 (787)	660.5 (895)	789.7 (1070)	
		Speed (rpm)	55	54	53	52	51	48	44	
	13.2 (50)	Torque lbf•ft (N•m)	110 (149)	230.3 (312)	343.2 (465)	482.7 (654)	601.5 (815)	690 (935)	820.7 (1112)	
		Speed (rpm)	145	144	142	140	137	133	127	
	19.8 (75)	Torque lbf•ft (N•m)	105.5 (143)	224.4 (304)	338 (458)	473.8 (642)	602.2 (816)	693.7 (940)	825.8 (1119)	
		Speed (rpm)	220	218	215	211	207	202	195	
	26.5 (100)	Torque lbf•ft (N•m)	100.4 (136)	219.2 (297)	333.6 (452)	469.4 (636)	597.8 (810)	690.8 (936)	817.7 (1108)	
		Speed (rpm)	294	292	290	287	283	278	270	
	33.1 (125)	Torque lbf•ft (N•m)	90.8 (123)	211.1 (286)	326.2 (442)	462 (626)	589.7 (799)	679.7 (921)	806.6 (1093)	
		Speed (rpm)	368	366	364	361	357	352	345	
	39.7 (150)	Torque lbf•ft (N•m)	84.1 (114)	203 (275)	321 (435)	453.9 (615)	581.5 (788)	668.6 (906)	795.6 (1078)	
		Speed (rpm)	445	443	441	437	430	422	410	
	42.3 (160)	Torque lbf•ft (N•m)	79 (107)	197.8 (268)	317.3 (430)	448.7 (608)	575.6 (780)	660.5 (895)	789.7 (1070)	
Speed (rpm)		475	473	470	466	460	452	439		
Max. Cont	52.9 (200)	Torque lbf•ft (N•m)	60.5 (82)	183.8 (249)	304.1 (412)	437.6 (593)	559.4 (758)	642.8 (871)	772.7 (1047)	
		Speed (rpm)	596	594	590	584	576	565	544	
Max. Int.										

EBMV

EBMV 400 - 25.57 in³/rev (419 cm³/rev)

		Max. Cont							Max. Int.
Pressure PSI (bar)		508 (35)	1015 (70)	1450 (100)	2031 (140)	2611 (180)	2901 (200)	3481 (240)	
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	135.1 (183)	284.1 (385)	419.2 (568)	572.7 (776)	714.4 (968)	812.5 (1101)	953.5 (1292)
		Speed (rpm)	20	20	19	18	17	16	14
	5.3 (20)	Torque lbf•ft (N•m)	144.6 (196)	293.7 (398)	435.4 (590)	601.5 (815)	745.4 (1010)	850.2 (1152)	993.3 (1346)
		Speed (rpm)	44	44	43	42	40	39	37
	13.2 (50)	Torque lbf•ft (N•m)	147.6 (200)	296.7 (402)	445 (603)	621.4 (842)	767.5 (1040)	875.3 (1186)	1055.3 (1430)
		Speed (rpm)	114	113	113	112	110	108	103
	19.8 (75)	Torque lbf•ft (N•m)	143.9 (195)	290.8 (394)	439.8 (596)	618.4 (838)	769.7 (1043)	876.7 (1188)	1056.8 (1432)
		Speed (rpm)	175	173	170	166	163	157	152
	26.5 (100)	Torque lbf•ft (N•m)	126.9 (172)	284.1 (385)	437.6 (593)	610.3 (827)	764.6 (1036)	873.8 (1184)	1051.7 (1425)
		Speed (rpm)	236	235	233	231	227	223	215
	33.1 (125)	Torque lbf•ft (N•m)	123.2 (167)	276 (374)	430.3 (583)	602.2 (816)	753.5 (1021)	868.6 (1177)	1042.8 (1413)
		Speed (rpm)	296	294	291	288	282	275	268
	39.7 (150)	Torque lbf•ft (N•m)	116.6 (158)	266.4 (361)	412.5 (559)	591.1 (801)	743.9 (1008)	859.8 (1165)	1025.8 (1390)
		Speed (rpm)	355	354	352	349	344	335	324
	46.3 (175)	Torque lbf•ft (N•m)	105.5 (143)	255.3 (346)	408.1 (553)	578.6 (784)	729.9 (989)	845 (1145)	1016.2 (1377)
		Speed (rpm)	416	414	411	407	403	396	388
Max. Cont 52.9 (200)	Torque lbf•ft (N•m)	87.1 (118)	244.3 (331)	395.6 (536)	568.3 (770)	715.1 (969)	832.5 (1128)	1000.7 (1356)	
	Speed (rpm)	475	473	469	463	455	448	439	
Max. Int. 63.5 (240)	Torque lbf•ft (N•m)	60.5 (82)	222.1 (301)	373.4 (506)	546.1 (740)	695.9 (943)	814.8 (1104)	983 (1332)	
	Speed (rpm)	571	569	565	548	539	530	520	

All numbers given are nominal values and should be used for reference only.

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EBMV 500 - 31.61 in³/rev (518 cm³/rev)

								Max. Cont	Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	1015 (70)	1450 (100)	2031 (140)	2611 (180)	2901 (200)	3481 (240)
	2.6 (10)	Torque lbf•ft (N•m)	178.6 (242)	345.4 (468)	513.6 (696)	707.7 (959)	878.2 (1190)	998.5 (1353)	1186 (1607)
		Speed (rpm)	17	17	16	16	15	13	11
	5.3 (20)	Torque lbf•ft (N•m)	180.8 (245)	369.7 (501)	544.6 (738)	740.2 (1003)	909.2 (1232)	1028.8 (1394)	1223.6 (1658)
		Speed (rpm)	36	35	35	34	33	32	29
	13.2 (50)	Torque lbf•ft (N•m)	177.1 (240)	369 (500)	559.4 (758)	756.5 (1025)	937.3 (1270)	1069.4 (1449)	1286.3 (1743)
		Speed (rpm)	93	92	91	90	88	85	80
	19.8 (75)	Torque lbf•ft (N•m)	172 (233)	367.5 (498)	555 (752)	760.1 (1030)	950.5 (1288)	1088.6 (1475)	1303.3 (1766)
		Speed (rpm)	140	139	137	135	132	127	120
	26.5 (100)	Torque lbf•ft (N•m)	168.3 (228)	362.4 (491)	552 (748)	757.2 (1026)	951.3 (1289)	1086.3 (1472)	1298.9 (1760)
		Speed (rpm)	189	187	185	182	178	173	166
	33.1 (125)	Torque lbf•ft (N•m)	162.4 (220)	356.5 (483)	547.6 (742)	748.3 (1014)	944.6 (1280)	1077.5 (1460)	1287.8 (1745)
		Speed (rpm)	237	236	234	231	227	223	216
	39.7 (150)	Torque lbf•ft (N•m)	148.3 (201)	343.2 (465)	533.6 (723)	743.9 (1008)	922.5 (1250)	1054.6 (1429)	1281.2 (1736)
		Speed (rpm)	287	286	284	281	276	270	260
	46.3 (175)	Torque lbf•ft (N•m)	134.3 (182)	329.1 (446)	524.7 (711)	735.8 (997)	913.6 (1238)	1037.6 (1406)	1265.7 (1715)
Speed (rpm)		335	334	332	329	325	320	310	
Max. Cont	52.9 (200)	Torque lbf•ft (N•m)	118.8 (161)	312.2 (423)	498.9 (676)	718.8 (974)	898.9 (1218)	1022.1 (1385)	1252.4 (1697)
		Speed (rpm)	384	383	381	378	374	366	354
Max. Int.	63.5 (240)	Torque lbf•ft (N•m)	88.6 (120)	279 (378)	459 (622)	679.7 (921)	864.9 (1172)	988.9 (1340)	1217.7 (1650)
		Speed (rpm)	461	459	457	454	450	444	432

EBMV 630 - 40.64 in³/rev (666 cm³/rev)

								Max. Cont	Max. Int.
Flow GPM (L/min)	Pressure PSI (bar)		508 (35)	870 (60)	1305 (90)	1740 (120)	2176 (150)	2611 (180)	3046 (210)
	2.6 (10)	Torque lbf•ft (N•m)	206.6 (280)	385.2 (522)	599.3 (812)	811.8 (1100)	935.8 (1268)	1143.2 (1549)	1316.6 (1784)
		Speed (rpm)	14	13	13	12	12	11	10
	5.3 (20)	Torque lbf•ft (N•m)	212.5 (288)	407.4 (552)	619.2 (839)	812.5 (1101)	970.5 (1315)	1186 (1607)	1375.6 (1864)
		Speed (rpm)	28	28	27	27	26	24	22
	13.2 (50)	Torque lbf•ft (N•m)	213.3 (289)	409.6 (555)	640.6 (868)	839.1 (1137)	1006.6 (1364)	1241.3 (1682)	1443.5 (1956)
		Speed (rpm)	72	72	71	69	68	66	62
	19.8 (75)	Torque lbf•ft (N•m)	199.3 (270)	404.4 (548)	636.9 (863)	826.6 (1120)	997.8 (1352)	1239.8 (1680)	1449.4 (1964)
		Speed (rpm)	109	108	106	104	102	99	94
	26.5 (100)	Torque lbf•ft (N•m)	194.8 (264)	397 (538)	631.7 (856)	806.6 (1093)	996.3 (1350)	1235.4 (1674)	1450.2 (1965)
		Speed (rpm)	146	145	143	141	138	135	130
	33.1 (125)	Torque lbf•ft (N•m)	185.2 (251)	380.8 (516)	617.7 (837)	790.4 (1071)	986 (1336)	1224.3 (1659)	1439.1 (1950)
		Speed (rpm)	184	183	181	179	177	173	168
	39.7 (150)	Torque lbf•ft (N•m)	177.1 (240)	365.3 (495)	602.9 (817)	784.5 (1063)	981.5 (1330)	1217.7 (1650)	1422.9 (1928)
		Speed (rpm)	221	220	219	217	215	212	205
	46.3 (175)	Torque lbf•ft (N•m)	155 (210)	357.9 (485)	587.4 (796)	776.4 (1052)	959.4 (1300)	1207.4 (1636)	1408.1 (1908)
Speed (rpm)		259	258	257	254	250	246	241	
Max. Cont 52.9 (200)	Torque lbf•ft (N•m)	134.3 (182)	346.1 (469)	554.2 (751)	751.3 (1018)	944.6 (1280)	1188.9 (1611)	1389.7 (1883)	
	Speed (rpm)	297	297	295	293	290	284	273	
Max. Int. 63.5 (240)	Torque lbf•ft (N•m)	95.9 (130)	307 (416)	525.5 (712)	721.8 (978)	912.9 (1237)	1153.5 (1563)	1354.2 (1835)	
	Speed (rpm)	358	357	355	351	346	340	332	

EBMV 800 - 48.88 in³/rev (801 cm³/rev)

								Max. Cont	Max. Int.
		Pressure PSI (bar)	363 (25)	725 (50)	1160 (80)	1450 (100)	1885 (130)	2321 (160)	2611 (180)
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	205.2 (278)	417 (565)	612.5 (830)	808.1 (1095)	1036.9 (1405)	1263.5 (1712)	1413.3 (1915)
		Speed (rpm)	11	10	10	9	8	8	7
	5.3 (20)	Torque lbf•ft (N•m)	208.1 (282)	421.4 (571)	623.6 (845)	848.7 (1150)	1074.5 (1456)	1315.9 (1783)	1471.6 (1994)
		Speed (rpm)	23	22	22	21	20	18	16
	13.2 (50)	Torque lbf•ft (N•m)	212.5 (288)	429.5 (582)	631.7 (856)	857.6 (1162)	1079.7 (1463)	1321 (1790)	1476.7 (2001)
		Speed (rpm)	60	59	57	56	54	52	48
	19.8 (75)	Torque lbf•ft (N•m)	198.5 (269)	428 (580)	631 (855)	859.8 (1165)	1081.2 (1465)	1318.1 (1786)	1470.8 (1993)
		Speed (rpm)	91	90	89	87	84	81	77
	26.5 (100)	Torque lbf•ft (N•m)	185.2 (251)	417.7 (566)	619.9 (840)	841.3 (1140)	1068.6 (1448)	1304 (1767)	1464.9 (1985)
		Speed (rpm)	122	121	120	118	115	111	105
	33.1 (125)	Torque lbf•ft (N•m)	178.6 (242)	394.8 (535)	608.1 (824)	825.1 (1118)	1053.1 (1427)	1283.4 (1739)	1458.3 (1976)
		Speed (rpm)	153	152	150	147	143	139	133
	39.7 (150)	Torque lbf•ft (N•m)	174.2 (236)	388.2 (526)	596.3 (808)	813.3 (1102)	1033.9 (1401)	1264.9 (1714)	1445.7 (1959)
		Speed (rpm)	185	183	181	178	174	169	163
	46.3 (175)	Torque lbf•ft (N•m)	158.7 (215)	372 (504)	585.2 (793)	796.3 (1079)	1016.2 (1377)	1253.1 (1698)	1428.8 (1936)
		Speed (rpm)	216	214	212	209	206	203	196
Max. Cont	52.9 (200)	Torque lbf•ft (N•m)	145.4 (197)	345.4 (468)	564.6 (765)	784.5 (1063)	1005.2 (1362)	1240.6 (1681)	1411.8 (1913)
		Speed (rpm)	247	245	243	240	237	232	225
Max. Int.	63.5 (240)	Torque lbf•ft (N•m)	87.1 (118)	286.3 (388)	526.2 (713)	752.8 (1020)	972.7 (1318)	1208.1 (1637)	1356.4 (1838)
		Speed (rpm)	297	296	295	293	288	283	277

EBMV

EBMV 1000 - 60.41 in³/rev (990 cm³/rev)

							Max. Cont	Max. Int.
		Pressure PSI (bar)	363 (25)	725 (50)	1015 (70)	1450 (100)	2031 (140)	2321 (160)
Flow GPM (L/min)	2.6 (10)	Torque lbf•ft (N•m)	230.3 (312)	472.3 (640)	716.6 (971)	1033.2 (1400)	1459.8 (1978)	1667.1 (2259)
		Speed (rpm)	9	9	9	8	7	6
	7.9 (30)	Torque lbf•ft (N•m)	236.2 (320)	478.2 (648)	721.8 (978)	1040.6 (1410)	1461.2 (1980)	1675.3 (2270)
		Speed (rpm)	28	27	26	25	23	21
	13.2 (50)	Torque lbf•ft (N•m)	240.6 (326)	483.4 (655)	732.1 (992)	1049.4 (1422)	1487.1 (2015)	1682.6 (2280)
		Speed (rpm)	47	46	45	43	41	38
	19.8 (75)	Torque lbf•ft (N•m)	234.7 (318)	473.8 (642)	728.4 (987)	1051.7 (1425)	1478.2 (2003)	1679.7 (2276)
		Speed (rpm)	72	71	70	68	66	63
	26.5 (100)	Torque lbf•ft (N•m)	228 (309)	467.9 (634)	725.5 (983)	1046.5 (1418)	1471.6 (1994)	1655.3 (2243)
		Speed (rpm)	98	97	95	93	90	86
	33.1 (125)	Torque lbf•ft (N•m)	223.6 (303)	460.5 (624)	719.6 (975)	1039.8 (1409)	1467.1 (1988)	1641.3 (2224)
		Speed (rpm)	123	122	120	117	114	110
	39.7 (150)	Torque lbf•ft (N•m)	205.2 (278)	444.3 (602)	709.2 (961)	1009.6 (1368)	1448.7 (1963)	1629.5 (2208)
		Speed (rpm)	149	148	146	144	140	133
	46.3 (175)	Torque lbf•ft (N•m)	194.8 (264)	428 (580)	698.1 (946)	987.4 (1338)	1420.7 (1925)	1593.3 (2159)
		Speed (rpm)	174	172	170	166	162	155
Max. Cont	52.9 (200)	Torque lbf•ft (N•m)	169.7 (230)	410.3 (556)	673.1 (912)	959.4 (1300)	1395.6 (1891)	1553.5 (2105)
		Speed (rpm)	199	196	193	190	185	178
Max. Int.	63.5 (240)	Torque lbf•ft (N•m)	122.5 (166)	378.6 (513)	639.8 (867)	935 (1267)	1346.9 (1825)	1501.1 (2034)
		Speed (rpm)	240	237	233	229	225	218

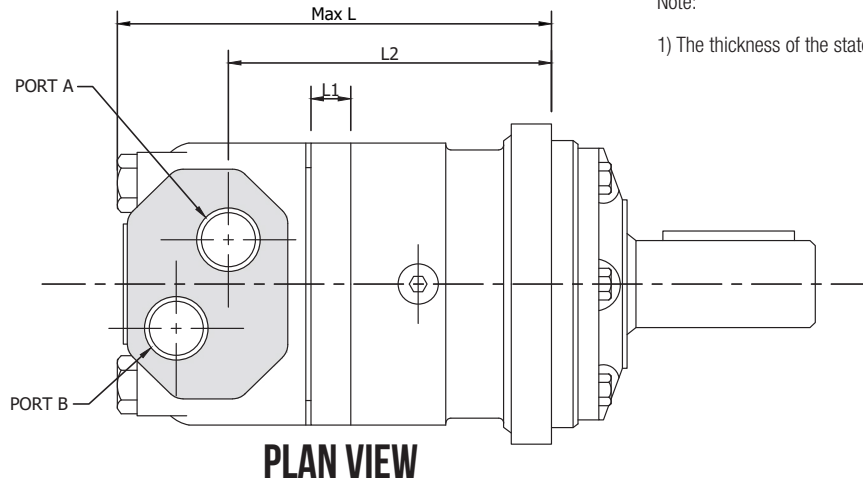
All numbers given are nominal values and should be used for reference only.

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MOUNTING	PORTS CODE (Depth mm)					
	D	M	S	G	M5	S1
P (A, B)	G 1 (18)	M33 x 2 (18)	1-5/16-12UN (18)	G 1 (18)	M33 x 2 (18)	1-5/16-12UN (18)
T	G 1/4 (12)	M14 x 1.5 (12)	9/16-18UNF (12)	G 1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)
C	4x M12 (10)	4x M12 (10)	--	--	--	--

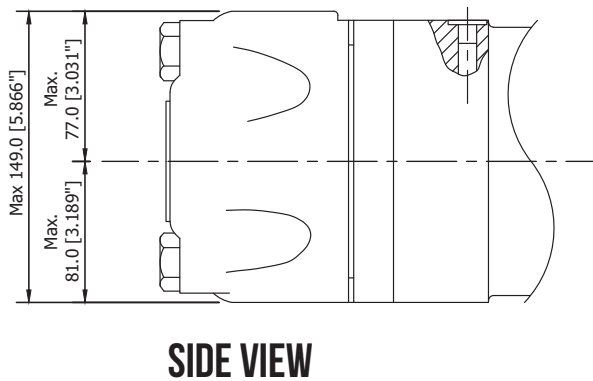
Note:

1) The thickness of the stator and rotor is the dimension of L1 + 7mm.



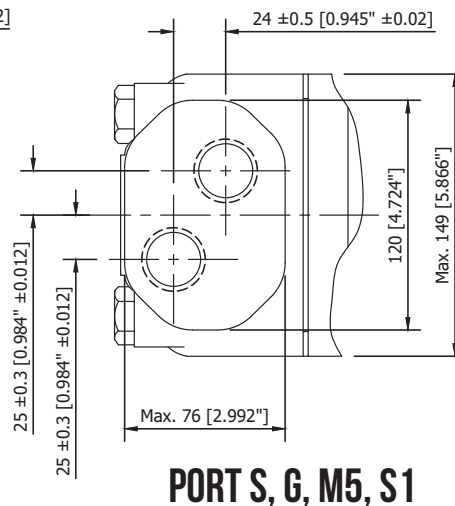
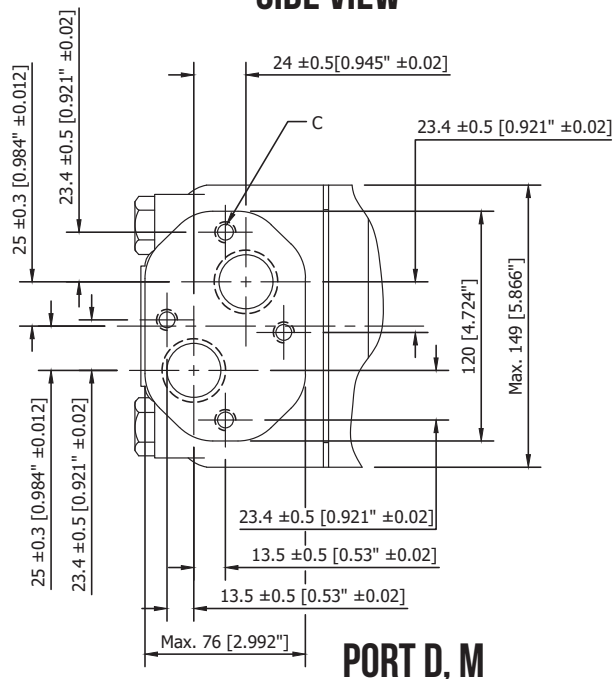
EBMV BODY DIMENSIONS

MODEL	L	L1	L2
EBMV-315	217 (8.543")	20 (0.787")	161.5 (6.358")
EBMV-400	224 (8.819")	27 (1.063")	168.5 (6.634")
EBMV-500	232 (9.134")	35 (1.378")	176.5 (6.949")
EBMV-630	244 (9.606")	47 (1.85")	188.5 (7.421")
EBMV-800	255 (10.039")	58 (2.283")	199.5 (7.854")
EBMV-1000	271 (10.669")	74 (2.913")	215.5 (8.484")

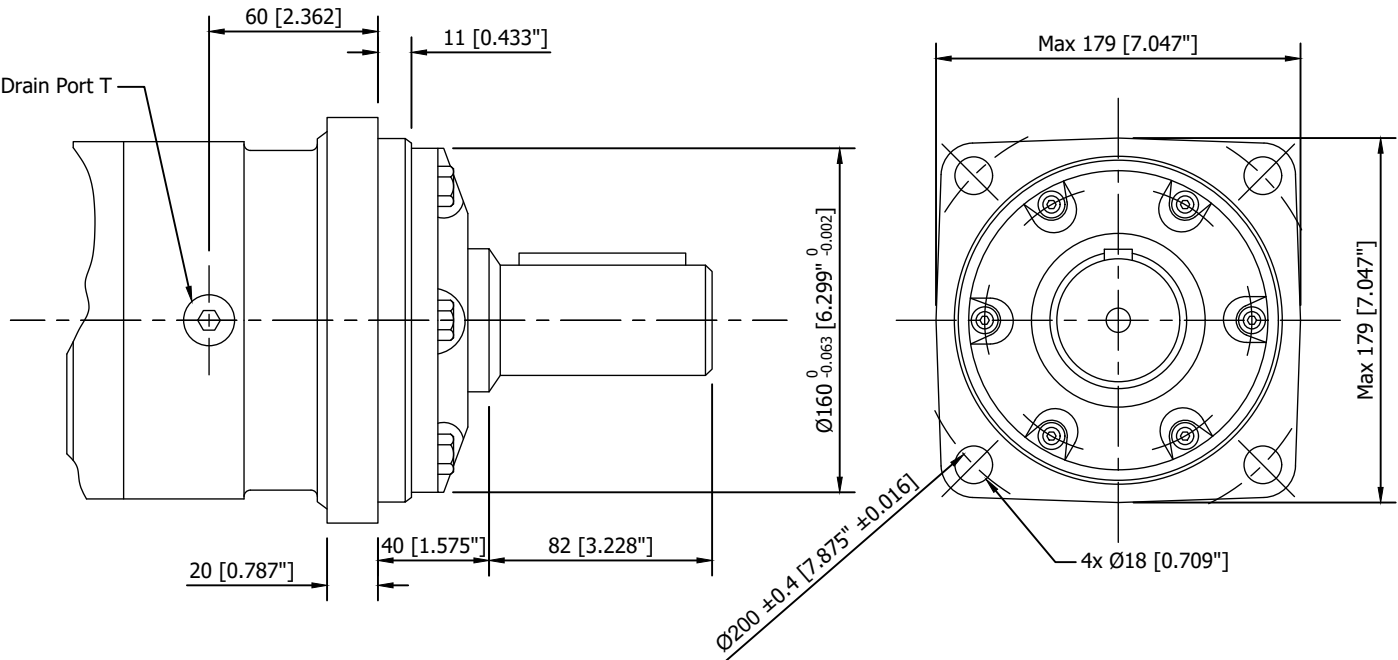


EBMVW BODY DIMENSIONS

MODEL	L	L1	L2
EBMVW-315	148.5 (5.846")	20 (0.787")	93.5 (3.681")
EBMVW-400	155.5 (6.122")	27 (1.063")	100.5 (3.957")
EBMVW-500	163.5 (6.437")	35 (1.378")	108.5 (4.272")
EBMVW-630	175.5 (6.909")	47 (1.85")	120.5 (4.744")
EBMVW-800	186.5 (7.343")	58 (2.283")	131.5 (5.177")
EBMVW-1000	202.5 (7.972")	74 (2.913")	147.5 (5.807")

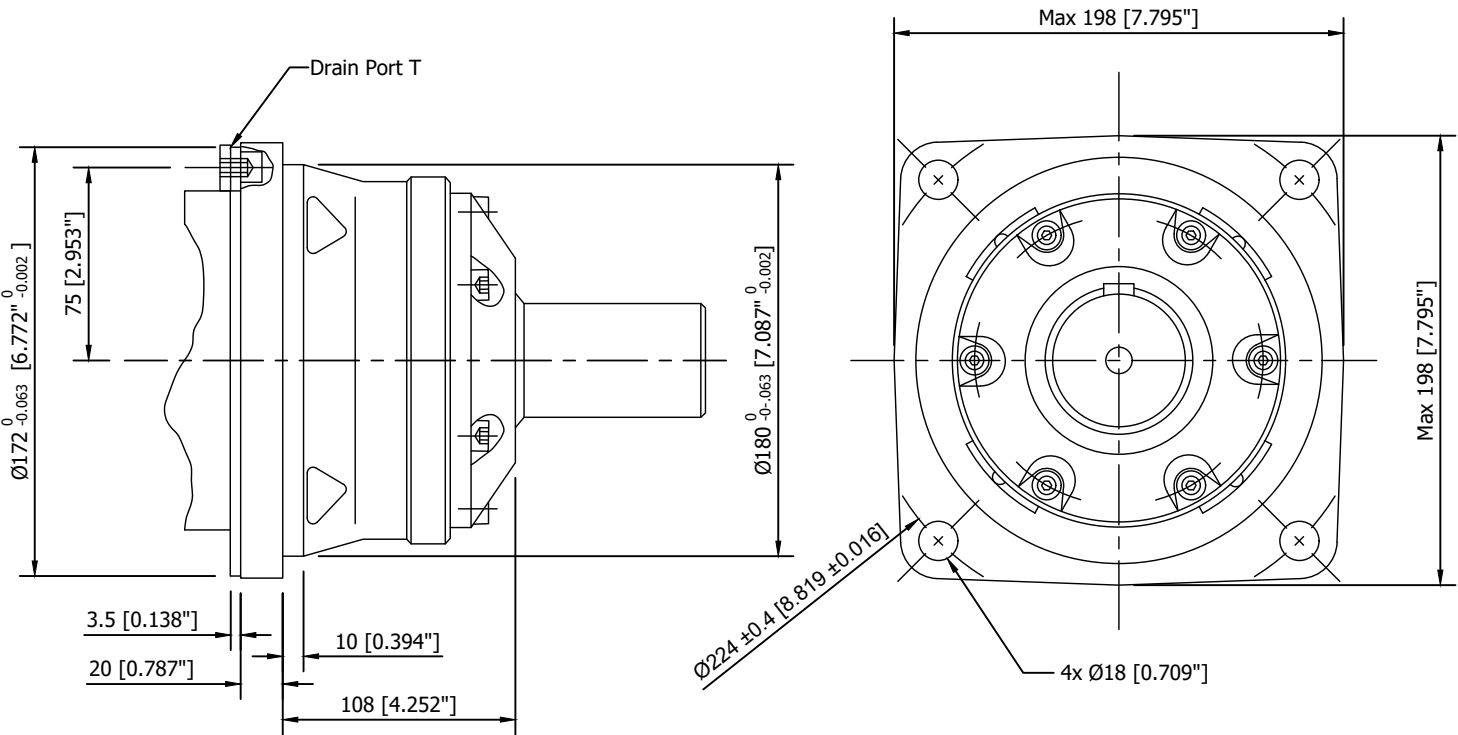


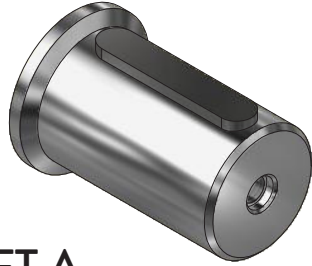
FLANGE 4



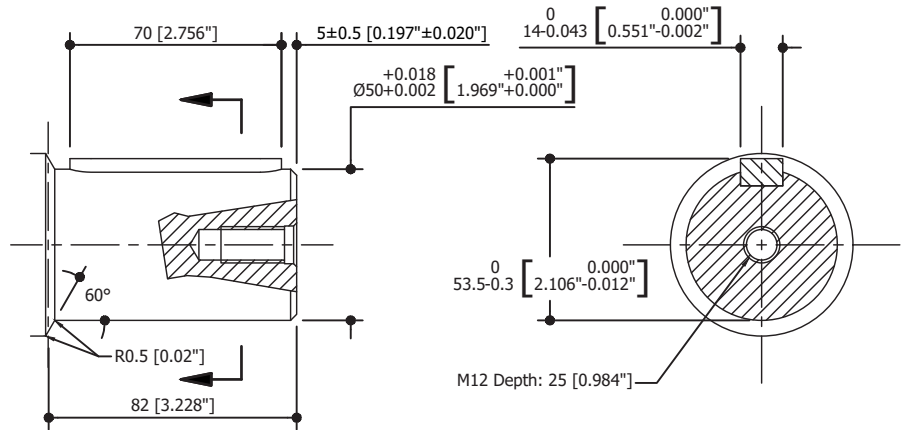
EBMV

FLANGE W

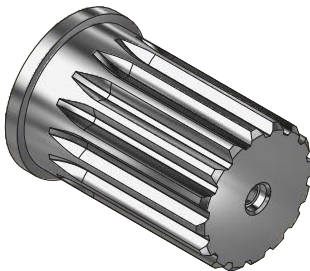
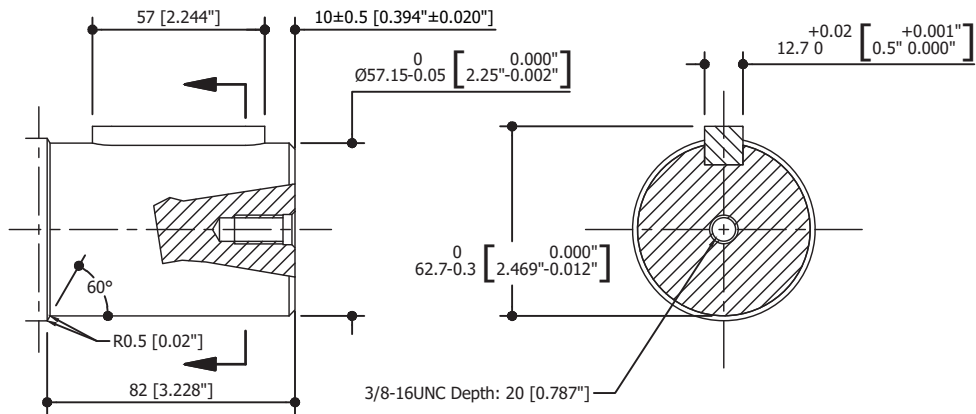




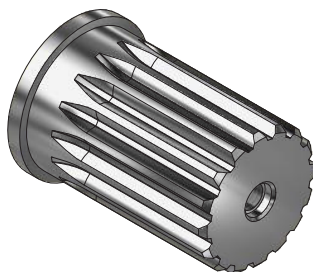
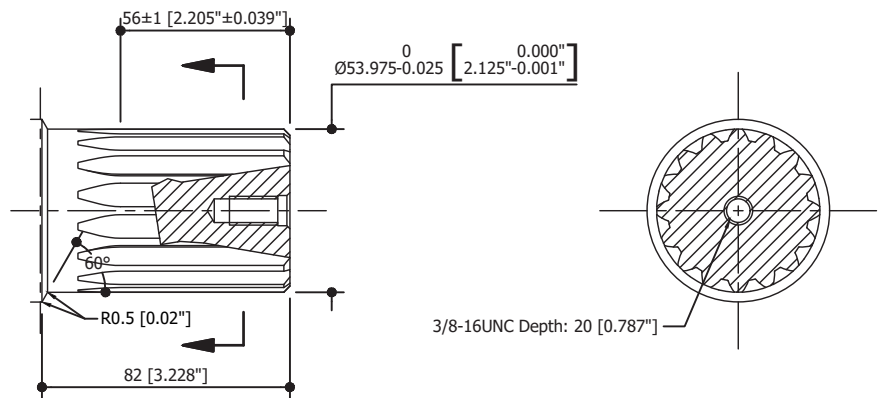
SHAFT A
Cylindrical Shaft Ø50
Parallel Key 14x9x70
METRIC



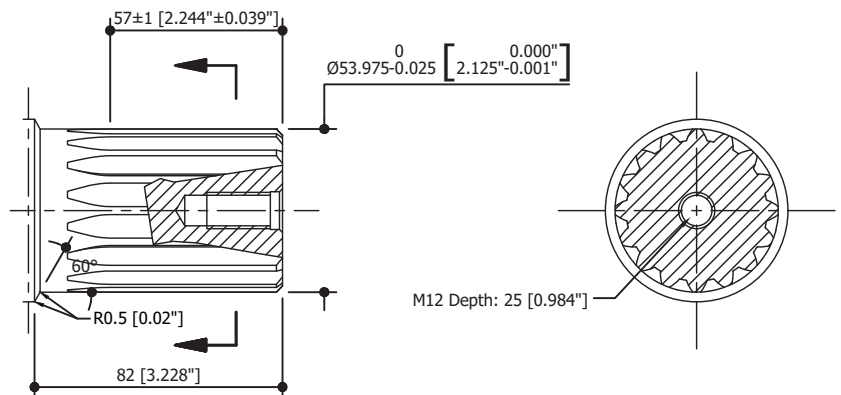
SHAFT C
Cylindrical Shaft Ø2-1/4"
Parallel Key 1/2"x1/2"x2-1/4"
IMPERIAL



SHAFT B
Splined Key 16-DP8/16
IMPERIAL



SHAFT BD
Splined Key 16-DP8/16
METRIC





Parallel Key 16x10x32



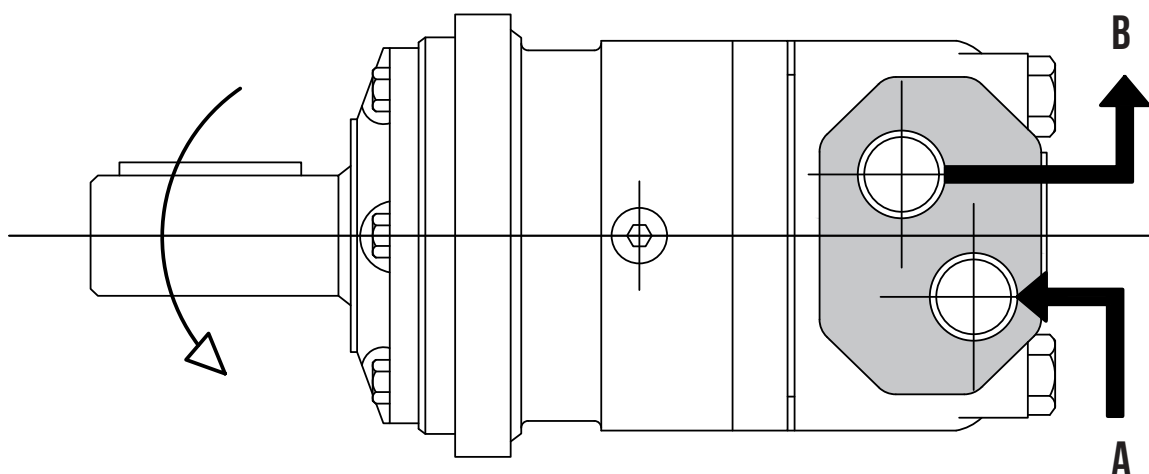
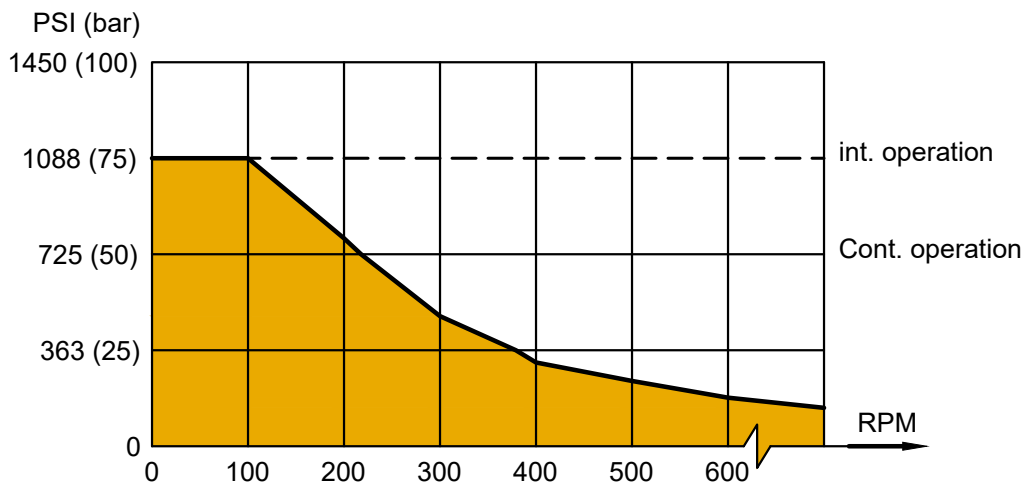
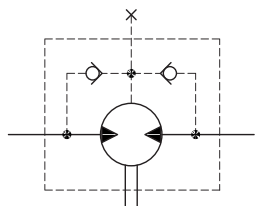
Parallel Key 9/16" x 9/16" x 2"

[illegible]

BMW



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EBMV - DIRECTION OF SHAFT ROTATION : STANDARD

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is
pressurized.

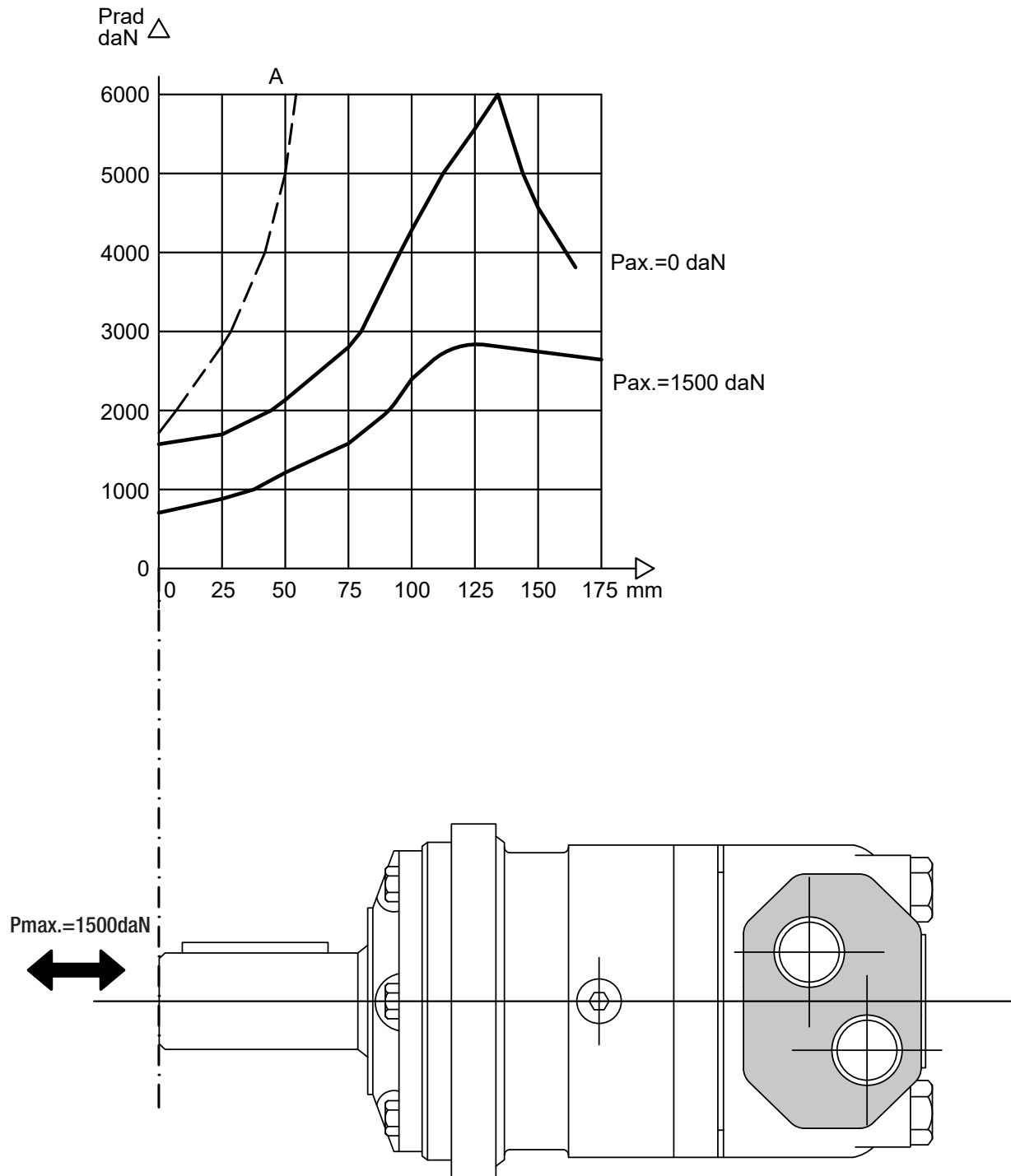
OIL FLOW IN DRAIN LINE

The table shows the max. oil flow in the drain line at a return pressure less than 72-145 PSI (5-10 bar)

Pressure Drop PSI (bar)	Viscosity in ² /s (mm ² /s)	Oil Flow in the Drain Line GPM (L/min)
2030 (140)	0.031 (20)	0.79 (3)
	0.054 (35)	0.53 (2)
3045 (210)	0.031 (20)	1.59 (6)
	0.054 (35)	1.06 (4)

In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.





The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load. Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

EBMK2 new series motor adapts the advanced Geroler gear set designed with disk distribution flow and high pressure. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in disc distribution.
- This new series motor is suitable for vehicles with greater loads and pressure drop.

MAIN SPECIFICATIONS

		EBMK2 65	EBMK2 80	EBMK2 100	EBMK2 125	EBMK2 160	EBMK2 200	EBMK2 250	EBMK2 315	EBMK2 400	EBMK2 475
Geometric displacement	in ³ /rev (cm ³ /rev.)	3.97 (65)	4.88 (80)	6.16 (100.9)	7.92 (129.8)	9.57 (156.8)	11.8 (193.4)	14.8 (242.5)	18.57 (304.3)	23.85 (390.8)	29.6 (485)
Max. Speed	Continuous (rpm)	835	800	742	576	477	385	308	246	191	153
	Intermittent (rpm)	990	980	924	720	713	577	462	365	287	230
Max. Torque	Continuous lbf•ft (N•m)	136.5 (185)	173.4 (235)	217.7 (295)	284.1 (385)	335.8 (455)	398.5 (540)	487.1 (660)	564.6 (765)	572 (775)	623.6 (845)
	Intermittent lbf•ft (N•m)	180.8 (245)	254.6 (345)	328.4 (445)	413.3 (560)	420.7 (570)	490.8 (665)	605.2 (820)	653.1 (885)	682.7 (925)	686.3 (930)
Max. Pressure Drop	Continuous PSI (bar)	2973 (205)	3046 (210)	3046 (210)	3046 (210)	2973 (205)	2973 (205)	2973 (205)	3046 (210)	2248 (155)	1740 (120)
	Intermittent PSI (bar)	3989 (275)	4496 (310)	4496 (310)	4496 (310)	3771 (260)	3771 (260)	3771 (260)	3481 (240)	2466 (170)	2031 (140)
	Peak PSI (bar)	4496 (310)	4496 (310)	4496 (310)	4496 (310)	4496 (310)	4496 (310)	4496 (310)	4496 (310)	2973 (205)	2466 (170)
Max. Flow	Continuous GPM (L/min)	14.6 (55)	17.2 (65)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
	Intermittent GPM (L/min)	17.2 (65)	21.2 (80)	25.1 (95)	25.1 (95)	30.4 (115)	30.4 (115)	30.4 (115)	30.4 (115)	30.4 (115)	30.4 (115)
Weight	Lbs (kg)	20.2 (9.2)	20.7 (9.4)	21.3 (9.7)	22 (10)	22.4 (10.2)	23.1 (10.5)	24.2 (11)	25.3 (11.5)	26.4 (12)	27.3 (12.4)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.

EBMK2 ORDER INFORMATION

1	2	3	4	5	6	7	8
EBMK2		-		-		-	

1	2	3	4	5	6	7	8
CODE	Displacement	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
65	E2	2-Ø13.5 Rhomb-Flange Ø106.4, Pilot Ø82.5 x 6.4	A Shaft Ø25, Parallel Key 8 x 7 x 32	DB G1/2, G1/4	Omit Standard	00 No Paint	Omit Standard
80	E4	4-Ø13.5 Rhomb-Flange Ø106.4, Pilot Ø82.5 x 6.4	B Shaft Ø32, Parallel Key 10 x 8 x 45	DU G1/2, 7/16-20 UNF	R Opposite	Omit Black	F Free Running
100	E6	4-Ø13.5 Rhomb-Flange Ø106.4, Pilot Ø82.5 x 6.4	K Shaft Ø1", Woodruff Key Ø1" x 1/4"	SB 7/8-14UNF O-Ring, G1/4			
125	WE	4-Ø13.6 Wheel-Flange Ø147.6, Pilot Ø107.95x6.4	G Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1-1/4"	SU 7/8-14UNF O-Ring, 7/16-20 UNF			
160			FE Shaft Ø1-1/4", Splined 14-DP12/24	M4 M22x1.5, M14x1.5			
200			S1 Shaft Ø1", Splined SAE 6B	MU 1/2", 5/8" Crosshole Manifold 3 x 3/8-16UNC, 7/16-20UNF			
250			I Sub-Shaft Ø22, Splined 13-DP16/32	MM 1/2", 5/8" Crosshole Manifold 3xM10, G1/4			
315			T4 Cone-Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1"				
400							
475							

EBMK2

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc... If the specification is not in the table or you have specific requirements, please contact us.



EBMK2 65 - 3.97 in³/rev (65 cm³/rev)

		Max. Cont.					Max. Int.		Peak	
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3989 (275)	4496 (310)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	20.7 (28)	39.9 (54)	59 (80)					
		Speed (rpm)	22	12	6					
	1.1 (4)	Torque lbf•ft (N•m)	22.1 (30)	42.8 (58)	64.9 (88)	84.9 (115)	107.7 (146)	121.8 (165)	143.9 (195)	
		Speed (rpm)	52	47	43	35	30	24	16	
	2.1 (8)	Torque lbf•ft (N•m)	22.9 (31)	44.3 (60)	67.9 (92)	88.6 (120)	110.7 (150)	125.5 (170)	147.6 (200)	166.1 (225)
		Speed (rpm)	107	98	92	85	70	55	40	30
	4 (15)	Torque lbf•ft (N•m)	23.6 (32)	45.8 (62)	69.4 (94)	91.5 (124)	114.4 (155)	129.2 (175)	151.3 (205)	169.7 (230)
		Speed (rpm)	214	208	200	193	185	174	160	145
	5.8 (22)	Torque lbf•ft (N•m)	23.6 (32)	48 (65)	70.1 (95)	92.3 (125)	115.9 (157)	131.4 (178)	152 (206)	171.2 (232)
		Speed (rpm)	320	315	308	296	286	275	260	242
	7.9 (30)	Torque lbf•ft (N•m)	22.1 (30)	48 (65)	70.1 (95)	94.5 (128)	118.1 (160)	132.8 (180)	155 (210)	173.4 (235)
		Speed (rpm)	445	440	430	420	408	395	380	360
	10.1 (38)	Torque lbf•ft (N•m)	20.7 (28)	45.8 (62)	70.1 (95)	95.9 (130)	121.8 (165)	136.5 (185)	159.4 (216)	177.1 (240)
		Speed (rpm)	565	560	550	540	526	512	495	470
	11.9 (45)	Torque lbf•ft (N•m)	19.2 (26)	44.3 (60)	67.9 (92)	92.3 (125)	118.1 (160)	132.8 (180)	158.7 (215)	180.8 (245)
		Speed (rpm)	675	670	660	648	632	615	600	580
	14.6 (55)	Torque lbf•ft (N•m)	17 (23)	40.6 (55)	64.9 (88)	88.6 (120)	114.4 (155)	129.2 (175)	155 (210)	173.4 (235)
		Speed (rpm)	835	825	810	790	770	745	720	690
17.2 (65)	Torque lbf•ft (N•m)	14.8 (20)	36.9 (50)	62 (84)	82.7 (112)	110.7 (150)	125.5 (170)	151.3 (205)	169.7 (230)	
	Speed (rpm)	990	980	965	945	935	910	880	860	
Max. Cont.										
Max. Int.										

EBMK2 80 - 4.88 in³/rev (80 cm³/rev)

		Max. Cont.					Max. Int.		Peak		
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3989 (275)	4496 (310)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	21.4 (29)	39.9 (54)	63.5 (86)						
		Speed (rpm)	18	9	3						
	1.1 (4)	Torque lbf•ft (N•m)	25.8 (35)	55.4 (75)	82.7 (112)	107 (145)	126.9 (172)	153.5 (208)	160.9 (218)	174.2 (236)	
		Speed (rpm)	45	41	38	35	28	22	14	3	
	2.1 (8)	Torque lbf•ft (N•m)	25.8 (35)	55.4 (75)	84.1 (114)	109.2 (148)	129.2 (175)	156.5 (212)	169.7 (230)	191.9 (260)	206.6 (280)
		Speed (rpm)	90	85	80	76	72	64	55	46	40
	4 (15)	Torque lbf•ft (N•m)	28 (38)	57.6 (78)	85.6 (116)	112.2 (152)	135.8 (184)	158.7 (215)	180.8 (245)	203 (275)	221.4 (300)
		Speed (rpm)	180	175	170	166	160	153	140	126	115
	5.8 (22)	Torque lbf•ft (N•m)	26.6 (36)	55.4 (75)	84.1 (114)	110.7 (150)	136.5 (185)	162.4 (220)	184.5 (250)	210.3 (285)	232.5 (315)
		Speed (rpm)	265	260	255	250	242	234	220	205	185
	7.9 (30)	Torque lbf•ft (N•m)	25.8 (35)	55.4 (75)	84.9 (115)	110.7 (150)	136.5 (185)	166.1 (225)	191.9 (260)	217.7 (295)	239.9 (325)
		Speed (rpm)	363	355	350	342	334	322	302	280	260
	10.1 (38)	Torque lbf•ft (N•m)	25.1 (34)	53.1 (72)	82.7 (112)	114.4 (155)	140.2 (190)	169.7 (230)	195.6 (265)	221.4 (300)	247.2 (335)
		Speed (rpm)	460	452	442	430	418	405	385	360	335
	11.9 (45)	Torque lbf•ft (N•m)	23.6 (32)	51.7 (70)	81.2 (110)	110.7 (150)	140.2 (190)	169.7 (230)	195.6 (265)	225.1 (305)	250.9 (340)
		Speed (rpm)	545	535	528	515	505	495	465	440	410
14.6 (55)	Torque lbf•ft (N•m)	22.1 (30)	50.2 (68)	81.2 (110)	110.7 (150)	140.2 (190)	169.7 (230)	199.3 (270)	225.1 (305)	247.2 (335)	
	Speed (rpm)	670	660	650	635	620	605	575	540	510	
17.2 (65)	Torque lbf•ft (N•m)	18.5 (25)	48 (65)	77.5 (105)	107 (145)	132.8 (180)	166.1 (225)	191.9 (260)	217.7 (295)	239.9 (325)	
	Speed (rpm)	800	790	778	755	740	728	690	650	610	
19.8 (75)	Torque lbf•ft (N•m)	16.2 (22)	46.5 (63)	75.3 (102)	107 (145)	132.8 (180)	166.1 (225)	191.9 (260)	214 (290)		
	Speed (rpm)	910	900	880	860	850	830	790	750		
21.2 (80)	Torque lbf•ft (N•m)	14.8 (20)	44.3 (60)	73.8 (100)	103.3 (140)	129.2 (175)	162.4 (220)	184.5 (250)			
	Speed (rpm)	980	970	955	920	900	875	840			
Max. Cont.											
Max. Int.											



EBMK2 100 - 6.16 in³/rev (100.9 cm³/rev)

			Max. Cont.					Max. Int.		Peak		
Pressure PSI (bar)			254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3989 (275)	4496 (310)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	11.1 (15)	23.6 (32)	50.2 (68)							
		Speed (rpm)	14	10	5							
	1.1 (4)	Torque lbf•ft (N•m)	13.3 (18)	31 (42)	67.9 (92)	95.9 (130)	125.5 (170)	151.3 (205)	169.7 (230)			
		Speed (rpm)	36	34	32	28	22	14	5			
	2.1 (8)	Torque lbf•ft (N•m)	14.8 (20)	33.2 (45)	66.4 (90)	99.6 (135)	132.8 (180)	155 (210)	177.1 (240)	206.6 (280)	228.8 (310)	
		Speed (rpm)	74	73	70	66	60	52	42	26	15	
	4 (15)	Torque lbf•ft (N•m)	14.8 (20)	33.2 (45)	66.4 (90)	99.6 (135)	136.5 (185)	162.4 (220)	191.9 (260)	225.1 (305)	254.6 (345)	287.8 (390)
		Speed (rpm)	142	140	137	134	129	120	105	92	78	65
	5.8 (22)	Torque lbf•ft (N•m)	13.3 (18)	33.2 (45)	66.4 (90)	103.3 (140)	140.2 (190)	169.7 (230)	203 (275)	232.5 (315)	265.7 (360)	298.9 (405)
		Speed (rpm)	210	207	201	195	188	179	160	150	138	125
	7.9 (30)	Torque lbf•ft (N•m)	11.8 (16)	31 (42)	64.9 (88)	104.8 (142)	143.9 (195)	177.1 (240)	210.3 (285)	243.5 (330)	276.8 (375)	313.7 (425)
		Speed (rpm)	290	288	282	276	268	258	242	230	212	195
	10.1 (38)	Torque lbf•ft (N•m)	11.1 (15)	29.5 (40)	64.9 (88)	103.3 (140)	140.2 (190)	177.1 (240)	210.3 (285)	247.2 (335)	280.4 (380)	317.3 (430)
		Speed (rpm)	370	365	360	352	340	326	310	295	275	255
	11.9 (45)	Torque lbf•ft (N•m)	11.1 (15)	29.5 (40)	63.5 (86)	103.3 (140)	140.2 (190)	177.1 (240)	210.3 (285)	250.9 (340)	284.1 (385)	324.7 (440)
		Speed (rpm)	440	435	430	422	410	395	380	365	345	320
	14.6 (55)	Torque lbf•ft (N•m)	8.9 (12)	26.6 (36)	62.7 (85)	99.6 (135)	140.2 (190)	177.1 (240)	210.3 (285)	250.9 (340)	284.1 (385)	324.7 (440)
		Speed (rpm)	540	534	528	520	510	500	485	465	440	405
17.2 (65)	Torque lbf•ft (N•m)	7.4 (10)	25.8 (35)	59 (80)	95.9 (130)	136.5 (185)	173.4 (235)	206.6 (280)	247.2 (335)	280.4 (380)	324.7 (440)	
	Speed (rpm)	640	635	630	622	605	590	575	550	525	500	
Max. Cont. 19.8 (75)	Torque lbf•ft (N•m)	3.7 (5)	22.1 (30)	55.4 (75)	92.3 (125)	132.8 (180)	169.7 (230)	203 (275)	243.5 (330)	276.8 (375)		
	Speed (rpm)	738	735	728	715	700	680	655	635	610		
Max. Int. 22.5 (85)	Torque lbf•ft (N•m)	2.2 (3)	18.5 (25)	55.4 (75)	92.3 (125)	129.2 (175)	166.1 (225)	199.3 (270)	236.2 (320)	273.1 (370)		
	Speed (rpm)	838	835	830	820	805	785	760	730	690		
25.1 (95)	Torque lbf•ft (N•m)		17 (23)	51.7 (70)	88.6 (120)	125.5 (170)	162.4 (220)	191.9 (260)	228.8 (310)			
	Speed (rpm)		925	918	905	890	870	840	810			

EBMK2



EBMK2 125 - 7.92 in³/rev (129.8 cm³/rev)

		Max. Cont.						Max. Int.		Peak		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3989 (275)	4496 (310)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	18.5 (25)	29.5 (40)								
		Speed (rpm)	12	7								
	1.1 (4)	Torque lbf•ft (N•m)	20.7 (28)	40.6 (55)	81.2 (110)	129.2 (175)	162.4 (220)	206.6 (280)	239.9 (325)			
		Speed (rpm)	27	26	22	18	14	11	8			
	2.1 (8)	Torque lbf•ft (N•m)	20.7 (28)	44.3 (60)	84.9 (115)	129.2 (175)	169.7 (230)	214 (290)	243.5 (330)	276.8 (375)	295.2 (400)	
		Speed (rpm)	57	56	53	48	42	38	34	26	20	
	4 (15)	Torque lbf•ft (N•m)	20.7 (28)	44.3 (60)	88.6 (120)	132.8 (180)	177.1 (240)	217.7 (295)	250.9 (340)	287.8 (390)	324.7 (440)	357.9 (485)
		Speed (rpm)	113	112	110	105	98	92	86	80	72	65
	5.8 (22)	Torque lbf•ft (N•m)	20.7 (28)	40.6 (55)	88.6 (120)	132.8 (180)	180.8 (245)	225.1 (305)	265.7 (360)	306.3 (415)	346.9 (470)	391.1 (530)
		Speed (rpm)	165	163	160	155	150	144	138	130	115	100
	7.9 (30)	Torque lbf•ft (N•m)	18.5 (25)	38.4 (52)	88.6 (120)	136.5 (185)	180.8 (245)	228.8 (310)	269.4 (365)	313.7 (425)	354.2 (480)	402.2 (545)
		Speed (rpm)	228	224	222	210	212	206	198	188	178	165
	10.1 (38)	Torque lbf•ft (N•m)	18.5 (25)	36.9 (50)	88.6 (120)	132.8 (180)	180.8 (245)	232.5 (315)	273.1 (370)	317.3 (430)	365.3 (495)	405.9 (550)
		Speed (rpm)	288	285	282	275	268	260	252	242	230	215
	11.9 (45)	Torque lbf•ft (N•m)	16.2 (22)	36.9 (50)	88.6 (120)	132.8 (180)	180.8 (245)	232.5 (315)	273.1 (370)	317.3 (430)	361.6 (490)	324.7 (440)
		Speed (rpm)	345	343	338	332	325	315	305	292	280	265
Cont.	14.6 (55)	Torque lbf•ft (N•m)	14.8 (20)	33.9 (46)	84.9 (115)	129.2 (175)	180.8 (245)	243.5 (330)	276.8 (375)	317.3 (430)	361.6 (490)	
		Speed (rpm)	420	418	414	408	400	390	378	365	346	
	17.2 (65)	Torque lbf•ft (N•m)	11.1 (15)	31.7 (43)	81.2 (110)	125.5 (170)	177.1 (240)	236.2 (320)	273.1 (370)	313.7 (425)	357.9 (485)	
		Speed (rpm)	498	496	492	486	480	465	458	440	425	
	19.8 (75)	Torque lbf•ft (N•m)	8.9 (12)	31 (42)	79.7 (108)	125.5 (170)	173.4 (235)	228.8 (310)	269.4 (365)	313.7 (425)		
		Speed (rpm)	575	574	568	560	550	548	525	502		
	22.5 (85)	Torque lbf•ft (N•m)	5.9 (8)	29.5 (40)	77.5 (105)	121.8 (165)	169.7 (230)	228.8 (310)	265.7 (360)	310 (420)		
		Speed (rpm)	653	652	645	636	625	66	600	578		
	25.1 (95)	Torque lbf•ft (N•m)		29.5 (40)	73.8 (100)	118.1 (160)	166.1 (225)	214 (290)	262 (355)	306.3 (415)		
		Speed (rpm)		722	715	702	690	680	670	655		
x. Int.												



EBMK2 160 - 9.57 in³/rev (156.8 cm³/rev)

		Max. Cont.								Max. Int.	
Pressure PSI (bar)			254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3771 (260)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	20.7 (28)	40.6 (55)	81.2 (110)	129.2 (175)					
		Speed (rpm)	9	7	5	3					
	1.1 (4)	Torque lbf•ft (N•m)	23.6 (32)	46.5 (63)	92.3 (125)	140.2 (190)	184.5 (250)	232.5 (315)	273.1 (370)		
		Speed (rpm)	22	21	19	17	13	8	3		
	2.1 (8)	Torque lbf•ft (N•m)	27.3 (37)	50.2 (68)	95.9 (130)	147.6 (200)	191.9 (260)	239.9 (325)	287.8 (390)	332.1 (450)	354.2 (480)
		Speed (rpm)	47	45	42	39	36	34	32	27	22
	4 (15)	Torque lbf•ft (N•m)	25.8 (35)	50.2 (68)	99.6 (135)	155 (210)	203 (275)	273.1 (370)	310 (420)	369 (500)	391.1 (530)
		Speed (rpm)	93	92	89	85	80	76	70	60	45
	5.8 (22)	Torque lbf•ft (N•m)	25.8 (35)	55.4 (75)	103.3 (140)	158.7 (215)	210.3 (285)	273.1 (370)	324.7 (440)	380.1 (515)	405.9 (550)
		Speed (rpm)	138	136	133	128	122	116	110	102	95
	7.9 (30)	Torque lbf•ft (N•m)	25.8 (35)	55.4 (75)	107 (145)	162.4 (220)	214 (290)	273.1 (370)	324.7 (440)	383.8 (520)	413.3 (560)
		Speed (rpm)	190	187	184	178	172	167	164	154	142
	10.1 (38)	Torque lbf•ft (N•m)	27.3 (37)	51.7 (70)	110.7 (150)	166.1 (225)	228.8 (310)	280.4 (380)	332.1 (450)	387.5 (525)	417 (565)
		Speed (rpm)	240	237	234	230	225	218	202	193	185
	11.9 (45)	Torque lbf•ft (N•m)	23.6 (32)	51.7 (70)	110.7 (150)	166.1 (225)	228.8 (310)	280.4 (380)	332.1 (450)	387.5 (525)	417 (565)
		Speed (rpm)	285	283	280	275	268	259	247	236	225
	14.6 (55)	Torque lbf•ft (N•m)	20.7 (28)	48.7 (66)	107 (145)	162.4 (220)	225.1 (305)	276.8 (375)	332.1 (450)	387.5 (525)	
		Speed (rpm)	348	346	242	338	332	324	314	300	
	17.2 (65)	Torque lbf•ft (N•m)	18.5 (25)	46.5 (63)	103.3 (140)	162.4 (220)	221.4 (300)	276.8 (375)	328.4 (445)		
		Speed (rpm)	412	410	406	400	393	383	370		
Max. Cont. 19.8 (75)	Torque lbf•ft (N•m)	16.2 (22)	44.3 (60)	99.6 (135)	158.7 (215)	217.7 (295)	273.1 (370)	324.7 (440)			
	Speed (rpm)	476	474	470	464	454	445	435			
	22.5 (85)	Torque lbf•ft (N•m)	13.3 (18)	40.6 (55)	95.9 (130)	155 (210)	214 (290)	269.4 (365)	321 (435)		
		Speed (rpm)	540	536	532	524	514	502	485		
Max. Int.	25.1 (95)	Torque lbf•ft (N•m)	11.1 (15)	36.9 (50)	92.3 (125)	151.3 (205)	210.3 (285)	265.7 (360)	317.3 (430)		
		Speed (rpm)	600	595	590	580	565	555	545		
	30.4 (115)	Torque lbf•ft (N•m)		29.5 (40)	84.9 (115)	147.6 (200)	206.6 (280)	258.3 (350)	313.7 (425)		
		Speed (rpm)		715	705	695	685	670	655		

EBMK2



EBMK2 200 - 11.8 in³/rev (193.4 cm³/rev)

		Max. Cont.						Max. Int.		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3771 (260)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	23.6 (32)	50.2 (68)	81.2 (110)	107 (145)				
		Speed (rpm)	9	7	5	3				
	1.1 (4)	Torque lbf•ft (N•m)	29.5 (40)	55.4 (75)	110.7 (150)	143.9 (195)	221.4 (300)	265.7 (360)		
		Speed (rpm)	18	16	14	11	7	4		
	2.1 (8)	Torque lbf•ft (N•m)	33.2 (45)	59 (80)	118.1 (160)	177.1 (240)	232.5 (315)	298.9 (405)	369 (500)	420.7 (570)
		Speed (rpm)	37	36	34	30	26	21	17	13
	4 (15)	Torque lbf•ft (N•m)	35.4 (48)	66.4 (90)	125.5 (170)	188.2 (255)	247.2 (335)	313.7 (425)	376.4 (510)	435.4 (590)
		Speed (rpm)	75	74	72	68	64	60	56	50
	5.8 (22)	Torque lbf•ft (N•m)	33.9 (46)	66.4 (90)	129.2 (175)	195.6 (265)	258.3 (350)	324.7 (440)	383.8 (520)	446.5 (605)
		Speed (rpm)	112	110	108	105	101	97	91	86
	7.9 (30)	Torque lbf•ft (N•m)	33.2 (45)	66.4 (90)	132.8 (180)	199.3 (270)	265.7 (360)	332.1 (450)	391.1 (530)	453.9 (615)
		Speed (rpm)	153	151	148	145	141	135	128	122
	10.1 (38)	Torque lbf•ft (N•m)	33.2 (45)	66.4 (90)	132.8 (180)	203 (275)	273.1 (370)	335.8 (455)	398.5 (540)	461.3 (625)
		Speed (rpm)	193	191	188	184	178	172	166	158
	11.9 (45)	Torque lbf•ft (N•m)	29.5 (40)	62.7 (85)	132.8 (180)	203 (275)	273.1 (370)	339.5 (460)	402.2 (545)	
		Speed (rpm)	230	228	226	222	218	210	202	
14.6 (55)	Torque lbf•ft (N•m)	28 (38)	60.5 (82)	132.8 (180)	203 (275)	276.8 (375)	343.2 (465)	405.9 (550)		
	Speed (rpm)	280	278	275	270	264	255	248		
17.2 (65)	Torque lbf•ft (N•m)	25.8 (35)	59 (80)	129.2 (175)	199.3 (270)	273.1 (370)	343.2 (465)	402.2 (545)		
	Speed (rpm)	332	330	328	322	315	306	295		
19.8 (75)	Torque lbf•ft (N•m)	22.1 (30)	53.1 (72)	125.5 (170)	195.6 (265)	265.7 (360)	335.8 (455)	398.5 (540)		
	Speed (rpm)	384	382	378	370	365	356	346		
22.5 (85)	Torque lbf•ft (N•m)	18.5 (25)	51.7 (70)	121.8 (165)	191.9 (260)	262 (355)	332.1 (450)	398.5 (540)		
	Speed (rpm)	436	434	430	420	410	400	390		
25.1 (95)	Torque lbf•ft (N•m)	14.8 (20)	44.3 (60)	114.4 (155)	188.2 (255)	258.3 (350)	328.4 (445)	391.1 (530)		
	Speed (rpm)	488	485	478	470	458	448	438		
30.4 (115)	Torque lbf•ft (N•m)		36.9 (50)	103.3 (140)	177.1 (240)	243.5 (330)	324.7 (440)	383.8 (520)		
	Speed (rpm)		580	572	562	550	538	520		

EBMK2 250 - 14.8 in³/rev (242.5 cm³/rev)

		Max. Cont.							Max. Int.		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)	3771 (260)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	33.2 (45)	70.1 (95)							
		Speed (rpm)	4	2							
	1.1 (4)	Torque lbf•ft (N•m)	36.9 (50)	73.8 (100)	155 (210)	228.8 (310)	302.6 (410)	376.4 (510)	450.2 (610)		
		Speed (rpm)	14	13	11	9	6	4	3		
	2.1 (8)	Torque lbf•ft (N•m)	40.6 (55)	77.5 (105)	158.7 (215)	236.2 (320)	310 (420)	391.1 (530)	457.6 (620)	538.7 (730)	575.6 (780)
		Speed (rpm)	29	28	26	23	20	17	14	11	9
	4 (15)	Torque lbf•ft (N•m)	40.6 (55)	81.2 (110)	162.4 (220)	243.5 (330)	324.7 (440)	405.9 (550)	479.7 (650)	557.2 (755)	597.8 (810)
		Speed (rpm)	59	58	56	53	50	47	45	43	40
	5.8 (22)	Torque lbf•ft (N•m)	36.9 (50)	84.9 (115)	166.1 (225)	250.9 (340)	335.8 (455)	413.3 (560)	490.8 (665)	568.3 (770)	
		Speed (rpm)	88	87	85	82	78	74	69	65	
	7.9 (30)	Torque lbf•ft (N•m)	36.9 (50)	84.9 (115)	169.7 (230)	258.3 (350)	343.2 (465)	420.7 (570)	501.8 (680)	579.3 (785)	
		Speed (rpm)	122	121	118	113	109	104	100	92	
	10.1 (38)	Torque lbf•ft (N•m)	35.4 (48)	82.7 (112)	173.4 (235)	262 (355)	350.6 (475)	428 (580)	512.9 (695)	586.7 (795)	
		Speed (rpm)	154	152	149	145	140	135	130	122	
	11.9 (45)	Torque lbf•ft (N•m)	33.2 (45)	81.2 (110)	169.7 (230)	258.3 (350)	350.6 (475)	435.4 (590)	516.6 (700)		
		Speed (rpm)	183	182	180	176	170	165	158		
Max. Cont.	14.6 (55)	Torque lbf•ft (N•m)	31 (42)	77.5 (105)	169.7 (230)	254.6 (345)	346.9 (470)	428 (580)			
		Speed (rpm)	224	223	221	218	212	205			
	17.2 (65)	Torque lbf•ft (N•m)	25.8 (35)	73.8 (100)	162.4 (220)	250.9 (340)	339.5 (460)	417 (565)			
		Speed (rpm)	266	265	263	258	252	242			
	19.8 (75)	Torque lbf•ft (N•m)	23.6 (32)	70.1 (95)	155 (210)	243.5 (330)	335.8 (455)	413.3 (560)			
		Speed (rpm)	307	306	303	298	290	280			
	22.5 (85)	Torque lbf•ft (N•m)	22.1 (30)	62.7 (85)	147.6 (200)	236.2 (320)	332.1 (450)	409.6 (555)			
		Speed (rpm)	348	346	342	336	330	320			
	25.1 (95)	Torque lbf•ft (N•m)	18.5 (25)	51.7 (70)	140.2 (190)	232.5 (315)	324.7 (440)	398.5 (540)			
		Speed (rpm)	386	384	378	372	365	355			
	30.4 (115)	Torque lbf•ft (N•m)		48 (65)	132.8 (180)	221.4 (300)	317.3 (430)				
		Speed (rpm)		465	458	450	442				

EBMK2



EBMK2 315 - 18.57 in³/rev (304.3 cm³/rev)

Max. Cont.

Max. Int.

Flow GPM (L/min)

Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
0.5 (2)	Torque lbf•ft (N•m)	33.2 (45)	70.1 (95)						
	Speed (rpm)	4	2						
1.1 (4)	Torque lbf•ft (N•m)	48 (65)	95.9 (130)	184.5 (250)	280.4 (380)	361.6 (490)			
	Speed (rpm)	12	11	10	8	6			
2.1 (8)	Torque lbf•ft (N•m)	51.7 (70)	99.6 (135)	191.9 (260)	287.8 (390)	376.4 (510)	464.9 (630)	560.9 (760)	645.8 (875)
	Speed (rpm)	24	23	22	20	18	15	10	6
4 (15)	Torque lbf•ft (N•m)	55.4 (75)	103.3 (140)	203 (275)	302.6 (410)	394.8 (535)	494.5 (670)	590.4 (800)	679 (920)
	Speed (rpm)	48	48	47	45	42	38	34	30
5.8 (22)	Torque lbf•ft (N•m)	51.7 (70)	103.3 (140)	210.3 (285)	313.7 (425)	409.6 (555)	505.5 (685)	597.8 (810)	693.7 (940)
	Speed (rpm)	71	70	69	66	62	56	50	42
7.9 (30)	Torque lbf•ft (N•m)	51.7 (70)	107 (145)	214 (290)	317.3 (430)	417 (565)	512.9 (695)	605.2 (820)	
	Speed (rpm)	97	97	96	93	88	80	70	
10.1 (38)	Torque lbf•ft (N•m)	48.7 (66)	103.3 (140)	214 (290)	321 (435)	420.7 (570)	527.7 (715)	616.2 (835)	
	Speed (rpm)	123	122	120	117	112	102	90	
11.9 (45)	Torque lbf•ft (N•m)	45.8 (62)	99.6 (135)	214 (290)	321 (435)	424.4 (575)	531.4 (720)	619.9 (840)	
	Speed (rpm)	147	146	144	142	135	125	118	
14.6 (55)	Torque lbf•ft (N•m)	42.8 (58)	95.9 (130)	210.3 (285)	317.3 (430)	424.4 (575)	531.4 (720)		
	Speed (rpm)	180	179	176	172	165	155		
17.2 (65)	Torque lbf•ft (N•m)	38.4 (52)	88.6 (120)	203 (275)	313.7 (425)	420.7 (570)	527.7 (715)		
	Speed (rpm)	213	212	210	205	200	190		
19.8 (75)	Torque lbf•ft (N•m)	29.5 (40)	81.2 (110)	191.9 (260)	306.3 (415)	413.3 (560)	524 (710)		
	Speed (rpm)	246	245	242	236	225	212		
22.5 (85)	Torque lbf•ft (N•m)	22.1 (30)	73.8 (100)	184.5 (250)	298.9 (405)	398.5 (540)			
	Speed (rpm)	278	277	274	270	260			
25.1 (95)	Torque lbf•ft (N•m)	14.8 (20)	66.4 (90)	180.8 (245)	280.4 (380)	380.1 (515)			
	Speed (rpm)	311	310	307	303	296			
30.4 (115)	Torque lbf•ft (N•m)		59 (80)	166.1 (225)	258.3 (350)				
	Speed (rpm)		365	361	355				

Max. Cont.

Max. Int.



PERFORMANCE DATA



EBMK2 400 - 23.85 in³/rev (390.8 cm³/rev)

		Max. Cont.					Max. Int.		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2248 (155)	2538 (175)	2756 (190)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	51.7 (70)	107 (145)					
		Speed (rpm)	4	2					
	1.1 (4)	Torque lbf•ft (N•m)	59 (80)	125.5 (170)	254.6 (345)	369 (500)	487.1 (660)	546.1 (740)	
		Speed (rpm)	9	9	8	7	6	5	
	2.1 (8)	Torque lbf•ft (N•m)	62.7 (85)	129.2 (175)	262 (355)	383.8 (520)	501.8 (680)	564.6 (765)	612.5 (830)
		Speed (rpm)	19	18	17	16	14	13	12
	4 (15)	Torque lbf•ft (N•m)	66.4 (90)	136.5 (185)	273.1 (370)	405.9 (550)	531.4 (720)	597.8 (810)	649.4 (880)
		Speed (rpm)	37	37	36	35	32	30	28
	5.8 (22)	Torque lbf•ft (N•m)	70.1 (95)	140.2 (190)	280.4 (380)	417 (565)	553.5 (750)	612.5 (830)	664.2 (900)
		Speed (rpm)	55	55	54	52	48	46	44
Max. Cont.	7.9 (30)	Torque lbf•ft (N•m)	67.9 (92)	138.7 (188)	284.1 (385)	420.7 (570)	560.9 (760)	616.2 (835)	667.9 (905)
		Speed (rpm)	76	75	73	71	68	65	62
	10.1 (38)	Torque lbf•ft (N•m)	66.4 (90)	136.5 (185)	284.1 (385)	424.4 (575)	564.6 (765)	619.9 (840)	686.3 (930)
		Speed (rpm)	96	94	92	90	86	84	80
	11.9 (45)	Torque lbf•ft (N•m)	62.7 (85)	132.8 (180)	280.4 (380)	420.7 (570)	560.9 (760)		
		Speed (rpm)	114	113	111	108	102		
	14.6 (55)	Torque lbf•ft (N•m)	59 (80)	129.2 (175)	280.4 (380)	420.7 (570)	560.9 (760)		
		Speed (rpm)	140	139	137	133	127		
	17.2 (65)	Torque lbf•ft (N•m)	55.4 (75)	125.5 (170)	273.1 (370)	413.3 (560)	553.5 (750)		
		Speed (rpm)	165	164	163	160	155		
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)	50.2 (68)	118.1 (160)	265.7 (360)	409.6 (555)	546.1 (740)		
		Speed (rpm)	191	190	188	184	178		
	22.5 (85)	Torque lbf•ft (N•m)	48 (65)	110.7 (150)	262 (355)	405.9 (550)	538.7 (730)		
		Speed (rpm)	214	212	210	206	200		
	25.1 (95)	Torque lbf•ft (N•m)	36.9 (50)	99.6 (135)	250.9 (340)	391.1 (530)	524 (710)		
		Speed (rpm)	242	240	237	233	228		
	30.4 (115)	Torque lbf•ft (N•m)		92.3 (125)	228.8 (310)	376.4 (510)			
		Speed (rpm)		286	282	275			

EBMK2



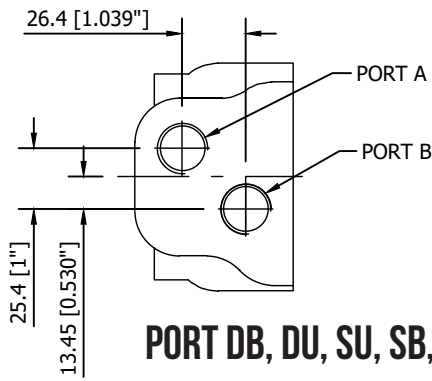
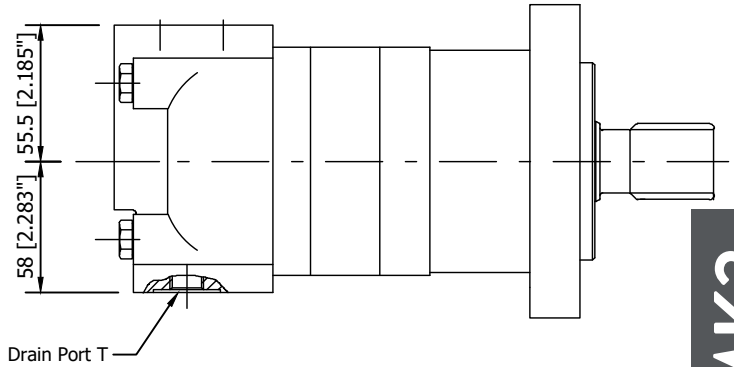
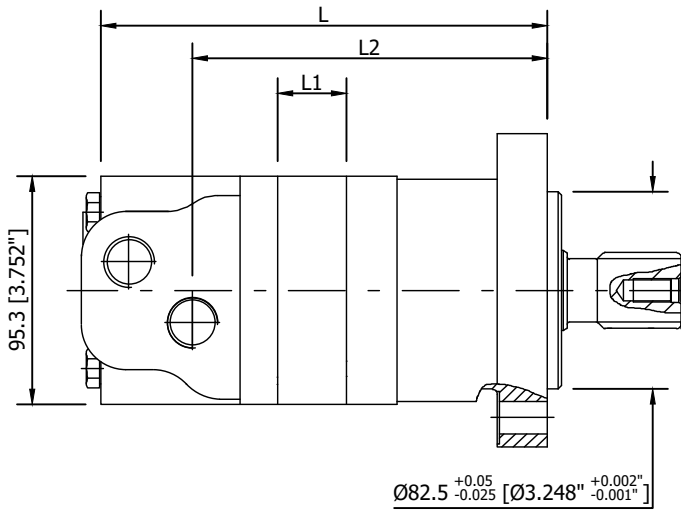
All numbers given are nominal values and should be used for reference only.

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EBMK2 475 - 29.6 in³/rev (485 cm³/rev)

						Max. Cont.	Max. Int.
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	1740 (120)	2031 (140)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	55.4 (75)	129.2 (175)			
		Speed (rpm)	2	1			
	1.1 (4)	Torque lbf•ft (N•m)	81.2 (110)	162.4 (220)	317.3 (430)	398.5 (540)	
		Speed (rpm)	7	6	4	1	
	2.1 (8)	Torque lbf•ft (N•m)	81.2 (110)	166.1 (225)	332.1 (450)	516.6 (700)	
		Speed (rpm)	14	13	11	7	
	4 (15)	Torque lbf•ft (N•m)	77.5 (105)	173.4 (235)	346.9 (470)	524 (710)	608.9 (825)
		Speed (rpm)	29	28	26	24	22
	5.8 (22)	Torque lbf•ft (N•m)	77.5 (105)	177.1 (240)	354.2 (480)	531.4 (720)	616.2 (835)
		Speed (rpm)	44	43	42	40	37
	7.9 (30)	Torque lbf•ft (N•m)	81.2 (110)	177.1 (240)	357.9 (485)	535.1 (725)	619.9 (840)
		Speed (rpm)	61	60	58	55	52
	10.1 (38)	Torque lbf•ft (N•m)	81.2 (110)	173.4 (235)	354.2 (480)	531.4 (720)	619.9 (840)
		Speed (rpm)	77	75	73	70	68
	11.9 (45)	Torque lbf•ft (N•m)	73.8 (100)	162.4 (220)	346.9 (470)	527.7 (715)	608.9 (825)
		Speed (rpm)	91	91	89	85	83
Max. Cont.	14.6 (55)	Torque lbf•ft (N•m)	70.1 (95)	155 (210)	339.5 (460)	524 (710)	605.2 (820)
		Speed (rpm)	112	110	108	104	100
	17.2 (65)	Torque lbf•ft (N•m)	62.7 (85)	147.6 (200)	328.4 (445)	516.6 (700)	597.8 (810)
		Speed (rpm)	132	131	128	125	120
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)	51.7 (70)	136.5 (185)	324.7 (440)	509.2 (690)	590.4 (800)
		Speed (rpm)	153	152	149	145	140
	22.5 (85)	Torque lbf•ft (N•m)	44.3 (60)	129.2 (175)	317.3 (430)	501.8 (680)	579.3 (785)
		Speed (rpm)	173	172	169	165	160
	25.1 (95)	Torque lbf•ft (N•m)	29.5 (40)	110.7 (150)	298.9 (405)	483.4 (655)	
		Speed (rpm)	195	193	190	185	
	30.4 (115)	Torque lbf•ft (N•m)		95.9 (130)	280.4 (380)	461.3 (625)	
		Speed (rpm)		230	226	220	

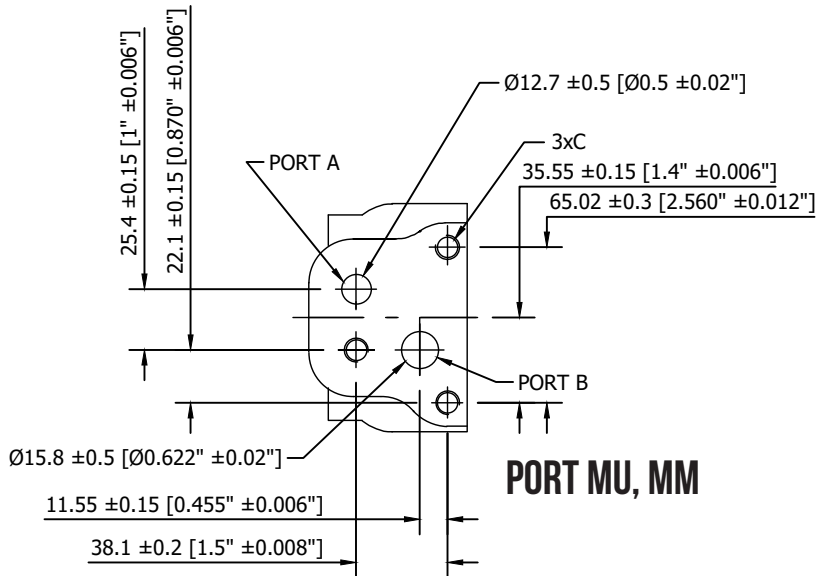
EBMK2 DIMENSIONS AND MOUNTING



PORT DB, DU, SU, SB, M4

MODEL	L	L1	L2
EBMK2-65	182 (7.165")	14.5 (0.571")	133.5 (5.256")
EBMK2-80	185 (7.283")	17.8 (0.701")	136.5 (5.374")
EBMK2-100	189.5 (7.461")	22.5 (0.886")	141.5 (5.571")
EBMK2-125	196 (7.717")	28.9 (1.138")	148 (5.827")
EBMK2-160	196 (7.717")	28.9 (1.138")	148 (5.827")
EBMK2-200	202.5 (7.972")	35.6 (1.402")	154.5 (6.083")
EBMK2-250	211.5 (8.327")	44.6 (1.756")	163.5 (6.437")
EBMK2-315	223 (8.78")	56 (2.205")	175 (6.89")
EBMK2-400	239 (9.409")	72 (2.835")	191 (7.52")
EBMK2-475	256.5 (10.098")	89.3 (3.516")	208.5 (8.209")

MODEL	L	L1	L2
EBMK2-62-WE	142 (5.591")	14.5 (0.571")	93.5 (3.681")
EBMK2-80-WE	145.5 (5.728")	17.8 (0.701")	97 (3.819")
EBMK2-100-WE	150 (5.906")	22.5 (0.886")	101.5 (3.996")
EBMK2-125-WE	156.5 (6.161")	28.9 (1.138")	108 (4.252")
EBMK2-160-WE	156.5 (6.161")	28.9 (1.138")	108 (4.252")
EBMK2-200-WE	163 (6.417")	35.6 (1.402")	114.5 (4.508")
EBMK2-250-WE	172 (6.772")	44.6 (1.756")	123.5 (4.862")
EBMK2-315-WE	183.5 (7.224")	56 (2.205")	135 (5.315")
EBMK2-400-WE	199.5 (7.854")	72 (2.835")	151 (5.945")
EBMK2-475-WE	217 (8.543")	89.3 (3.516")	168.5 (6.634")

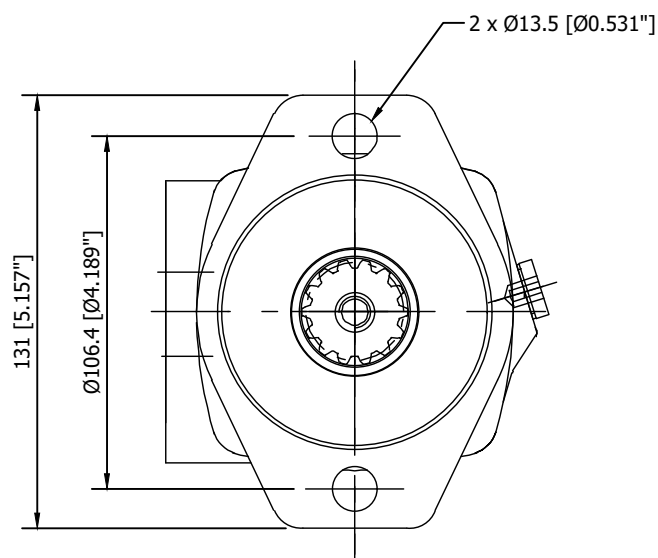
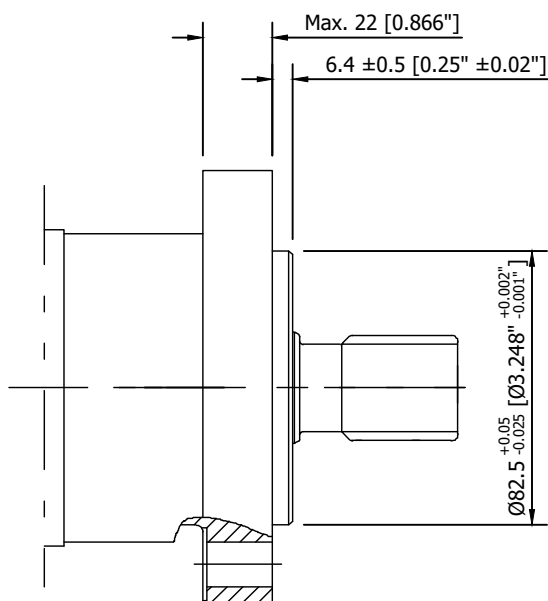


PORT MU, MM

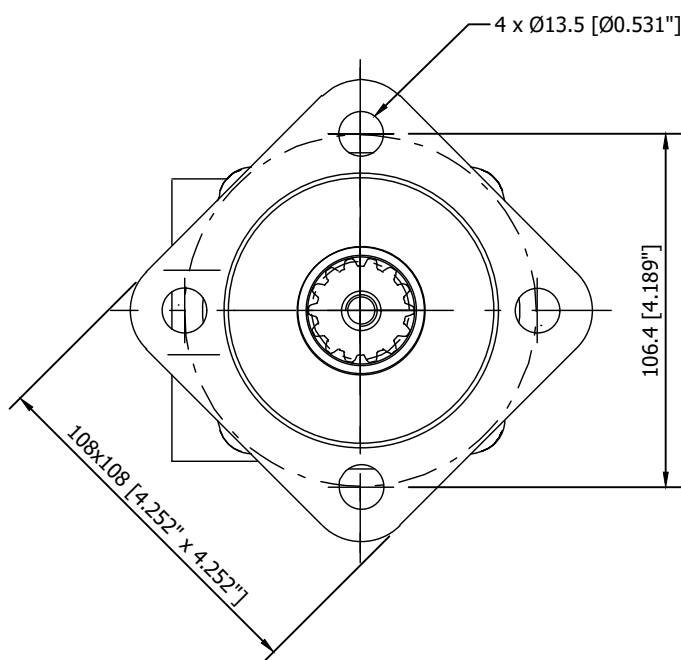
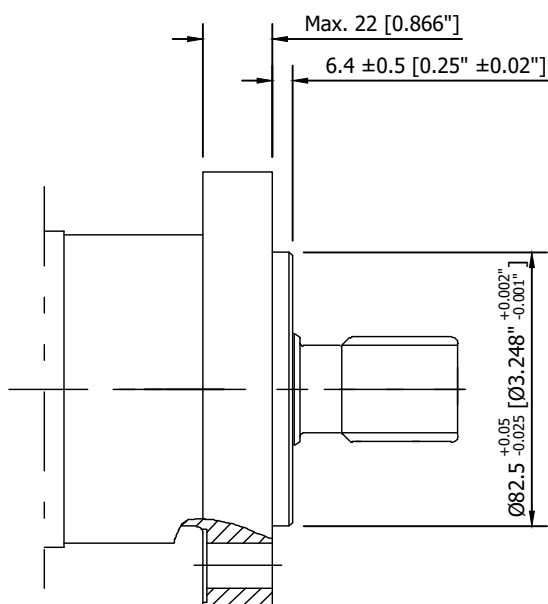
MOUNTING	CODE (Depth mm)						
	DB	DU	SU	SB	M4	MU	MM
P (A, B)	G 1/2 (15)	G 1/2 (15)	7/8-14 O-Ring (17)	7/8-14 O-Ring (17)	M22 x 1.5 (15)	Ø1/2", Ø5/8"	Ø1/2", Ø5/8"
T	G 1/4 (12)	7/16-20 UNF (12)	7/16-20 UNF (12)	G 1/4 (12)	M14 x 1.5 (12)	7/16-20 UNF (12)	G 1/4 (12)
C	---					3/8-16UNC (15)	M10 (15)

FLANGE E2

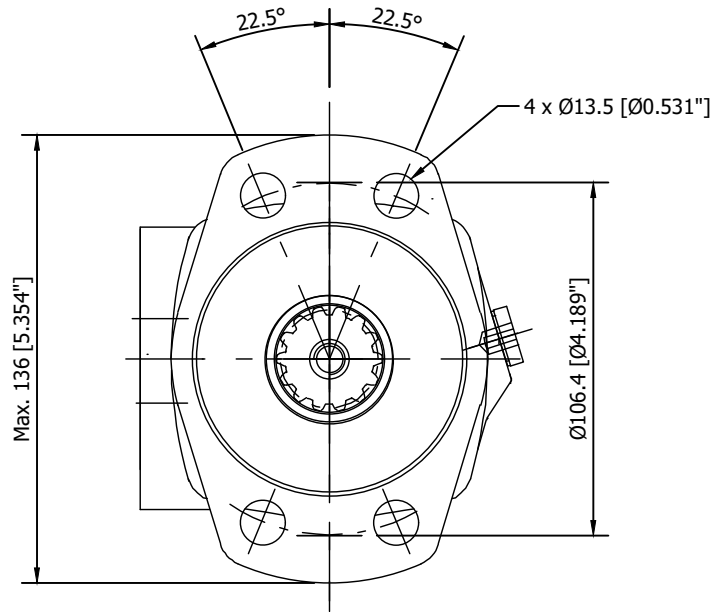
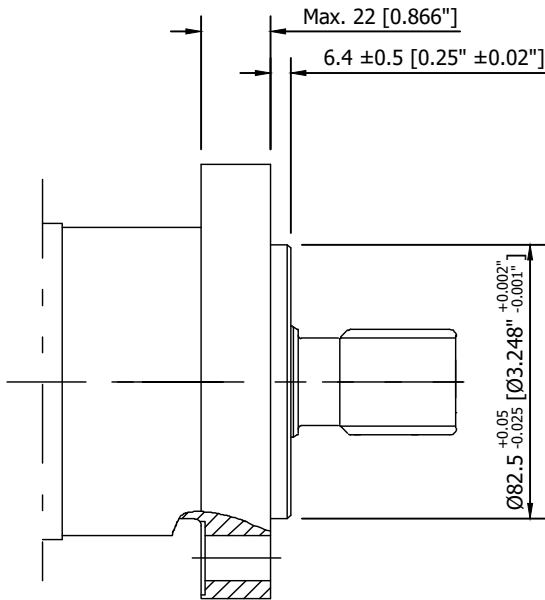
EBMK2



FLANGE E4

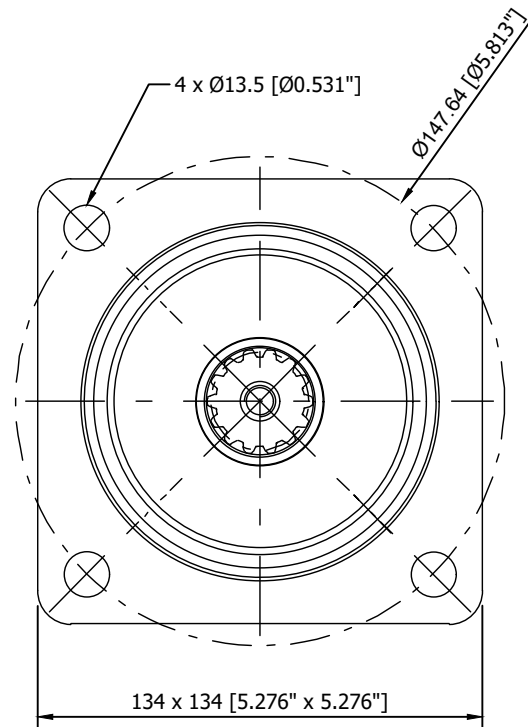
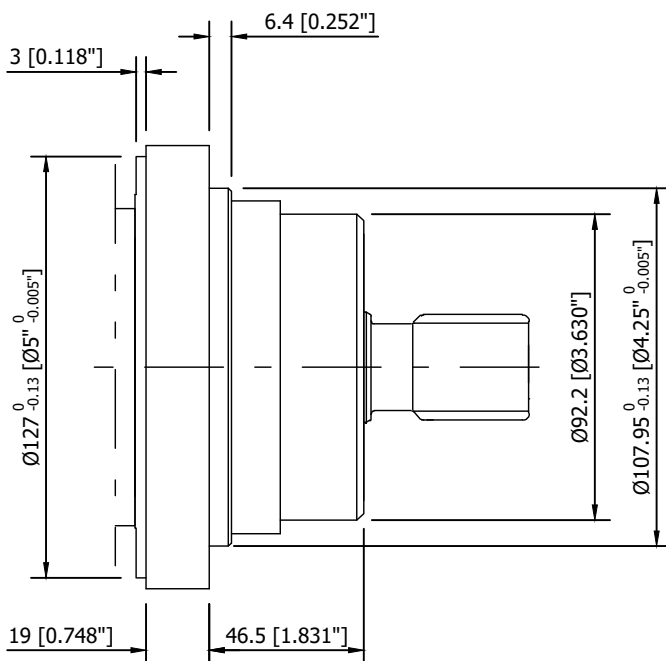


FLANGE E6



EBMK2

FLANGE WE

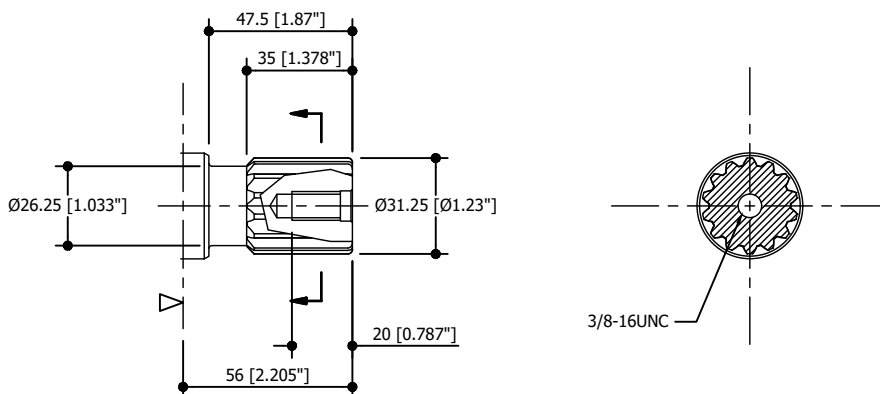


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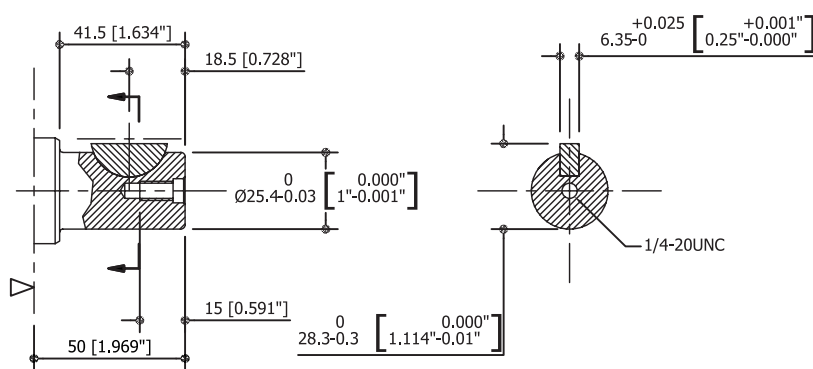
SHAFT FE

1-1/4" Splined 14-DP12/24
IMPERIAL



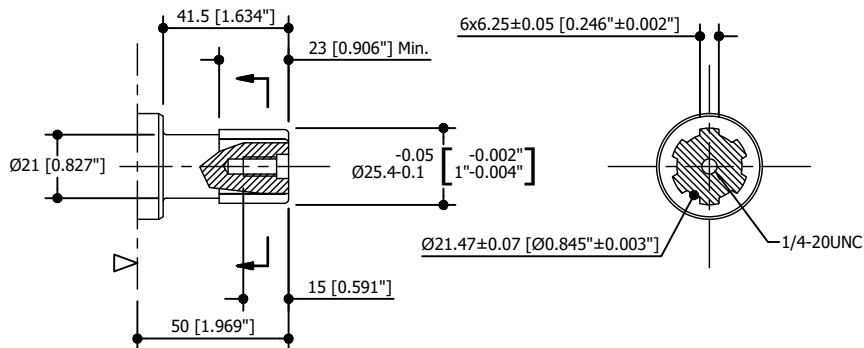
SHAFT K

Cylindrical Shaft Ø1"
Woodruff Key Ø1" x 1/4"
IMPERIAL



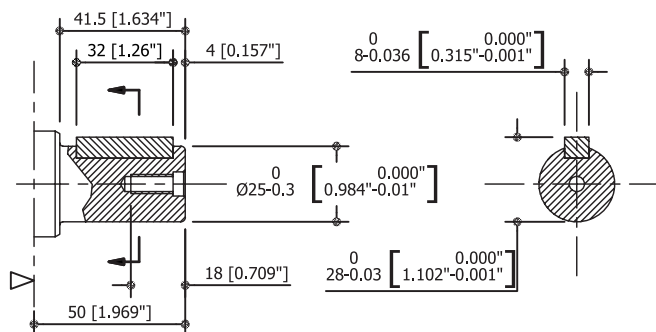
SHAFT S1

Splined SAE 6B
IMPERIAL



SHAFT A

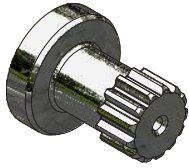
Cylindrical Shaft Ø25
Parallel Key 8 x 7 x 32
METRIC



EBMK2 SHAFT EXTENSIONS DIMENSIONS

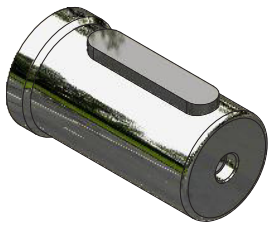
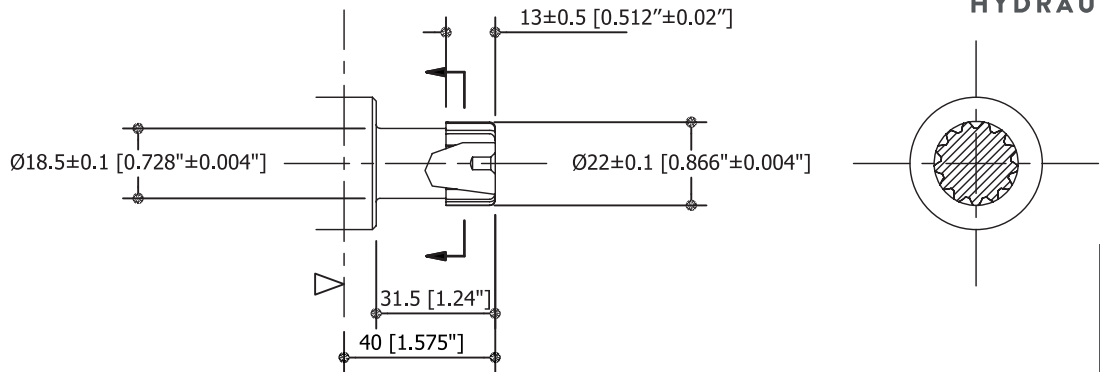


EAGLE
HYDRAULIC



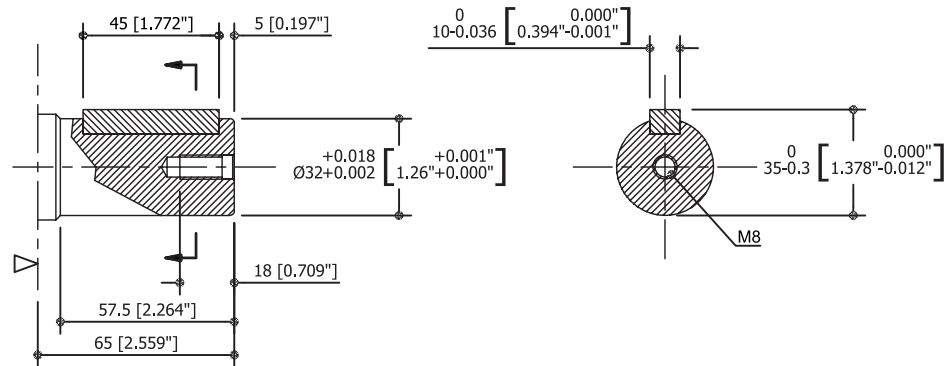
SHAFT I

Splined 13-DP16/32
METRIC

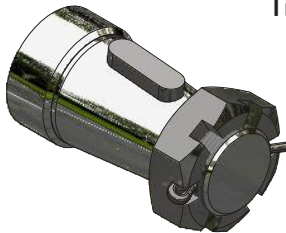


SHAFT B

Cylindrical Shaft $\varnothing 32$
Parallel Key 10 x 8 x 45
METRIC

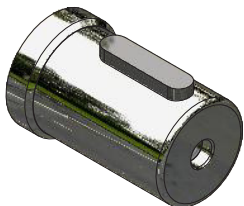
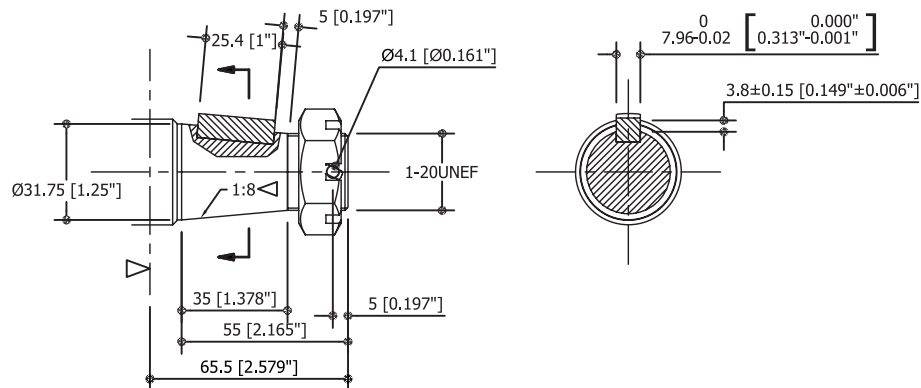


Tightening Torque: 200 +/- 10Nm



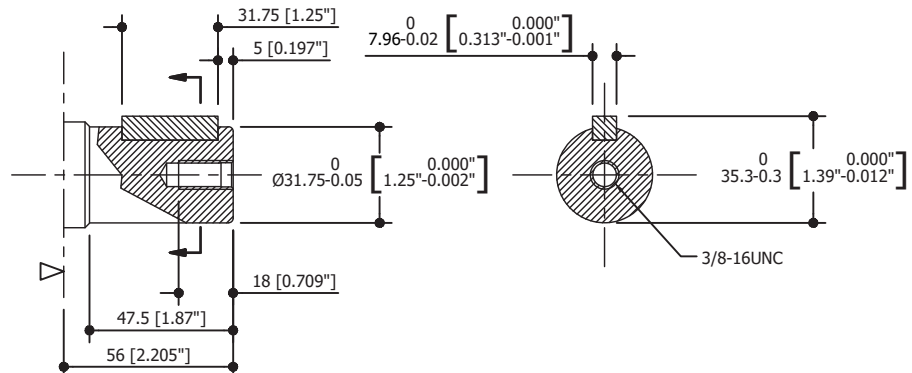
SHAFT T4

Cone Shaft $\varnothing 1-1/4$ "
Parallel Key $5/16$ " x $5/16$ " x 1"
IMPERIAL



SHAFT G

Cylindrical Shaft $\varnothing 1-1/4$ "
Parallel Key $5/16$ " x $5/16$ " x $1-1/4$ "
IMPERIAL



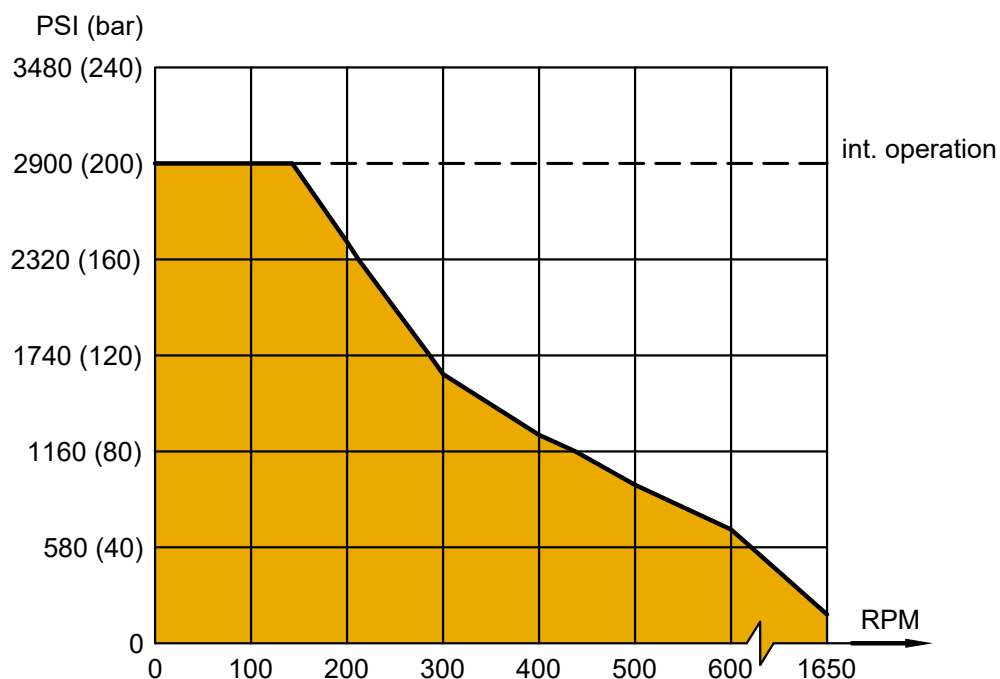
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EBMK2 PERMISSIBLE SHAFT SEAL PRESSURE

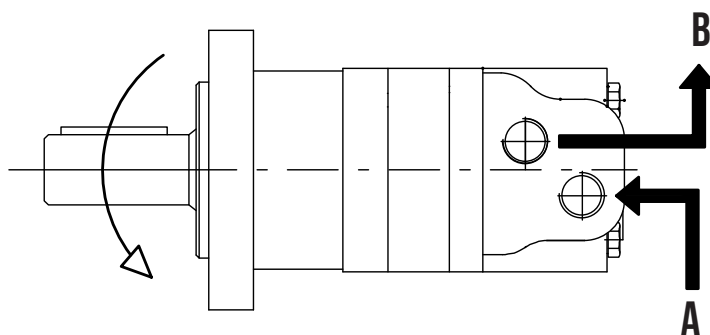
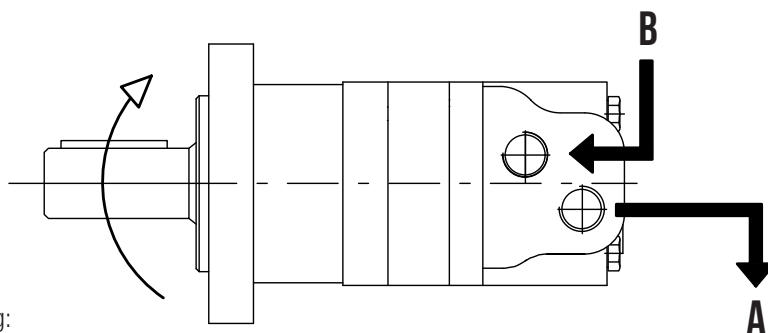
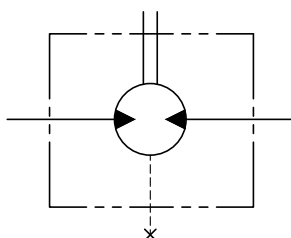
EBMK2



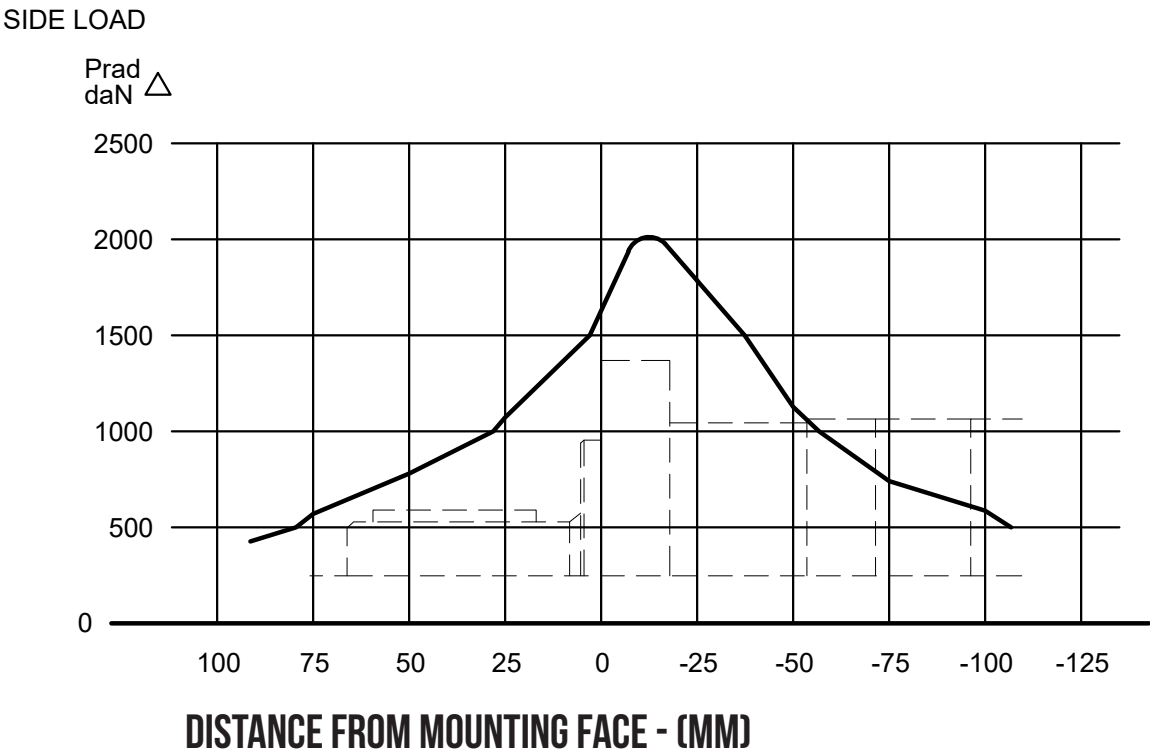
EBMK2 - DIRECTION OF SHAFT ROTATION : STANDARD

When facing shaft end of motor, shaft is rotating:

Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.



EBMK2 STANDARD MOUNTING FLANGE [E2] RADIAL FORCES



EBMK2

The bearing curve represents allowable bearing loads for an B_{10} bearing life (2000 hours or 12×10^6 revolutions at 100 rpm) at rated output torque.



EBMK6 series motor adapts the advanced Geroler gear set designed with disc distribution flow and high pressure. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- Advanced design in disc distribution.
- Shaft seal can bear high pressure of back.
- The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.

MAIN SPECIFICATIONS

		EBMK6 200	EBMK6 250	EBMK6 315	EBMK6 400	EBMK6 500	EBMK6 630	EBMK6 800	EBMK6 1000
Geometric displacement	in ³ /rev (cm ³ /rev.)	11.94 (195.6)	15.02 (246.1)	19.01 (311.6)	23.88 (391.3)	29.95 (490.8)	38.02 (623)	48.97 (802.4)	59.9 (981.6)
Max. Speed	Continuous (rpm)	765	610	480	382	304	240	186	152
	Intermittent (rpm)	865	830	690	570	455	360	280	230
Max. Torque	Continuous lbf•ft (N•m)	417 (565)	524 (710)	679 (920)	856.1 (1160)	1066.4 (1445)	1092.2 (1480)	1166 (1580)	1236.2 (1675)
	Intermittent lbf•ft (N•m)	619.9 (840)	797 (1080)	977.9 (1325)	1199.3 (1625)	1387.4 (1880)	1394.8 (1890)	1387.4 (1880)	1372.7 (1860)
Max. Pressure Drop	Continuous PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2538 (175)	2031 (140)	2031 (140)
	Intermittent PSI (bar)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	3989 (275)	3263 (225)	2248 (155)	2031 (140)
	Peak PSI (bar)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	4351 (300)	3481 (240)	2538 (175)	2466 (170)
Max. Flow	Continuous GPM (L/min)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)	39.7 (150)
	Intermittent GPM (L/min)	45 (170)	54.2 (205)	59.5 (225)	59.5 (225)	59.5 (225)	59.5 (225)	59.5 (225)	59.5 (225)
Weight	Lbs (kg)	57.9 (26.3)	59 (26.8)	60.1 (27.3)	61.6 (28)	63.4 (28.8)	65.1 (29.6)	67.1 (30.5)	70.4 (32)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.

EBMK6 ORDER INFORMATION

1	2	3	4	5	6	7	8
EBMK6		-		-		-	

1	2	3	4	5	6	7	8
CODE	Displacement	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
	200	CC 4-Ø14.2 Square-Flange Ø161.9, Pilot Ø127 x 12.5	G2 Shaft Ø1-1/2", Parallel Key 3/8"x3/8"x42mm	SF 3/4" Manifold Mount 8 x 3/8-16UNC, 7/16-20UNF	Omit Standard	00 No Paint	Omit Standard
	250	CC1 4-Ø14.2 Square-Flange Ø161.9, Pilot Ø125 x 12.5	FE Shaft Ø1-1/2", Splined Tooth 17-DP12/24	SF0 Ø16 Manifold Mount 4 x M12, M14 x 1.5	R Opposite	Omit Black	
	315	W 4-Ø14.2 Wheel-Flange Ø184.12, Pilot 139.7	Y1 Shaft Ø40, Parallel Key 12x8x63	SF5 1-5/16-12UN, 7/16-20UNF			
	400		T1 Cone-Shaft 1:8 Ø45, Parallel Key 7/16" x 7/16" x 1-1/4"	SF6 M33 x 2, M14 x 1.5			
	500			SF7 G1, G1/4			
	630			SF8 G3/4, G1/4			
	800						
	1000						

EBMK6

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc...
 If the specification is not in the table or you have specific requirements, please contact us.



EBMK6 200 - 11.94 in³/rev (195.6 cm³/rev)

		Max. Cont.						Max. Int.		Peak		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3481 (240)	3989 (275)	4351 (300)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	22.1 (30)	53.9 (73)	118.1 (160)							
		Speed (rpm)	9	7	5							
	2.1 (8)	Torque lbf•ft (N•m)	26.6 (36)	56.1 (76)	124 (168)	193.4 (262)	254.6 (345)	323.2 (438)	343.2 (465)			
		Speed (rpm)	39	38	35	34	31	27	16			
	4 (15)	Torque lbf•ft (N•m)	26.6 (36)	59.8 (81)	128.4 (174)	199.3 (270)	269.4 (365)	335.8 (455)	376.4 (510)	428 (580)	472.3 (640)	
		Speed (rpm)	75	75	74	71	65	60	45	32	16	
	7.9 (30)	Torque lbf•ft (N•m)	27.3 (37)	62.7 (85)	129.2 (175)	203 (275)	273.1 (370)	343.2 (465)	398.5 (540)	453.9 (615)	516.6 (700)	564.6 (765)
		Speed (rpm)	152	151	147	142	132	121	109	96	80	60
	11.9 (45)	Torque lbf•ft (N•m)	27.3 (37)	62.7 (85)	132.8 (180)	206.6 (280)	276.8 (375)	346.9 (470)	394.8 (535)	479.7 (650)	546.1 (740)	594.1 (805)
		Speed (rpm)	228	227	223	218	210	200	185	165	146	110
	15.9 (60)	Torque lbf•ft (N•m)	28 (38)	59 (80)	131.4 (178)	208.1 (282)	280.4 (380)	350.6 (475)	417 (565)	487.1 (660)	553.5 (750)	608.9 (825)
		Speed (rpm)	305	304	302	297	288	280	255	235	210	170
	19.8 (75)	Torque lbf•ft (N•m)	23.6 (32)	57.6 (78)	129.2 (175)	203 (275)	279 (378)	354.2 (480)	417 (565)	494.5 (670)	560.9 (760)	619.9 (840)
		Speed (rpm)	382	380	376	370	362	350	328	300	270	230
	23.8 (90)	Torque lbf•ft (N•m)	19.2 (26)	55.4 (75)	126.9 (172)	199.3 (270)	276.8 (375)	350.6 (475)	417 (565)	487.1 (660)	564.6 (765)	
		Speed (rpm)	459	456	452	445	436	420	405	383	355	
	27.8 (105)	Torque lbf•ft (N•m)	16.2 (22)	51.7 (70)	125.5 (170)	199.3 (270)	273.1 (370)	346.9 (470)	413.3 (560)	487.1 (660)	560.9 (760)	
		Speed (rpm)	536	534	530	523	510	496	470	435	400	
31.7 (120)	Torque lbf•ft (N•m)	14.8 (20)	49.4 (67)	122.5 (166)	195.6 (265)	269.4 (365)	343.2 (465)	413.3 (560)	487.1 (660)	557.2 (755)		
	Speed (rpm)	612	610	605	598	585	570	536	502	450		
35.7 (135)	Torque lbf•ft (N•m)	10.3 (14)	48 (65)	118.1 (160)	191.9 (260)	265.7 (360)	343.2 (465)	413.3 (560)	483.4 (655)	553.5 (750)		
	Speed (rpm)	690	687	680	672	650	638	595	550	485		
Max. Cont. 39.7 (150)	Torque lbf•ft (N•m)	7.4 (10)	44.3 (60)	114.4 (155)	190.4 (258)	262.7 (356)	332.1 (450)	405.9 (550)	479.7 (650)			
	Speed (rpm)	765	765	755	740	725	700	640	580			
Max. Int. 45 (170)	Torque lbf•ft (N•m)		44.3 (60)	114.4 (155)	188.2 (255)	258.3 (350)	332.1 (450)	402.2 (545)	472.3 (640)			
	Speed (rpm)		865	850	840	820	800	745	700			

Max. Cont.

Max. Int.



EBMK6 250 - 15.02 in³/rev (246.1 cm³/rev)

		Max. Cont.						Max. Int.		Peak		
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3481 (240)	3989 (275)	4351 (300)	
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	33.9 (46)	67.9 (92)								
		Speed (rpm)	7	4								
	2.1 (8)	Torque lbf•ft (N•m)	37.6 (51)	76 (103)	158.7 (215)	247.2 (335)	324.7 (440)	405.9 (550)	413.3 (560)			
		Speed (rpm)	31	30	27	24	21	15	10			
	4 (15)	Torque lbf•ft (N•m)	38.4 (52)	77.5 (105)	162.4 (220)	250.9 (340)	335.8 (455)	420.7 (570)	472.3 (640)	549.8 (745)	627.3 (850)	708.5 (960)
		Speed (rpm)	58	57	55	52	46	40	37	28	10	5
	7.9 (30)	Torque lbf•ft (N•m)	40.6 (55)	81.2 (110)	171.2 (232)	259.8 (352)	346.9 (470)	442.8 (600)	505.5 (685)	583 (790)	664.2 (900)	752.8 (1020)
		Speed (rpm)	118	116	113	110	105	96	80	64	48	35
	11.9 (45)	Torque lbf•ft (N•m)	42.8 (58)	81.2 (110)	173.4 (235)	262 (355)	350.6 (475)	450.2 (610)	520.3 (705)	619.9 (840)	693.7 (940)	774.9 (1050)
		Speed (rpm)	180	177	174	170	164	155	140	126	106	88
	15.9 (60)	Torque lbf•ft (N•m)	39.1 (53)	81.2 (110)	169.7 (230)	258.3 (350)	354.2 (480)	453.9 (615)	520.3 (705)	623.6 (845)	704.8 (955)	797 (1080)
		Speed (rpm)	242	240	237	233	224	212	198	180	162	140
	19.8 (75)	Torque lbf•ft (N•m)	33.2 (45)	77.5 (105)	169.7 (230)	262 (355)	357.9 (485)	457.6 (620)	524 (710)	627.3 (850)	708.5 (960)	797 (1080)
		Speed (rpm)	302	298	292	285	278	268	254	230	206	182
	23.8 (90)	Torque lbf•ft (N•m)	33.2 (45)	77.5 (105)	166.1 (225)	258.3 (350)	354.2 (480)	453.9 (615)	524 (710)	623.6 (845)	704.8 (955)	
		Speed (rpm)	364	360	352	342	338	322	305	288	265	
	27.8 (105)	Torque lbf•ft (N•m)	29.5 (40)	73.8 (100)	162.4 (220)	250.9 (340)	350.6 (475)	450.2 (610)	520.3 (705)	619.9 (840)	701.1 (950)	
		Speed (rpm)	424	420	414	408	394	372	352	334	315	
	31.7 (120)	Torque lbf•ft (N•m)	28 (38)	70.1 (95)	155 (210)	250.9 (340)	346.9 (470)	435.4 (590)	516.6 (700)	612.5 (830)	693.7 (940)	
		Speed (rpm)	485	479	471	463	454	442	420	385	365	
	35.7 (135)	Torque lbf•ft (N•m)	25.8 (35)	62.7 (85)	151.3 (205)	239.9 (325)	339.5 (460)	428 (580)	509.2 (690)	605.2 (820)		
		Speed (rpm)	546	540	532	525	516	504	478	445		
	39.7 (150)	Torque lbf•ft (N•m)	22.1 (30)	59 (80)	147.6 (200)	236.2 (320)	332.1 (450)	420.7 (570)	501.8 (680)	601.5 (815)		
		Speed (rpm)	608	605	600	592	580	566	532	496		
Max. Cont.	45 (170)	Torque lbf•ft (N•m)		48 (65)	140.2 (190)	232.5 (315)	324.7 (440)	413.3 (560)	498.2 (675)	553.5 (750)		
		Speed (rpm)		686	678	665	652	635	600	565		
Max. Int.	48.9 (185)	Torque lbf•ft (N•m)			136.5 (185)	228.8 (310)	317.3 (430)	402.2 (545)	494.5 (670)			
		Speed (rpm)			750	746	730	708	658			
	54.2 (205)	Torque lbf•ft (N•m)			129.2 (175)	221.4 (300)	308.5 (418)	395.6 (536)	414.8 (562)			
		Speed (rpm)			830	820	800	776	735			

EBMK6



EBMK6 315 - 19.01 in³/rev (311.6 cm³/rev)

			Max. Cont.						Max. Int.		Peak	
Pressure PSI (bar)			254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3481 (240)	3989 (275)	4351 (300)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	48 (65)	93 (126)								
		Speed (rpm)	5	4								
	2.1 (8)	Torque lbf•ft (N•m)	50.2 (68)	99.6 (135)	206.6 (280)	302.6 (410)	398.5 (540)	479.7 (650)	553.5 (750)	649.4 (880)		
		Speed (rpm)	24	23	22	20	16	13	9	3		
	4 (15)	Torque lbf•ft (N•m)	51.7 (70)	99.6 (135)	210.3 (285)	321 (435)	417 (565)	509.2 (690)	597.8 (810)	693.7 (940)	745.4 (1010)	763.8 (1035)
		Speed (rpm)	46	45	44	41	36	30	22	16	9	3
	7.9 (30)	Torque lbf•ft (N•m)	51.7 (70)	99.6 (135)	217.7 (295)	324.7 (440)	442.8 (600)	546.1 (740)	649.4 (880)	730.6 (990)	811.8 (1100)	870.8 (1180)
		Speed (rpm)	93	92	90	86	80	71	62	52	43	31
	11.9 (45)	Torque lbf•ft (N•m)	51.7 (70)	103.3 (140)	221.4 (300)	339.5 (460)	450.2 (610)	553.5 (750)	664.2 (900)	763.8 (1035)	859.8 (1165)	959.4 (1300)
		Speed (rpm)	142	140	138	132	127	120	118	96	85	72
	15.9 (60)	Torque lbf•ft (N•m)	51.7 (70)	103.3 (140)	221.4 (300)	339.5 (460)	453.9 (615)	572 (775)	679 (920)	778.6 (1055)	885.6 (1200)	977.9 (1325)
		Speed (rpm)	190	189	186	182	176	167	154	138	124	105
Max. Cont.	19.8 (75)	Torque lbf•ft (N•m)	48 (65)	99.6 (135)	217.7 (295)	335.8 (455)	453.9 (615)	575.6 (780)	679 (920)	786 (1065)	896.7 (1215)	
		Speed (rpm)	238	237	235	231	225	214	200	180	160	
	23.8 (90)	Torque lbf•ft (N•m)	44.3 (60)	95.9 (130)	214 (290)	332.1 (450)	453.9 (615)	575.6 (780)	679 (920)	789.7 (1070)	900.4 (1220)	
		Speed (rpm)	285	284	280	276	270	260	245	226	210	
	27.8 (105)	Torque lbf•ft (N•m)	36.9 (50)	92.3 (125)	206.6 (280)	328.4 (445)	446.5 (605)	568.3 (770)	675.3 (915)	789.7 (1070)	889.3 (1205)	
		Speed (rpm)	335	333	330	324	316	302	290	271	248	
	31.7 (120)	Torque lbf•ft (N•m)	33.2 (45)	88.6 (120)	206.6 (280)	324.7 (440)	442.8 (600)	564.6 (765)	671.6 (910)	778.6 (1055)		
		Speed (rpm)	384	382	380	372	364	350	338	312		
	35.7 (135)	Torque lbf•ft (N•m)	29.5 (40)	84.9 (115)	203 (275)	321 (435)	431.7 (585)	560.9 (760)	664.2 (900)	774.9 (1050)		
		Speed (rpm)	432	428	420	412	408	391	380	350		
	39.7 (150)	Torque lbf•ft (N•m)	25.8 (35)	81.2 (110)	199.3 (270)	310 (420)	420.7 (570)	557.2 (755)	649.4 (880)	760.1 (1030)		
		Speed (rpm)	480	475	462	458	450	435	420	395		
Max. Int.	50.3 (190)	Torque lbf•ft (N•m)		73.8 (100)	180.8 (245)	276.8 (375)	383.8 (520)	505.5 (685)	605.2 (820)			
		Speed (rpm)		595	580	574	560	548	530			
	59.5 (225)	Torque lbf•ft (N•m)			162.4 (220)	258.3 (350)	369 (500)	472.3 (640)	568.3 (770)			
	Speed (rpm)			690	683	674	652	634				



EBMK6 400 - 23.88 in³/rev (391.3 cm³/rev)

			Max. Cont.					Max. Int.		Peak		
Pressure PSI (bar)			254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3481 (240)	3989 (275)	4351 (300)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	66.4 (90)	126.9 (172)	265.7 (360)							
		Speed (rpm)	4	2	1							
	2.1 (8)	Torque lbf•ft (N•m)	70.1 (95)	132.8 (180)	273.1 (370)	409.6 (555)	538.7 (730)	653.1 (885)	756.5 (1025)	881.9 (1195)		
		Speed (rpm)	19	18	17	16	14	12	9	4		
	4 (15)	Torque lbf•ft (N•m)	70.1 (95)	136.5 (185)	276.8 (375)	413.3 (560)	546.1 (740)	686.3 (930)	789.7 (1070)	933.6 (1265)	1018.4 (1380)	1199.3 (1625)
		Speed (rpm)	37	37	36	35	33	28	22	14	5	1
	7.9 (30)	Torque lbf•ft (N•m)	72.3 (98)	136.5 (185)	280.4 (380)	424.4 (575)	560.9 (760)	708.5 (960)	837.6 (1135)	970.5 (1315)	1073.8 (1455)	1199.3 (1625)
		Speed (rpm)	75	74	73	71	68	65	55	45	31	20
	11.9 (45)	Torque lbf•ft (N•m)	70.1 (95)	136.5 (185)	284.1 (385)	428 (580)	564.6 (765)	715.9 (970)	845 (1145)	985.2 (1335)	1129.1 (1530)	
		Speed (rpm)	114	113	111	108	105	100	90	80	72	
	15.9 (60)	Torque lbf•ft (N•m)	66.4 (90)	132.8 (180)	280.4 (380)	428 (580)	568.3 (770)	719.6 (975)	852.4 (1155)	992.6 (1345)		
		Speed (rpm)	152	152	150	147	142	134	126	112		
	19.8 (75)	Torque lbf•ft (N•m)	62.7 (85)	132.8 (180)	280.4 (380)	428 (580)	572 (775)	723.2 (980)	856.1 (1160)	1000 (1355)		
		Speed (rpm)	191	191	188	186	181	172	160	148		
	23.8 (90)	Torque lbf•ft (N•m)	59 (80)	129.2 (175)	276.8 (375)	420.7 (570)	564.6 (765)	719.6 (975)	852.4 (1155)			
		Speed (rpm)	230	229	227	224	220	212	200			
	27.8 (105)	Torque lbf•ft (N•m)	51.7 (70)	121.8 (165)	265.7 (360)	413.3 (560)	560.9 (760)	712.2 (965)	848.7 (1150)			
		Speed (rpm)	268	267	265	260	254	246	232			
31.7 (120)	Torque lbf•ft (N•m)	48 (65)	118.1 (160)	262 (355)	405.9 (550)	549.8 (745)	701.1 (950)	841.3 (1140)				
	Speed (rpm)	306	305	303	298	290	278	262				
35.7 (135)	Torque lbf•ft (N•m)	40.6 (55)	114.4 (155)	250.9 (340)	402.2 (545)	542.4 (735)	693.7 (940)	826.6 (1120)				
	Speed (rpm)	345	343	337	330	322	310	295				
39.7 (150)	Torque lbf•ft (N•m)	33.2 (45)	107 (145)	236.2 (320)	391.1 (530)	538.7 (730)	682.7 (925)					
	Speed (rpm)	382	380	376	370	362	352					
50.3 (190)	Torque lbf•ft (N•m)		95.9 (130)	221.4 (300)	380.1 (515)	538.7 (730)	675.3 (915)					
	Speed (rpm)		483	476	470	458	445					
59.5 (225)	Torque lbf•ft (N•m)			210.3 (285)	369 (500)	524 (710)	660.5 (895)					
	Speed (rpm)			570	560	550	535					

EBMK6



EBMK6 500 - 29.95 in³/rev (490.8 cm³/rev)

												Max. Cont.	Max. Int.	Peak
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3481 (240)	3989 (275)				
Flow GPM (L/min)	1.0 (4)	Torque lbf•ft (N•m)	88.6 (120)	169.7 (230)	346.9 (470)	505.5 (685)								
		Speed (rpm)	7	6	5	3								
	2.1 (8)	Torque lbf•ft (N•m)	92.3 (125)	177.1 (240)	350.6 (475)	520.3 (705)	693.7 (940)	859.8 (1165)	1014.8 (1375)					
		Speed (rpm)	15	14	13	12	11	8	3					
	4 (15)	Torque lbf•ft (N•m)	92.3 (125)	173.4 (235)	354.2 (480)	531.4 (720)	708.5 (960)	878.2 (1190)	1033.2 (1400)	1199.3 (1625)	1387.4 (1880)			
		Speed (rpm)	30	29	29	28	27	25	21	17	12			
	7.9 (30)	Torque lbf•ft (N•m)	92.3 (125)	173.4 (235)	357.9 (485)	542.4 (735)	719.6 (975)	896.7 (1215)	1066.4 (1445)	1243.5 (1685)				
		Speed (rpm)	60	59	58	57	54	50	45	35				
	11.9 (45)	Torque lbf•ft (N•m)	92.3 (125)	173.4 (235)	357.9 (485)	542.4 (735)	719.6 (975)	896.7 (1215)	1070.1 (1450)					
		Speed (rpm)	91	90	89	87	84	78	70					
	15.9 (60)	Torque lbf•ft (N•m)	88.6 (120)	173.4 (235)	354.2 (480)	538.7 (730)	719.6 (975)	900.4 (1220)	1077.5 (1460)					
		Speed (rpm)	121	121	120	118	114	108	98					
	19.8 (75)	Torque lbf•ft (N•m)	81.2 (110)	166.1 (225)	346.9 (470)	535.1 (725)	715.9 (970)	900.4 (1220)						
		Speed (rpm)	152	151	149	146	142	135						
	23.8 (90)	Torque lbf•ft (N•m)	73.8 (100)	162.4 (220)	343.2 (465)	531.4 (720)	712.2 (965)	896.7 (1215)						
		Speed (rpm)	182	182	180	178	175	168						
	27.8 (105)	Torque lbf•ft (N•m)	70.1 (95)	151.3 (205)	339.5 (460)	524 (710)	708.5 (960)	893 (1210)						
		Speed (rpm)	213	212	210	206	201	195						
	31.7 (120)	Torque lbf•ft (N•m)	66.4 (90)	143.9 (195)	332.1 (450)	516.6 (700)	701.1 (950)	889.3 (1205)						
		Speed (rpm)	244	243	240	235	228	221						
	35.7 (135)	Torque lbf•ft (N•m)	62.7 (85)	129.2 (175)	321 (435)	501.8 (680)	690 (935)	863.5 (1170)						
		Speed (rpm)	274	273	270	265	258	250						
	39.7 (150)	Torque lbf•ft (N•m)	51.7 (70)	114.4 (155)	310 (420)	490.8 (665)	679 (920)	848.7 (1150)						
		Speed (rpm)	304	303	301	292	287	280						
	50.3 (190)	Torque lbf•ft (N•m)		95.9 (130)	265.7 (360)	428 (580)	638.4 (865)							
		Speed (rpm)		385	382	373	365							
	59.5 (225)	Torque lbf•ft (N•m)			236.2 (320)	409.6 (555)	590.4 (800)							
		Speed (rpm)			455	440	432							

Max. Cont.

Max. Int.



PERFORMANCE DATA



EBMK6 630 - 38.02 in³/rev (623 cm³/rev)

		<i>Max. Cont.</i>						<i>Max. Int.</i>	
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2901 (200)	3263 (225)
Flow GPM (L/min)	1.0 (4)	Torque lbf•ft (N•m)	95.9 (130)	180.8 (245)	369 (500)	553.5 (750)			
		Speed (rpm)	6	5	4	2			
	2.1 (8)	Torque lbf•ft (N•m)	99.6 (135)	195.6 (265)	398.5 (540)	594.1 (805)	774.9 (1050)		
		Speed (rpm)	12	12	11	10	6		
	4 (15)	Torque lbf•ft (N•m)	103.3 (140)	206.6 (280)	431.7 (585)	638.4 (865)	800.7 (1085)	1051.7 (1425)	
		Speed (rpm)	24	23	22	21	16	13	
	7.9 (30)	Torque lbf•ft (N•m)	107 (145)	217.7 (295)	446.5 (605)	682.7 (925)	937.3 (1270)	1092.2 (1480)	1313.6 (1780)
		Speed (rpm)	48	47	45	42	38	34	30
	11.9 (45)	Torque lbf•ft (N•m)	107 (145)	217.7 (295)	450.2 (610)	679 (920)	981.5 (1330)	1081.2 (1465)	1306.3 (1770)
		Speed (rpm)	72	71	70	68	65	58	50
	15.9 (60)	Torque lbf•ft (N•m)	99.6 (135)	210.3 (285)	446.5 (605)	675.3 (915)	981.5 (1330)	1081.2 (1465)	
		Speed (rpm)	95	94	91	87	83	78	
	19.8 (75)	Torque lbf•ft (N•m)	95.9 (130)	203 (275)	439.1 (595)	675.3 (915)	977.9 (1325)		
		Speed (rpm)	120	119	116	112	106		
	23.8 (90)	Torque lbf•ft (N•m)	84.9 (115)	191.9 (260)	431.7 (585)	667.9 (905)	966.8 (1310)		
		Speed (rpm)	145	144	141	137	130		
	27.8 (105)	Torque lbf•ft (N•m)	73.8 (100)	188.2 (255)	424.4 (575)	660.5 (895)	963.1 (1305)		
		Speed (rpm)	168	167	164	160	152		
	31.7 (120)	Torque lbf•ft (N•m)	62.7 (85)	173.4 (235)	413.3 (560)	649.4 (880)	944.6 (1280)		
		Speed (rpm)	192	191	186	182	175		
	35.7 (135)	Torque lbf•ft (N•m)	55.4 (75)	162.4 (220)	398.5 (540)	631 (855)			
		Speed (rpm)	216	215	212	207			
	39.7 (150)	Torque lbf•ft (N•m)	36.9 (50)	147.6 (200)	387.5 (525)	62 (84)			
		Speed (rpm)	240	239	236	233			
Max. Cont.	50.3 (190)	Torque lbf•ft (N•m)			343.2 (465)	586.7 (795)			
		Speed (rpm)			300	293			
Max. Int.	59.5 (225)	Torque lbf•ft (N•m)			317.3 (430)	546.1 (740)			
		Speed (rpm)			360	348			

EBMK6



All numbers given are nominal values and should be used for reference only.

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EBMK6 800 - 48.97 in³/rev (802.4 cm³/rev)

Max. Cont.

Max. Int.

Flow GPM (L/min)

Pressure PSI (bar)		254 (17.5)	508 (35)	725 (50)	1015 (70)	1233 (85)	1523 (105)	1740 (120)	2031 (140)	2248 (155)	2538 (175)
1.0 (4)	Torque lbf•ft (N•m)	126.9 (172)	254.6 (345)	391.1 (530)	509.2 (690)	634.7 (860)					
	Speed (rpm)	4	4	2	2	1					
2.1 (8)	Torque lbf•ft (N•m)	132.8 (180)	262 (355)	398.5 (540)	535.1 (725)	704.8 (955)	797 (1080)	941 (1275)	1003.7 (1360)		
	Speed (rpm)	9	9	8	8	7	6	5	4		
4 (15)	Torque lbf•ft (N•m)	136.5 (185)	273.1 (370)	417 (565)	559.4 (758)	723.2 (980)	833.9 (1130)	933.6 (1265)	1048 (1420)	1221.4 (1655)	1387.4 (1880)
	Speed (rpm)	18	18	17	17	16	15	14	12	10	9
7.9 (30)	Torque lbf•ft (N•m)	140.2 (190)	284.1 (385)	435.4 (590)	586.7 (795)	741.7 (1005)	885.6 (1200)	981.5 (1330)	1166 (1580)	1284.1 (1740)	
	Speed (rpm)	36	35	34	33	32	31	29	28	26	
11.9 (45)	Torque lbf•ft (N•m)	140.2 (190)	284.1 (385)	435.4 (590)	590.4 (800)	749.1 (1015)	885.6 (1200)	1018.4 (1380)	1143.9 (1550)		
	Speed (rpm)	55	55	54	53	52	52	50	48		
15.9 (60)	Torque lbf•ft (N•m)	136.5 (185)	280.4 (380)	428 (580)	583 (790)	749.1 (1015)	885.6 (1200)	992.6 (1345)			
	Speed (rpm)	74	73	72	70	69	67	65			
19.8 (75)	Torque lbf•ft (N•m)	129.9 (176)	273.1 (370)	424.4 (575)	577.1 (782)	738 (1000)	874.5 (1185)	1007.4 (1365)			
	Speed (rpm)	92	92	91	88	87	85	82			
23.8 (90)	Torque lbf•ft (N•m)	121.8 (165)	265.7 (360)	413.3 (560)	564.6 (765)	730.6 (990)	863.5 (1170)				
	Speed (rpm)	112	111	110	108	106	102				
27.8 (105)	Torque lbf•ft (N•m)	110.7 (150)	250.9 (340)	409.6 (555)	553.5 (750)	717.3 (972)	852.4 (1155)				
	Speed (rpm)	130	129	128	127	125	120				
31.7 (120)	Torque lbf•ft (N•m)	97.4 (132)	239.9 (325)	402.2 (545)	542.4 (735)	697.4 (945)	833.9 (1130)				
	Speed (rpm)	149	148	146	143	140	135				
35.7 (135)	Torque lbf•ft (N•m)	77.5 (105)	222.9 (302)	387.5 (525)	524 (710)	672.3 (911)					
	Speed (rpm)	168	167	165	162	158					
39.7 (150)	Torque lbf•ft (N•m)	59 (80)	199.3 (270)	369 (500)	501.8 (680)	649.4 (880)					
	Speed (rpm)	186	185	183	180	176					
50.3 (190)	Torque lbf•ft (N•m)		221.4 (300)	350.6 (475)	487.1 (660)	631 (855)					
	Speed (rpm)		235	233	230	226					
59.5 (225)	Torque lbf•ft (N•m)			312.2 (423)	451.7 (612)	612.5 (830)					
	Speed (rpm)			280	276	272					

Max. Cont.

Max. Int.

EBMK6 1000 - 59.9 in³/rev (981.6 cm³/rev)

								Max. Cont.	Max. Int.
Pressure PSI (bar)		254 (17.5)	508 (35)	725 (50)	1015 (70)	1233 (85)	1523 (105)	1740 (120)	2031 (140)
Flow GPM (L/min)	1.0 (4)	Torque lbf•ft (N•m)	166.1 (225)	339.5 (460)	472.3 (640)	645.8 (875)	800.7 (1085)		
		Speed (rpm)	3	3	2	2	1		
	2.1 (8)	Torque lbf•ft (N•m)	169.7 (230)	346.9 (470)	512.9 (695)	697.4 (945)	863.5 (1170)	1044.3 (1415)	1151.3 (1560)
		Speed (rpm)	7	7	6	6	5	4	3
	4 (15)	Torque lbf•ft (N•m)	177.1 (240)	357.9 (485)	527.7 (715)	712.2 (965)	885.6 (1200)	1066.4 (1445)	1166 (1580)
		Speed (rpm)	15	15	15	14	14	13	13
	7.9 (30)	Torque lbf•ft (N•m)	177.1 (240)	365.3 (495)	531.4 (720)	734.3 (995)	911.4 (1235)	1092.2 (1480)	1210.3 (1640)
		Speed (rpm)	30	30	30	29	28	27	25
	11.9 (45)	Torque lbf•ft (N•m)	177.1 (240)	365.3 (495)	531.4 (720)	738 (1000)	922.5 (1250)	1099.6 (1490)	1254.6 (1700)
		Speed (rpm)	45	45	44	44	43	42	40
	15.9 (60)	Torque lbf•ft (N•m)	173.4 (235)	361.6 (490)	527.7 (715)	730.6 (990)	918.8 (1245)	1107 (1500)	
		Speed (rpm)	60	60	60	59	57	55	
	19.8 (75)	Torque lbf•ft (N•m)	166.1 (225)	350.6 (475)	524 (710)	723.2 (980)	907.7 (1230)	1095.9 (1485)	
		Speed (rpm)	76	76	76	75	73	70	
	23.8 (90)	Torque lbf•ft (N•m)	158.7 (215)	339.5 (460)	520.3 (705)	708.5 (960)	896.7 (1215)	1081.2 (1465)	
		Speed (rpm)	91	91	91	90	88	85	
Max. Cont.	27.8 (105)	Torque lbf•ft (N•m)	147.6 (200)	328.4 (445)	509.2 (690)	693.7 (940)	881.9 (1195)	1062.7 (1440)	
		Speed (rpm)	106	106	105	105	103	100	
	31.7 (120)	Torque lbf•ft (N•m)	136.5 (185)	310 (420)	490.8 (665)	679 (920)	852.4 (1155)		
		Speed (rpm)	122	122	121	119	116		
	35.7 (135)	Torque lbf•ft (N•m)	110.7 (150)	287.8 (390)	468.6 (635)	656.8 (890)	826.6 (1120)		
		Speed (rpm)	137	137	136	136	134		
	39.7 (150)	Torque lbf•ft (N•m)	81.2 (110)	265.7 (360)	446.5 (605)	634.7 (860)	797 (1080)		
		Speed (rpm)	152	151	150	148	145		
	50.3 (190)	Torque lbf•ft (N•m)		236.2 (320)	424.4 (575)	605.2 (820)	771.2 (1045)		
		Speed (rpm)		192	190	188	185		
Max. Int.	59.5 (225)	Torque lbf•ft (N•m)			380.1 (515)	590.4 (800)	752.8 (1020)		
		Speed (rpm)			230	228	224		

EBMK6

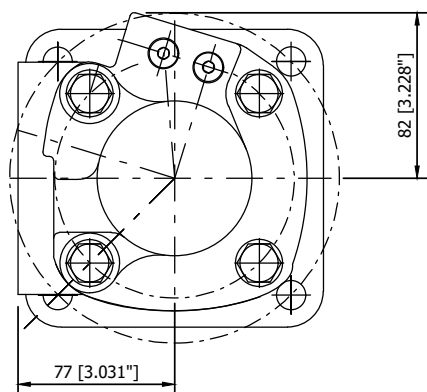
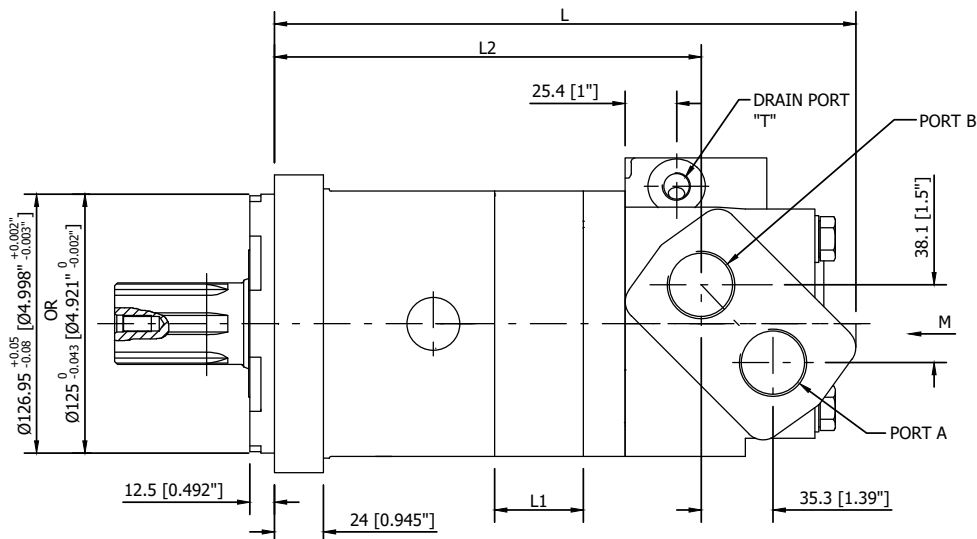
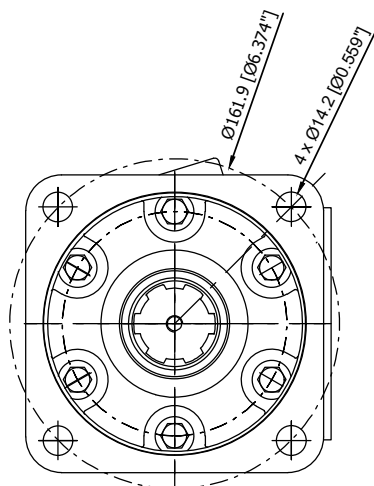


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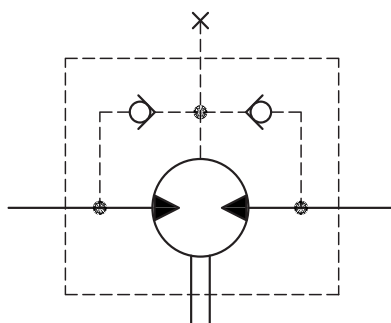
CC & CC1 FLANGE

EBMK6



VIEW "M"

MODEL	L	L1	L2
EBMK6-200	265 (10.433")	21.7 (0.854")	187.5 (7.382")
EBMK6-250	271 (10.669")	27.3 (1.075")	193.1 (7.602")
EBMK6-315	278 (10.945")	34.5 (1.358")	200.3 (7.886")
EBMK6-400	287 (11.299")	43.4 (1.709")	209.2 (8.236")
EBMK6-500	298 (11.732")	54.4 (2.142")	220.2 (8.669")
EBMK6-630	313 (12.323")	69.1 (2.72")	234.9 (9.248")
EBMK6-800	333 (13.11")	89 (3.504")	254.8 (10.031")
EBMK6-1000	353 (13.898")	108.9 (4.287")	274.7 (10.815")



EBMK6 - DIRECTION OF SHAFT ROTATION : STANDARD

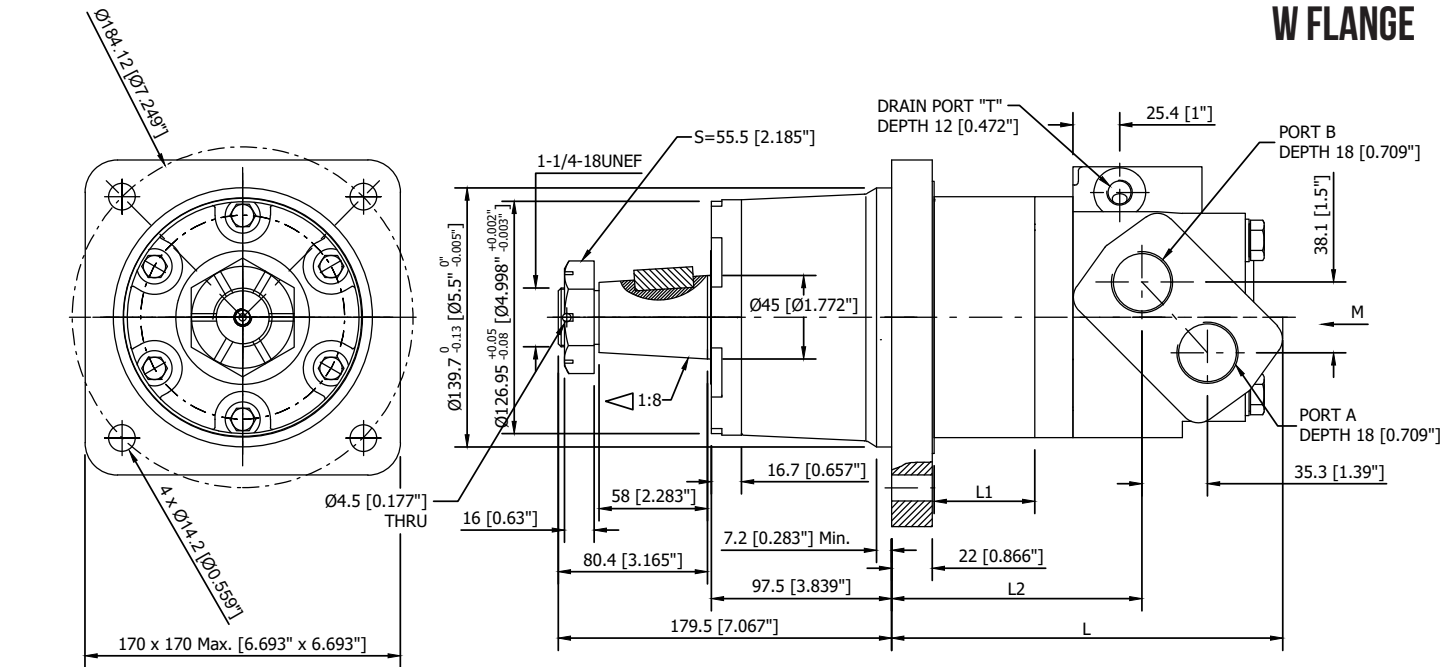
When facing shaft end of motor, shaft is rotating:

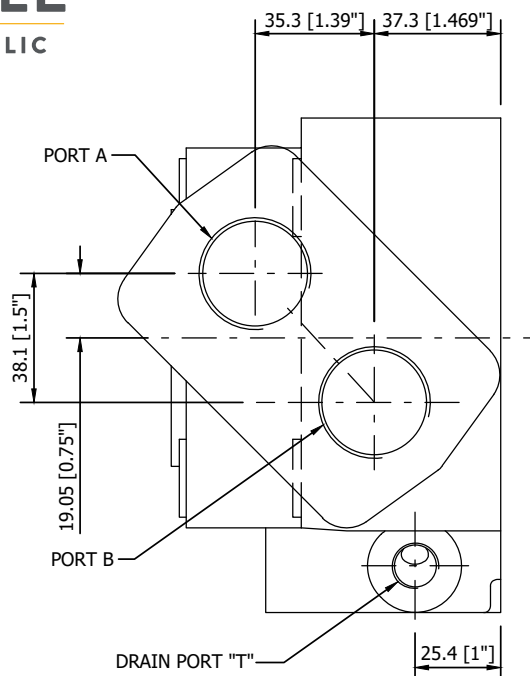
Clockwise when port "A" is pressurized.

Counter-Clockwise when port "B" is pressurized.

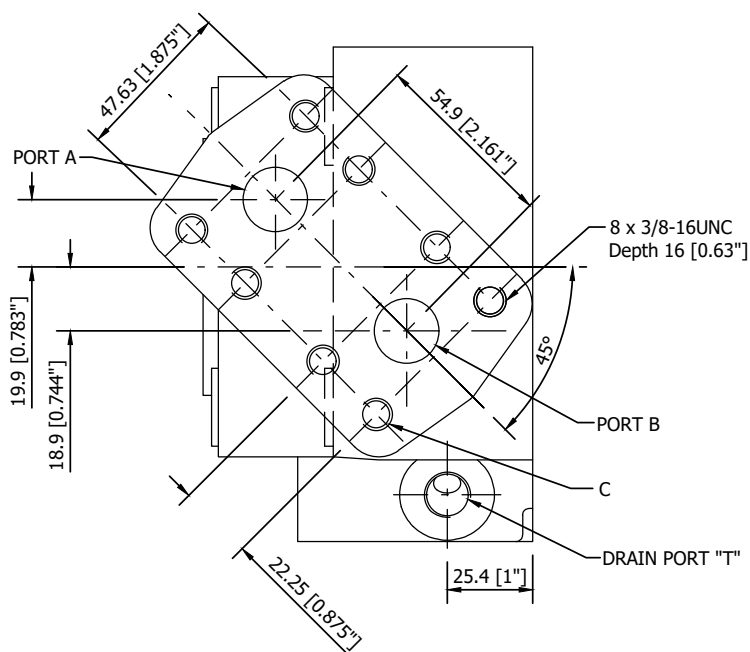
EBMK6 DIMENSIONS AND MOUNTING

W FLANGE

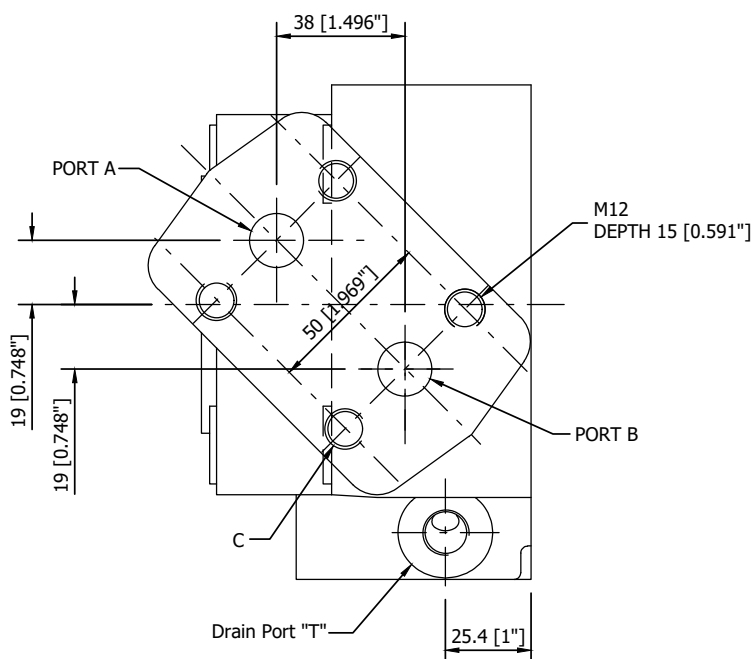




PORT: SF5, SF6, SF7, SF8



PORT: SF



PORT: SF0

MOUNTING	CODE (Depth mm)					
	SF5	SF6	SF7	SF8	SF	SF0
P (A, B)	1-5/16-12UN (18)	M33 x 2 (18)	G1 (18)	G3/4 (18)	Ø19.05	Ø16
T	7/16-20UNF (12)	M14 x 1.5 (12)	G1/4 (12)	G1/4 (12)	7/16-20UNF (12)	M14 x 1.5 (12)
C	---	---	---	---	8 x 3/8-16UNC	4 x M12

EBMK6 SHAFT EXTENSIONS DIMENSIONS

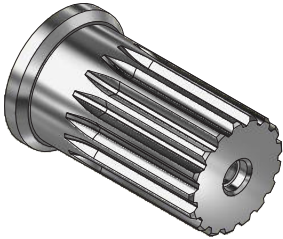
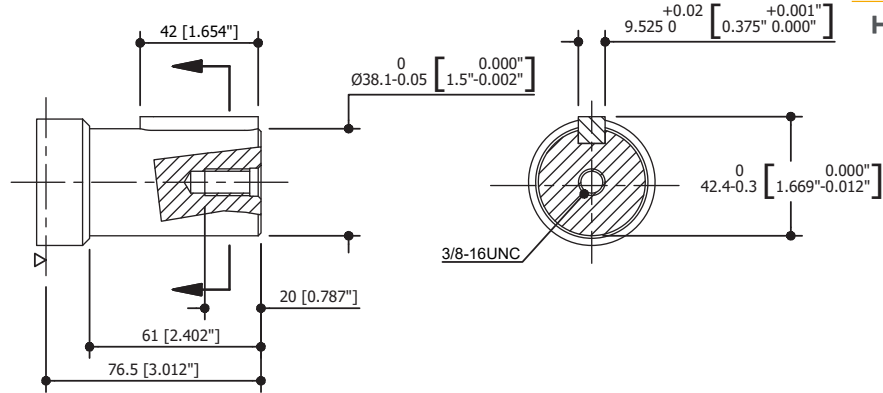


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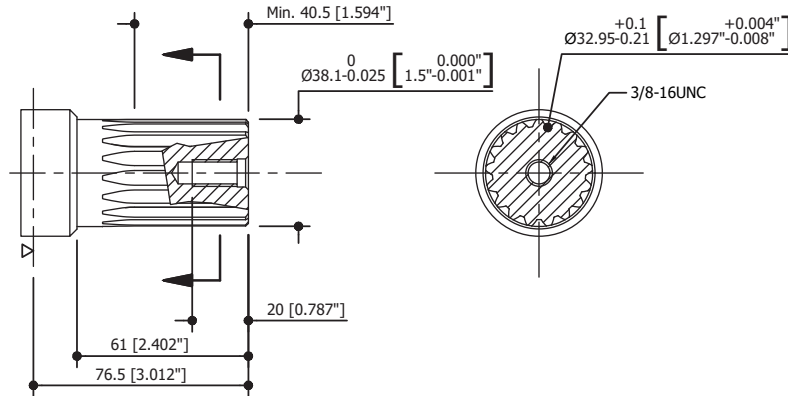
SHAFT G2

Cylindrical Shaft $\varnothing 1\frac{1}{2}$ "
Parallel Key $\frac{3}{8}$ " x $\frac{3}{8}$ " x 42mm
Max. Torque: 1350Nm
IMPERIAL



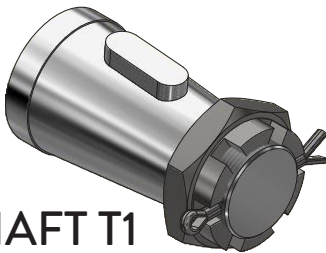
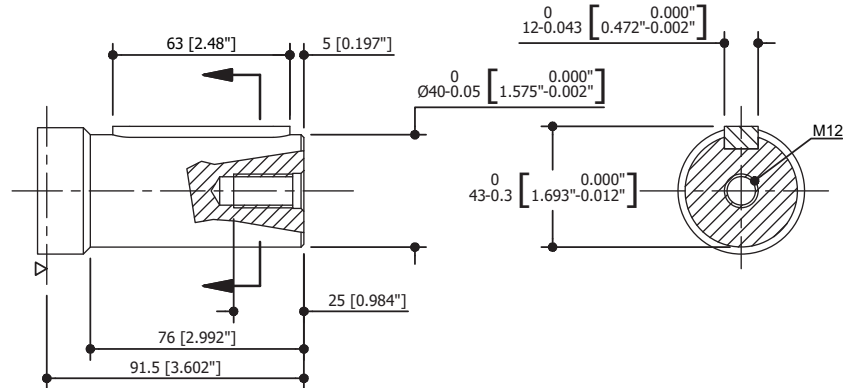
SHAFT FE

Splined 17-DP12/24
Max. Torque: 1350Nm
IMPERIAL



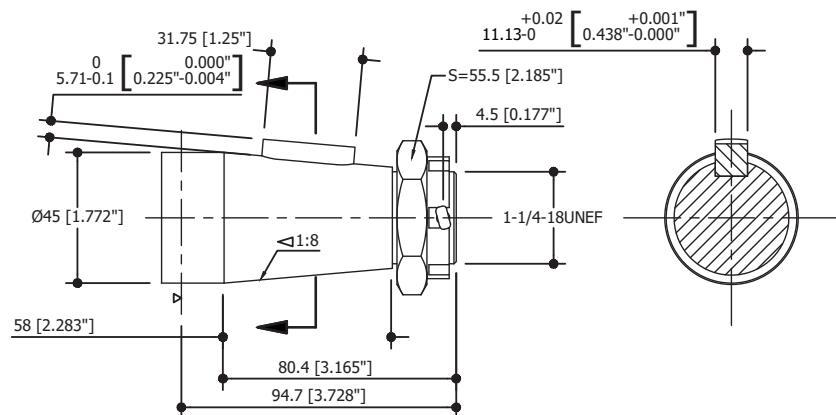
SHAFT Y1

Cylindrical Shaft $\varnothing 40$
Parallel Key 12 x 8 x 63
Max Torque: 1400Nm
METRIC



SHAFT T1

Cone Shaft $\varnothing 45$
Parallel Key $\frac{7}{16}$ " x $\frac{7}{16}$ " x 1- $\frac{1}{4}$ "
Tightening Torque: 500 $\pm$ 10Nm
Max. Torque: 2100Nm
METRIC



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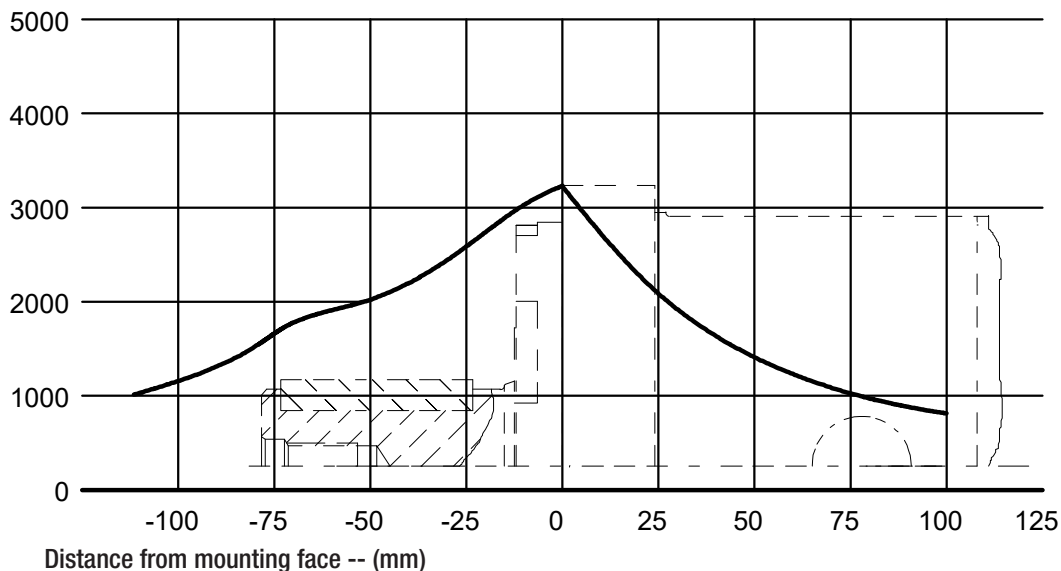
EBMK6 FOR CC AND W MOUNTING

RADIAL FORCES

EBMK6

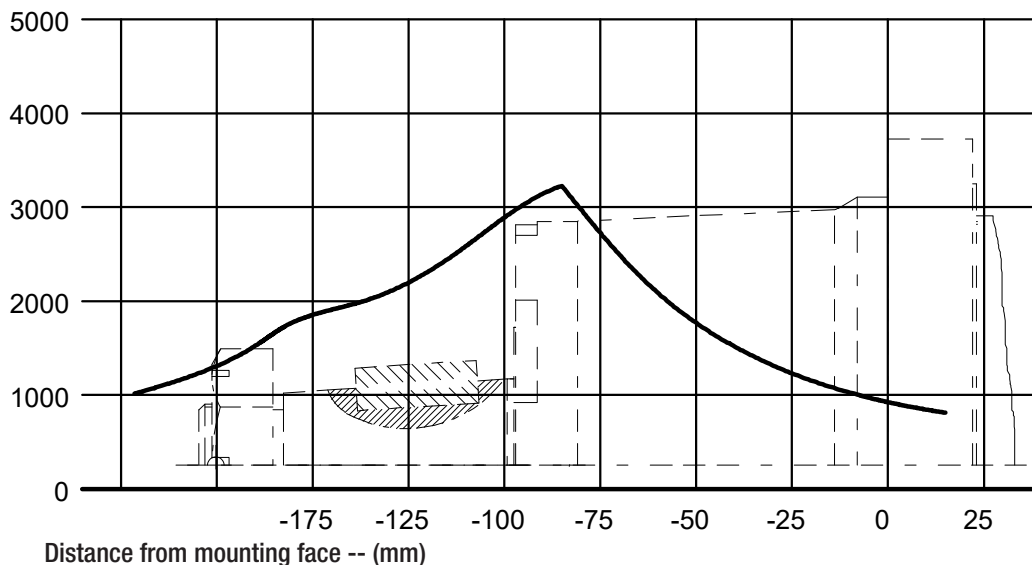
CC & CC1 FLANGE

Radial Forces-(daN)



W FLANGE

Radial Load-(daN)



The bearing curve represents allowable bearing loads for an B_{10} bearing life (2000 hours or 12×10^6 revolutions at 100 rpm) at rated output torque. Other speed load multiply a load values. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

EBME2 series motor adapts the advanced Geroler gear set designed with high speed distribution flow and high pressure, have good stability in low speed, and can keep high volume efficiency. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in needle roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in high speed distribution flow.
- Lowest leakage rate, most accurate timing methods. Commutator rotates 6x faster than shaft speed. It makes the distribution in a high precision reduce life-cycle cost, maintain high volume efficiencies and can run very smoothly at low speed, gear box not required.

MAIN SPECIFICATIONS

		EBME2 65	EBME2 80	EBME2 100	EBME2 125	EBME2 160	EBME2 200	EBME2 230	EBME2 250	EBME2 295	EBME2 315	EBME2 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	4.08 (66.8)	4.96 (81.3)	6.2 (101.6)	7.75 (127)	9.59 (157.2)	11.81 (193.6)	13.79 (226)	15.68 (257)	17.56 (287.8)	19.19 (314.5)	22.58 (370)
Max. Speed	Continuous (rpm)	667	543	439	350	283	229	247	216	196	178	152
	Intermittent (rpm)	842	689	553	441	355	289	328	287	254	235	199
Max. Torque	Continuous lbf•ft (N•m)	93 (126)	115.9 (157)	141 (191)	180.8 (245)	226.6 (307)	281.9 (382)	279 (378)	281.2 (381)	290 (393)	330.6 (448)	324 (439)
	Intermittent lbf•ft (N•m)	129.9 (176)	158.7 (215)	197.8 (268)	247.2 (335)	311.4 (422)	383.8 (520)	389.7 (528)	400.7 (543)	403.7 (547)	433.2 (587)	452.4 (613)
Max. Output	Continuous HP (kW)	11.1 (8.3)	11.8 (8.8)	10.6 (7.9)	11.9 (8.9)	11.9 (8.9)	12.1 (9)	13.3 (9.9)	12.5 (9.3)	11.8 (8.7)	10.7 (8)	10.2 (7.6)
	Intermittent HP (kW)	18.6 (13.9)	19.3 (14.4)	18.1 (13.5)	18.9 (14.1)	20.9 (15.6)	21.1 (15.7)	24 (17.9)	22.1 (16.5)	20.9 (15.6)	19.2 (14.3)	18.8 (14)
Max. Pressure Drop	Continuous PSI (bar)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	1740 (120)	1595 (110)	1450 (100)	1450 (100)	1305 (90)
	Intermittent PSI (bar)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2393 (165)	2248 (155)	2103 (145)	1958 (135)	1813 (125)
	Peak PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2611 (180)	2611 (180)	2466 (170)	2321 (160)	2321 (160)
Max. Flow	Continuous GPM (L/min)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)
	Intermittent GPM (L/min)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



EBME2 ORDER INFORMATION

1 2 3 4 5 6 7 8

EBME2 - - - - - - -

EBME2

1	2	3		4		5		6		7	
CODE	Displacement	Flange, Pilot, Ports		Output Shaft		Rotation Direction		Paint		Unusually Function	
	65	WS	4-Ø13.5 Wheel-Flange, Pilot Ø60.3x7, Port 7/8-14 O-Ring	T	Cone-Shaft Ø1", Woodruff Key Ø1" x 1/4"	Omit	Standard	00	No Paint	Omit	Standard
	80	WD	4-Ø13.5 Wheel-Flange, Pilot Ø60.3x7, Port G1/2	A	Cylindrical Shaft Ø25, Parallel Key 8 x 7 x 32	R	Opposite	Omit	Black		
	100	WM	4-Ø13.5 Wheel-Flange, Pilot Ø60.3x7, Port M22x1.5	K	Cylindrical Shaft Ø1", Woodruff Key Ø1" x 1/4"						
	125	HM	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5x2.54, Port 1/2" Manifold Mount 4 x 5/8-18	S	Shaft Ø1", Splined Key SAE 6B						
	160	HS	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5x2.54, Port 7/8-14 O-Ring	H	Cylindrical Shaft Ø1", Pin Hole Ø9.7						
	200	HP	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5x2.54, Port 1/2-14 NPTF Pipe								
	230	HD	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5x2.54, Port G1/2								
	250	HG	2-Ø13.5 Rhomb-Flange, Pilot Ø82.5x2.54, Port M22 x 1.5								
	295	H4S	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.54, Port 7/8-14 O-Ring								
	315	H4P	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.54, Port 1/2-14 NPTF Pipe								
	375	H4D	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.54, Port G1/2								
		H4G	4-3/8-16 Square-Flange, Pilot Ø44.4 x 2.54, Port M22 x 1.5								

Note: From the order information table, please choose the right code for construction, displacement, flange, pilot, ports, output shaft, etc... If the specification is not in the table or you have specific requirements, please contact us.



EBME2 65 - 4.08 in³/rev (66.8 cm³/rev)

		Max. Cont.			Max. Int.	
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	19.2 (26)	39.9 (54)	61.3 (83)	
		Speed (rpm)	22	16	4	
	1.3 (5)	Torque lbf•ft (N•m)	19.9 (27)	41.3 (56)	64.2 (87)	87.1 (118)
		Speed (rpm)	69	62	53	42
	2.6 (10)	Torque lbf•ft (N•m)	21.4 (29)	44.3 (60)	67.2 (91)	90.8 (123)
		Speed (rpm)	145	141	132	122
	4 (15)	Torque lbf•ft (N•m)	22.1 (30)	45.8 (62)	69.4 (94)	93 (126)
		Speed (rpm)	221	216	207	196
	5.3 (20)	Torque lbf•ft (N•m)	20.7 (28)	42.8 (58)	67.2 (91)	90 (122)
		Speed (rpm)	295	290	279	261
Max. Cont.	6.6 (25)	Torque lbf•ft (N•m)	17.7 (24)	40.6 (55)	66.4 (90)	89.3 (121)
		Speed (rpm)	368	365	352	341
	9 (34)	Torque lbf•ft (N•m)	16.2 (22)	39.9 (54)	65.7 (89)	87.8 (119)
		Speed (rpm)	501	493	478	457
	11.9 (45)	Torque lbf•ft (N•m)	14.8 (20)	38.4 (52)	62.7 (85)	84.9 (115)
		Speed (rpm)	667	660	642	621
	15.1 (57)	Torque lbf•ft (N•m)	11.1 (15)	33.9 (46)	59 (80)	82.7 (112)
		Speed (rpm)	842	835	814	789
Max. Int.						

EBME2 80 - 4.96 in³/rev (81.3 cm³/rev)

		Max. Cont.			Max. Int.	
Pressure PSI (bar)		508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	24.4 (33)	51.7 (70)	78.2 (106)	
		Speed (rpm)	18	14	4	
	1.3 (5)	Torque lbf•ft (N•m)	25.8 (35)	53.1 (72)	81.9 (111)	110.7 (150)
		Speed (rpm)	55	51	44	25
	2.6 (10)	Torque lbf•ft (N•m)	26.6 (36)	55.4 (75)	84.1 (114)	114.4 (155)
		Speed (rpm)	121	118	113	107
	4 (15)	Torque lbf•ft (N•m)	27.3 (37)	56.8 (77)	85.6 (116)	115.9 (157)
		Speed (rpm)	181	178	171	162
	5.3 (20)	Torque lbf•ft (N•m)	25.8 (35)	54.6 (74)	82.7 (112)	111.4 (151)
		Speed (rpm)	242	238	231	223
Max. Cont.	6.6 (25)	Torque lbf•ft (N•m)	25.8 (35)	52.4 (71)	79.7 (108)	109.2 (148)
		Speed (rpm)	303	298	289	275
	9 (34)	Torque lbf•ft (N•m)	22.9 (31)	50.9 (69)	77.5 (105)	107 (145)
		Speed (rpm)	411	407	396	382
	11.9 (45)	Torque lbf•ft (N•m)	17 (23)	45.8 (62)	73.8 (100)	102.6 (139)
		Speed (rpm)	543	537	521	513
	15.1 (57)	Torque lbf•ft (N•m)	13.3 (18)	40.6 (55)	72.3 (98)	98.9 (134)
		Speed (rpm)	689	681	665	649
Max. Int.						

EBME2 100 - 6.2 in³/rev (101.6 cm³/rev)

			Max. Cont.			Max. Int.	
Pressure PSI (bar)			508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	29.5 (40)	60.5 (82)	93 (126)		
		Speed (rpm)	15	11	4		
	1.3 (5)	Torque lbf•ft (N•m)	30.3 (41)	61.3 (83)	110.7 (150)	152 (206)	
		Speed (rpm)	44	36	28	12	
	2.6 (10)	Torque lbf•ft (N•m)	31 (42)	67.2 (91)	101.8 (138)	130.6 (177)	169.7 (230)
		Speed (rpm)	97	95	94	81	54
	4 (15)	Torque lbf•ft (N•m)	31 (42)	67.2 (91)	101.8 (138)	136.5 (185)	189.7 (257)
		Speed (rpm)	147	144	137	124	93
	5.3 (20)	Torque lbf•ft (N•m)	28 (38)	64.9 (88)	100.4 (136)	132.8 (180)	180.1 (244)
		Speed (rpm)	195	192	182	169	138
	6.6 (25)	Torque lbf•ft (N•m)	28.8 (39)	65.7 (89)	104.8 (142)	141 (191)	197.8 (268)
		Speed (rpm)	244	241	230	221	194
	9 (34)	Torque lbf•ft (N•m)	22.9 (31)	58.3 (79)	96.7 (131)	132.1 (179)	184.5 (250)
		Speed (rpm)	331	328	323	308	273
	11.9 (45)	Torque lbf•ft (N•m)	15.5 (21)	51.7 (70)	87.8 (119)	124 (168)	177.9 (241)
		Speed (rpm)	439	436	433	419	383
Max. Cont.	15.1 (57)	Torque lbf•ft (N•m)	7.4 (10)	44.3 (60)	80.4 (109)	116.6 (158)	171.2 (232)
Max. Int.		Speed (rpm)	553	545	534	527	491

EBME2 125 - 7.75 in³/rev (127 cm³/rev)

			Max. Cont.			Max. Int.	
Pressure PSI (bar)			508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	38.4 (52)	110.7 (150)	116.6 (158)		
		Speed (rpm)	12	9	3		
	1.3 (5)	Torque lbf•ft (N•m)	40.6 (55)	82.7 (112)	125.5 (170)	163.1 (221)	214 (290)
		Speed (rpm)	35	31	22	15	10
	2.6 (10)	Torque lbf•ft (N•m)	42.1 (57)	86.3 (117)	132.8 (180)	178.6 (242)	247.2 (335)
		Speed (rpm)	78	75	69	63	46
	4 (15)	Torque lbf•ft (N•m)	41.3 (56)	87.1 (118)	132.8 (180)	180.8 (245)	244.3 (331)
		Speed (rpm)	116	113	109	99	76
	5.3 (20)	Torque lbf•ft (N•m)	40.6 (55)	86.3 (117)	131.4 (178)	178.6 (242)	244.3 (331)
		Speed (rpm)	155	153	147	136	110
	6.6 (25)	Torque lbf•ft (N•m)	38.4 (52)	81.9 (111)	130.6 (177)	175.6 (238)	239.9 (325)
		Speed (rpm)	593	188	182	172	151
	9 (34)	Torque lbf•ft (N•m)	31.7 (43)	77.5 (105)	124.7 (169)	170.5 (231)	240.6 (326)
		Speed (rpm)	264	262	254	244	220
	11.9 (45)	Torque lbf•ft (N•m)	28 (38)	70.1 (95)	117.3 (159)	161.6 (219)	231.7 (314)
		Speed (rpm)	350	348	346	331	301
Max. Cont.	15.1 (57)	Torque lbf•ft (N•m)	15.5 (21)	129.9 (176)	104.1 (141)	206.6 (280)	222.9 (302)
		Speed (rpm)	441	439	431	417	384
Max. Int.							

EBME2 160 - 9.59 in³/rev (157.2 cm³/rev)

		<i>Max. Cont.</i>			<i>Max. Int.</i>	
		508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	Pressure PSI (bar)					
	0.5 (2)	Torque lbf•ft (N•m)	47.2 (64)	97.4 (132)	146.9 (199)	
		Speed (rpm)	10	8	2	
	1.3 (5)	Torque lbf•ft (N•m)	50.2 (68)	101.8 (138)	153.5 (208)	207.4 (281)
		Speed (rpm)	28	26	19	10
	2.6 (10)	Torque lbf•ft (N•m)	52.4 (71)	108.5 (147)	163.1 (221)	223.6 (303)
		Speed (rpm)	62	60	56	53
	4 (15)	Torque lbf•ft (N•m)	53.1 (72)	109.2 (148)	166.1 (225)	226.6 (307)
		Speed (rpm)	93	91	87	79
	5.3 (20)	Torque lbf•ft (N•m)	52.4 (71)	109.2 (148)	164.6 (223)	225.1 (305)
		Speed (rpm)	126	123	118	110
<i>Max. Cont.</i>	6.6 (25)	Torque lbf•ft (N•m)	45.8 (62)	103.3 (140)	160.9 (218)	218.4 (296)
		Speed (rpm)	157	155	152	141
<i>Max. Int.</i>	9 (34)	Torque lbf•ft (N•m)	41.3 (56)	98.9 (134)	155.7 (211)	211.8 (287)
		Speed (rpm)	214	211	206	197
<i>Max. Cont.</i>	11.9 (45)	Torque lbf•ft (N•m)	34.7 (47)	93.7 (127)	151.3 (205)	207.4 (281)
		Speed (rpm)	283	281	275	266
<i>Max. Int.</i>	15.1 (57)	Torque lbf•ft (N•m)	26.6 (36)	71.6 (97)	134.3 (182)	191.9 (260)
		Speed (rpm)	355	352	346	336

EBME2 200 - 11.81 in³/rev (193.6 cm³/rev)

		<i>Max. Cont.</i>			<i>Max. Int.</i>	
		508 (35)	1015 (70)	1523 (105)	2031 (140)	2756 (190)
Flow GPM (L/min)	Pressure PSI (bar)					
	0.5 (2)	Torque lbf•ft (N•m)	59 (80)	120.3 (163)	180.8 (245)	
		Speed (rpm)	9	7	3	
	1.3 (5)	Torque lbf•ft (N•m)	64.9 (88)	131.4 (178)	196.3 (266)	259.8 (352)
		Speed (rpm)	23	21	18	12
	2.6 (10)	Torque lbf•ft (N•m)	65.7 (89)	133.6 (181)	203 (275)	279 (378)
		Speed (rpm)	49	48	43	39
	4 (15)	Torque lbf•ft (N•m)	67.2 (91)	138.7 (188)	206.6 (280)	281.9 (382)
		Speed (rpm)	76	73	68	63
	5.3 (20)	Torque lbf•ft (N•m)	65.7 (89)	134.3 (182)	203 (275)	276 (374)
		Speed (rpm)	101	98	95	86
<i>Max. Cont.</i>	6.6 (25)	Torque lbf•ft (N•m)	57.6 (78)	125.5 (170)	200 (271)	277.5 (376)
		Speed (rpm)	127	125	121	113
<i>Max. Int.</i>	9 (34)	Torque lbf•ft (N•m)	47.2 (64)	116.6 (158)	197.8 (268)	267.9 (363)
		Speed (rpm)	173	171	165	156
<i>Max. Cont.</i>	11.9 (45)	Torque lbf•ft (N•m)	37.6 (51)	115.9 (157)	186 (252)	259 (351)
		Speed (rpm)	229	227	221	212
<i>Max. Int.</i>	15.1 (57)	Torque lbf•ft (N•m)	26.6 (36)	101.8 (138)	170.5 (231)	243.5 (330)
		Speed (rpm)	289	286	279	271

EBME2 230 - 13.79 in³/rev (226 cm³/rev)

		<i>Max. Cont.</i>				<i>Max. Int.</i>
		508 (35)	1015 (70)	1523 (105)	1740 (120)	2393 (165)
Flow GPM (L/min)	Pressure PSI (bar)					
	0.5 (2)	Torque lbf•ft (N•m)	71.6 (97)	141 (191)	206.6 (280)	
		Speed (rpm)	7	4	2	
	1.3 (5)	Torque lbf•ft (N•m)	74.5 (101)	146.9 (199)	222.1 (301)	256.8 (348)
		Speed (rpm)	18	14	8	4
	2.6 (10)	Torque lbf•ft (N•m)	76 (103)	157.9 (214)	239.9 (325)	279 (378)
		Speed (rpm)	43	42	40	36
	4 (15)	Torque lbf•ft (N•m)	76.8 (104)	158.7 (215)	241.3 (327)	276.8 (375)
		Speed (rpm)	65	63	59	52
	5.3 (20)	Torque lbf•ft (N•m)	74.5 (101)	155 (210)	236.9 (321)	273.8 (371)
		Speed (rpm)	86	84	81	75
<i>Max. Cont.</i>	6.6 (25)	Torque lbf•ft (N•m)	70.1 (95)	148.3 (201)	233.2 (316)	268.6 (364)
		Speed (rpm)	108	106	102	94
	9 (34)	Torque lbf•ft (N•m)	60.5 (82)	138.7 (188)	227.3 (308)	264.2 (358)
		Speed (rpm)	147	145	141	135
	11.9 (45)	Torque lbf•ft (N•m)	40.6 (55)	116.6 (158)	203.7 (276)	242.8 (329)
		Speed (rpm)	197	195	191	186
	15.1 (57)	Torque lbf•ft (N•m)	14 (19)	95.9 (130)	188.9 (256)	222.1 (301)
		Speed (rpm)	247	244	240	230
	19.8 (75)	Torque lbf•ft (N•m)		48 (65)	135.1 (183)	184.5 (250)
		Speed (rpm)		328	323	311
<i>Max. Int.</i>						295.9 (401)
						303

EBME2 250 - 15.68 in³/rev (257 cm³/rev)

		<i>Max. Cont.</i>				<i>Max. Int.</i>
		508 (35)	1015 (70)	1523 (105)	1595 (110)	2248 (155)
Flow GPM (L/min)	Pressure PSI (bar)					
	0.5 (2)	Torque lbf•ft (N•m)	82.7 (112)	152.8 (207)	228 (309)	
		Speed (rpm)	6	3	1	
	1.3 (5)	Torque lbf•ft (N•m)	84.9 (115)	160.9 (218)	236.2 (320)	256.8 (348)
		Speed (rpm)	18	14	8	4
	2.6 (10)	Torque lbf•ft (N•m)	83.4 (113)	173.4 (235)	264.2 (358)	279.7 (379)
		Speed (rpm)	39	38	35	31
	4 (15)	Torque lbf•ft (N•m)	83.4 (113)	172.7 (234)	263.5 (357)	281.2 (381)
		Speed (rpm)	58	56	53	45
	5.3 (20)	Torque lbf•ft (N•m)	81.9 (111)	172 (233)	262.7 (356)	277.5 (376)
		Speed (rpm)	77	75	72	65
<i>Max. Cont.</i>	6.6 (25)	Torque lbf•ft (N•m)	80.4 (109)	168.3 (228)	261.3 (354)	273.8 (371)
		Speed (rpm)	97	95	89	81
	9 (34)	Torque lbf•ft (N•m)	67.2 (91)	157.2 (213)	255.3 (346)	268.6 (364)
		Speed (rpm)	131	128	123	116
	11.9 (45)	Torque lbf•ft (N•m)	65.7 (89)	155.7 (211)	254.6 (345)	266.4 (361)
		Speed (rpm)	174	172	165	157
	15.1 (57)	Torque lbf•ft (N•m)	53.9 (73)	153.5 (208)	250.2 (339)	252.4 (342)
		Speed (rpm)	216	213	205	197
	19.8 (75)	Torque lbf•ft (N•m)		54.6 (74)	146.1 (198)	222.1 (301)
		Speed (rpm)		287	284	278
<i>Max. Int.</i>						325.5 (441)
						267

EBME2 295 - 17.56 in³/rev (287.8 cm³/rev)

Max. Int.

Pressure PSI (bar)		508 (35)	1015 (70)	1595 (110)	2103 (145)
1.3 (5)	Torque lbf•ft (N•m)	89.3 (121)	179.3 (243)	271.6 (368)	375.6 (509)
	Speed (rpm)	15	14	10	5
2.6 (10)	Torque lbf•ft (N•m)	92.3 (125)	186.7 (253)	281.2 (381)	390.4 (529)
	Speed (rpm)	33	31	27	20
4 (15)	Torque lbf•ft (N•m)	95.2 (129)	192.6 (261)	290 (393)	403.7 (547)
	Speed (rpm)	51	50	47	41
5.3 (20)	Torque lbf•ft (N•m)	93.7 (127)	191.1 (259)	287.8 (390)	402.2 (545)
	Speed (rpm)	68	67	63	55
6.6 (25)	Torque lbf•ft (N•m)	93 (126)	188.2 (255)	284.9 (386)	397.8 (539)
	Speed (rpm)	86	84	80	69
9 (34)	Torque lbf•ft (N•m)	90.8 (123)	183 (248)	280.4 (380)	391.9 (531)
	Speed (rpm)	116	114	110	98
11.9 (45)	Torque lbf•ft (N•m)	84.9 (115)	172.7 (234)	271.6 (368)	385.2 (522)
	Speed (rpm)	154	153	148	136
15.1 (57)	Torque lbf•ft (N•m)	79.7 (108)	167.5 (227)	264.9 (359)	379.3 (514)
	Speed (rpm)	196	194	187	176
19.8 (75)	Torque lbf•ft (N•m)		155.7 (211)	257.6 (349)	373.4 (506)
	Speed (rpm)		254	246	231

Max. Cont.

Max. Int.

EBME2 315 - 19.19 in³/rev (314.5 cm³/rev)

Max. Int.

Pressure PSI (bar)		508 (35)	1015 (70)	1595 (110)	1958 (135)
1.3 (5)	Torque lbf•ft (N•m)	100.4 (136)	207.4 (281)	315.1 (427)	
	Speed (rpm)	11	8	3	
2.6 (10)	Torque lbf•ft (N•m)	102.6 (139)	211.8 (287)	323.2 (438)	423.6 (574)
	Speed (rpm)	30	29	26	20
4 (15)	Torque lbf•ft (N•m)	104.1 (141)	217.7 (295)	330.6 (448)	433.2 (587)
	Speed (rpm)	47	46	43	40
5.3 (20)	Torque lbf•ft (N•m)	101.8 (138)	211.8 (287)	326.2 (442)	433.2 (587)
	Speed (rpm)	62	61	58	53
6.6 (25)	Torque lbf•ft (N•m)	96.7 (131)	206.6 (280)	318.1 (431)	418.4 (567)
	Speed (rpm)	78	75	71	66
9 (34)	Torque lbf•ft (N•m)	86.3 (117)	198.5 (269)	312.2 (423)	411.1 (557)
	Speed (rpm)	106	104	98	91
11.9 (45)	Torque lbf•ft (N•m)	84.1 (114)	186.7 (253)	293 (397)	394.8 (535)
	Speed (rpm)	141	138	132	125
15.1 (57)	Torque lbf•ft (N•m)	63.5 (86)	161.6 (219)	282.7 (383)	372.7 (505)
	Speed (rpm)	178	173	168	162
19.8 (75)	Torque lbf•ft (N•m)		79.7 (108)	211.8 (287)	307 (416)
	Speed (rpm)		235	231	219

Max. Cont.

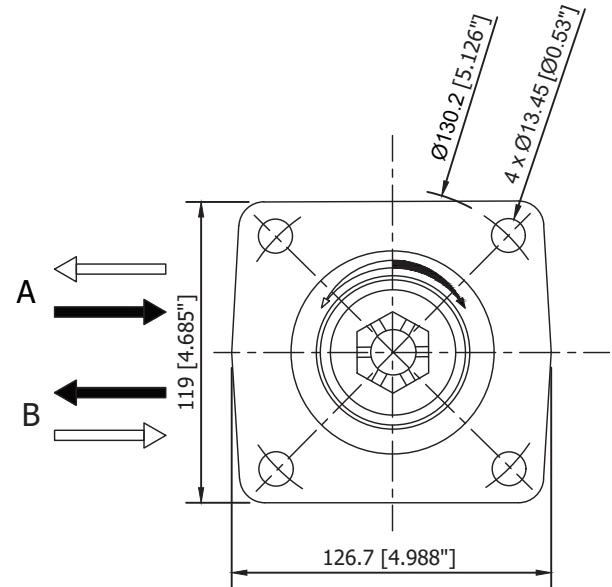
Max. Int.

EBME2 375 - 22.58 in³/rev (370 cm³/rev)

Max. Int.

Pressure PSI (bar)		508 (35)	1015 (70)	1305 (90)	1813 (125)
1.3 (5)	Torque lbf•ft (N•m)	111.4 (151)	232.5 (315)	304.1 (412)	
	Speed (rpm)	10	7	3	
2.6 (10)	Torque lbf•ft (N•m)	114.4 (155)	239.1 (324)	315.1 (427)	447.2 (606)
	Speed (rpm)	25	24	21	18
4 (15)	Torque lbf•ft (N•m)	119.6 (162)	244.3 (331)	324 (439)	452.4 (613)
	Speed (rpm)	40	39	37	32
5.3 (20)	Torque lbf•ft (N•m)	116.6 (158)	240.6 (326)	320.3 (434)	444.3 (602)
	Speed (rpm)	53	52	49	45
6.6 (25)	Torque lbf•ft (N•m)	111.4 (151)	233.2 (316)	312.9 (424)	434.7 (589)
	Speed (rpm)	67	65	62	58
9 (34)	Torque lbf•ft (N•m)	104.1 (141)	228 (309)	307.7 (417)	428 (580)
	Speed (rpm)	91	89	85	80
11.9 (45)	Torque lbf•ft (N•m)	101.8 (138)	221.4 (300)	301.1 (408)	422.1 (572)
	Speed (rpm)	121	119	115	107
Max. Cont. 15.1 (57)	Torque lbf•ft (N•m)	87.1 (118)	207.4 (281)	290 (393)	405.9 (550)
	Speed (rpm)	152	150	144	136
Max. Int. 19.8 (75)	Torque lbf•ft (N•m)		190.4 (258)	272.3 (369)	382.3 (518)
	Speed (rpm)		199	191	183

WM: M22 X 1.5



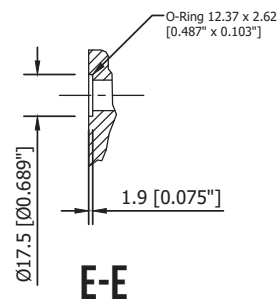
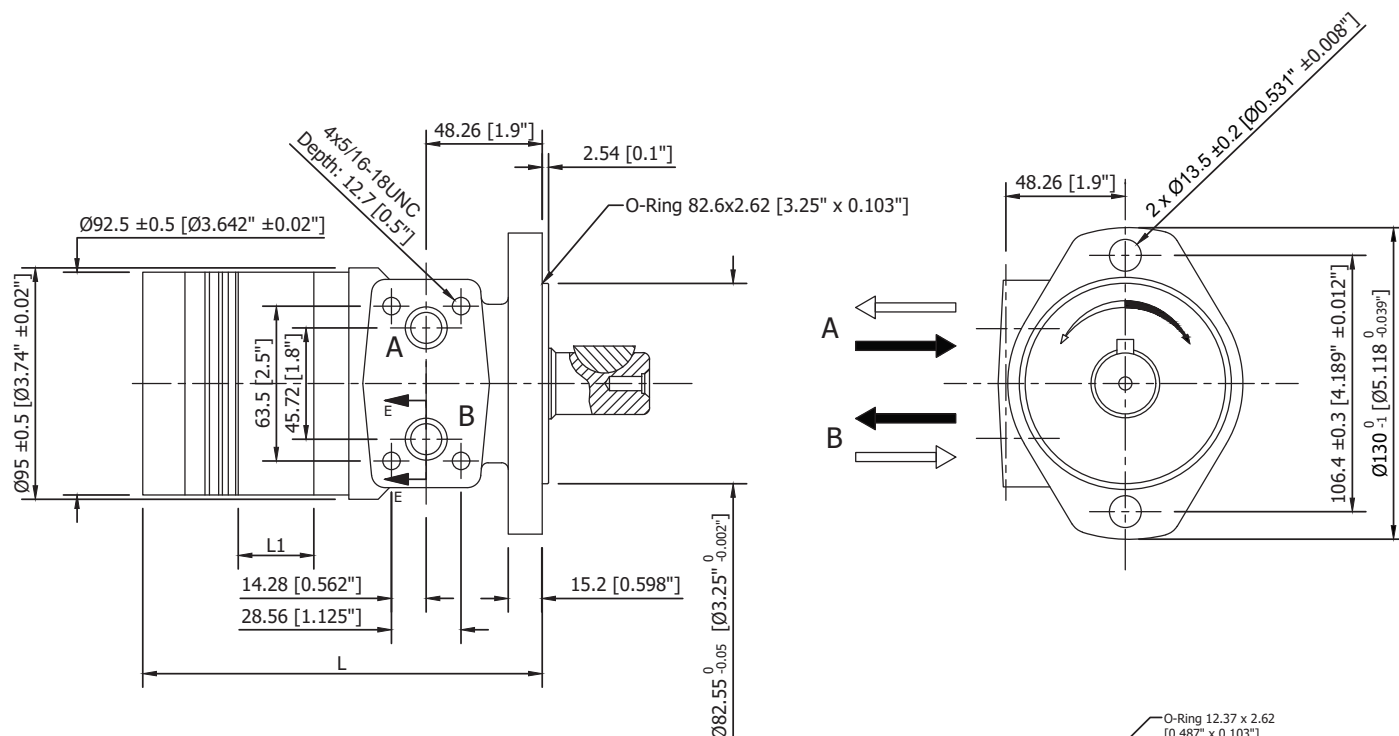
DISPLACEMENT (cm3/rev)	L1	L	Weight
65	13 (0.512")	119 (4.685")	16.3 (7.4)
80	16 (0.63")	122 (4.803")	16.5 (7.5)
100	20 (0.787")	126 (4.961")	17.2 (7.8)
125	25 (0.984")	131 (5.157")	17.6 (8)
160	30.5 (1.201")	136.5 (5.374")	18.3 (8.3)
200	38.1 (1.5")	144 (5.669")	19.1 (8.7)
230	44 (1.732")	150 (5.906")	20.2 (9.2)
250	50 (1.969")	156 (6.142")	21.1 (9.6)
295	56 (2.205")	162 (6.378")	22 (10)
315	62 (2.441")	168 (6.614")	22.7 (10.3)
375	74 (2.913")	180 (7.087")	23.8 (10.8)

WHEEL MOUNT

CODE: HM MANIFOLD

PORT A, B: Ø12.7 [0.5"]

EBME2



DISPLACEMENT (cm3/rev)	L1	L	Weight
65	13 (0.512")	149 (5.866")	14.1 (6.4)
80	16 (0.63")	152 (5.984")	14.3 (6.5)
100	20 (0.787")	156 (6.142")	15 (6.8)
125	25 (0.984")	161 (6.339")	15.4 (7)
160	30.5 (1.201")	166.5 (6.555")	16.1 (7.3)
200	38.1 (1.5")	174 (6.85")	16.9 (7.7)
230	44 (1.732")	180 (7.087")	18 (8.2)
250	50 (1.969")	186 (7.323")	18.9 (8.6)
295	56 (2.205")	192 (7.559")	19.8 (9)
315	62 (2.441")	198 (7.795")	20.5 (9.3)
375	74 (2.913")	210 (8.268")	21.6 (9.8)



HG: M22X1.5



WWW.EAGLE-HYDRAULIC.COM

EBME2

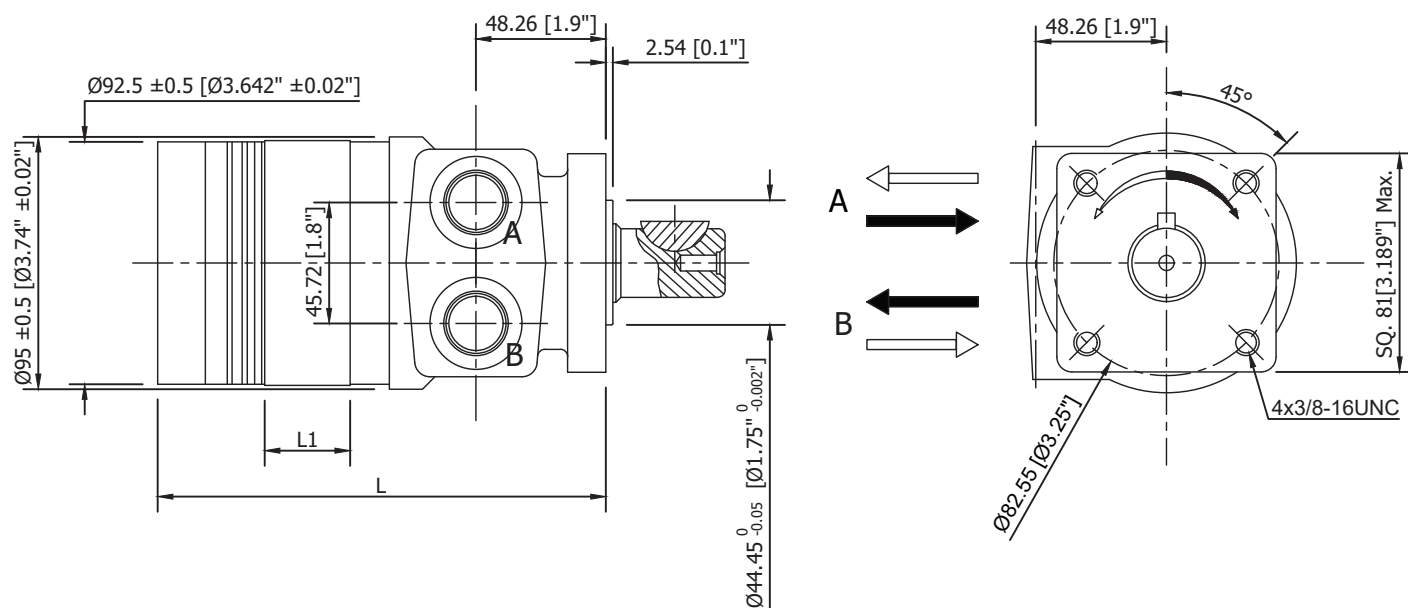
CODE: PORT A, B

H4S: 7/8-14UNF

H4P: 1/2-14NPTF

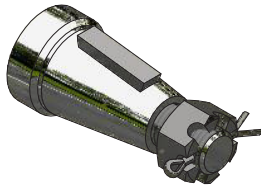
H4D: G1/2

H4G: M22X1.5



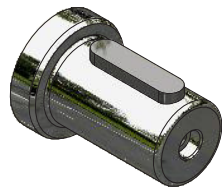
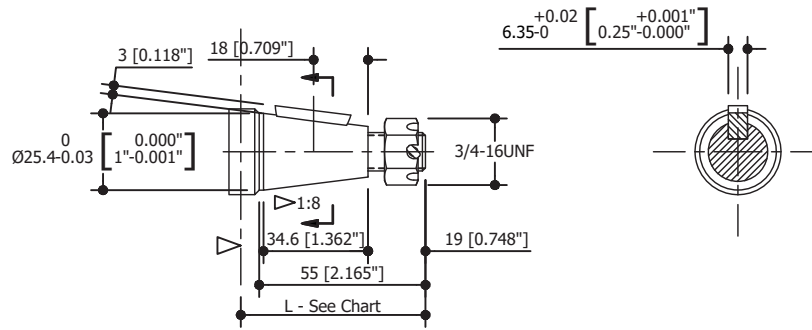
DISPLACEMENT (cm3/rev)	L1	L	Weight
65	13 (0.512")	149 (5.866")	14.1 (6.4)
80	16 (0.63")	152 (5.984")	14.3 (6.5)
100	20 (0.787")	156 (6.142")	15 (6.8)
125	25 (0.984")	161 (6.339")	15.4 (7)
160	30.5 (1.201")	166.5 (6.555")	16.1 (7.3)
200	38.1 (1.5")	174 (6.85")	16.9 (7.7)
230	44 (1.732")	180 (7.087")	18 (8.2)
250	50 (1.969")	186 (7.323")	18.9 (8.6)
295	56 (2.205")	192 (7.559")	19.8 (9)
315	62 (2.441")	198 (7.795")	20.5 (9.3)
375	74 (2.913")	210 (8.268")	21.6 (9.8)





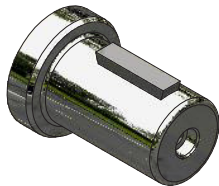
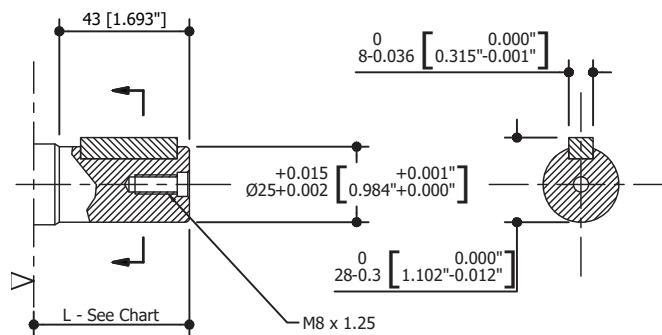
SHAFT T

Cone Shaft Ø1"
Woodruff Key Ø1" x 1/4"
IMPERIAL



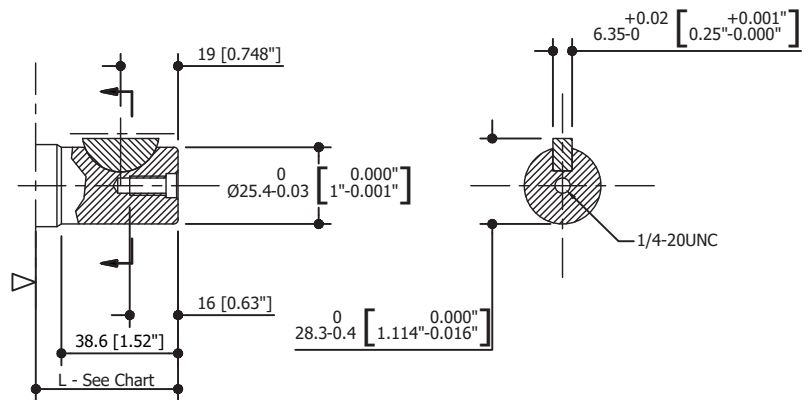
SHAFT A

Cylindrical Shaft Ø25
Parallel Key 8 x 7 x 32
METRIC



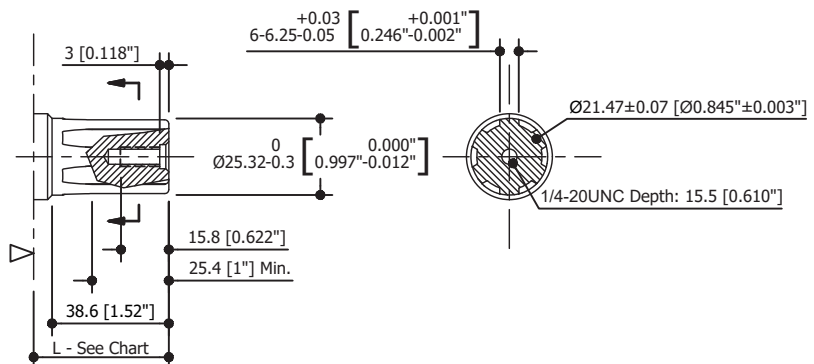
SHAFT K

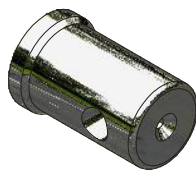
Cylindrical Shaft Ø1"
Woodruff Key Ø1" x 1/4"
IMPERIAL



SHAFT S

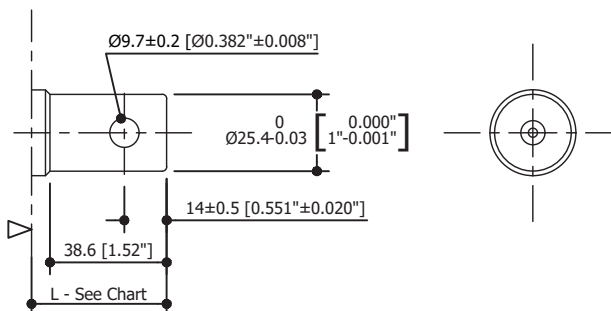
Splined SAE 6B
IMPERIAL





SHAFT H

Cylindrical Shaft Ø1"
With Hole Ø9.7mm [0.382"]
IMPERIAL

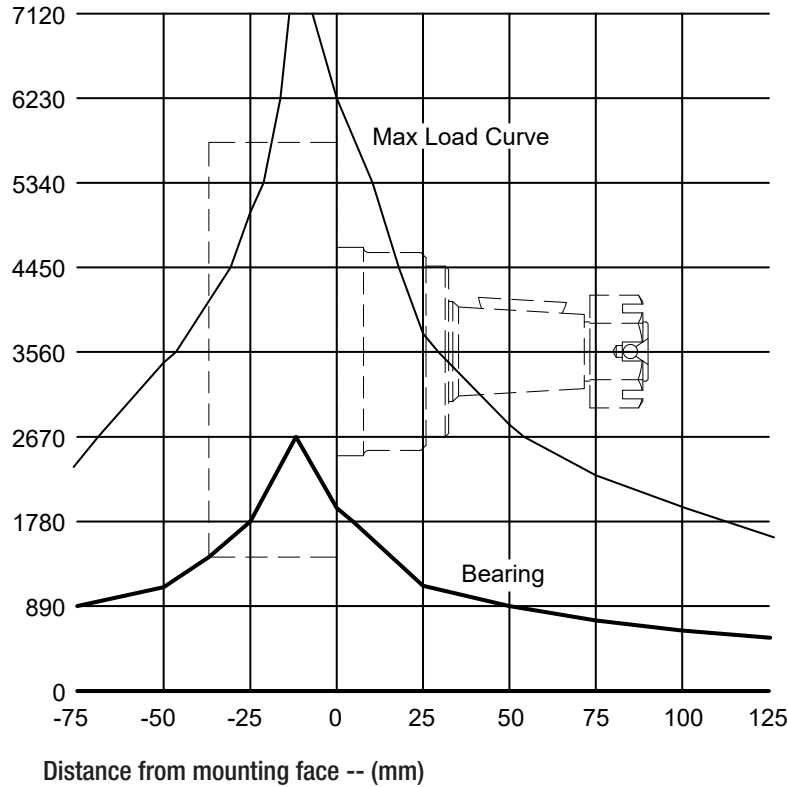


DIMENSION L

MOUNTING	SHAFT				
	T	A	K	S	H
WS	90.2 (3.551")	78.2 (3.079")	73.9 (2.909")	73.9 (2.909")	73.9 (2.909")
HS / HP	61 (2.402")	49 (1.929")	44.7 (1.76")	44.7 (1.76")	44.7 (1.76")
H4S / H4P					
HM					

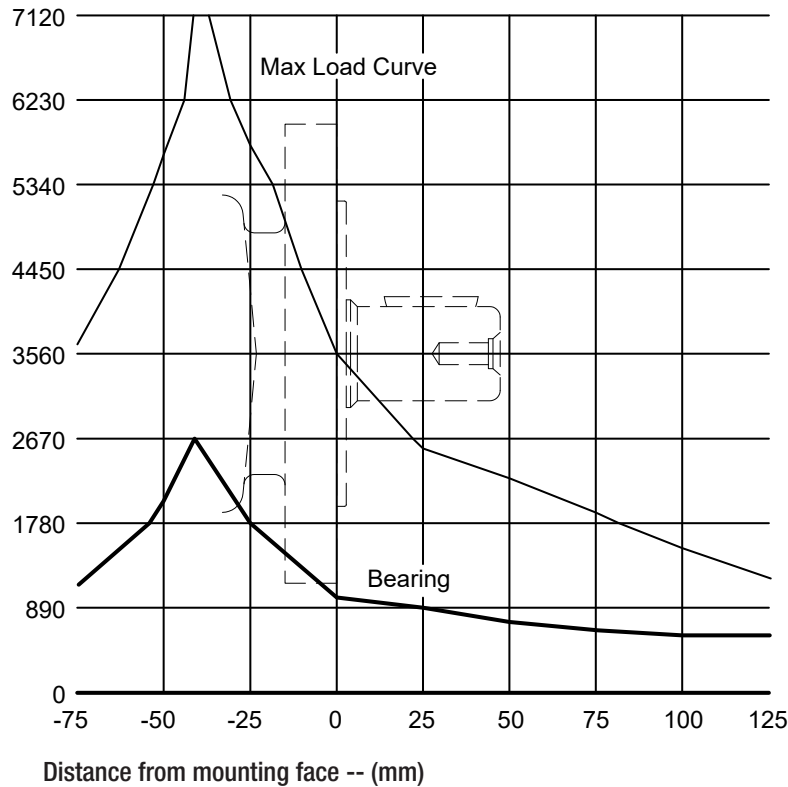
WHEEL MOUNTING

Side Load-(daN)



OTHER MOUNTING

Side Load-(daN)



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 3×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

EBMJ series motor adapts the advanced Geroler gear set designed with high speed distribution flow and high pressure, and have good stability in low speed, and can keep high volume efficiency. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth and reliable operation and high efficiency.
- The output shaft adapts in needle roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in high speed distribution flow.
- Lowest leakage rate, most accurate timing methods. Commutator rotates 6x faster than shaft speed. It makes the distribution in a high precision reduce life-cycle cost, maintain high volume efficiencies and can run very smoothly at low speed, gear box not required.

MAIN SPECIFICATIONS

		EBMJ 65	EBMJ 80	EBMJ 100	EBMJ 125	EBMJ 160	EBMJ 200	EBMJ 230	EBMJ 250	EBMJ 295	EBMJ 315	EBMJ 375
Geometric displacement	in ³ /rev (cm ³ /rev.)	4.08 (66.8)	4.96 (81.3)	6.2 (101.6)	7.75 (127)	9.59 (157.2)	11.81 (193.6)	13.79 (226)	15.68 (257)	17.56 (287.8)	19.19 (314.5)	22.58 (370)
Max. Speed	Continuous (rpm)	667	543	439	350	283	229	247	216	196	178	152
	Intermittent (rpm)	842	689	553	441	355	289	328	287	254	235	199
Max. Torque	Continuous lbf•ft (N•m)	93 (126)	115.9 (157)	141 (191)	180.8 (245)	226.6 (307)	281.9 (382)	279 (378)	281.2 (381)	290 (393)	330.6 (448)	324 (439)
	Intermittent lbf•ft (N•m)	129.9 (176)	158.7 (215)	197.8 (268)	247.2 (335)	311.4 (422)	383.8 (520)	389.7 (528)	400.7 (543)	403.7 (547)	433.2 (587)	452.4 (613)
Max. Output	Continuous HP (kW)	11.1 (8.3)	11.8 (8.8)	10.6 (7.9)	11.9 (8.9)	11.9 (8.9)	12.1 (9)	13.3 (9.9)	12.5 (9.3)	11.8 (8.7)	10.7 (8)	10.2 (7.6)
	Intermittent HP (kW)	18.6 (13.9)	19.3 (14.4)	18.1 (13.5)	18.9 (14.1)	20.9 (15.6)	21.1 (15.7)	24 (17.9)	22.1 (16.5)	20.9 (15.6)	19.2 (14.3)	18.8 (14)
Max. Pressure Drop	Continuous PSI (bar)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	2031 (140)	1740 (120)	1595 (110)	1450 (100)	1450 (100)	1305 (90)
	Intermittent PSI (bar)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2756 (190)	2393 (165)	2248 (155)	2103 (145)	1958 (135)	1813 (125)
	Peak PSI (bar)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2901 (200)	2611 (180)	2611 (180)	2466 (170)	2321 (160)	2321 (160)
Max. Flow	Continuous GPM (L/min)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	11.9 (45)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)
	Intermittent GPM (L/min)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	15.1 (57)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



EBMJ ORDER INFORMATION

	1		2		3		4		5		6		7
EBMJ		-		-		-		-		-		-	

1	2	3		4		5		6		7	
CODE	Displacement	Flange, Pilot, Ports		Output Shaft		Rotation Direction		Paint		Unusually Function	
	65	WS	4-Ø13.5 Wheel-Flange, Pilot Ø82.55x7, Port 7/8-14 O-Ring	T1	Cone-Shaft Ø35, Parallel Key B6x6x20	Omit	Standard	00	No Paint	Omit	Standard
	80	WD	4-Ø13.5 Wheel-Flange, Pilot Ø82.55x7, Port G1/2	T2	Cone-Shaft Ø1-1/4", Woodruff Key Ø1" x 5/16"	R	Opposite	Omit	Black		
	100	WM	4-Ø13.5 Wheel-Flange, Pilot Ø82.55, Port M22x1.5	T3	Cone-Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1-1/4"						
	125			T4	Cone-Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1"						
	160			B	Cylindrical Shaft Ø32, Parallel Key 10x8x45						
	200										
	230										
	250										
	295										
	315										
	375										

EBMJ

Note: From the order information table, please choose the right code for construction, displacement, mounting flange, output shaft and ports, etc...
 If the specification is not in the table or you have specific requirements, please contact us.



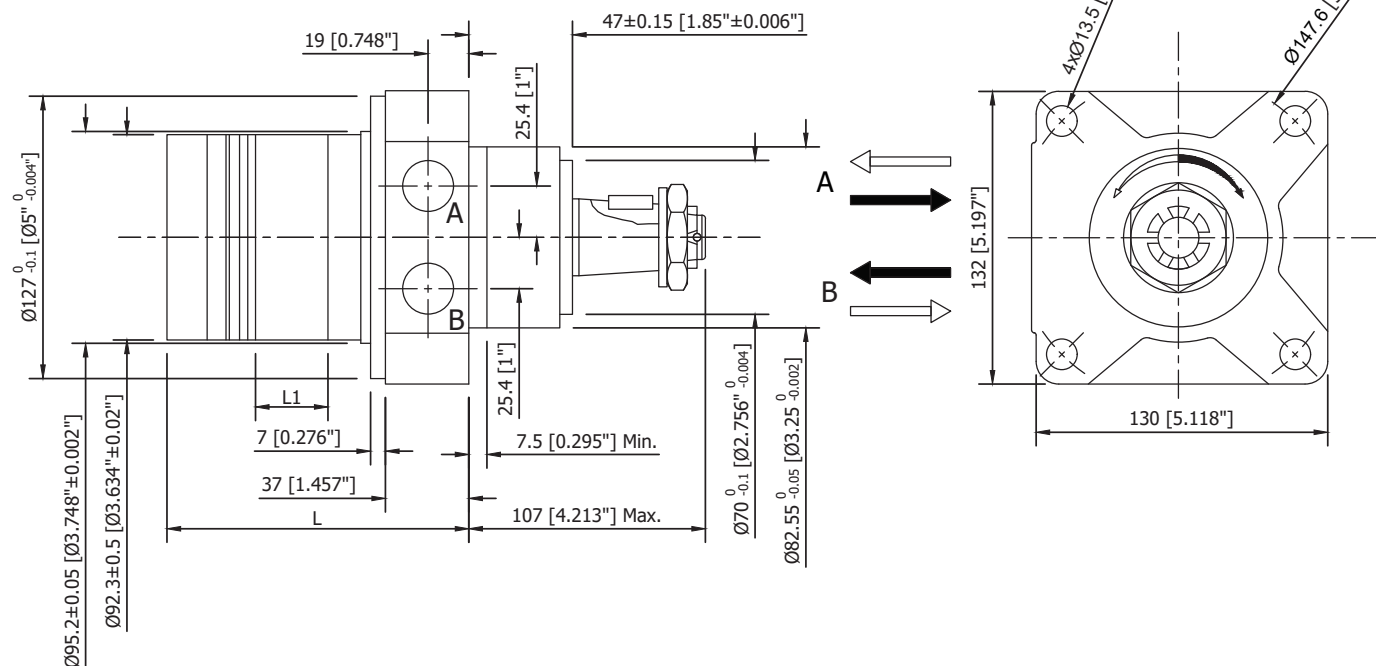
WHEEL MOUNT

CODE WS PORTS A-B : 7/8-14 O-RING

CODE WD PORTS A-B : G1/2

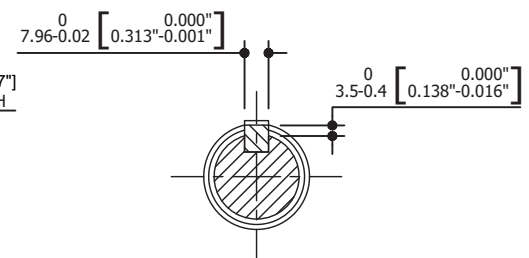
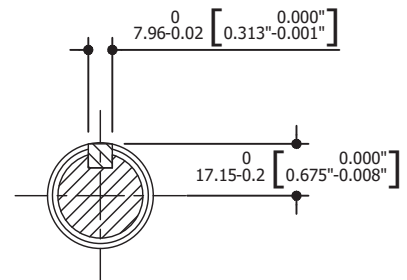
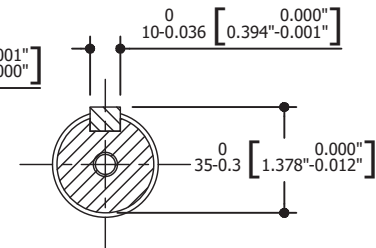
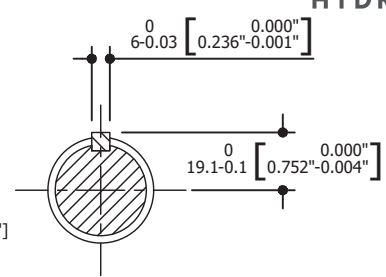
CODE WM PORTS A-B : M22 X 1.5

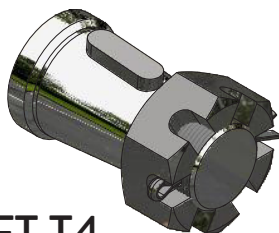
EBMJ



DISPLACEMENT (cm3/rev)	L1	L	Weight
65	13 (0.512")	115 (4.528")	19.8 (9)
80	16 (0.63")	118 (4.646")	20 (9.1)
100	20 (0.787")	122 (4.803")	22.9 (10.4)
125	25 (0.984")	127 (5")	23.3 (10.6)
160	30.5 (1.201")	132.5 (5.217")	24 (10.9)
200	38.1 (1.5")	140 (5.512")	24.9 (11.3)
230	44 (1.732")	146 (5.748")	26 (11.8)
250	50 (1.969")	152 (5.984")	26.8 (12.2)
295	56 (2.205")	158 (6.22")	27.7 (12.6)
315	62 (2.441")	164 (6.457")	28.4 (12.9)
375	74 (2.913")	176 (6.929")	29.5 (13.4)







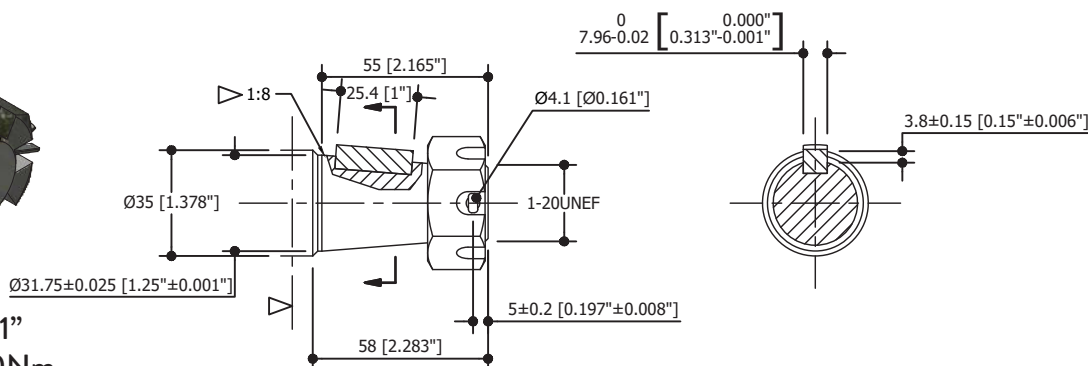
SHAFT T4

Cone Shaft $\varnothing 1\text{-}1/4"$

Parallel Key $5/16" \times 5/16" \times 1"$

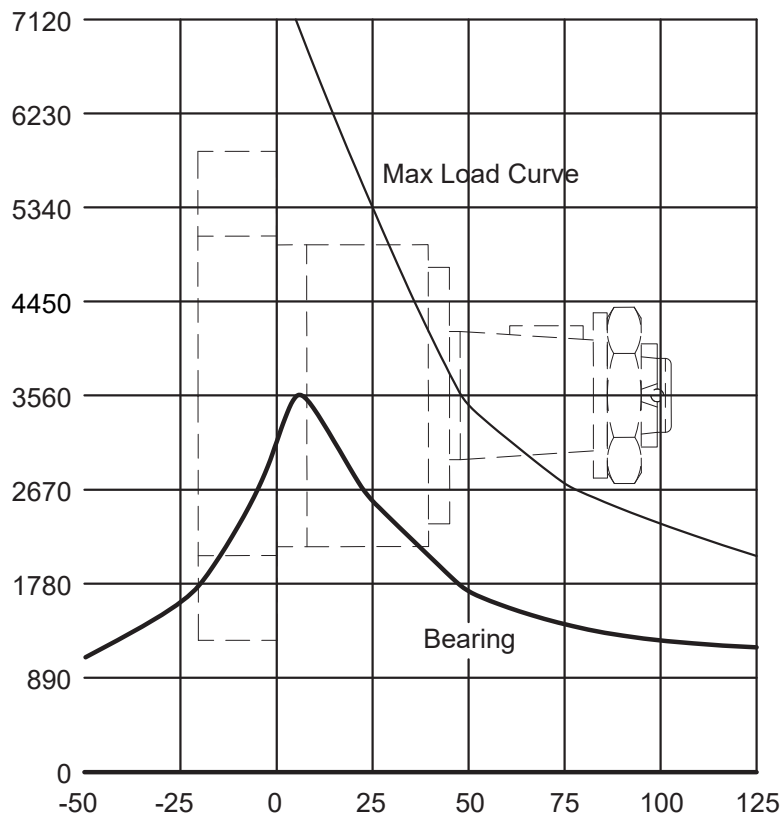
Tightening Torque: $200 \pm 10\text{Nm}$

IMPERIAL



EBMJ PERMISSIBLE SHAFT LOADS

Side Load-(daN)



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 3×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

Distance from mounting face -- (mm)

EBMER series motor adapts the advanced Geroler gear set designed with high speed distribution flow and high pressure, have good stability in low speed, and can keep high volume efficiency. The unit can operate multifunction in accordance with requirement of applications.

FEATURES

- Advanced manufacturing devices for the Geroler gear set, which use low pressure at start-up, provide smooth, reliable operation and high efficiency.
- The output shaft adapts in needle roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in many applications.
- Advanced design in high speed distribution flow.
- Lowest leakage rate, most accurate timing methods. Commutator rotates 6x faster than shaft speed. It makes the distribution in a high precision reduce life-cycle cost, maintain high volume efficiencies and can run very smoothly at low speed, gear box not required.

EBMER

MAIN SPECIFICATIONS

		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
Max. Speed	Continuous (rpm)	360	375	330	290	290	250	220	200	185	160	140	115	100
	Intermittent (rpm)	490	470	425	365	350	315	270	240	220	195	170	138	120
Max. Torque	Continuous lbf•ft (N•m)	239.9 (325)	332.1 (450)	391.1 (530)	461.3 (625)	516.6 (700)	597.8 (810)	667.9 (905)	730.6 (990)	745.4 (1010)	800.7 (1085)	723.2 (980)	749.1 (1015)	774.9 (1050)
	Intermittent lbf•ft (N•m)	280.4 (380)	387.5 (525)	442.8 (600)	524 (710)	140.2 (190)	686.3 (930)	763.8 (1035)	841.3 (1140)	870.8 (1180)	870.8 (1180)	915.1 (1240)	922.5 (1250)	870.8 (1180)
	Peak lbf•ft (N•m)	332.1 (450)	435.4 (590)	553.5 (750)	642.1 (870)	723.2 (980)	826.6 (1120)	948.3 (1285)	1003.7 (1360)	1003.7 (1360)	929.9 (1260)	1018.4 (1380)	1018.4 (1380)	1011.1 (1370)
Max. Output	Continuous hp (kW)	16.1 (12)	20.1 (15)	20.8 (15.5)	21.5 (16)	23.5 (17.5)	24.1 (18)	23.5 (17.5)	22.1 (16.5)	20.8 (15.5)	19.4 (14.5)	15.4 (11.5)	13.4 (10)	10.7 (8)
	Intermittent hp (kW)	18.8 (14)	23.5 (17.5)	24.1 (18)	25.5 (19)	26.8 (20)	28.2 (21)	26.8 (20)	25.5 (19)	24.1 (18)	22.1 (16.5)	20.1 (15)	16.1 (12)	13.4 (10)
Max. Pressure Drop	Continuous PSI (bar)	2973 (205)	2973 (205)	2973 (205)	2973 (205)	2973 (205)	2973 (205)	2973 (205)	2973 (205)	2756 (190)	2538 (175)	2031 (140)	1740 (120)	1523 (105)
	Intermittent PSI (bar)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3481 (240)	3263 (225)	2756 (190)	2538 (175)	2248 (155)	1740 (120)
	Peak PSI (bar)	4003 (276)	4003 (276)	4003 (276)	4003 (276)	4003 (276)	4003 (276)	4003 (276)	4003 (276)	3626 (250)	2973 (205)	2973 (205)	2538 (175)	2031 (140)
Max. Flow	Continuous GPM (L/min)	11.9 (45)	15.9 (60)	18.5 (70)	18.5 (70)	19.8 (75)	21.2 (80)	21.2 (80)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)	19.8 (75)
	Intermittent GPM (L/min)	15.9 (60)	19.8 (75)	22.5 (85)	22.5 (85)	23.8 (90)	25.1 (95)	25.1 (95)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)	23.8 (90)

* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

* Peak pressure: Max. value of operating motor in 0.6 second per minute.



EBMER-2 ORDER INFORMATION

2 3 4 5 6 7
EBMER - - - - -

1	2	3		4		5		6		7	
CODE	Displacement	Flange Pilot Ports		Output Shaft		Rotation Direction		Paint		Unusually Function	
2	125	MS	4-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports 7/8-14 O-Ring	G2	Shaft Ø1-1/4", Parallel Key 5/16" x 7mm x 36.5mm	Blank	Standard	00	No Paint	Blank	Standard
	160	MP	4-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports 1/2-14NPTF	B1	Shaft Ø32, Parallel Key 10 x 8 x 36	R	Reverse Timed	Omit	Black		
	200	MD	4-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports G1/2	FD1	Shaft Ø1-1/4", Splined Key 14-DP12/24						
	230	FS	6-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports 7/8-14 O-Ring	T4	Cone-Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1"						
	250	FP	6-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports 1/2-14NPTF	RW	Shaft Ø1", Parallel Key 1/4" x 1/4" x 1-1/4"						
	300	FD	6-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Ports G1/2	AW	Shaft Ø25, Parallel Key 8 x 7 x 32						
	350	FH	6-Ø13.5 Magneto Mount, Pilot Ø82.55 x 2.8, Manifold Ports 1/2	SW	Shaft Ø1", Splined Key SAE 6B						
	375	WS	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports 7/8-14 O-Ring	M1	Shaft Ø35, Parallel Key 10 x 8 x 45						
	400	WP	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports 1/2-14NPTF	T31	Cone-Shaft Ø1-1/2", Parallel Key 5/16" x 7mm x 36.5mm						
	475	WD	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports G1/2	G32	Shaft Ø1-1/2", Parallel Key 3/8" x 3/8" x 42mm						
	540	TS	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports 7/8-14 O-Ring								
	650	TP	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports 1/2-14NPTF								
	750	TD	4-Ø13.5 Wheel Mount, Pilot Ø82.55 x 5, Ports G1/2								

Note: From the order information table, please choose the right code for construction, displacement, flange, pilot, ports, output shaft, etc... If the specification is not in the table or you have specific requirements, please contact us.

EBMER 125 - 7.2 in³/rev (118 cm³/rev)

		<i>Max. Cont.</i>							<i>Max. Int.</i>
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	14.8 (20)	36.9 (50)	70.8 (96)	101.1 (137)			
		Speed (rpm)	14	13	11	7			
	1.1 (4)	Torque lbf•ft (N•m)	17.7 (24)	39.1 (53)	81.2 (110)	122.5 (166)	163.1 (221)		
		Speed (rpm)	28	26	24	19	13		
	2.1 (8)	Torque lbf•ft (N•m)		40.6 (55)	83.4 (113)	129.2 (174)	166.1 (225)	196.3 (266)	217 (294)
		Speed (rpm)		60	54	50	45	39	26
	4 (15)	Torque lbf•ft (N•m)		39.1 (53)	84.1 (114)	132.8 (180)	172.7 (234)	203 (275)	240.6 (326)
		Speed (rpm)		115	110	100	96	90	84
	6.6 (25)	Torque lbf•ft (N•m)		35.4 (48)	81.2 (110)	121 (164)	166.8 (226)	200.7 (272)	238.4 (323)
		Speed (rpm)		194	185	173	168	160	155
<i>Max. Cont.</i>	9 (34)	Torque lbf•ft (N•m)			79.7 (108)	122.5 (166)	162.4 (220)	205.2 (278)	232.5 (315)
		Speed (rpm)			276	260	244	232	225
	11.9 (45)	Torque lbf•ft (N•m)			72.3 (98)	118.1 (160)	158.7 (215)	200 (271)	227.3 (308)
		Speed (rpm)			362	350	342	325	322
	14 (53)	Torque lbf•ft (N•m)			66.4 (90)	112.2 (152)	153.5 (208)	195.6 (265)	224.4 (304)
		Speed (rpm)			423	418	404	399	371
	15.9 (60)	Torque lbf•ft (N•m)			60.5 (82)	104.1 (141)	151.3 (205)	191.9 (260)	221.4 (300)
		Speed (rpm)			488	472	455	442	421
<i>Max. Int.</i>									

EBMER 160 - 9.52 in³/rev (156 cm³/rev)

		<i>Max. Cont.</i>							<i>Max. Int.</i>
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	25.8 (35)	54.6 (74)	107.7 (146)	160.9 (218)	219.9 (298)		
		Speed (rpm)	8	4	3	3	2		
	1.1 (4)	Torque lbf•ft (N•m)	21.4 (29)	57.6 (78)	115.9 (157)	173.4 (235)	233.2 (316)	273.1 (370)	312.9 (424)
		Speed (rpm)	22	19	18	16	14	13	8
	2.1 (8)	Torque lbf•ft (N•m)	25.8 (35)	57.6 (78)	116.6 (158)	174.2 (236)	230.3 (312)	275.3 (373)	332.1 (450)
		Speed (rpm)	47	44	42	40	37	34	32
	4 (15)	Torque lbf•ft (N•m)	27.3 (37)	54.6 (74)	114.4 (155)	172.7 (234)	228.8 (310)	271.6 (368)	324.7 (440)
		Speed (rpm)	93	90	86	84	82	79	75
	6.6 (25)	Torque lbf•ft (N•m)		50.2 (68)	112.2 (152)	167.5 (227)	227.3 (308)	268.6 (364)	321.8 (436)
		Speed (rpm)		155	151	147	142	137	131
<i>Max. Cont.</i>	9 (34)	Torque lbf•ft (N•m)		50.2 (68)	112.2 (152)	167.5 (227)	227.3 (308)	268.6 (364)	321.8 (436)
		Speed (rpm)		214	213	210	204	198	191
	11.9 (45)	Torque lbf•ft (N•m)		47.2 (64)	105.5 (143)	160.9 (218)	218.4 (296)	265.7 (360)	313.7 (425)
		Speed (rpm)		282	280	275	268	263	256
	14 (53)	Torque lbf•ft (N•m)			99.6 (135)	159.4 (216)	216.2 (293)	263.5 (357)	310.7 (421)
		Speed (rpm)			330	327	322	315	306
	15.9 (60)	Torque lbf•ft (N•m)			90 (122)	152.8 (207)	209.6 (284)	258.3 (350)	307 (416)
		Speed (rpm)			379	376	368	362	356
	18 (68)	Torque lbf•ft (N•m)			80.4 (109)	144.6 (196)	201.5 (273)	254.6 (345)	315.1 (425)
		Speed (rpm)			423	419	414	406	395
<i>Max. Int.</i>	19.8 (75)	Torque lbf•ft (N•m)			76.8 (104)	138.7 (188)	199.3 (270)	248.7 (337)	315.1 (425)
		Speed (rpm)			472	466	450	442	437

All numbers given are nominal values and should be used for reference only.

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EBMER 200 - 11.96 in³/rev (196 cm³/rev)

		Max. Cont.							Max. Int.
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	28.8 (39)	64.9 (88)	97.4 (132)	211.1 (286)	273.1 (370)		
		Speed (rpm)	8	4	4	3	2		
	1.1 (4)	Torque lbf•ft (N•m)	31 (42)	62.7 (85)	138.7 (188)	199.3 (270)	266.4 (361)	315.1 (427)	373.4 (506)
		Speed (rpm)	16	14	13	11	10	9	6
	2.1 (8)	Torque lbf•ft (N•m)	31.7 (43)	66.4 (90)	141.7 (192)	214.8 (291)	270.8 (367)	332.1 (450)	390.4 (529)
		Speed (rpm)	35	32	29	28	27	25	23
	4 (15)	Torque lbf•ft (N•m)	28 (38)	67.9 (92)	144.6 (196)	219.9 (298)	281.2 (381)	341 (462)	391.1 (530)
		Speed (rpm)	74	71	68	64	60	58	55
	6.6 (25)	Torque lbf•ft (N•m)		60.5 (82)	138.7 (188)	208.9 (283)	278.2 (377)	336.5 (456)	389.7 (528)
		Speed (rpm)		124	121	117	113	108	103
	9 (34)	Torque lbf•ft (N•m)		58.3 (79)	135.1 (183)	199.3 (270)	267.2 (362)	329.9 (447)	380.1 (515)
		Speed (rpm)		170	169	167	160	154	146
	11.9 (45)	Torque lbf•ft (N•m)			120.3 (163)	191.1 (259)	259.8 (352)	325.5 (441)	376.4 (510)
		Speed (rpm)			223	218	212	208	199
	14 (53)	Torque lbf•ft (N•m)			110 (149)	188.9 (256)	258.3 (350)	324.7 (440)	369.7 (501)
		Speed (rpm)			260	258	254	248	241
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)			97.4 (132)	183 (248)	248 (336)	318.8 (432)	366.8 (497)
		Speed (rpm)			299	292	284	276	272
	18 (68)	Torque lbf•ft (N•m)			88.6 (120)	169.7 (230)	243.5 (330)	304.1 (412)	358.7 (486)
		Speed (rpm)			336	332	327	319	310
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)			79.7 (108)	153.5 (208)	229.5 (311)	297.4 (403)	354.2 (480)
		Speed (rpm)			375	372	365	358	350
	22.5 (85)	Torque lbf•ft (N•m)				135.8 (184)	206.6 (280)	280.4 (380)	341 (462)
		Speed (rpm)				425	420	411	390

EBMER 230 - 13.91 in³/rev (228 cm³/rev)

		Max. Cont.							Max. Int.
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	32.5 (44)	66.4 (90)	134.3 (182)	214.8 (291)	276 (374)		
		Speed (rpm)	6	4	3	2	1		
	1.1 (4)	Torque lbf•ft (N•m)	35.4 (48)	73.8 (100)	159.4 (216)	228.8 (310)	298.9 (405)	357.2 (484)	405.2 (549)
		Speed (rpm)	15	13	11	11	9	7	3
	2.1 (8)	Torque lbf•ft (N•m)	36.9 (50)	76.8 (104)	156.5 (212)	236.2 (320)	310.7 (421)	382.3 (518)	445 (603)
		Speed (rpm)	31	29	27	25	23	20	16
	4 (15)	Torque lbf•ft (N•m)	32.5 (44)	78.2 (106)	152.8 (207)	234.7 (318)	314.4 (426)	390.4 (529)	459.8 (623)
		Speed (rpm)	63	61	58	55	52	47	41
	6.6 (25)	Torque lbf•ft (N•m)		74.5 (101)	154.2 (209)	239.1 (324)	315.9 (428)	392.6 (532)	457.6 (620)
		Speed (rpm)		103	100	96	92	87	81
	9 (34)	Torque lbf•ft (N•m)		64.9 (88)	151.3 (205)	233.2 (316)	310.7 (421)	385.2 (522)	459.8 (623)
		Speed (rpm)		145	143	139	133	126	120
	11.9 (45)	Torque lbf•ft (N•m)			137.3 (186)	217 (294)	311.4 (422)	374.2 (507)	439.1 (595)
		Speed (rpm)			192	187	182	176	170
	14 (5)	Torque lbf•ft (N•m)			129.2 (175)	214 (290)	290 (393)	366 (496)	431 (584)
		Speed (rpm)			226	221	215	208	203
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)			112.2 (152)	199.3 (270)	287.8 (390)	357.9 (485)	419.9 (569)
		Speed (rpm)			256	253	248	242	235
	18 (68)	Torque lbf•ft (N•m)			103.3 (140)	195.6 (265)	259 (351)	355.7 (482)	415.5 (563)
		Speed (rpm)			292	288	283	278	273
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)			91.5 (124)	173.4 (235)	253.9 (344)	330.6 (448)	407.4 (552)
		Speed (rpm)			324	321	316	308	300
	22.5 (85)	Torque lbf•ft (N•m)				152.8 (207)	247.2 (335)	326.2 (442)	402.9 (546)
		Speed (rpm)				366	360	351	338

PERFORMANCE DATA



EAGLE
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EBMER

EBMER 250 - 15.68 in³/rev (257 cm³/rev)

Max. Cont. Max. Int.

		Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)		35.4 (48)	81.9 (111)						
		Speed (rpm)		5	2						
	1.1 (4)	Torque lbf•ft (N•m)		39.9 (54)	83.4 (113)	174.9 (237)	267.2 (362)	347.6 (471)	420.7 (570)	473.8 (642)	
		Speed (rpm)		12	11	10	9	8	6	3	
	2.1 (8)	Torque lbf•ft (N•m)		39.9 (54)	84.9 (115)	180.1 (244)	270.1 (366)	355.7 (482)	433.2 (587)	507.7 (688)	
		Speed (rpm)		27	26	24	22	20	18	14	
	4 (15)	Torque lbf•ft (N•m)		36.9 (50)	83.4 (113)	188.9 (256)	270.8 (367)	357.9 (485)	436.2 (591)	510.7 (692)	586 (794)
		Speed (rpm)		57	56	54	51	48	45	43	37
	6.6 (25)	Torque lbf•ft (N•m)		32.5 (44)	84.1 (114)	177.9 (241)	265.7 (360)	360.1 (488)	437.6 (593)	515.9 (699)	577.1 (782)
		Speed (rpm)		95	93	90	86	82	77	72	63
	9 (34)	Torque lbf•ft (N•m)			70.1 (95)	166.8 (226)	256.8 (348)	355 (481)	435.4 (590)	506.3 (686)	571.2 (774)
		Speed (rpm)			129	125	121	116	111	106	96
	11.9 (45)	Torque lbf•ft (N•m)			56.8 (77)	158.7 (215)	255.3 (346)	345.4 (468)	422.1 (572)	497.4 (674)	574.9 (779)
		Speed (rpm)			174	173	170	166	161	155	143
	14 (53)	Torque lbf•ft (N•m)			48.7 (66)	147.6 (200)	239.9 (325)	330.6 (448)	416.2 (564)	484.9 (657)	557.9 (756)
		Speed (rpm)			203	202	200	196	190	184	175
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)				132.8 (180)	218.4 (296)	323.2 (438)	405.9 (550)	473.8 (642)	546.9 (741)
		Speed (rpm)				232	229	225	220	215	202
	18 (68)	Torque lbf•ft (N•m)				119.6 (162)	217 (294)	306.3 (415)	404.4 (548)	470.1 (637)	538.7 (730)
		Speed (rpm)				262	261	257	250	241	228
	19.8 (75)	Torque lbf•ft (N•m)				101.1 (137)	202.2 (274)	286.3 (388)	383.8 (520)	456.1 (618)	535.8 (726)
		Speed (rpm)				290	289	285	280	273	260
	22.5 (85)	Torque lbf•ft (N•m)				95.9 (130)	192.6 (261)	273.1 (370)	375.6 (509)	445.8 (604)	
		Speed (rpm)				328	326	322	316	307	
Max. Int.	23.8 (90)	Torque lbf•ft (N•m)				62.7 (85)	165.3 (224)	264.2 (358)	361.6 (490)		
		Speed (rpm)				348	347	344	336		

EBMER 300 - 18.06 in³/rev (296 cm³/rev)

Max. Cont. Max. Int.

		Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)		36.9 (50)	68.6 (93)						
		Speed (rpm)		3	1						
	1.1 (4)	Torque lbf•ft (N•m)		45.8 (62)	104.1 (141)	217 (294)	316.6 (429)	370.5 (502)	456.1 (618)		
		Speed (rpm)		11	10	9	8	7	4		
	2.1 (8)	Torque lbf•ft (N•m)		46.5 (63)	108.5 (147)	219.9 (298)	318.8 (432)	417 (565)	492.2 (667)	561.6 (761)	604.4 (819)
		Speed (rpm)		22	21	20	19	16	13	9	5
	4 (15)	Torque lbf•ft (N•m)		48.7 (66)	106.3 (144)	225.1 (305)	315.1 (427)	419.2 (568)	495.2 (671)	597.8 (810)	659.8 (894)
		Speed (rpm)		48	47	45	43	39	33	28	20
	6.6 (25)	Torque lbf•ft (N•m)		43.5 (59)	101.8 (138)	213.3 (289)	310 (420)	407.4 (552)	498.9 (676)	583.8 (791)	687.8 (932)
		Speed (rpm)		82	81	80	76	71	64	56	44
	9 (34)	Torque lbf•ft (N•m)		35.4 (48)	95.9 (130)	219.2 (297)	290 (393)	414.8 (562)	508.5 (689)	594.1 (805)	683.4 (926)
		Speed (rpm)		113	112	110	107	102	96	86	73
	11.9 (45)	Torque lbf•ft (N•m)			70.8 (96)	197.8 (268)	284.1 (385)	388.9 (527)	469.4 (636)	555.7 (753)	649.4 (880)
		Speed (rpm)			150	149	148	143	135	124	112
	14 (53)	Torque lbf•ft (N•m)			56.1 (76)	178.6 (242)	282.7 (383)	386.7 (524)	465.7 (631)	559.4 (758)	664.2 (900)
		Speed (rpm)			177	176	175	173	165	152	138
Max. Cont.	15.9 (60)	Torque lbf•ft (N•m)			47.2 (64)	166.1 (225)	267.2 (362)	373.4 (506)	462.7 (627)	555.7 (753)	658.3 (892)
		Speed (rpm)			200	199	198	193	186	174	162
	18 (68)	Torque lbf•ft (N•m)				147.6 (200)	245.8 (333)	346.9 (470)	464.9 (630)	553.5 (750)	650.9 (882)
		Speed (rpm)				225	224	222	212	201	194
	19.8 (75)	Torque lbf•ft (N•m)				131.4 (178)	237.6 (322)	342.4 (464)	450.2 (610)	546.9 (741)	642.1 (870)
		Speed (rpm)				251	250	247	240	232	215
	22.5 (85)	Torque lbf•ft (N•m)				103.3 (140)	233.2 (316)	335.8 (455)	420.7 (570)	537.3 (728)	
		Speed (rpm)				285	284	278	270	257	
Max. Int.	23.1 (95)	Torque lbf•ft (N•m)				78.2 (106)	191.9 (260)	318.1 (431)	407.4 (552)	516.6 (700)	
		Speed (rpm)				316	314	311	307	292	

All numbers given are nominal values and should be used for reference only.

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EBMER 350 - 21.05 in³/rev (345 cm³/rev)

Max. Cont. Max. Int.

Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	46.5 (63)	98.2 (133)					
		Speed (rpm)	4	4					
	1.1 (4)	Torque lbf•ft (N•m)	47.2 (64)	99.6 (135)	214 (290)	324.7 (440)			
		Speed (rpm)	10	9	8	7			
	2.1 (8)	Torque lbf•ft (N•m)	50.2 (68)	107.7 (146)	228.8 (310)	338 (458)	434.7 (589)	542.4 (735)	625.1 (847)
		Speed (rpm)	21	20	20	19	18	16	12
	4 (15)	Torque lbf•ft (N•m)	53.1 (72)	110.7 (150)	231.7 (314)	345.4 (468)	462.7 (627)	567.5 (769)	649.4 (880)
		Speed (rpm)	42	41	40	39	37	35	32
	6.6 (25)	Torque lbf•ft (N•m)	46.5 (63)	109.2 (148)	231 (313)	346.9 (470)	463.5 (628)	564.6 (765)	658.3 (892)
		Speed (rpm)	70	69	68	66	63	60	55
	9 (34)	Torque lbf•ft (N•m)	38.4 (52)	98.2 (133)	224.4 (304)	335.8 (455)	456.8 (619)	560.9 (760)	667.9 (905)
		Speed (rpm)	97	96	95	93	89	85	78
	11.9 (45)	Torque lbf•ft (N•m)		73.8 (100)	192.6 (261)	326.2 (442)	430.3 (583)	543.2 (736)	654.6 (887)
		Speed (rpm)		129	128	127	125	118	112
	14 (53)	Torque lbf•ft (N•m)		62.7 (85)	182.3 (247)	308.5 (418)	417.7 (566)	527.7 (715)	649.4 (880)
		Speed (rpm)		152	150	148	145	139	132
	15.9 (60)	Torque lbf•ft (N•m)		48 (65)	172 (233)	302.6 (410)	405.9 (550)	525.5 (712)	621.4 (842)
		Speed (rpm)		171	170	169	167	162	155
Max. Cont.	18 (68)	Torque lbf•ft (N•m)			160.9 (218)	285.6 (387)	400.7 (543)	513.6 (696)	608.9 (825)
		Speed (rpm)			195	194	190	185	175
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)			152 (206)	275.3 (373)	380.1 (515)	501.8 (680)	606.6 (822)
		Speed (rpm)			215	214	212	206	197
	22.5 (85)	Torque lbf•ft (N•m)			129.9 (176)	262 (355)	376.4 (510)	501.1 (679)	596.3 (808)
		Speed (rpm)			243	242	239	234	227
	23.1 (95)	Torque lbf•ft (N•m)				260.5 (353)	375.6 (509)	476 (645)	
		Speed (rpm)				272	269	265	

EBMER 375 - 22.64 in³/rev (371 cm³/rev)

Max. Cont. Max. Int.

Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)	3481 (240)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	55.4 (75)						
		Speed (rpm)	3						
	1.1 (4)	Torque lbf•ft (N•m)	61.3 (83)	118.1 (160)	243.5 (330)	360.1 (488)	469.4 (636)	561.6 (761)	
		Speed (rpm)	8	8	7	6	5	3	
	2.1 (8)	Torque lbf•ft (N•m)	59.8 (81)	125.5 (170)	262.7 (356)	241.3 (327)	501.1 (679)	606.6 (822)	699.6 (948)
		Speed (rpm)	18	17	17	16	14	12	9
	4 (15)	Torque lbf•ft (N•m)	56.1 (76)	119.6 (162)	262.7 (356)	393.4 (533)	504.1 (683)	623.6 (845)	721.8 (978)
		Speed (rpm)	39	38	37	35	32	29	25
	6.6 (25)	Torque lbf•ft (N•m)	50.2 (68)	115.1 (156)	258.3 (350)	386.7 (524)	501.8 (680)	632.5 (857)	733.6 (994)
		Speed (rpm)	65	64	62	59	55	48	44
	9 (34)	Torque lbf•ft (N•m)	42.8 (58)	109.2 (148)	250.2 (339)	373.4 (506)	509.2 (690)	620.7 (841)	732.8 (993)
		Speed (rpm)	90	89	87	83	77	71	63
	11.9 (45)	Torque lbf•ft (N•m)		89.3 (121)	222.9 (302)	352.8 (478)	479.7 (650)	600 (813)	717.3 (972)
		Speed (rpm)		120	119	117	113	108	100
	14 (53)	Torque lbf•ft (N•m)		70.1 (95)	208.1 (282)	343.9 (466)	463.5 (628)	579.3 (785)	689.3 (934)
		Speed (rpm)		141	140	138	134	128	120
	15.9 (60)	Torque lbf•ft (N•m)		55.4 (75)	194.8 (264)	315.9 (428)	436.9 (592)	565.3 (766)	682.7 (925)
		Speed (rpm)		161	161	160	158	155	151
Max. Cont.	18 (68)	Torque lbf•ft (N•m)			171.2 (232)	311.4 (422)	431.7 (585)	557.9 (756)	664.9 (901)
		Speed (rpm)			182	180	176	169	161
Max. Int.	19.8 (75)	Torque lbf•ft (N•m)			152.8 (207)	280.4 (380)	410.3 (556)	544.6 (738)	638.4 (865)
		Speed (rpm)			201	200	197	190	181
	22.5 (85)	Torque lbf•ft (N•m)			129.2 (175)	273.1 (370)	388.2 (526)	516.6 (700)	614 (832)
		Speed (rpm)			228	226	221	216	206
	23.8 (90)	Torque lbf•ft (N•m)			109.2 (148)	233.2 (316)	369 (500)	482.7 (654)	
		Speed (rpm)			242	240	237	226	

All numbers given are nominal values and should be used for reference only.



EBMER 400 - 24.71 in³/rev (405 cm³/rev)

		<i>Max. Cont.</i>							<i>Peak</i>
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2756 (190)	3263 (225)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	62.7 (85)	125.5 (170)					
		Speed (rpm)	3	2					
	1.1 (4)	Torque lbf•ft (N•m)	66.4 (90)	134.3 (182)	271.6 (368)	398.5 (540)	527.7 (715)	653.1 (885)	
		Speed (rpm)	8	7	6	5	4	3	
	2.1 (8)	Torque lbf•ft (N•m)	68.6 (93)	140.2 (190)	284.1 (385)	424.4 (575)	553.5 (750)	660.5 (895)	701.1 (950)
		Speed (rpm)	17	16	15	14.4	13	10	9
	4 (15)	Torque lbf•ft (N•m)	64.9 (88)	132.8 (180)	280.4 (380)	424.4 (575)	553.5 (750)	667.9 (905)	723.2 (980)
		Speed (rpm)	36	35	34	33	31	28	24
	6.6 (25)	Torque lbf•ft (N•m)	64.9 (88)	132.8 (180)	280.4 (380)	424.4 (575)	553.5 (750)	675.3 (915)	745.4 (1010)
		Speed (rpm)	60	59	58	56	53	49	44
	9 (34)	Torque lbf•ft (N•m)	55.4 (75)	121.8 (165)	269.4 (365)	413.3 (560)	553.5 (750)	675.3 (915)	738 (1000)
		Speed (rpm)	83	83	82	81	77	72	68
	11.9 (45)	Torque lbf•ft (N•m)		110.7 (150)	258.3 (350)	402.2 (545)	542.4 (735)	664.2 (900)	723.2 (980)
		Speed (rpm)		110	110	109	106	102	94
	14 (53)	Torque lbf•ft (N•m)		92.3 (125)	243.5 (330)	387.5 (525)	531.4 (720)	653.1 (885)	708.5 (960)
		Speed (rpm)		130	129	128	125	120	112
	15.9 (60)	Torque lbf•ft (N•m)		73.8 (100)	225.1 (305)	372.7 (505)	501.8 (680)	634.7 (860)	693.7 (940)
		Speed (rpm)		147	147	146	145	142	138
	18 (68)	Torque lbf•ft (N•m)			203 (275)	354.2 (480)	487.1 (660)	623.6 (845)	682.7 (925)
		Speed (rpm)			167	167	164	158	150
<i>Max. Cont.</i>	19.8 (75)	Torque lbf•ft (N•m)			184.5 (250)	335.8 (455)	468.6 (635)	605.2 (820)	664.2 (900)
		Speed (rpm)			184	183	180	176	170
<i>Max. Int.</i>	22.5 (85)	Torque lbf•ft (N•m)			166.1 (225)	306.3 (415)	442.8 (600)	579.3 (785)	638.4 (865)
		Speed (rpm)			209	208	206	202	194
	23.8 (90)	Torque lbf•ft (N•m)			118.1 (160)	269.4 (365)	424.4 (575)	568.3 (770)	
		Speed (rpm)			220	218	216	210	

EBMER



EBMER 475 - 28.19 in³/rev (462 cm³/rev)

		<i>Max. Cont.</i>						<i>Peak</i>
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)	2973 (205)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	68.6 (93)	137.3 (186)				
		Speed (rpm)	2	1				
	1.1 (4)	Torque lbf•ft (N•m)	72.3 (98)	149.1 (202)	298.9 (405)	448.7 (608)	594.1 (805)	
		Speed (rpm)	7	6	5	5	4	
	2.1 (8)	Torque lbf•ft (N•m)	72.3 (98)	152 (206)	317.3 (430)	481.2 (652)	622.9 (844)	870.8 (1180)
		Speed (rpm)	15	14	13	13	12	8
	4 (15)	Torque lbf•ft (N•m)	69.4 (94)	149.1 (202)	325.5 (441)	482.7 (654)	645.8 (875)	913.6 (1238)
		Speed (rpm)	31	30	28	28	26	20
	6.6 (25)	Torque lbf•ft (N•m)	69.4 (94)	149.1 (202)	325.5 (441)	482.7 (654)	645.8 (875)	913.6 (1238)
		Speed (rpm)	52	51	48	45	43	35
	9 (34)	Torque lbf•ft (N•m)	55.4 (75)	132.8 (180)	310 (420)	487.1 (660)	627.3 (850)	934.3 (1266)
		Speed (rpm)	72	71	68	65	61	44
	11.9 (45)	Torque lbf•ft (N•m)		106.3 (144)	280.4 (380)	462.7 (627)	616.2 (835)	930.6 (1261)
		Speed (rpm)		96	95	93	90	73
	14 (53)	Torque lbf•ft (N•m)		85.6 (116)	255.3 (346)	422.9 (573)	586.7 (795)	894.5 (1212)
		Speed (rpm)		113	112	111	107	90
	15.9 (60)	Torque lbf•ft (N•m)		60.5 (82)	234.7 (318)	397.8 (539)	583 (790)	875.3 (1186)
		Speed (rpm)		128	128	127	124	110
<i>Max. Cont.</i>	18 (68)	Torque lbf•ft (N•m)		42.8 (58)	200.7 (272)	383.8 (520)	546.1 (740)	853.1 (1156)
		Speed (rpm)		146	145	144	141	125
<i>Max. Int.</i>	19.8 (75)	Torque lbf•ft (N•m)			169.7 (230)	354.2 (480)	518.1 (702)	823.6 (1116)
		Speed (rpm)			161	160	158	140
<i>Max. Int.</i>	22.5 (85)	Torque lbf•ft (N•m)			147.6 (200)	335.1 (454)	488.6 (662)	646.5 (876)
		Speed (rpm)			182	180	177	168
<i>Max. Int.</i>	23.8 (90)	Torque lbf•ft (N•m)			110.7 (150)	279 (378)	453.9 (615)	619.9 (840)
		Speed (rpm)			194	193	190	182

EBMER 540 - 32.95 in³/rev (540 cm³/rev)

		Max. Cont.						Max. Int.	
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	2031 (140)	2538 (175)		
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	77.5 (105)	146.1 (198)					
		Speed (rpm)	2	2					
	1.1 (4)	Torque lbf•ft (N•m)	92.3 (125)	170.5 (231)	346.9 (470)	507.7 (688)	687.8 (932)	838.4 (1136)	
		Speed (rpm)	6	5	5	4	4	3	
	2.1 (8)	Torque lbf•ft (N•m)	98.9 (134)	175.6 (238)	366 (496)	552.8 (749)	712.9 (966)	867.2 (1175)	
		Speed (rpm)	13	13	12	11	11	8	
	4 (15)	Torque lbf•ft (N•m)	90 (122)	169.7 (230)	372.7 (505)	553.5 (750)	724 (981)	898.9 (1218)	
		Speed (rpm)	27	26	26	25	24	21	
	6.6 (25)	Torque lbf•ft (N•m)	73.8 (100)	166.1 (225)	369 (500)	571.2 (774)	727.7 (986)	900.4 (1220)	
		Speed (rpm)	44	43	42	41	39	35	
	9 (34)	Torque lbf•ft (N•m)	59 (80)	156.5 (212)	355 (481)	552 (748)	721 (977)	917.3 (1243)	
		Speed (rpm)	62	61	60	58	54	49	
	11.9 (45)	Torque lbf•ft (N•m)		127.7 (173)	322.5 (437)	526.9 (714)	690.8 (936)	878.2 (1190)	
		Speed (rpm)		82	82	81	79	75	
	14 (53)	Torque lbf•ft (N•m)		104.8 (142)	307 (416)	500.4 (678)	692.2 (938)	863.5 (1170)	
		Speed (rpm)		97	97	96	94	89	
	15.9 (60)	Torque lbf•ft (N•m)		78.2 (106)	280.4 (380)	490 (664)	661.2 (896)	854.6 (1158)	
		Speed (rpm)		110	110	109	108	106	
	18 (68)	Torque lbf•ft (N•m)		62.7 (85)	263.5 (357)	454.6 (616)	642.1 (870)	817.7 (1108)	
		Speed (rpm)		125	124	124	123	120	
Max. Cont.	19.8 (75)	Torque lbf•ft (N•m)			234.7 (318)	442.8 (600)	609.6 (826)	811.8 (1100)	
		Speed (rpm)			138	137	135	132	
Max. Int.	22.5 (85)	Torque lbf•ft (N•m)			215.5 (292)	397 (538)	575.6 (780)		
		Speed (rpm)			154	153	152		
	23.8 (90)	Torque lbf•ft (N•m)			157.9 (214)	358.7 (486)	557.2 (755)		
		Speed (rpm)			169	168	168		

EBMER



EBMER 650 - 39.48 in³/rev (647 cm³/rev)

		<i>Max. Cont.</i>		<i>Max. Int.</i>		<i>Peak</i>	
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	1740 (120)	2248 (155)
Flow GPM (L/min)	0.5 (2)	Torque lbf•ft (N•m)	87.8 (119)	169.7 (230)			
		Speed (rpm)	2	1			
	1.1 (4)	Torque lbf•ft (N•m)	99.6 (135)	197.8 (268)	407.4 (552)	594.1 (805)	693.7 (940)
		Speed (rpm)	5	5	4	4	3
	2.1 (8)	Torque lbf•ft (N•m)	107 (145)	210.3 (285)	423.6 (574)	608.9 (825)	704.8 (955)
		Speed (rpm)	11	11	10	10	9
	4 (15)	Torque lbf•ft (N•m)	103.3 (140)	206.6 (280)	439.1 (595)	645.8 (875)	724.7 (982)
		Speed (rpm)	22	22	21	21	20
	6.6 (25)	Torque lbf•ft (N•m)	95.9 (130)	203 (275)	435.4 (590)	653.9 (886)	741.7 (1005)
		Speed (rpm)	37	36	36	35	34
	9 (34)	Torque lbf•ft (N•m)	84.9 (115)	191.9 (260)	428 (580)	656.8 (890)	749.1 (1015)
		Speed (rpm)	51	51	50	49	47
	11.9 (45)	Torque lbf•ft (N•m)		173.4 (235)	409.6 (555)	642.1 (870)	734.3 (995)
		Speed (rpm)		69	68	67	66
	14 (53)	Torque lbf•ft (N•m)		147.6 (200)	383.8 (520)	627.3 (850)	719.6 (975)
		Speed (rpm)		80	80	79	78
<i>Max. Cont.</i>	15.9 (60)	Torque lbf•ft (N•m)		125.5 (170)	361.6 (490)	608.9 (825)	690 (935)
		Speed (rpm)		91	91	90	89
<i>Max. Int.</i>	18 (68)	Torque lbf•ft (N•m)		107 (145)	317.3 (430)	572 (775)	649.4 (880)
		Speed (rpm)		104	103	102	101
<i>Max. Cont.</i>	19.8 (75)	Torque lbf•ft (N•m)			310 (420)	538.7 (730)	631 (855)
		Speed (rpm)			114	113	112
<i>Max. Int.</i>	22 (83)	Torque lbf•ft (N•m)			280.4 (380)	487.1 (660)	586.7 (795)
		Speed (rpm)			130	129	128
<i>Max. Int.</i>	23.8 (90)	Torque lbf•ft (N•m)			214 (290)	431.7 (585)	538.7 (730)
		Speed (rpm)			138	137	136

EBMER 750 - 45.46 in³/rev (745 cm³/rev)

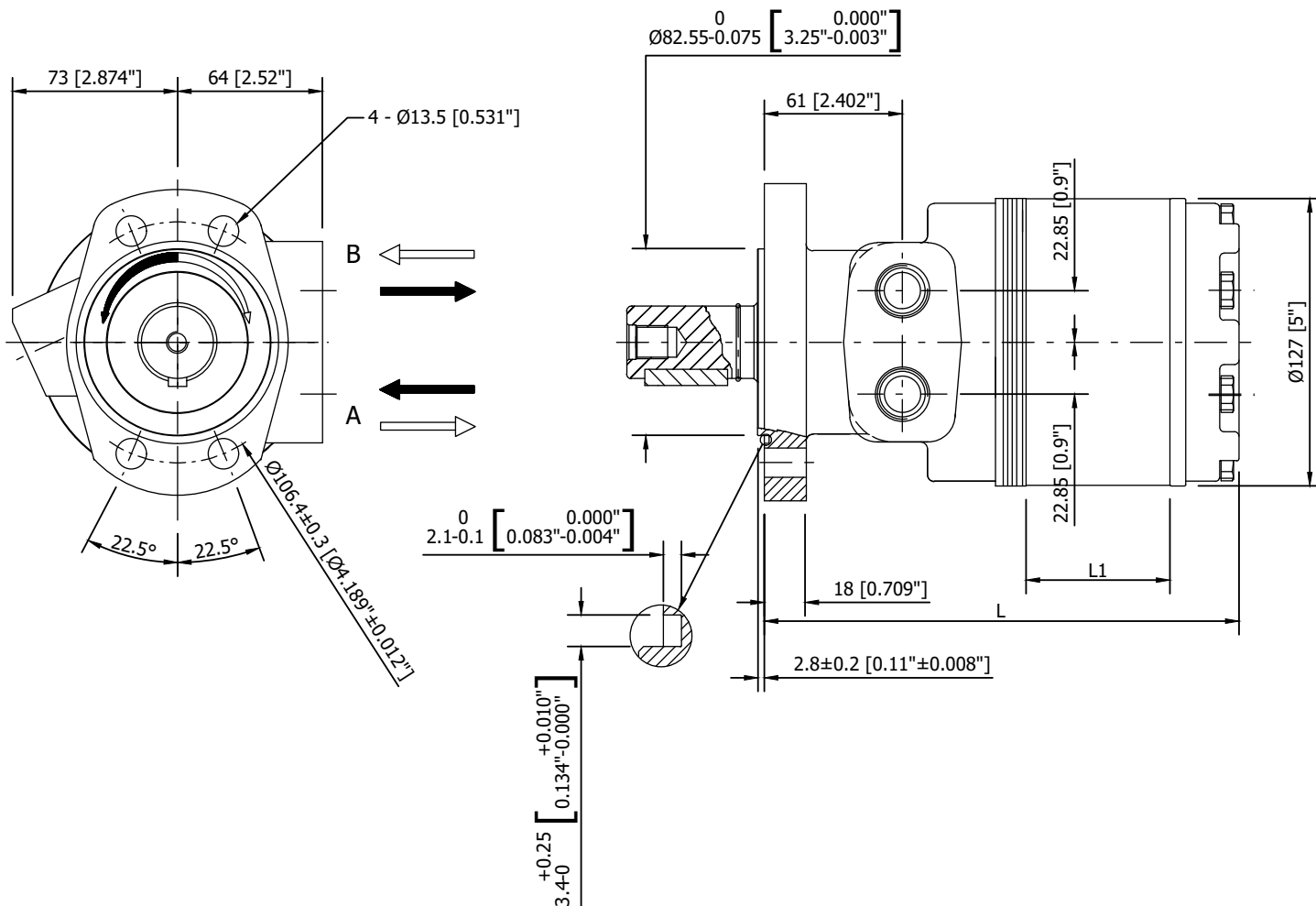
		<i>Max. Cont.</i>		<i>Max. Int.</i>		<i>Peak</i>	
Pressure PSI (bar)		254 (17.5)	508 (35)	1015 (70)	1523 (105)	1740 (120)	2031 (140)
Flow GPM (L/min)	0.5 (2) Torque lbf•ft (N•m)	107 (145)	206.6 (280)				
	Speed (rpm)	2	1				
	1.1 (4) Torque lbf•ft (N•m)	118.1 (160)	236.9 (321)	482.7 (654)	708.5 (960)	822.9 (1115)	968.3 (1312)
	Speed (rpm)	4	4	4	3	3	2
	2.1 (8) Torque lbf•ft (N•m)	119.6 (162)	247.2 (335)	507.7 (688)	757.2 (1026)	855.3 (1159)	994.1 (1347)
	Speed (rpm)	9	9	9	8	8	7
	4 (15) Torque lbf•ft (N•m)	115.1 (156)	243.5 (330)	512.2 (694)	772.7 (1047)	873.8 (1184)	1015.5 (1376)
	Speed (rpm)	19	19	18	18	17	16
	6.6 (25) Torque lbf•ft (N•m)	104.8 (142)	236.2 (320)	507.7 (688)	771.9 (1046)	870.1 (1179)	1013.3 (1373)
	Speed (rpm)	32	31	30	30	29	27
	9 (34) Torque lbf•ft (N•m)	81.2 (110)	212.5 (288)	485.6 (658)	753.5 (1021)	862.7 (1169)	1008.1 (1366)
	Speed (rpm)	44	44	42	41	40	37
	11.9 (45) Torque lbf•ft (N•m)	52.4 (71)	178.6 (242)	457.6 (620)	724.7 (982)	843.5 (1143)	992.6 (1345)
	Speed (rpm)	60	59	59	58	58	55
	14 (53) Torque lbf•ft (N•m)		149.1 (202)	419.2 (568)	694.5 (941)	815.5 (1105)	965.3 (1308)
	Speed (rpm)		70	69	68	67	66
	15.9 (60) Torque lbf•ft (N•m)		103.3 (140)	388.9 (527)	662.7 (898)	801.5 (1086)	949.1 (1286)
	Speed (rpm)		79	78	77	76	74
	18 (68) Torque lbf•ft (N•m)		73.8 (100)	358.7 (486)	628.8 (852)	763.1 (1034)	923.2 (1251)
	Speed (rpm)		90	90	89	88	87
<i>Max. Cont.</i>	19.8 (75) Torque lbf•ft (N•m)		48 (65)	313.7 (425)	599.3 (812)	723.2 (980)	869.4 (1178)
	Speed (rpm)		99	99	98	97	96
<i>Max. Int.</i>	22 (83) Torque lbf•ft (N•m)			291.5 (395)	549.8 (745)	668.6 (906)	
	Speed (rpm)			110	109	108	
	23.8 (90) Torque lbf•ft (N•m)			219.9 (298)	487.1 (660)	590.4 (800)	
	Speed (rpm)			120	119	117	

EBMER



MAGNETO MOUNT - 4 HOLES

MAGNETO MOUNT - 4 HOLES	
CODE	PORT A - B
MS	7/8-14UNF
MP	1/2-14NPTF
MD	G1/2



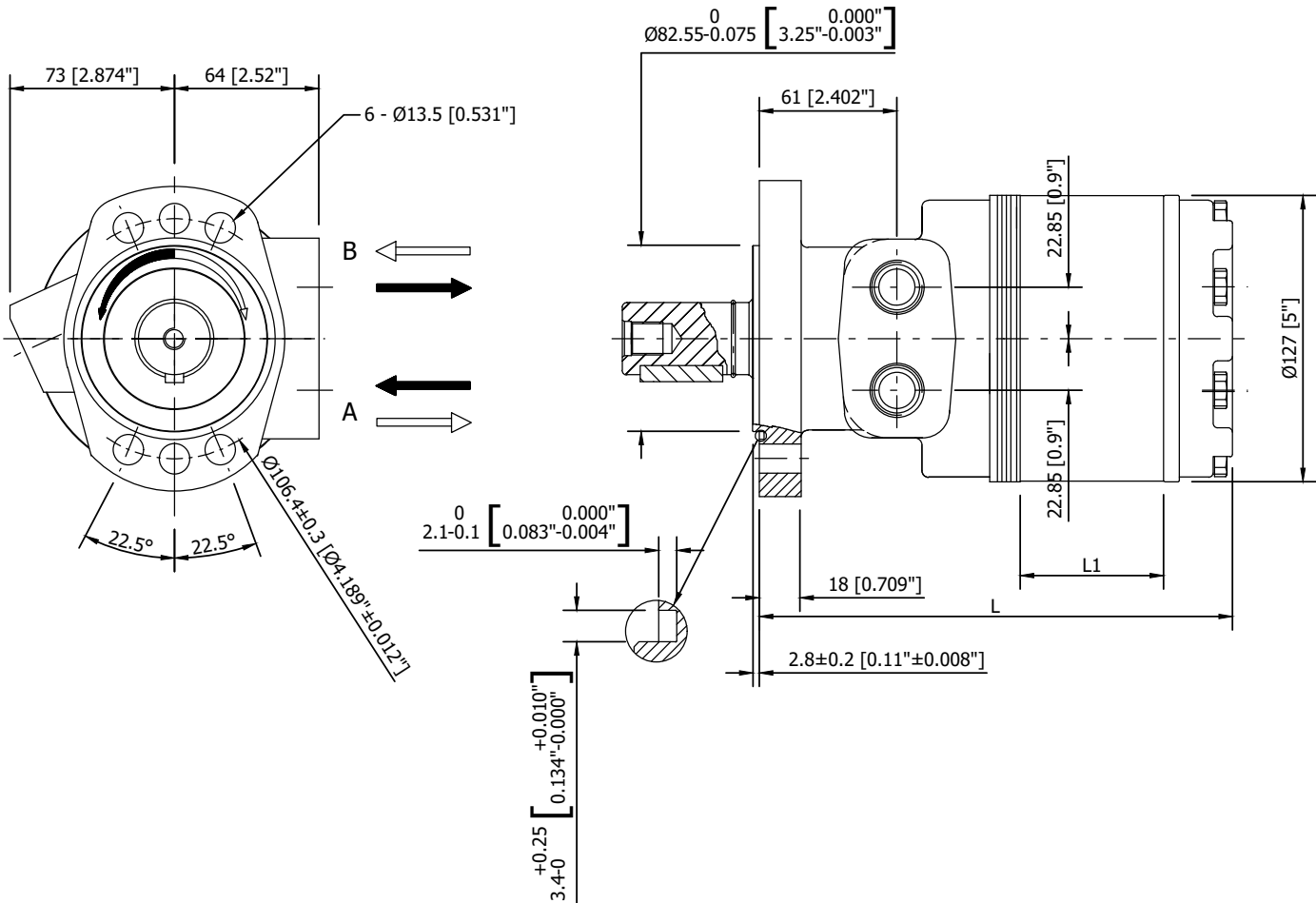
		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	157 (6.181")	160 (6.299")	163.5 (6.437")	166 (6.535")	168.5 (6.634")	172 (6.772")	176 (6.929")	178.5 (7.028")	182 (7.165")	186 (7.323")	194 (7.638")	204 (8.031")	210 (8.268")
Weight	Lbs (kg)	23.3 (10.6)	24 (10.9)	24.6 (11.2)	24.9 (11.3)	25.1 (11.4)	25.5 (11.6)	26.4 (12)	27.5 (12.5)	27.9 (12.7)	28.6 (13)	29.7 (13.5)	31.9 (14.5)	33 (15)

EBMER-2 DIMENSIONS AND MOUNTING



MAGNETO MOUNT - 6 HOLES

MAGNETO MOUNT - 4 HOLES	
CODE	PORT A - B
FS	7/8-14UNF
FP	1/2-14NPTF
FD	G1/2



		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	157 (6.181")	160 (6.299")	163.5 (6.437")	166 (6.535")	168.5 (6.634")	172 (6.772")	176 (6.929")	178.5 (7.028")	182 (7.165")	186 (7.323")	194 (7.638")	204 (8.031")	210 (8.268")
Weight	Lbs (kg)	23.3 (10.6)	24 (10.9)	24.6 (11.2)	24.9 (11.3)	25.1 (11.4)	25.5 (11.6)	26.4 (12)	27.5 (12.5)	27.9 (12.7)	28.6 (13)	29.7 (13.5)	31.9 (14.5)	33 (15)



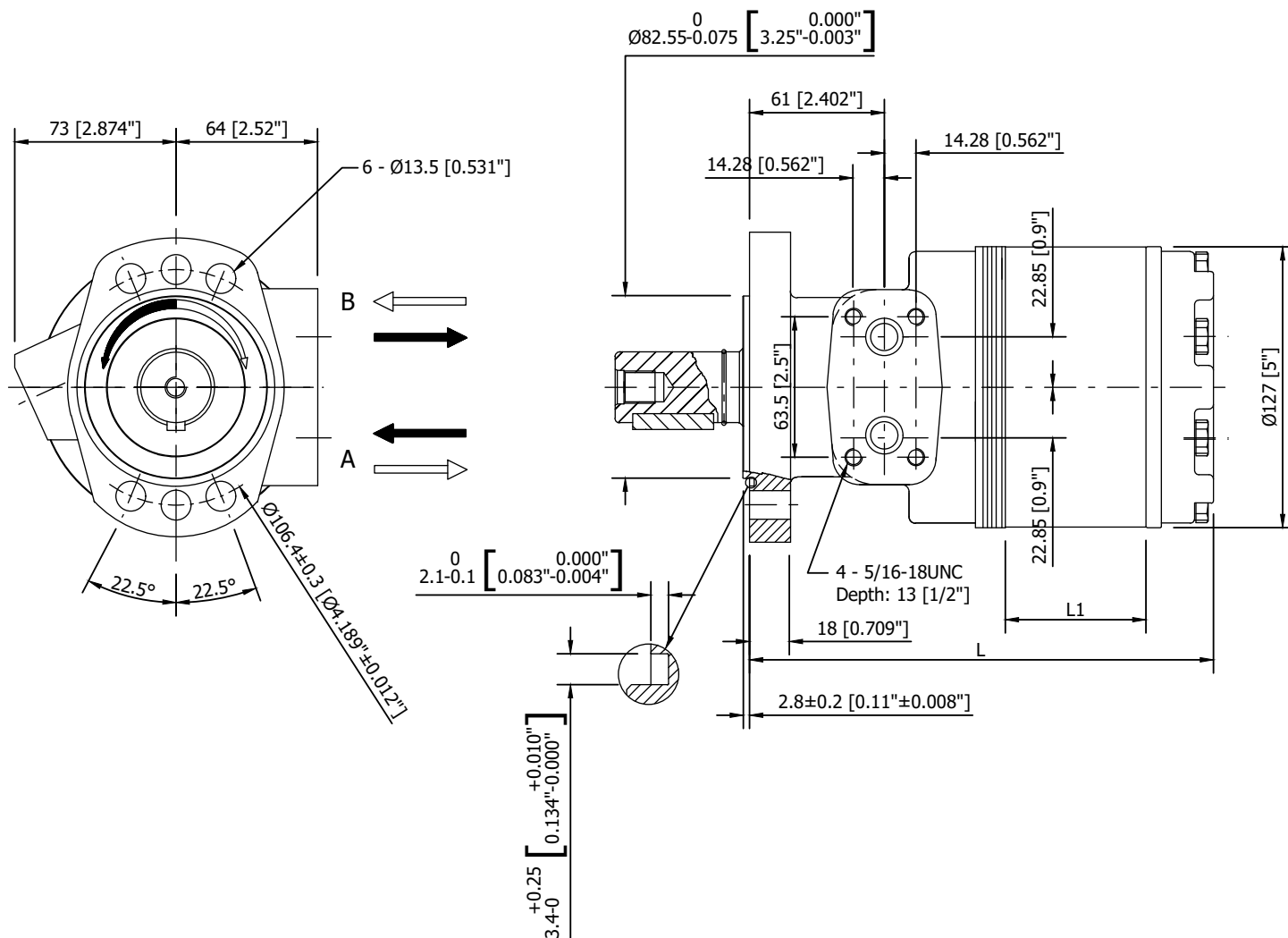
All numbers given are nominal values and should be used for reference only.

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MAGNETO MOUNT - 6 HOLES (MANIFOLD)

CODE	MANIFOLD PORT A - B
FH	Ø12.7 (1/2")

MAGNETO MOUNT - 6 HOLES (MANIFOLD)



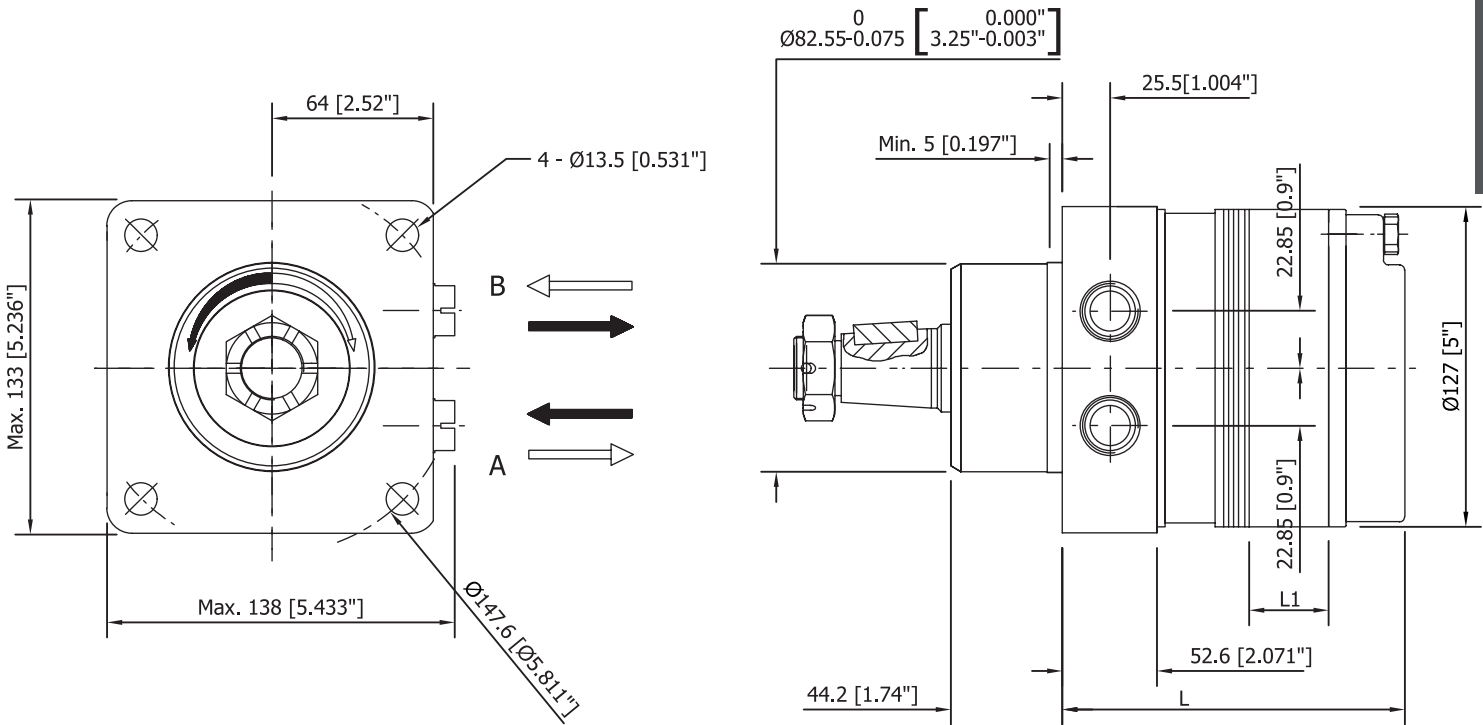
		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	157 (6.181")	160 (6.299")	163.5 (6.437")	166 (6.535")	168.5 (6.634")	172 (6.772")	176 (6.929")	178.5 (7.028")	182 (7.165")	186 (7.323")	194 (7.638")	204 (8.031")	210 (8.268")
Weight	Lbs (kg)	23.3 (10.6)	24 (10.9)	24.6 (11.2)	24.9 (11.3)	25.1 (11.4)	25.5 (11.6)	26.4 (12)	27.5 (12.5)	27.9 (12.7)	28.6 (13)	29.7 (13.5)	31.9 (14.5)	33 (15)

EBMER-2 DIMENSIONS AND MOUNTING



WHEEL MOUNT

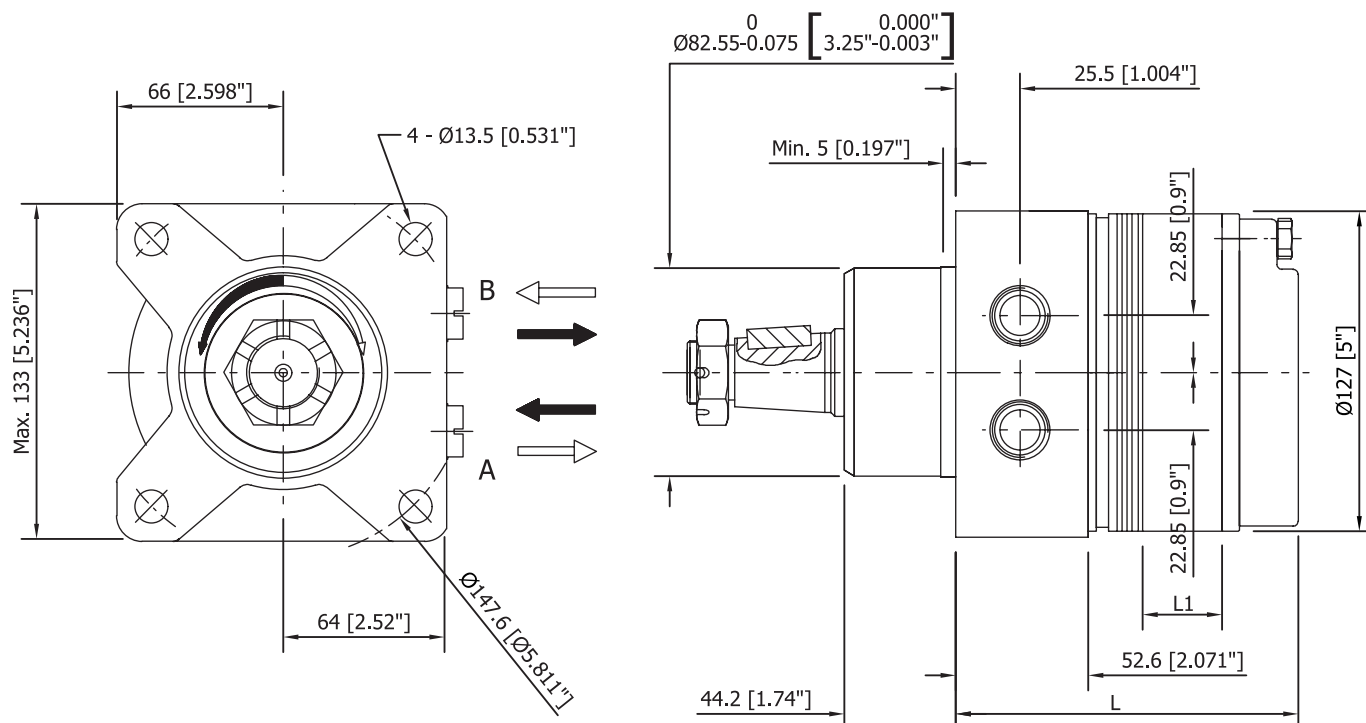
WHEEL MOUNT	
CODE	PORT A - B
WS	7/8-14UNF
WP	1/2-14NPTF
WD	G1/2



		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in³/rev (cm³/rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	119 (4.685")	122 (4.803")	125.5 (4.941")	128 (5.039")	130.5 (5.138")	134.5 (5.295")	138 (5.433")	140.5 (5.531")	144 (5.669")	148 (5.827")	156 (6.142")	166 (6.535")	173 (6.811")
Weight	Lbs (kg)	26.4 (12)	26.6 (12.1)	27.1 (12.3)	27.3 (12.4)	27.7 (12.6)	28.6 (13)	29 (13.2)	29.7 (13.5)	30.1 (13.7)	30.8 (14)	32.1 (14.6)	34.1 (15.5)	35.2 (16)

WHEEL MOUNT

WHEEL MOUNT	
CODE	PORT A - B
TS	7/8-14UNF
TP	1/2-14NPTF
TD	G1/2



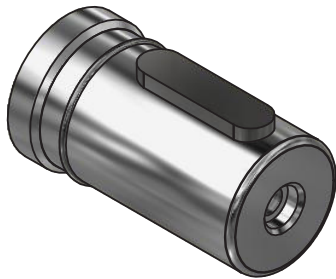
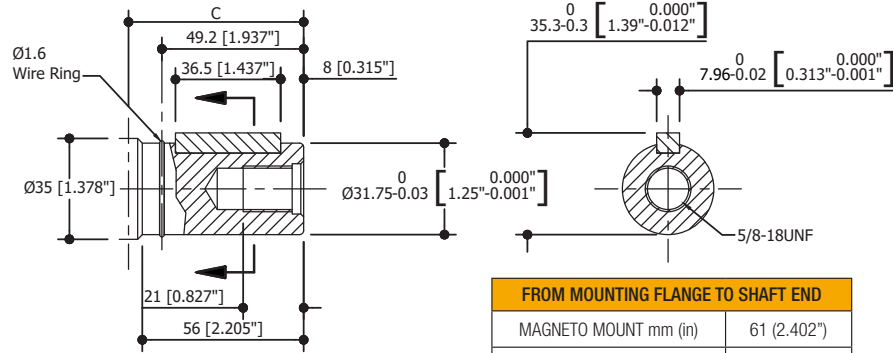
		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	119 (4.685")	122 (4.803")	125.5 (4.941")	128 (5.039")	130.5 (5.138")	134.5 (5.295")	138 (5.433")	140.5 (5.531")	144 (5.669")	148 (5.827")	156 (6.142")	166 (6.535")	173 (6.811")
Weight	Lbs (kg)	26.4 (12)	26.6 (12.1)	27.1 (12.3)	27.3 (12.4)	27.7 (12.6)	28.6 (13)	29 (13.2)	29.7 (13.5)	30.1 (13.7)	30.8 (14)	32.1 (14.6)	34.1 (15.5)	35.2 (16)

EBMER-2 SHAFT EXTENSIONS

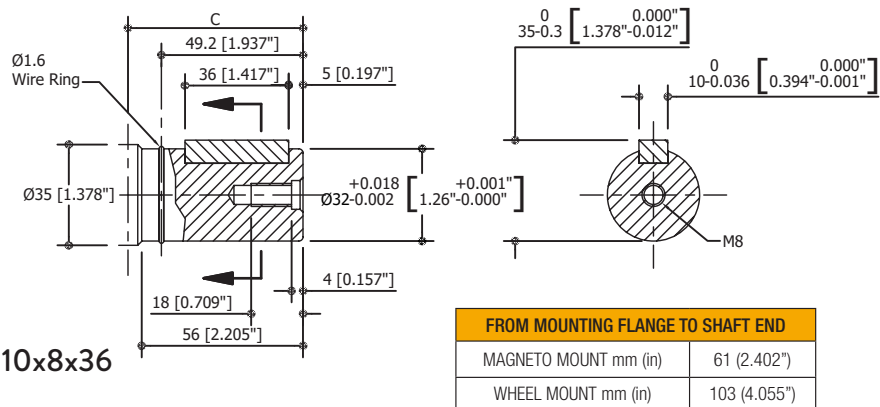
DIMENSIONS



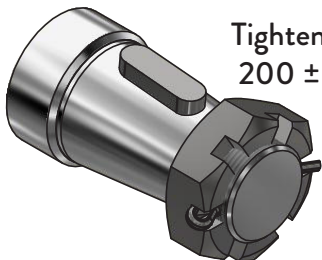
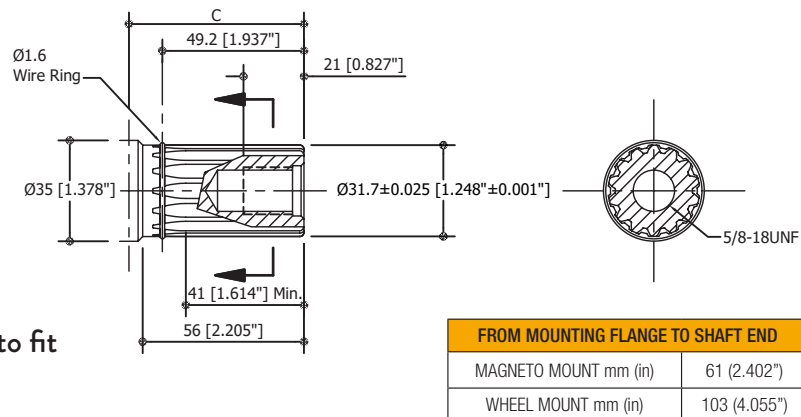
SHAFT G2
Cylindrical Shaft $\varnothing 1\text{-}1/4"$
Parallel Key $5/16" \times 7 \times 36.5$
IMPERIAL



SHAFT B1
Cylindrical Shaft $\varnothing 32$ - Parallel Key $10 \times 8 \times 36$
METRIC

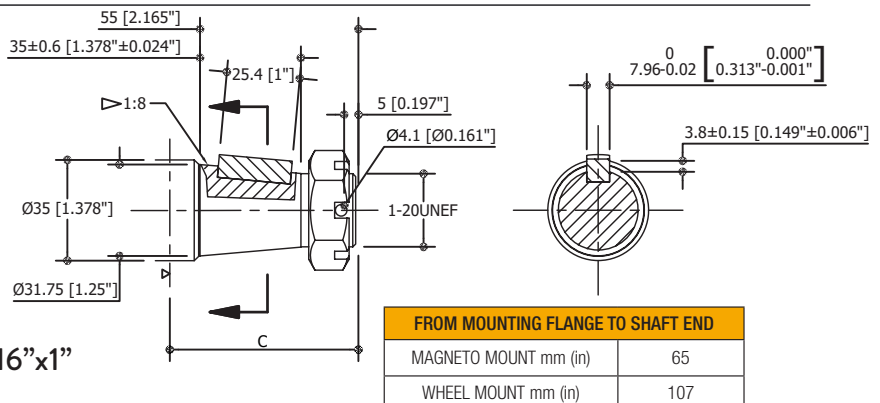


SHAFT FD1
Splined 14-DP12/24 Flat root side fit to fit
ANSI B92.1 1996
IMPERIAL



Tightening Torque:
 $200 \pm 10 \text{ Nm}$

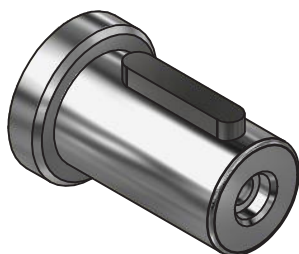
SHAFT T4
Cone-Shaft $\varnothing 1\text{-}1/4"$ - Parallel Key $5/16" \times 5/16" \times 1"$
IMPERIAL



EBMER-2 SHAFT EXTENSIONS

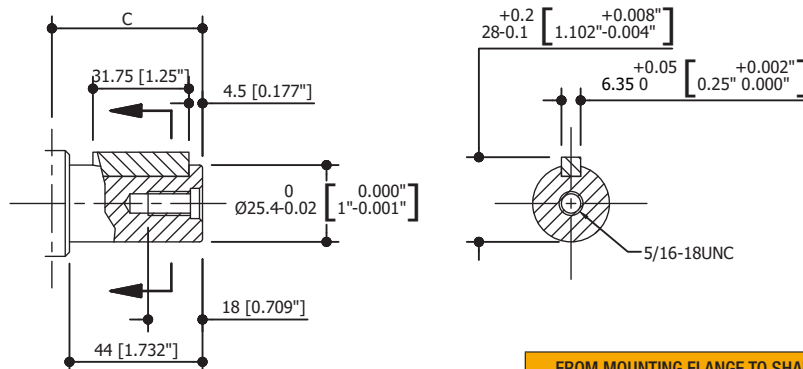
DIMENSIONS

EBMER



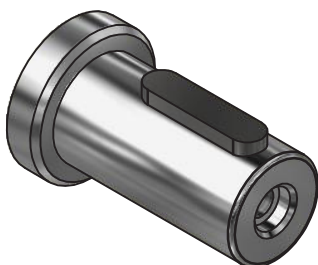
SHAFT RW

Cylindrical Shaft Ø1" - Parallel Key 1/4"x1/4"x1-1/4"
IMPERIAL



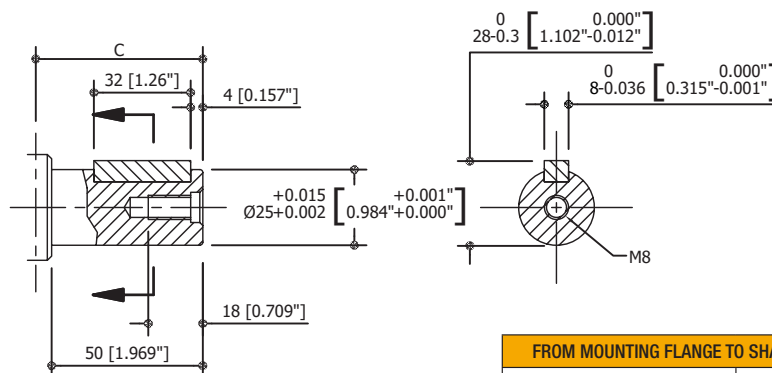
FROM MOUNTING FLANGE TO SHAFT END

MAGNETO MOUNT mm (in)	50 (1.969")
WHEEL MOUNT mm (in)	91 (3.583")



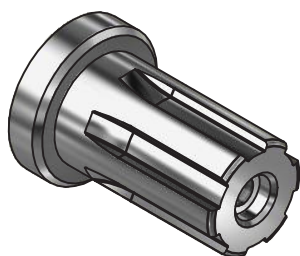
SHAFT AW

Cylindrical Shaft Ø25
Parallel Key 8x7x32
METRIC



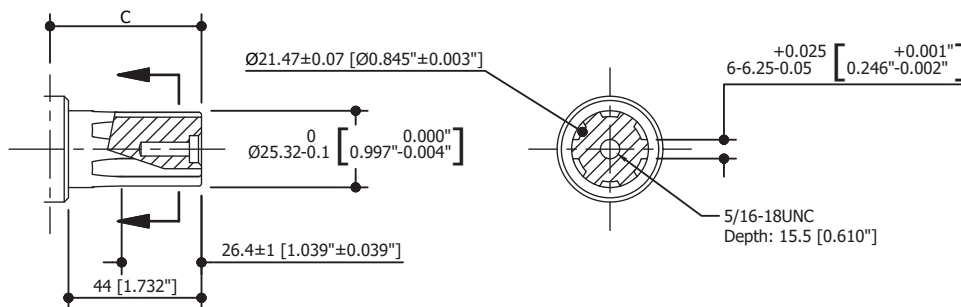
FROM MOUNTING FLANGE TO SHAFT END

MAGNETO MOUNT mm (in)	56 (2.205")
WHEEL MOUNT mm (in)	97 (3.819")



SHAFT SW

Splined SAE 6B
METRIC



FROM MOUNTING FLANGE TO SHAFT END

MAGNETO MOUNT mm (in)	50 (1.969")
WHEEL MOUNT mm (in)	91 (3.583")

EBMER-2 can be configured Ø1-1/2" (38.1mm) shaft seal. Shaft type T31 and M1 and G32.



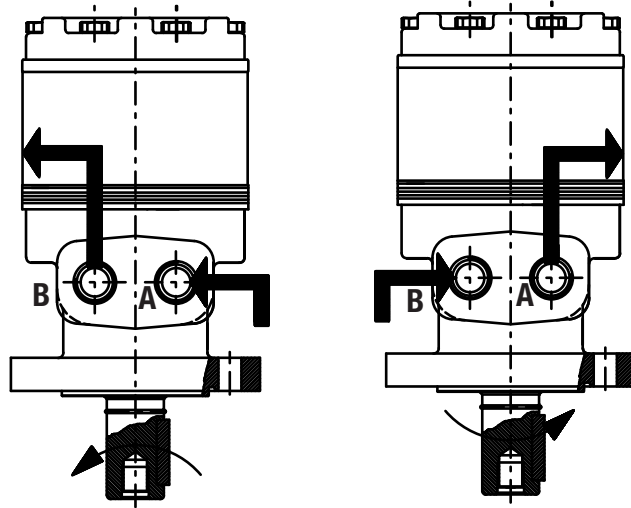
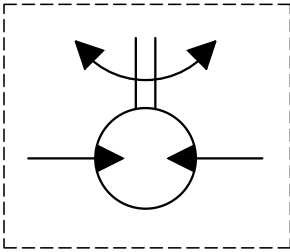
EBMER-2 SERIES HYDRAULIC MOTOR



EBMER-2 - DIRECTION OF SHAFT ROTATION : REVERSE TIMED

When facing shaft end of motor, shaft is rotating:

Clockwise when port "B" is pressurized.
Counter-Clockwise when port "A" is pressurized.



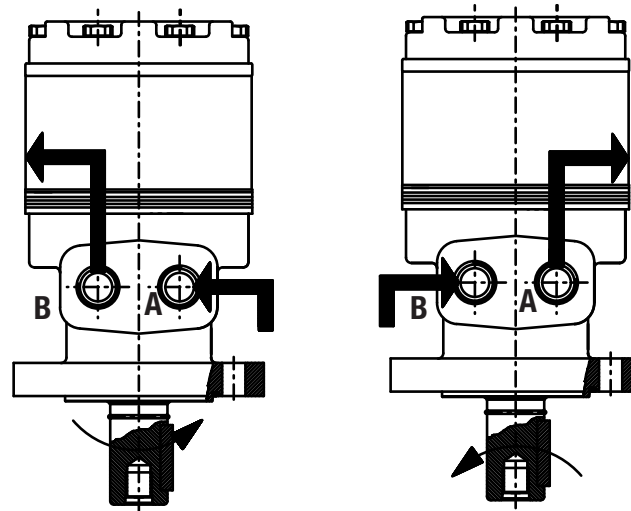
EBMER

EBMER-2 - DIRECTION OF SHAFT ROTATION : STANDARD

Direction of shaft rotation: Standard

When facing shaft end of motor, shaft is rotating:

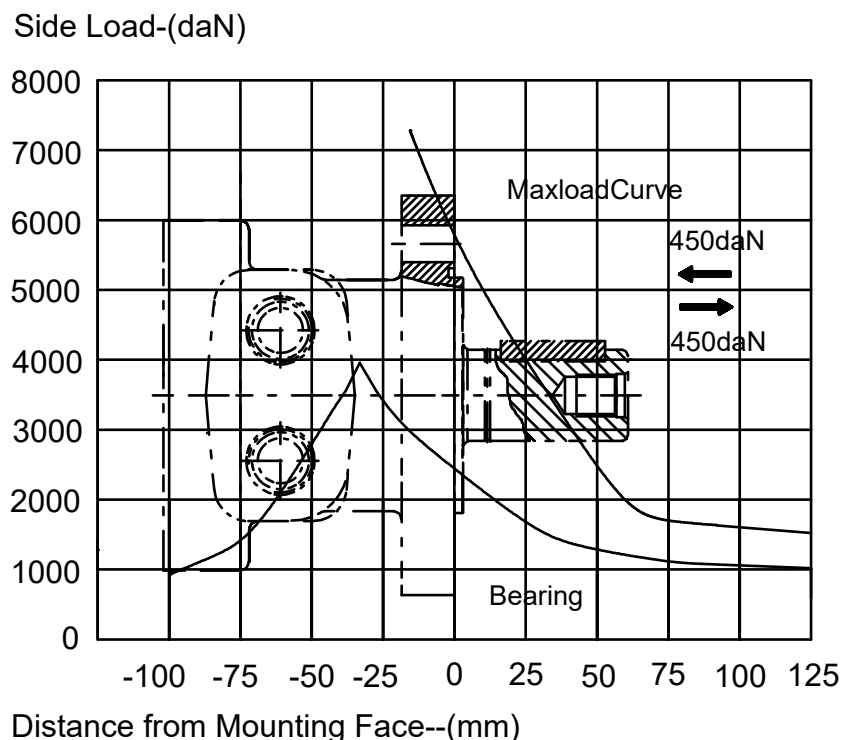
Clockwise when port "A" is pressurized.
Counter-Clockwise when port "B" is pressurized.



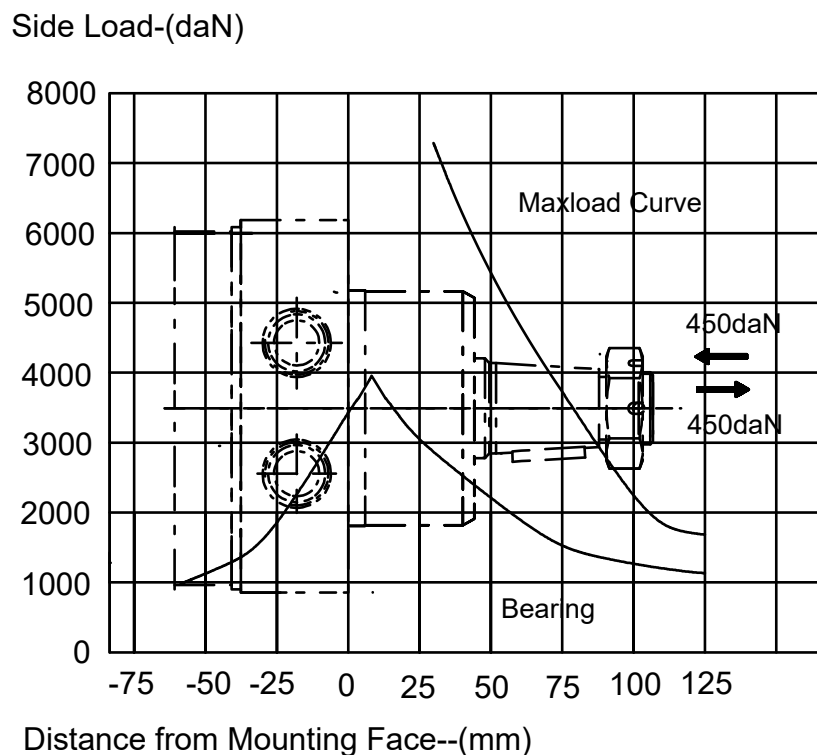
All numbers given are nominal values and should be used for reference only.

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EBMER-2 or M# / F# Mounting



EBMER-2 or W# Mounting



The bearing curve represents allowable bearing loads for an L10 bearing life at 12×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

EBMER-3 SERIES



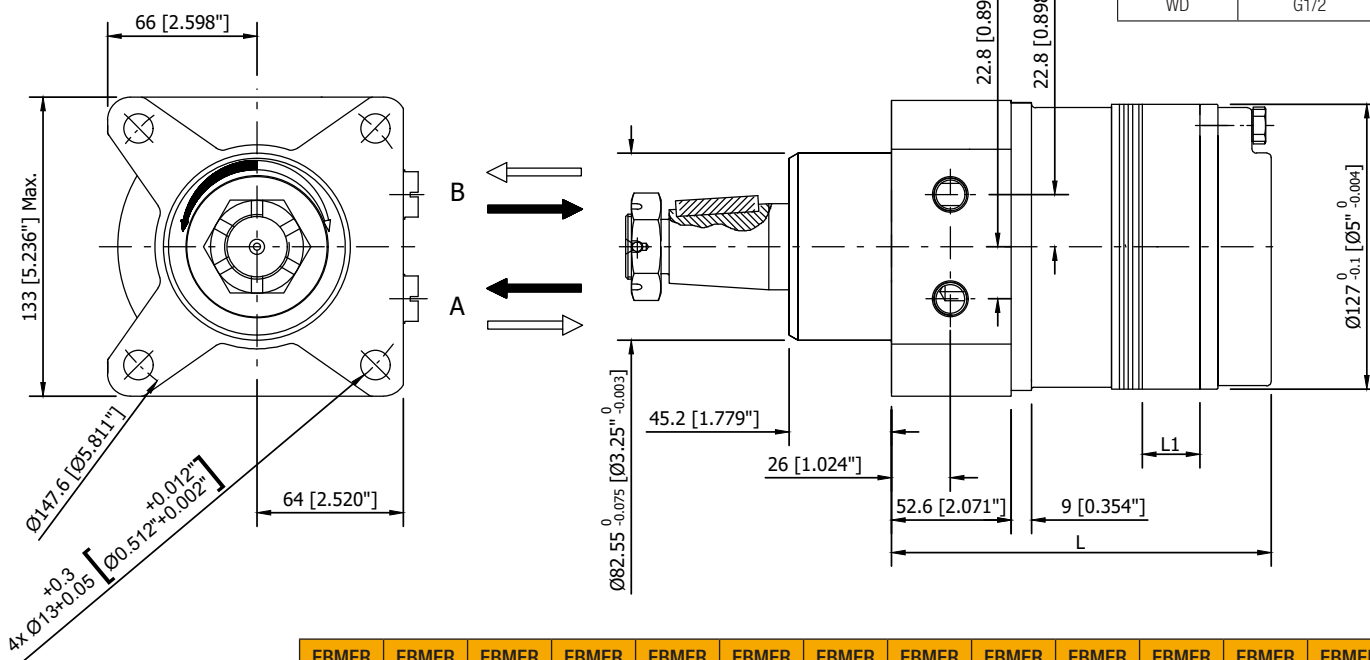
EBMER-3 ORDER INFORMATION

1	2	3	4	5	6	7	
EBMER		-		-		-	

1	2	3		4		5		6		7	
CODE	Displacement	Flange, Pilot, Port		Output Shaft		Rotation Direction		Paint		Unusually Function	
3	125	WS	4-Ø13.5 Wheel Mount, Pilot Ø82.55, Ports 7/8-14 O-Ring	M31	Shaft Ø35, Parallel Key 10x8x45	None	Standard	00	No Paint	None	Standard
	160	WP	4-Ø13.5 Wheel Mount, Pilot Ø82.55, Ports 1/2-14NPTF	T31	Cone-Shaft Ø1-1/2", Parallel Key 5/16" x 7mm x 1 7/16"	R	Reverse Timed	Omit	Black		
	200	WD	4-Ø13.5 Wheel Mount, Pilot Ø82.55, Ports G1/2	G31	Shaft Ø1-1/2", Parallel Key 3/8" x 3/8" x 42mm						
	230										
	250										
	300										
	350										
	375										
	400										
	475										
	540										
	650										
	750										

Note: From the order information table, please choose the right code for construction, displacement, flange, pilot, ports, output shaft, etc... If the specification is not in the table or you have specific requirements, please contact us.

WHEEL MOUNT



WHEEL MOUNT	
CODE	PORT A - B
WS	7/8-14UNF
WP	1/2-14NPTF
WD	G1/2

EBMER

		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	153 (6.024")	156 (6.142")	159.5 (6.28")	162 (6.378")	164.5 (6.476")	168 (6.614")	172 (6.772")	174.5 (6.87")	178 (7.008")	182 (7.165")	190 (7.48")	199.5 (7.854")	206 (8.11")
Weight	Lbs (kg)	29 (13.2)	29.7 (13.5)	30.4 (13.8)	30.8 (14)	31.2 (14.2)	31.9 (14.5)	32.8 (14.9)	33.4 (15.2)	34.1 (15.5)	34.5 (15.7)	36.3 (16.5)	38.1 (17.3)	39.2 (17.8)

All numbers given are nominal values and should be used for reference only.

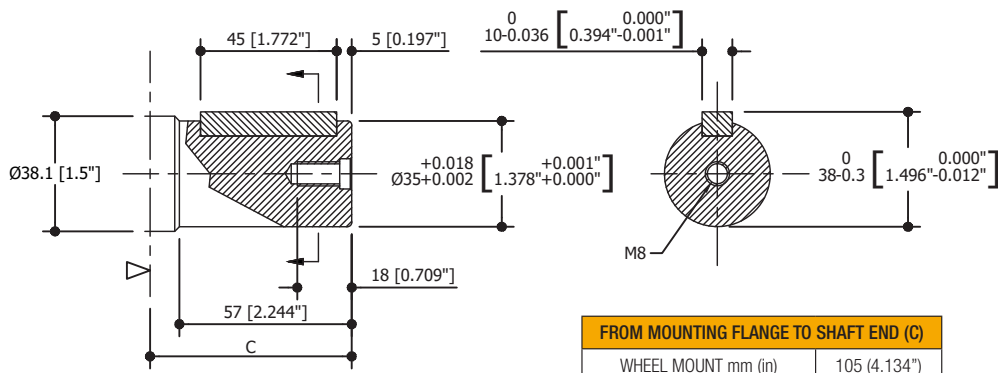
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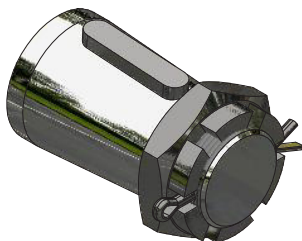


SHAFT M31

Cylindrical Shaft Ø35
Parallel Key 10 x 8 x 45
METRIC

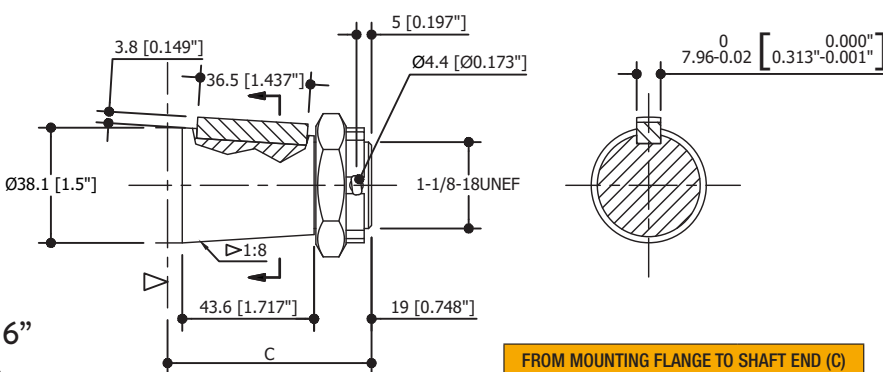


FROM MOUNTING FLANGE TO SHAFT END (C)	
WHEEL MOUNT mm (in)	105 (4.134")

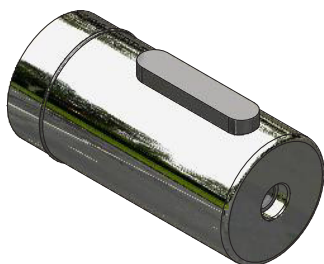


SHAFT T31

Cone-Shaft Ø1-1/2"
Parallel Key 5/16" x 7mm x 1- 7/16"
Tightening Torque: 410~510 Nm
IMPERIAL

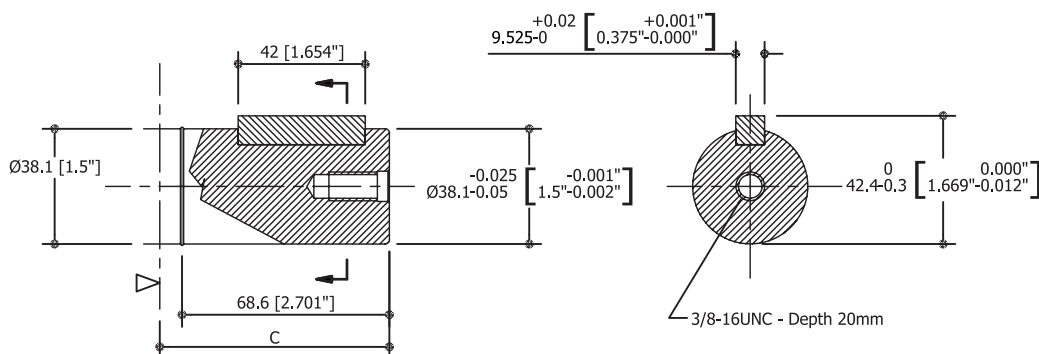


FROM MOUNTING FLANGE TO SHAFT END (C)	
WHEEL MOUNT mm (in)	117 (4.606")



SHAFT G31

Cylindrical Shaft Ø1-1/2"
Parallel Key 3/8" x 3/8" x 42mm
IMPERIAL



FROM MOUNTING FLANGE TO SHAFT END (C)	
WHEEL MOUNT mm (in)	119 (4.685")



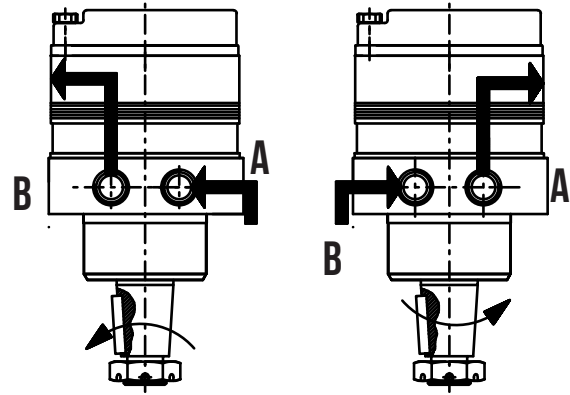
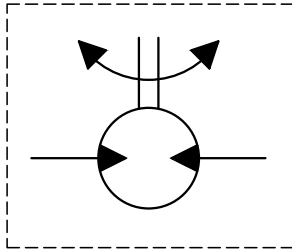
EBMER-3 SERIES HYDRAULIC MOTOR



EBMER-3 - DIRECTION OF SHAFT ROTATION : REVERSE TIMED

When facing shaft end of motor, shaft is rotating:

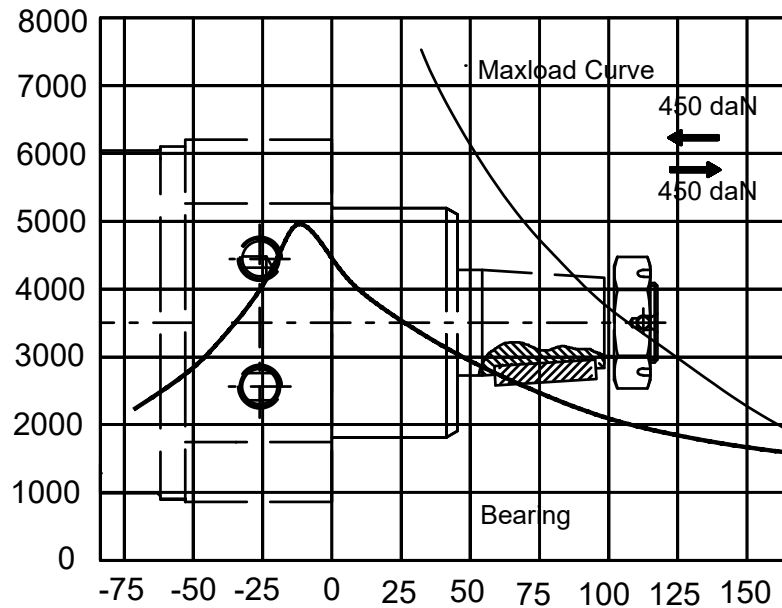
Clockwise when port "B" is pressurized.
Counter-Clockwise when port "A" is pressurized.



EBMER

EBMER-3 - FOR W# MOUNTING

Side Load-(daN)



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 12×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.



All numbers given are nominal values and should be used for reference only.

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EBMER-4 ORDER INFORMATION

2 3 4 5 6 7

EBMER - - - - -

1	2	3		4		5		6		7	
CODE	Displacement	Flange		Output Shaft		Rotation Direction		Paint		Unusually Function	
4	125	WS	4-Ø13.5 Wheel Mount, Pilot Ø89 x 20, Ports 7/8-14 O-Ring	G2	Shaft Ø1-1/4", Parallel Key 5/16" x 7mm x 36.5mm	Blank	Standard	00	No Paint	Blank	Standard
	160	WP	4-Ø13.5 Wheel Mount, Pilot Ø89 x 20, Ports 1/2-14NPTF	B1	Shaft Ø32, Parallel Key 10 x 8 x 36	R	Reverse Timed	Omit	Black		
	200	WD	4-Ø13.5 Wheel Mount, Pilot Ø89 x 20, Ports G1/2	FD1	Shaft Ø1-1/4", Splined Key 14-DP12/24						
	230			T4	Cone-Shaft Ø1-1/4", Parallel Key 5/16" x 5/16" x 1"						
	250			RW	Shaft Ø1", Parallel Key 1/4" x 1/4" x 1-1/4"						
	300			SW	Shaft Ø1", Splined Key SAE 6B						
	350			AW	Shaft Ø25, Parallel Key 8 x 7 x 32						
	375										
	400										
	475										
	540										
	650										
	750										

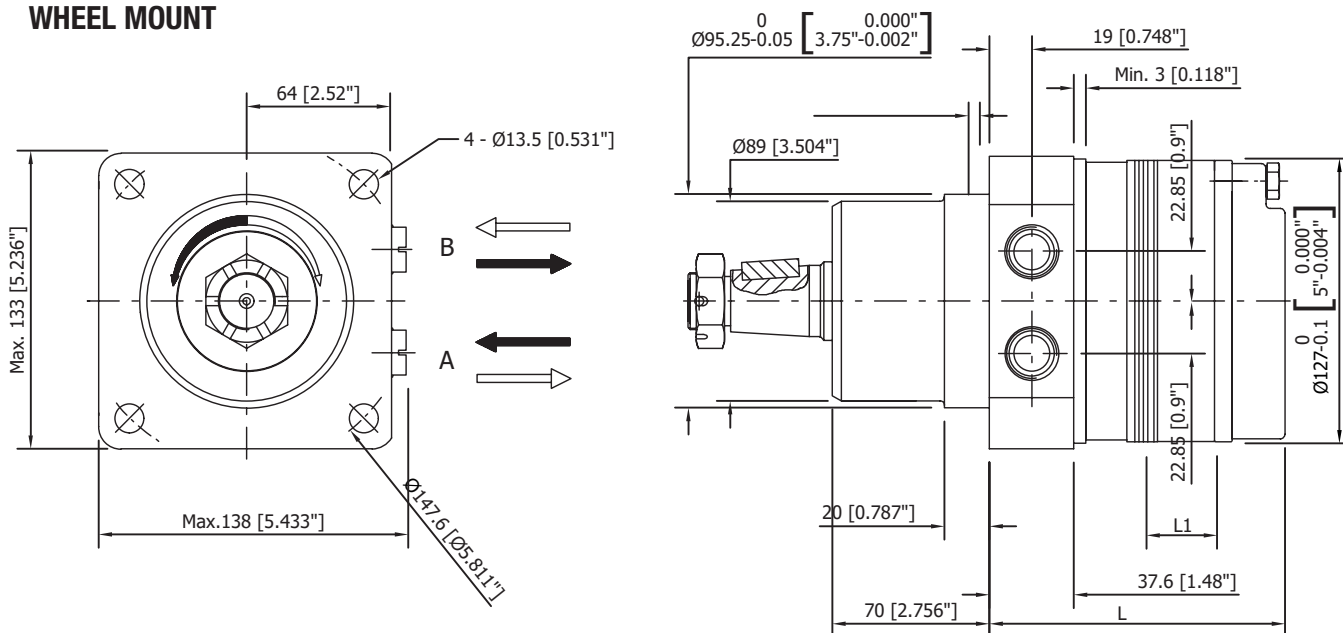
Note: From the order information table, please choose the right code for construction, displacement, flange, output shaft, etc... If the specification is not in the table or you have specific requirements, please contact us.

WHEEL MOUNT	
CODE	PORT A - B
WS	7/8-14UNF
WP	1/2-14NPTF

Note: From the order information table, please choose the right code for construction, displacement, flange, output shaft, etc... If the specification is not in the table or you have specific requirements, please contact us.

WHEEL MOUNT	
CODE	PORT A - B
WS	7/8-14UNF
WP	1/2-14NPTF
WD	G1/2

WHEEL MOUNT



		EBMER 125	EBMER 160	EBMER 200	EBMER 230	EBMER 250	EBMER 300	EBMER 350	EBMER 375	EBMER 400	EBMER 475	EBMER 540	EBMER 650	EBMER 750
Geometric displacement	in ³ /rev (cm ³ /rev.)	7.2 (118)	9.52 (156)	11.96 (196)	13.91 (228)	15.68 (257)	18.06 (296)	21.05 (345)	22.64 (371)	24.71 (405)	28.19 (462)	32.95 (540)	39.48 (647)	45.46 (745)
L1	mm (in)	10.2 (0.402")	13.5 (0.531")	17 (0.669")	19.5 (0.768")	22 (0.866")	25.4 (1")	29.5 (1.161")	31.8 (1.252")	35.5 (1.398")	39.4 (1.551")	47.3 (1.862")	57 (2.244")	63.5 (2.5")
L	mm (in)	119 (4.685")	122 (4.803")	125.5 (4.941")	128 (5.039")	130.5 (5.138")	134.5 (5.295")	138 (5.433")	140.5 (5.531")	144.5 (5.669")	148 (5.827")	156 (6.142")	165.5 (6.516")	172 (6.772")
Weight	Lbs (kg)	28.2 (12.8)	28.8 (13.1)	29.5 (13.4)	29.9 (13.6)	30.4 (13.8)	31 (14.1)	31.9 (14.5)	32.6 (14.8)	33.4 (15.2)	34.3 (15.6)	35.4 (16.1)	37.2 (16.9)	38.3 (17.4)

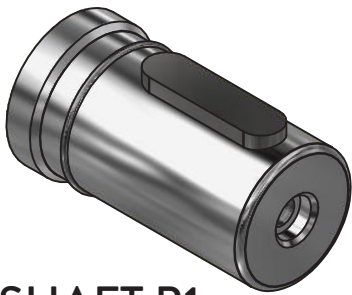
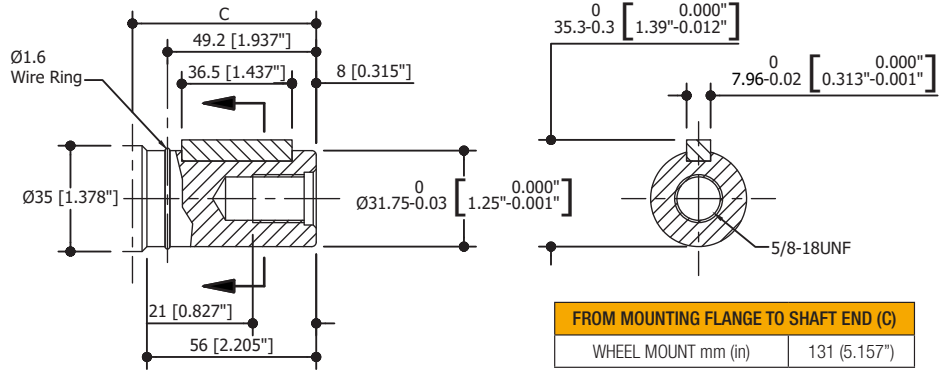
EBMER-4 SHAFT EXTENSIONS

DIMENSIONS



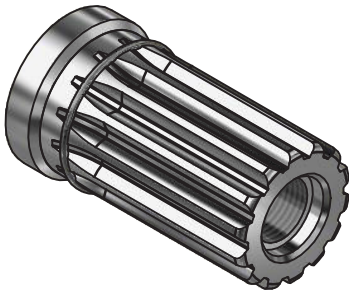
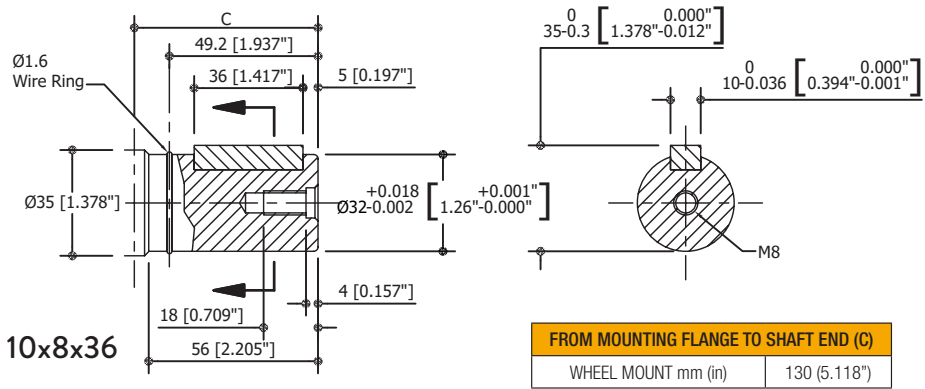
SHAFT G2

Cylindrical Shaft $\varnothing 1\text{-}1/4"$
Parallel Key $5/16" \times 7 \times 36.5$
IMPERIAL



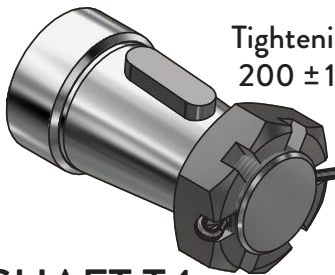
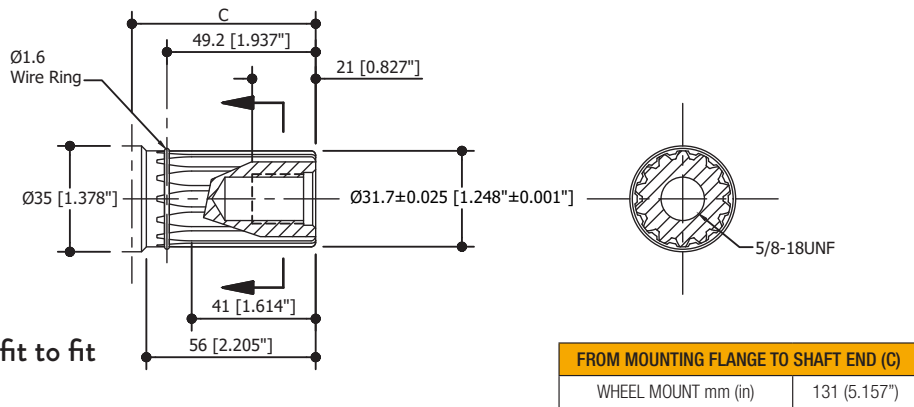
SHAFT B1

Cylindrical Shaft $\varnothing 32$ - Parallel Key $10 \times 8 \times 36$
METRIC



SHAFT FD1

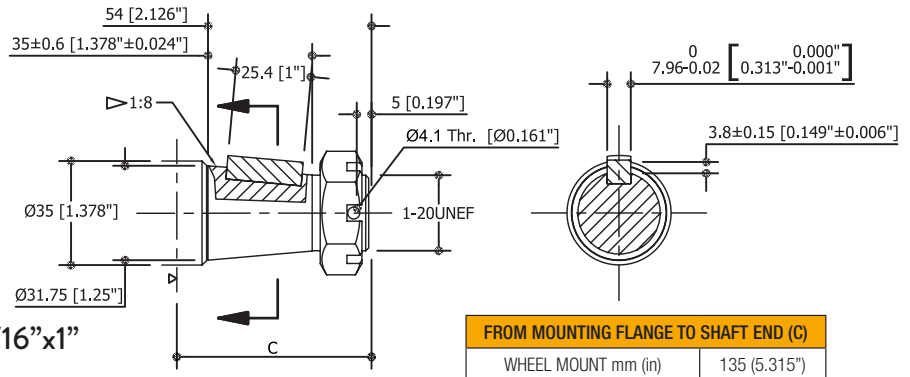
Splined 14-DP12/24 Flat root side fit to fit
ANSI B92.1 1996
IMPERIAL



Tightening Torque:
 $200 \pm 10\text{Nm}$

SHAFT T4

Cone-Shaft $\varnothing 1\text{-}1/4"$ - Parallel Key $5/16" \times 5/16" \times 1"$
IMPERIAL

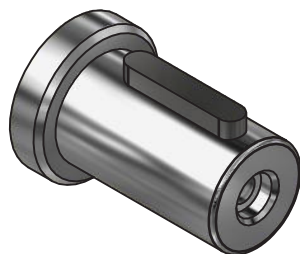


All numbers given are nominal values and should be used for reference only.

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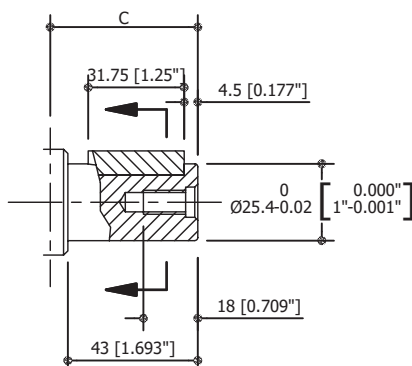
EBMER-4 SHAFT EXTENSIONS DIMENSIONS

EBMER



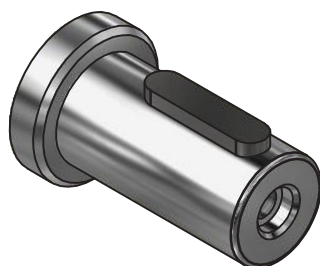
SHAFT RW

Cylindrical Shaft $\varnothing 1"$ - Parallel Key $1/4" \times 1/4" \times 1-1/4"$
IMPERIAL



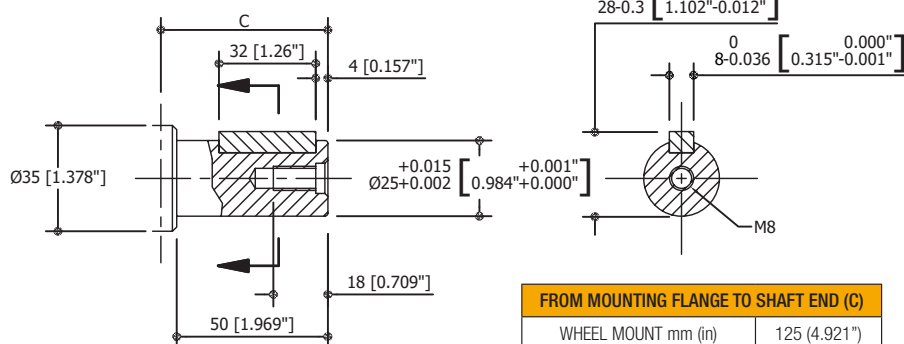
FROM MOUNTING FLANGE TO SHAFT END (C)

WHEEL MOUNT mm (in)	119 (4.685")
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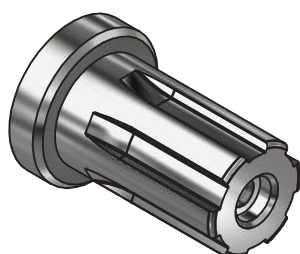
SHAFT AW

Cylindrical Shaft $\varnothing 25$
Parallel Key $8 \times 7 \times 32$
METRIC



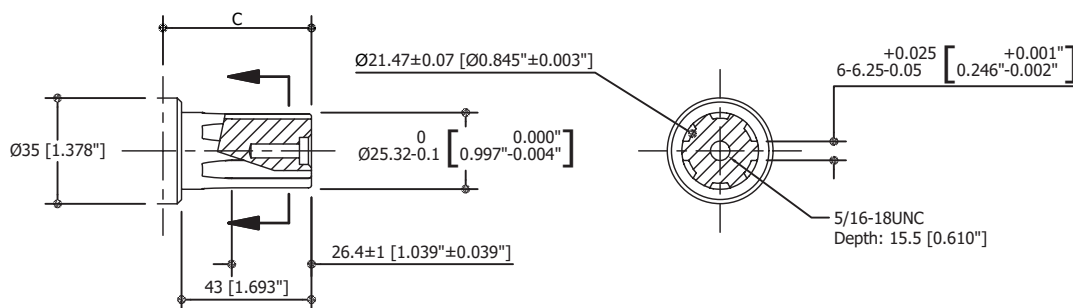
FROM MOUNTING FLANGE TO SHAFT END (C)

WHEEL MOUNT mm (in)	125 (4.921")
---------------------	--------------



SHAFT SW

Splined SAE 6B
METRIC



FROM MOUNTING FLANGE TO SHAFT END (C)

WHEEL MOUNT mm (in)	119 (4.685")
---------------------	--------------

EBMER-4 can be configured $\varnothing 1-1/2"$ (38.1mm) shaft seal.



EBMER-4 SERIES HYDRAULIC MOTOR

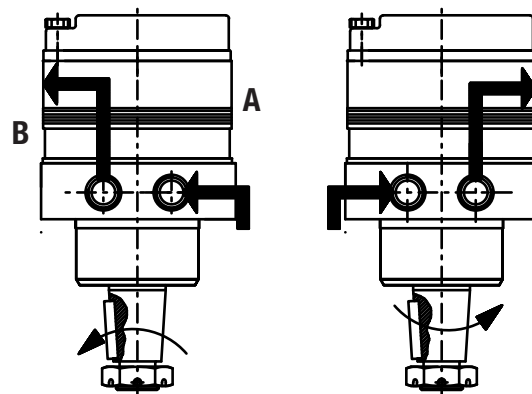
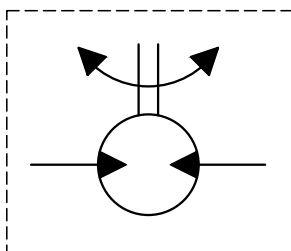


EBMER-4 - DIRECTION OF SHAFT ROTATION : REVERSE TIMED

When facing shaft end of motor, shaft is rotating:

Clockwise when port "B" is pressurized.

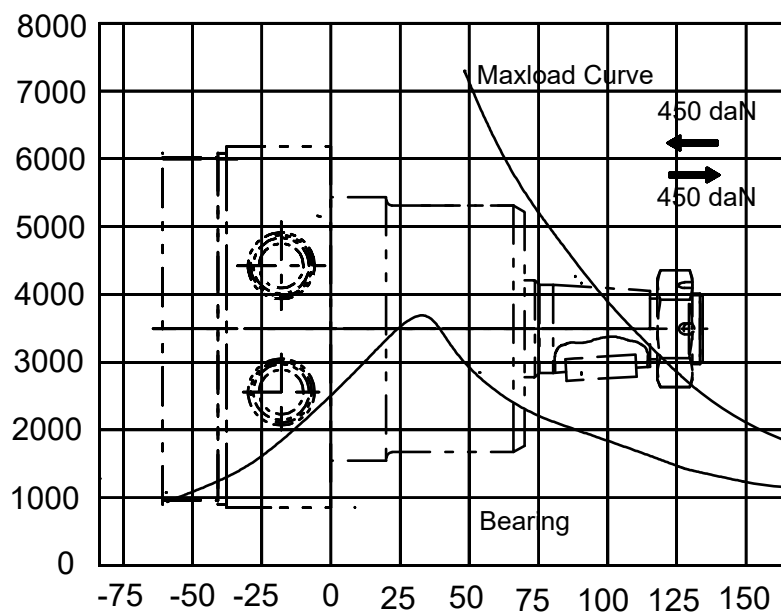
Counter-Clockwise when port "A" is pressurized.



EBMER

EBMER-4 - FOR W# MOUNTING

Side Load-(daN)



The bearing curve represents allowable bearing loads for an L_{10} bearing life at 12×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock load



All numbers given are nominal values and should be used for reference only.

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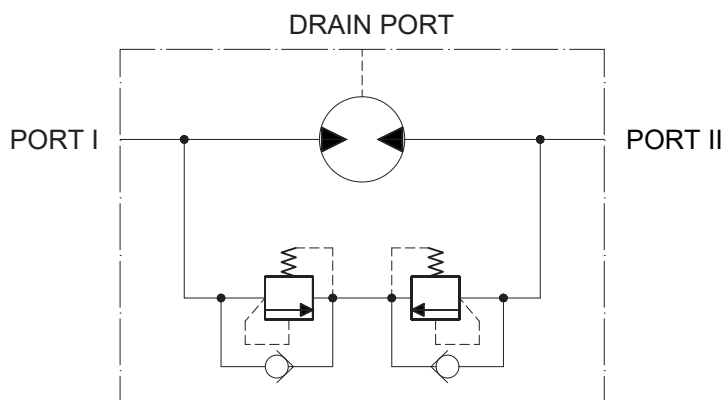
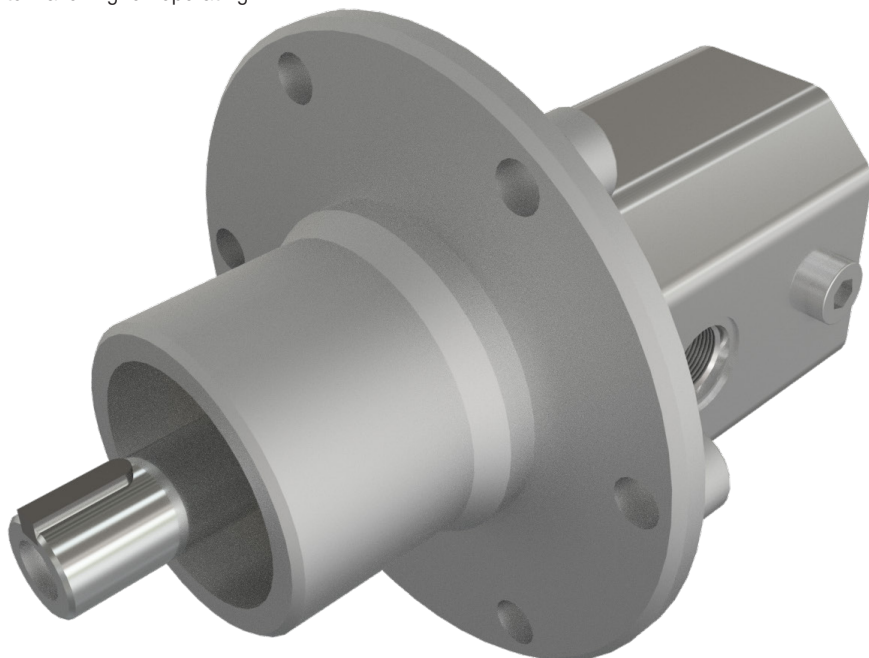
EGM02 serie motor has a body made of cast to have higher operating parameters.

FEATURES

- Low noise
- Higher efficiency
- Built-in valves
- High operating pressures

APPLICATIONS

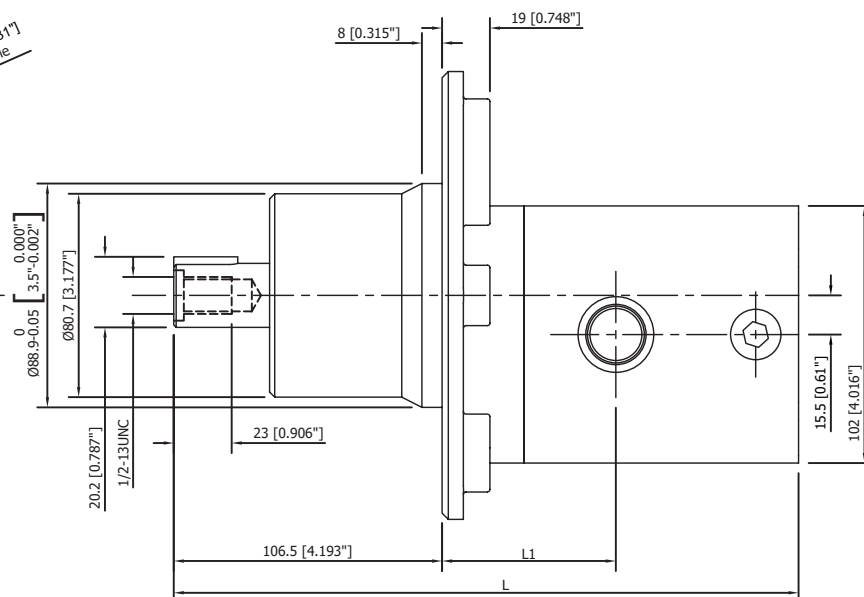
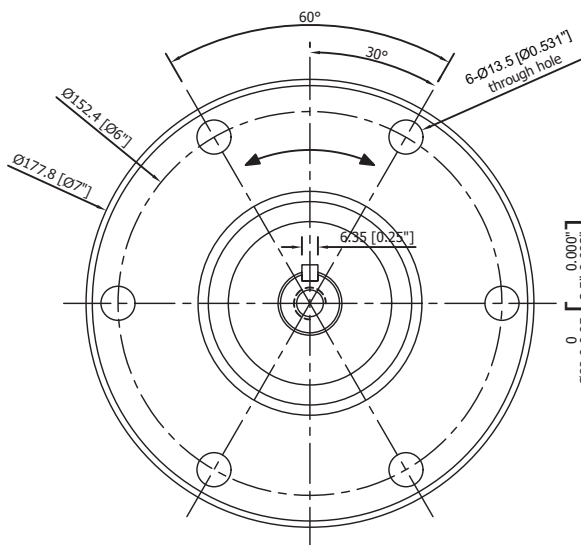
- Fan Drive
- Building & Construction
- Material Handling



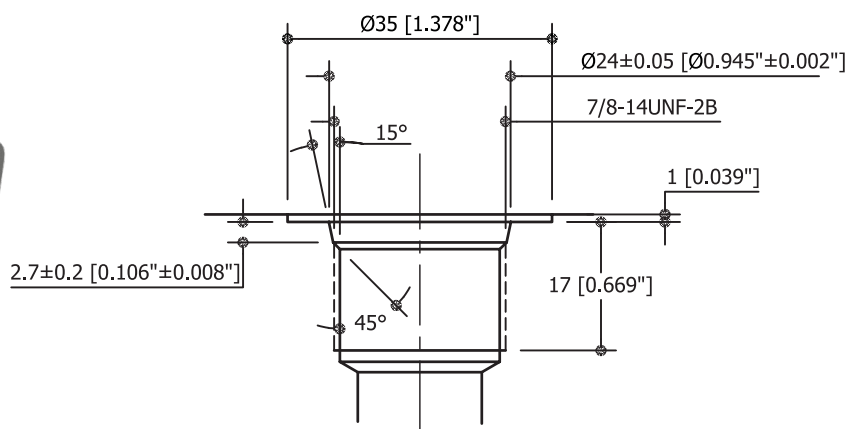
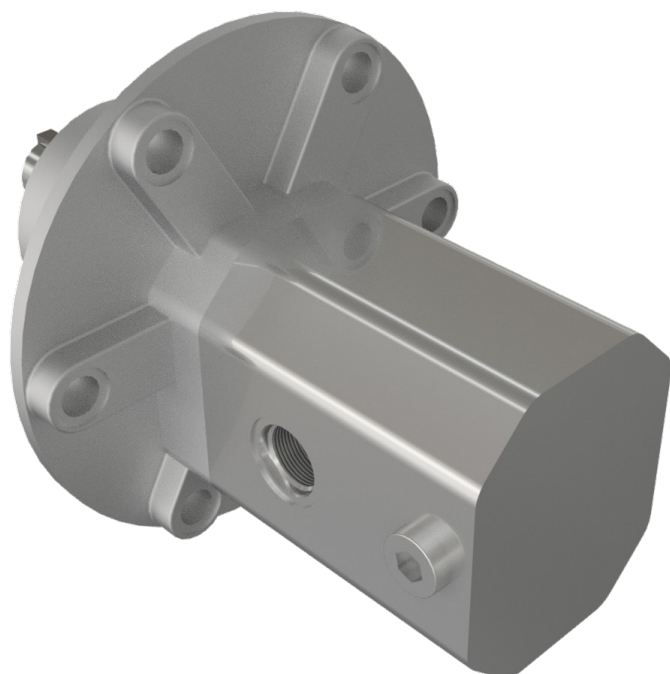
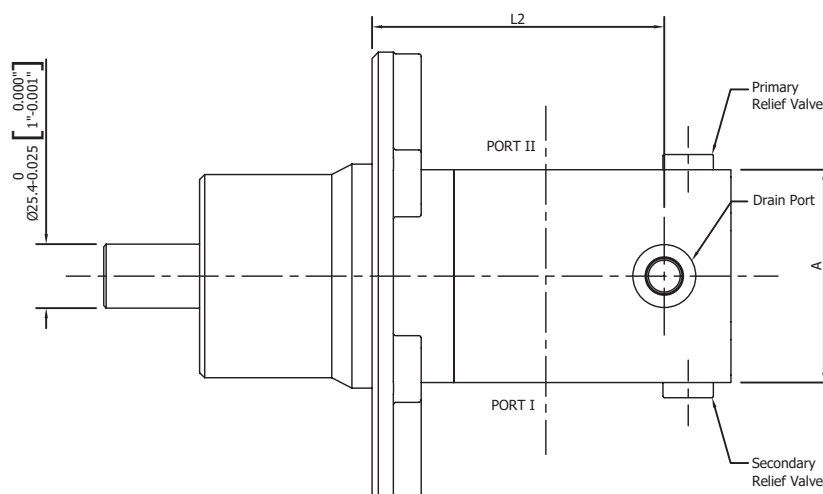
HYDRAULIC SCHEMATICS

SPECIFICATIONS		EGM02-14.4	EGM02-19
Displacement	in ³ /rev (cm ³ /rev)	0.88 (14.4)	1.16 (19)
Pressure	PSI (bar)	3045 (210)	
Operating Speed	rpm	600-3000	
Shaft Diameter	in (mm)	1" (25.4mm)	
Parallel Key	in (mm)	1/4" x 1/4" x 1-1/4" (6.35x6.35x31.75)	
Ports and Drain Port		7/8-14UNF, 7/16-20UNF	7/8-14UNF, 9/16-18UNF
Primary Relief Valve Pressure Pre-Setting	PSI (bar)	1740 (120)	
Secondary Relief Valve Pressure Pre-Setting	PSI (bar)	435 (30)	

* For other availability, please contact us.



DIMENSIONS	EGM02-14.4	EGM02-19
L	239 [9.409"]	248 [9.764"]
L1	64 [2.520"]	69 [2.717"]
L2	108 [4.252"]	116 [4.567"]
A	82 [3.228"]	84.5 [3.327"]

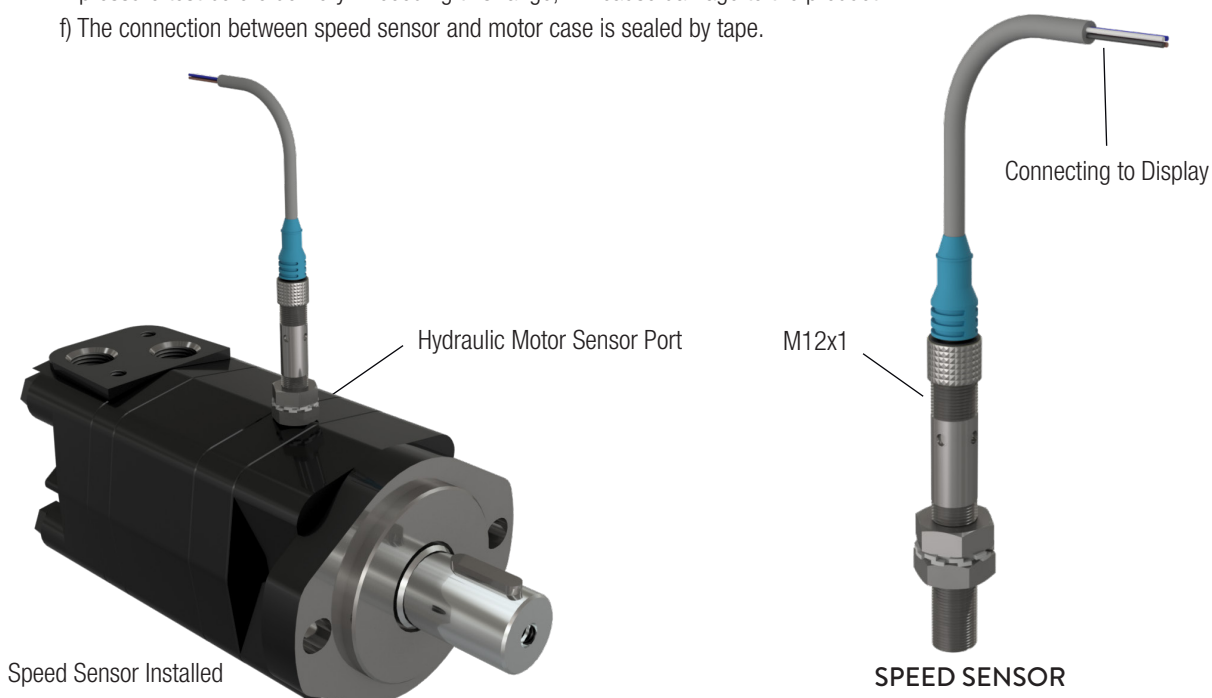


PORT SIZE

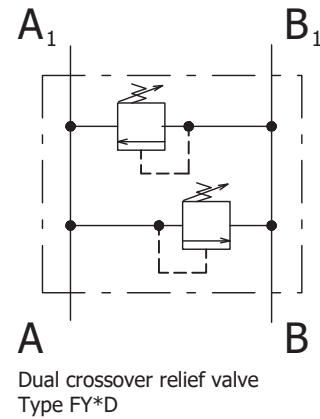
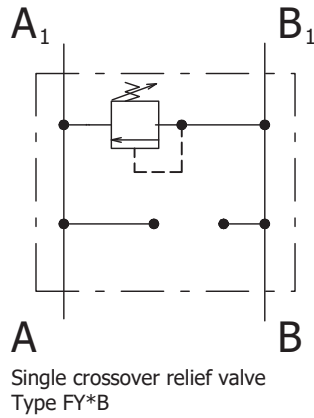
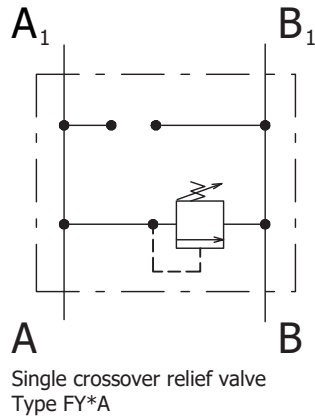
**Option of speed sensor is available for several series of hydraulic motors (EBMM, EBMP, EBMR, EBMSY, etc.), please contact us before ordering.

INSTRUCTIONS AND PRECAUTIONS OF HYDRAULIC MOTOR WITH SPEED SENSOR

1. Refer to user guide provided in the catalog for motor's use guidelines and precautions.
2. Main technical information of the sensor:
 - a) Temperature range: -25~70°C
 - b) Frequency response: 0~33KHZ
 - c) Working voltage: 12~30V
 - d) Output signal: pulse signal output
 - e) Connection method: brown to VT, black to OUT, blue to GND.
 - f) Measuring distance: 1.5mm (the actual measured distance is based on the stable output signal, need to calibrate during installation of the sensor.)
 - g) Number of detected teeth on the shaft: 35 teeth
3. Utilisation guide of the sensor and precautions:
 - a) Connection method: brown to VT, black to OUT, blue to GND.
 - b) No large magnet or strong magnet should be placed near the sensor when it is operating.
 - c) Careful considerations should be made during shipping and handling to avoid damages to the magnetic parts of the sensor caused by shocks or vibrations.
 - d) The sensor and motor have been installed and calibrated by the manufacturer, so, the sensor can be directly connected to display. It is strictly forbidden to disassemble the sensor without the manufacturer's instructions, otherwise, it may cause damage of sensor or cause inaccurate measurement.
 - e) The pressure capacity of the sensor is 18MPa (2600 PSI), all sensors have been subjected to 20MPa (2900 PSI) pressure test before delivery. Exceeding this range, will cause damage to the product.
 - f) The connection between speed sensor and motor case is sealed by tape.

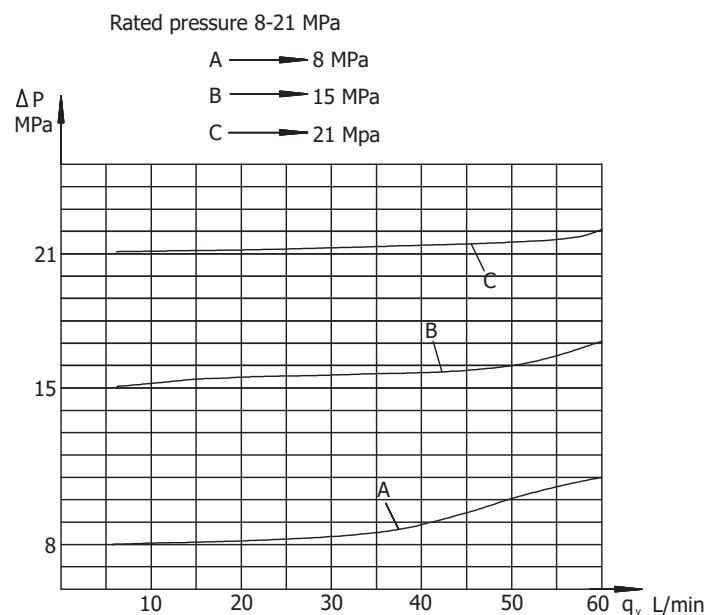
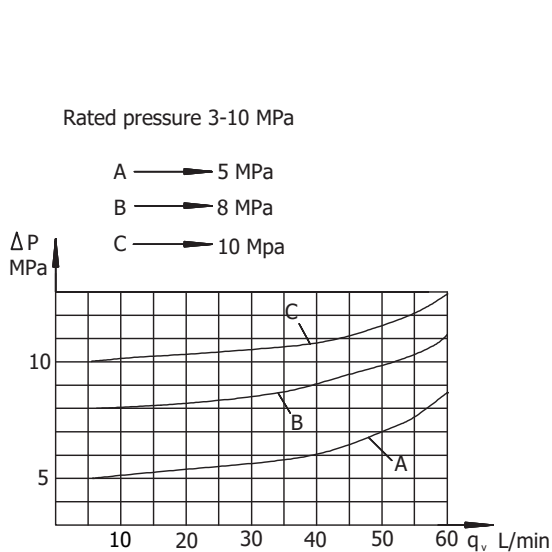


CROSSOVER RELIEF VALVE

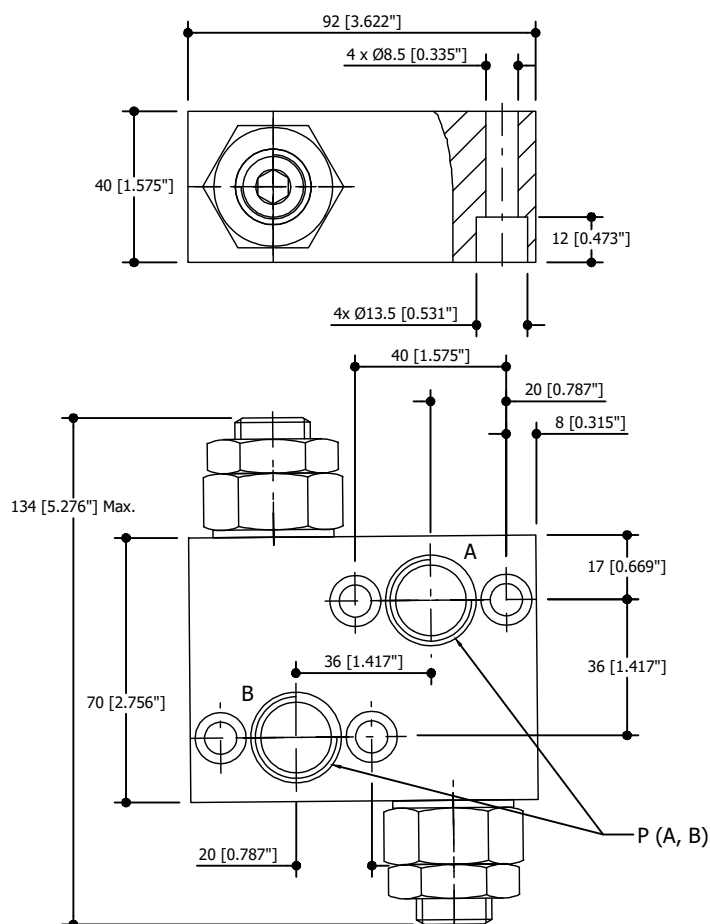


SPECIFICATION DATA

		TYPE				
		FYRHD	FYSHD	FYSD	FYRH	FYSH
Flow Rate	GPM (L/min)	15.87 (60)				
Pressure Range	PSI (bar)	[435 (30) - 1450 (100)] ; [1160 (80) - 3046 (210)]				
Weight	lbs (Kg)	3.7 (1.7)	4 (1.8)	4 (1.8)	3.4 (1.55)	3.6 (1.65)



DUAL CROSSOVER RELIEF VALVE TYPE FYRHD



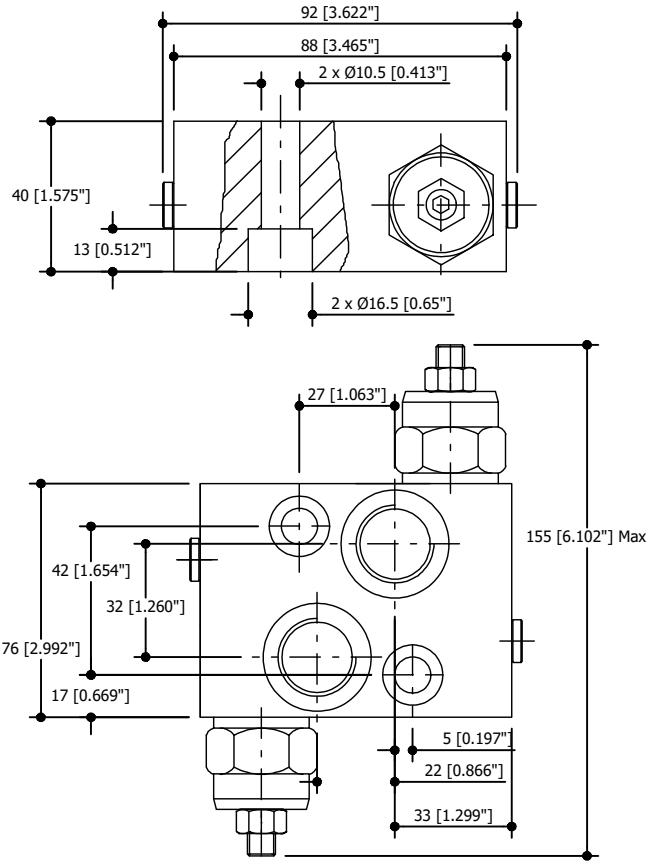
CODE	P (A, B) [Depth mm(in.)]
D	G1/2 [18 (0.71\"/>
M	M22x 1.5 [18 (0.71\"/>
S	7/8-14UNF [18 (0.71\"/>
P	1/2-14NPTF [18 (0.71\"/>

Note: FYRHD Blocks are installed directly on EBMR and EBMP Motors with four bolts 5/16-18UNC, 40mm long or M8x40-8.8, DIN912

CROSSOVER RELIEF VALVES FOR EBMS SERIES HYDRAULIC MOTORS



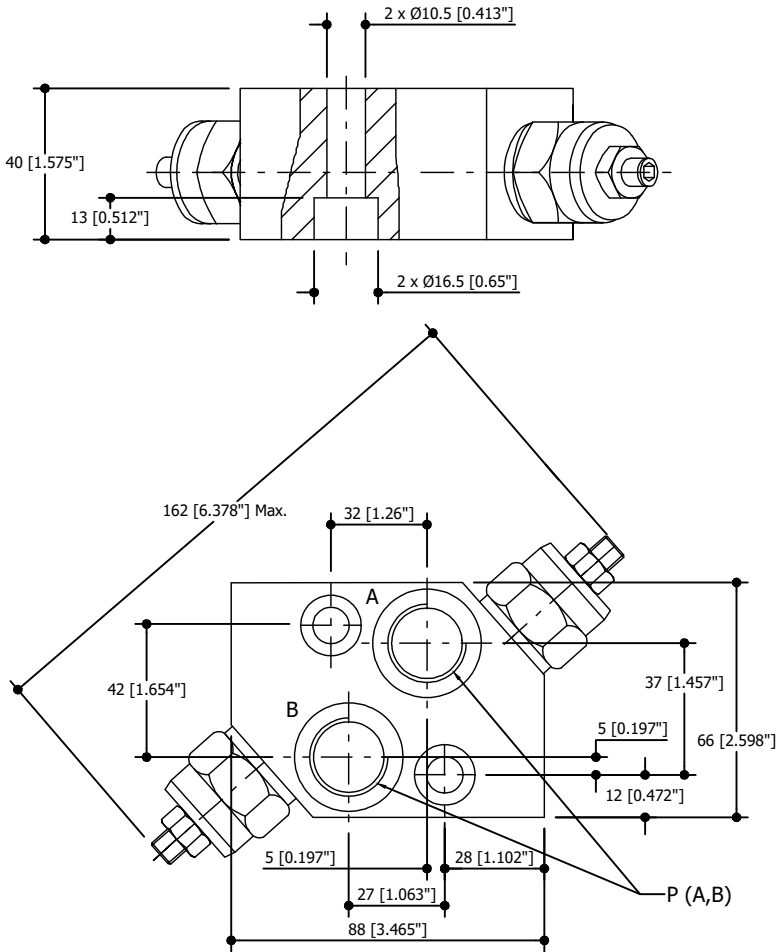
DUAL CROSSOVER RELIEF VALVE TYPE FYSD



CODE	P (A, B) [Depth mm(in.)]
D	G1/2 [18 (0.71\"/>
M	M22x 1.5 [18 (0.71\"/>
S	7/8-14UNF [18 (0.71\"/>

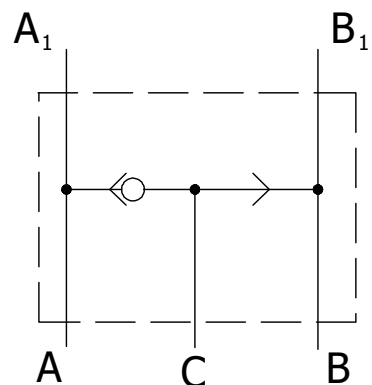
Note: FYSHD Blocks are installed directly on EBMS Motors with two bolts 3/8-16UNC, 40mm long or M10x40-8.8, DIN912

DUAL CROSSOVER RELIEF VALVE TYPE FYSHD

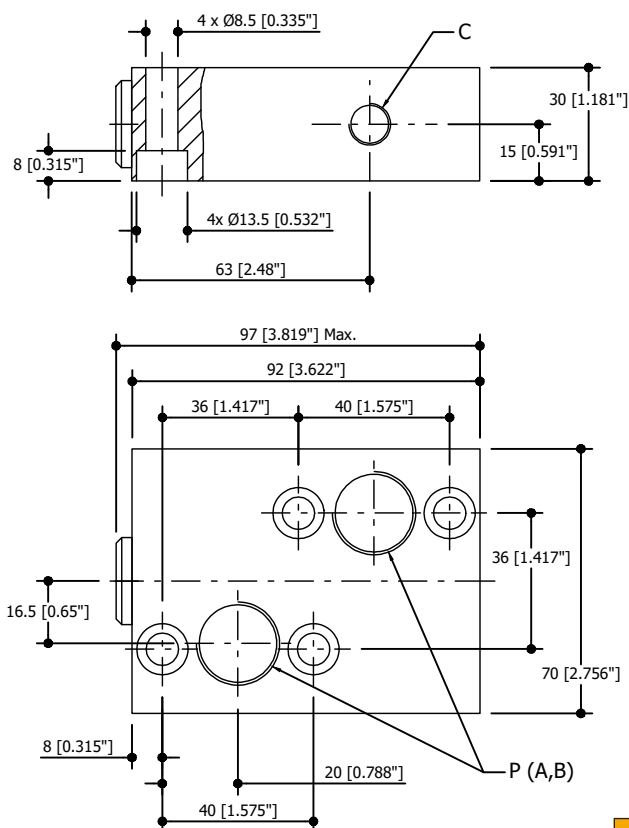


SPECIFICATION DATA

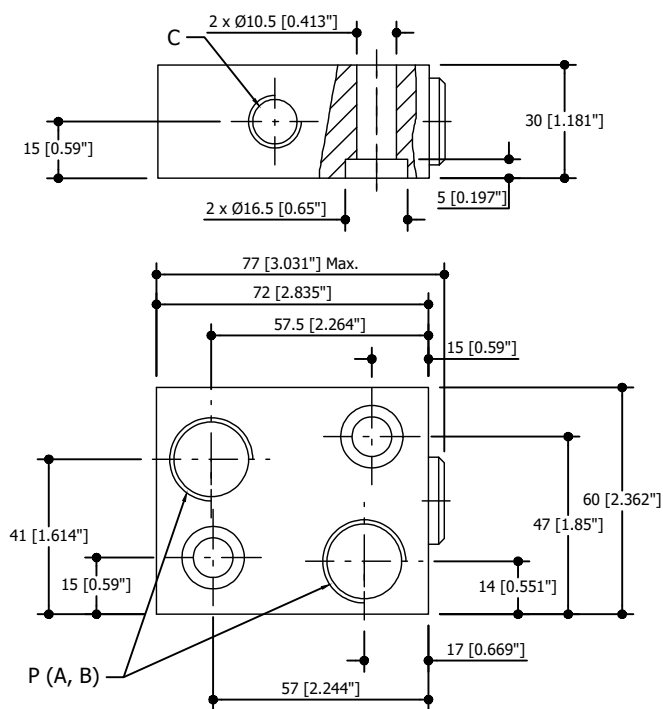
		TYPE	
		FSR	FSS
Flow Rate	GPM (L/min)	15.87 (60)	
Rated pressure	PSI (bar)	3626 (250)	
Weight	lbs (Kg)	2 (0.9)	1.5 (0.7)



SWITCH VALVE FSR



SWITCH VALVE FSS



CODE	P (A, B) [Depth mm(in.)]	C [Depth mm(in.)]
D	G1/2 [17 (0.67\"]	G1/4 [14 (0.55\"]
M	M22x 1.5 [17 (0.67\"]	M14x 1.5 [14 (0.55\"]
S	7/8-14UNF [17 (0.67\"]	7/16-20UNF [12.7 (0.5\"]

Note: FSR Blocks are installed directly on EBMR and EBMP Motors with four bolts 5/16-18UNC, 35mm long or M835-8.8; FSS Blocks are installed directly on EBMS Motors with two bolts 3/8-16UNC, 35mm long or M1040-8.8 DIN912

CROSSOVER RELIEF & SWITCH VALVES ORDER INFORMATION

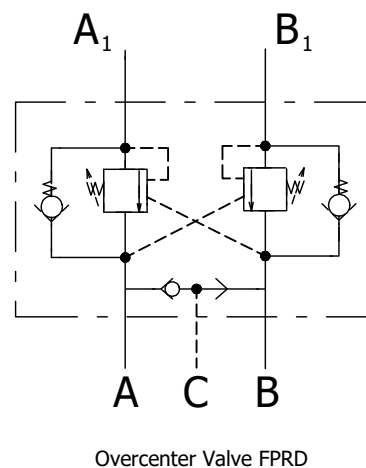
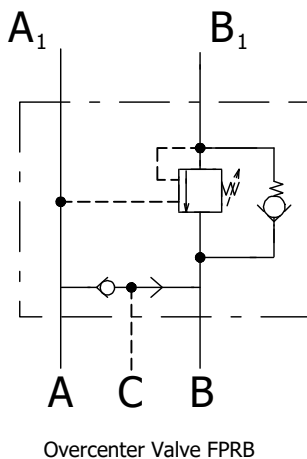
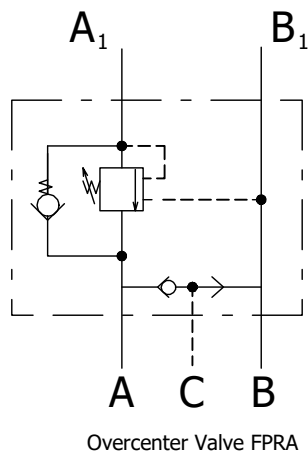
	1		2		3		4		5		6		7
F		-		-		-		-		-		-	

1		2		3		4		5		6		7	
Type		Housing Type		Number of Spool		Pressure Settings Mpa		Flow Rate L/min		Ports		Paint	
Y	Crossover Relief Valves	RH	EBMR, EBMP	A	Port A one valve-single	10	3-10 standard settings 10Mpa	Omit	60	D	G 1/2	00	No Paint
		SH	EBMS	B	Port B one valve single	21	8-21 standard settings 21Mpa			M	M22 x 1.5	Omit	Black
		S	EBMS	D	Two valves-dual					S	7/8-14UNF		
S	Switch Valve	R	EBMR, EBMP							P	1/2-14NPTF		
		S	EBMS										

VALVES

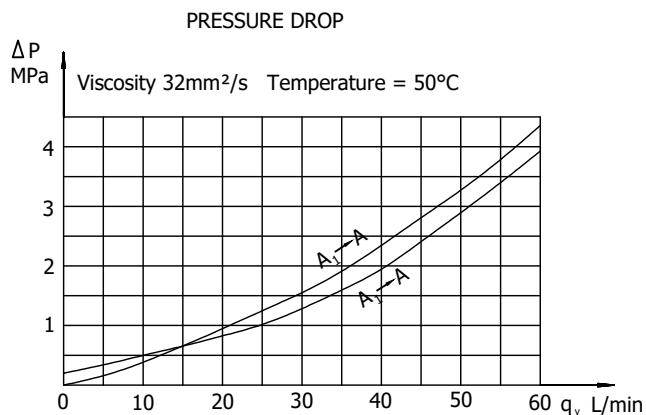
Note: From the order information table, please choose the right code for valve type, motor housing type, number of spool, pressure settings, flow rate, ports and paint. If you can't find any specification here, or if you need special requirement, please contact us.





SPECIFICATION DATA

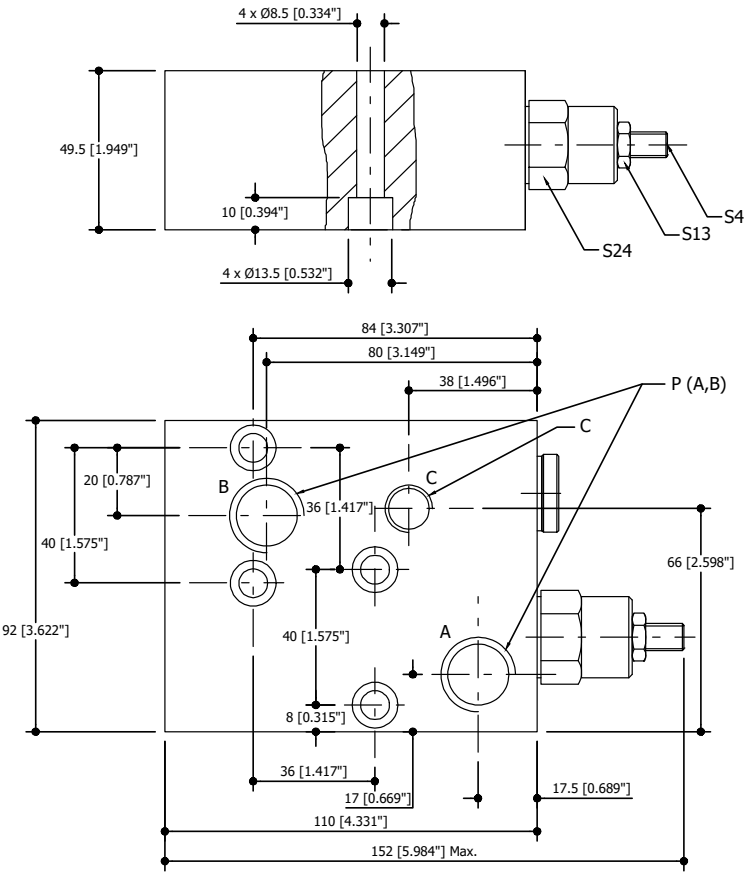
		TYPE	
		FPRB (B)	FPRD
Flow Rate	GPM (L/min)	15.87 (60)	
Pressure Range	PSI (bar)	[1015 (70) - 3626 (250)]	
Pilot Ratio		4.25 : 1	
Weight	lbs (Kg)	7.3 (3.3)	7.4 (3.35)



OVERCENTER VALVE FOR EBMR MOTOR



OVERCENTER VALVE FPRA

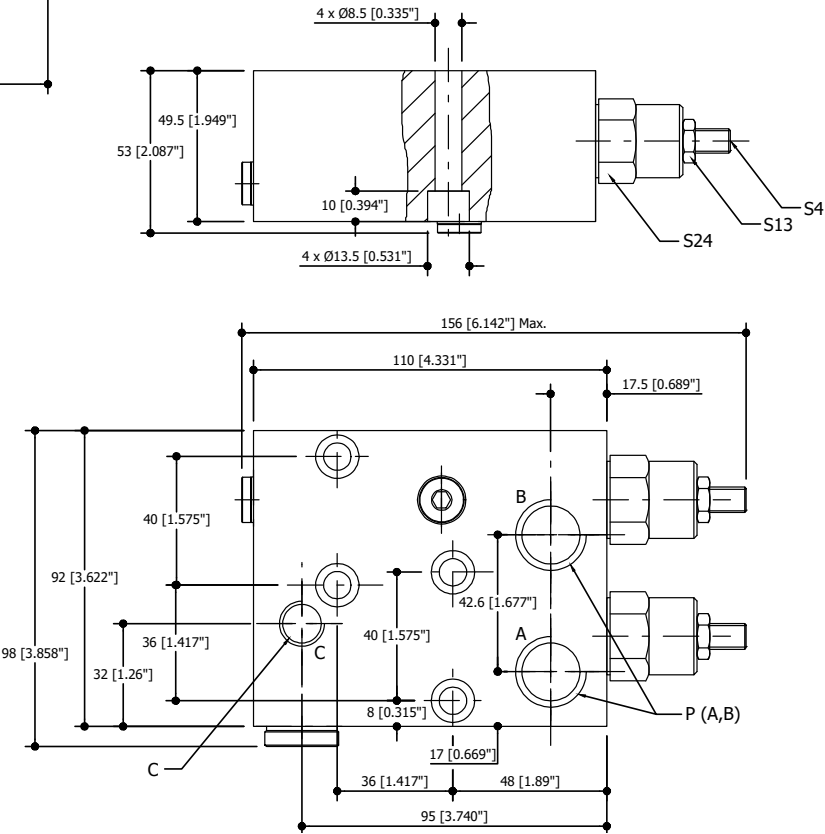


CODE	P (A, B) [Depth mm(in.)]	C [Depth mm (in.)]
D	G1/2 [18 (0.71")]	G1/4 [14 (0.55")]
M	M22x 1.5 [18 (0.71")]	M14x 1.5 [14 (0.55")]
S	7/8-14UNF [18 (0.71")]	7/16-20UNF [14 (0.55")]

Note: Valve FPR(D) is used together with EBMP or EBMR motor, 4 bolts thread; 5/16-18UNC or M8x50 grade 8.8

VALVES

OVERCENTER VALVE FPRD



OVERCENTER VALVES ORDER INFORMATION

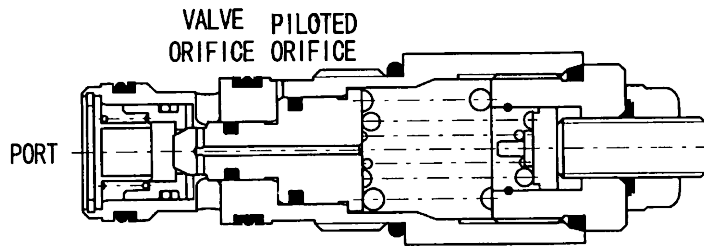
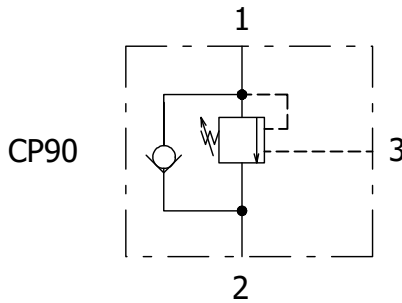
1 2 3 4 5 6 7

F - - - - - -

1		2		3		4		5		6		7	
Type		Motor Housing Type		Number of Spool		Pressure Settings Mpa		Flow Rate L/min		Ports, Brake Port		Paint	
P	Overcenter Valves	R	EBMR	A	Port A one valve-single	7-25		Omit	60	D	G1/2, G1/4	00	No Paint
				B	Port B one valve single					M	M22x1.5, M14x1.5	Omit	Black
				D	Two valves-dual					S	7/8-14UNF, 7/16-20UNF		

Note: From the order information table, please choose the right code for valve type, motor housing type, number of spool, pressure settings, port braking port and paint. If you can't find any specification here, or if you need special requirement, please contact us.

CARTRIDGE TYPE OVERCENTER VALVE



OPERATION

The check valve allows free flow from port ② to port ① while a direct-acting, pilot-assisted relief valve controls flow from port ① to port ②. Pilot assist at port ③ lowers the effective setting of the relief valve at a rate determined, by the pilot ratio.

FEATURES

Counterbalance valves should be set at least 1.3 times the maximum load induced pressure, backpressure at port ② adds to the effective relief setting at a ratio of ① plus the pilot ratio times the backpressure.

SPECIFICATIONS

Maximum Pressure: 27Mpa

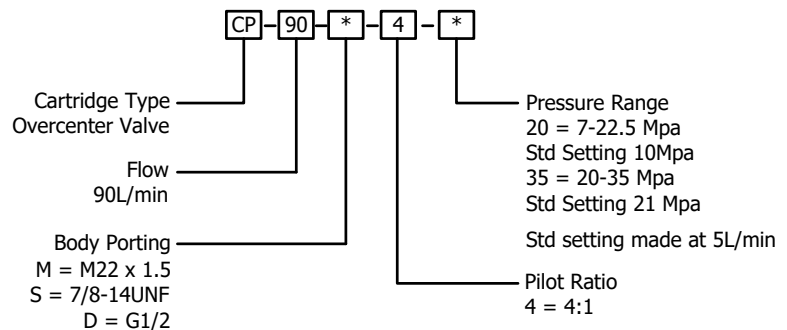
Relief Valve Setting: 35Mpa

Rated Flow: 90L/min

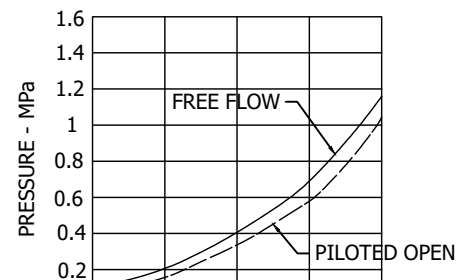
Leakage: 5 drops/min

Temperature: -20°C ~ 90°C

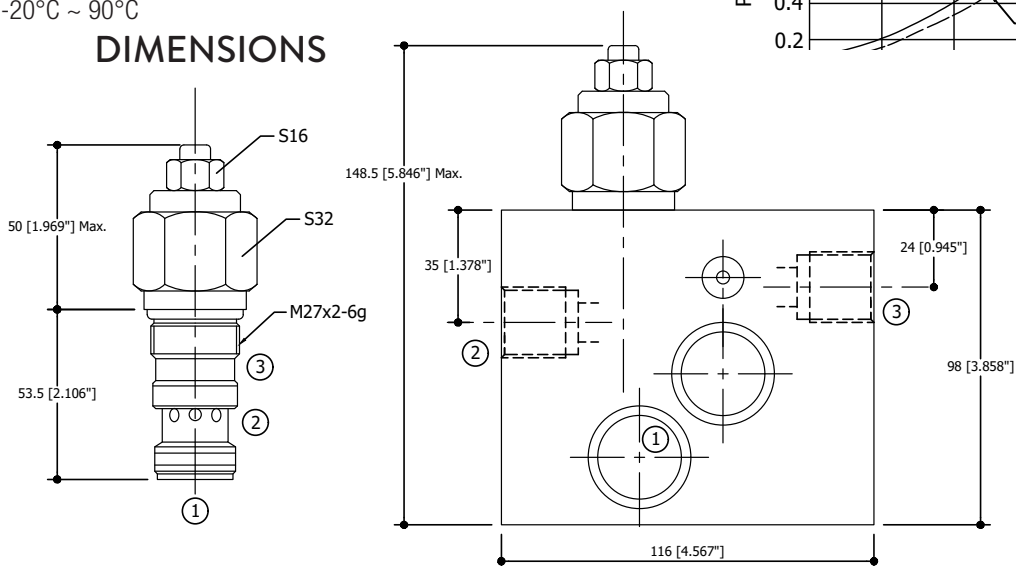
ORDER INFORMATION



PRESSURE DROP CURVE



DIMENSIONS



All numbers given are nominal values and should be used for reference only.

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EBK10 series static wet hydraulic brake is suitable for lower speed application of scissors type aerial work platform and agricultural machinery and others with wheel mounting.

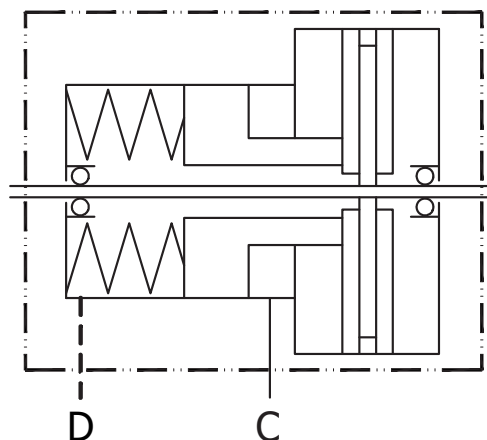
FEATURES

- The output shaft adopts the same heavy duty roller bearing in front and behind, which offers bigger ability on radial load.
- It adopts optimized disc brake piece and spring load, for reliable braking and good endurance.
- Optimized piston and loading mechanism, providing the minimum dimension of wheel connection method.
- Big braking torque, suitable for static braking.

MAIN SPECIFICATIONS

		EBK10-1	EBK10-2
Min. Static Torque	lbf•ft (N•m)	848.7 (1150)	1254.6 (1700)
Release Pressure	PSI (bar)	406 (28)	
Max. Release Pressure	PSI (bar)	3050 (210)	
Max. Speed	rpm	300	
Release Volume	in ³ (cm ³)	0.73 (12)	
Oil Volume	in ³ (cm ³)	6.1 (100) ~ 7.32 (120)	
Max. Pressure of Lubri-cation oil port	PSI (bar)	7 (0.5)	
Weight	lbs (Kg)	39.6 (18)	44 (20)

HYDRAULIC SYSTEMS



EBK10-1 - ORDER INFORMATION

1	2	3	4	5	6	7	8		
EBK10		-		-		-		/	

1	2	3	4	5	6	7	8
CODE	Brake Torque (N·m)	Output Shaft	Flange and Pilot and Brake Port	Lubrication Port	Paint	Design Code	Nut Code
1	1150	T31 Ø1-1/2" Cone-Shaft 1:8. Parallel Key 5/16" x 5/16" x 1 7/16"	S1 Round Flange 4x Ø13.5, Ø177.8, Pilot Ø101.6 x 12.8, Brake Port 7/16-20UNF	Omit 7/16-20UNF	00 No Paint Omit Black	02 002	N N-Type Thick Nut

EBK10

Note: From the order information table, please choose the right code for construction, braque torque, output shaft, flange and pilot and brake port, lubrication port, paint, etc... If the specification is not in the table or you have specific requirements, please contact us.

EBK10-2 - ORDER INFORMATION

1	2	3	4	5	6	7	8		
EBK10		-		-		-		/	

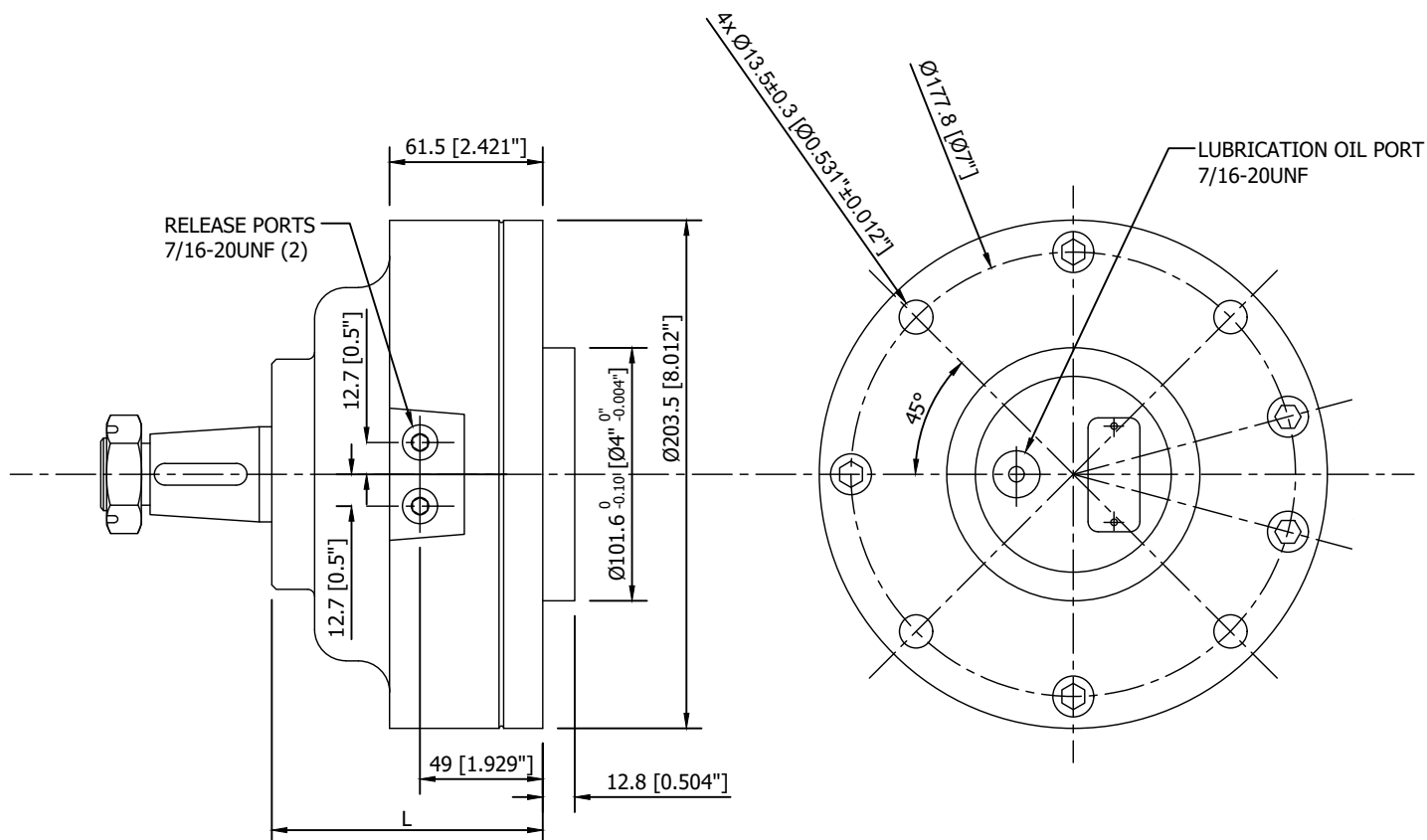
1	2	3	4	5	6	7	8
CODE	Brake Torque (N·m)	Output Shaft	Flange and Pilot and Brake Port	Lubrication Port	Paint	Design Code	Nut Code
2	1700	T31 Ø1-1/2" Cone-Shaft 1:8. Parallel Key 5/16" x 5/16" x 1 7/16"	S1 Round Flange 4x Ø13.5, Ø177.8, Pilot Ø101.6 x 12.8, Brake Port 7/16-20UNF	Omit 7/16-20UNF	00 No Paint Omit Black	02 002	N N-Type Thick Nut

Note: From the order information table, please choose the right code for construction, braque torque, output shaft, flange and pilot and brake port, lubrication port, paint, etc... If the specification is not in the table or you have specific requirements, please contact us.



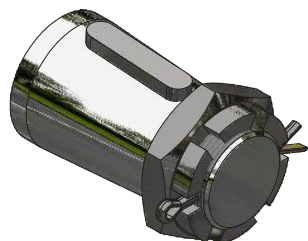
EBK10-1 & EBK10-2 - S1 FLANGE AND PILOT AND BRAKE PORT

EBK10



DIMENSIONS	EBK10-1	EBK10-2
L	108.5 [4.272"]	119 [4.685"]

EBK10-1 & EBK10-2 - DIMENSIONS OF SHAFT EXTENSIONS

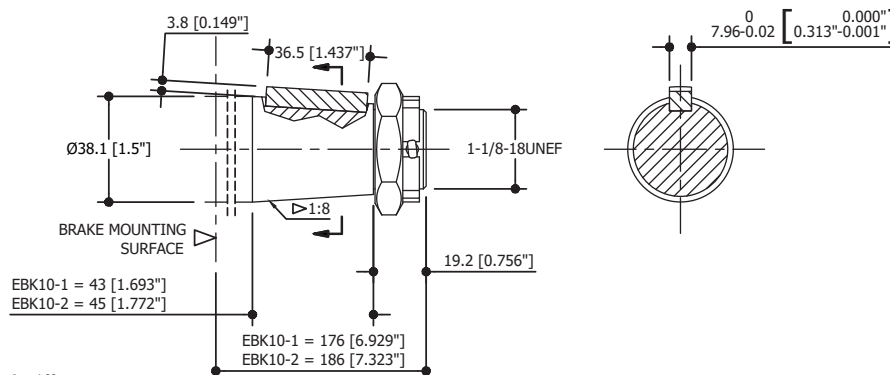


SHAFT T31

Cone Shaft $\varnothing 1-1/2"$

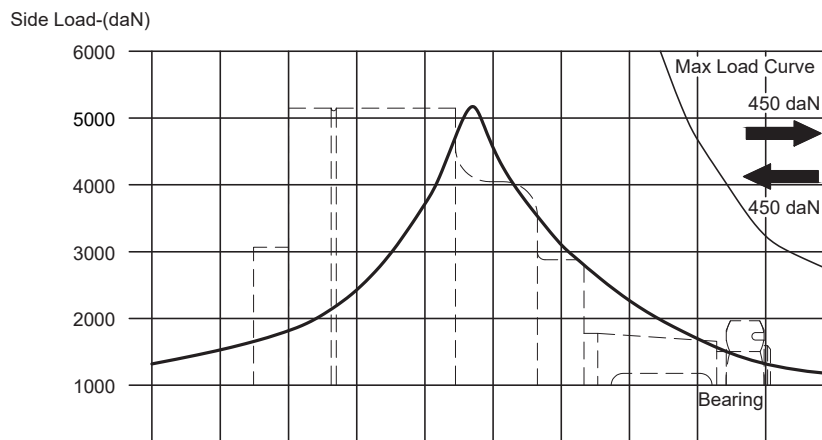
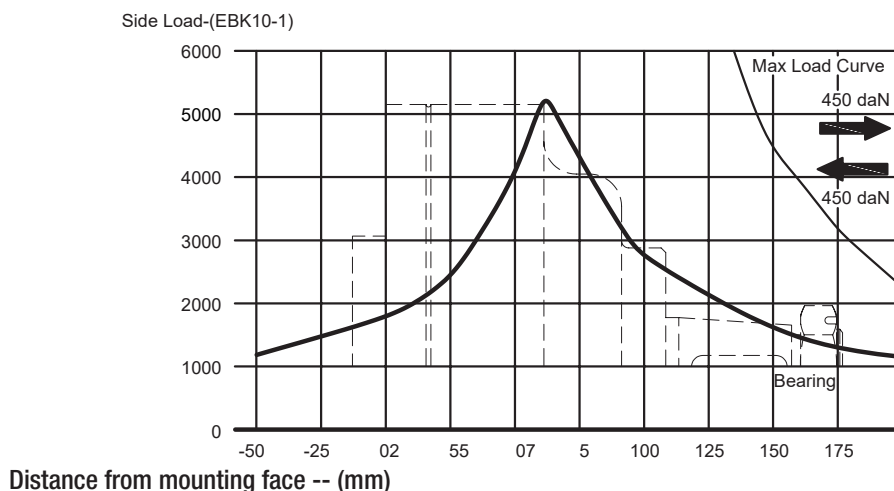
Parallel Key $5/16" \times 5/16" \times 1 7/16"$

IMPERIAL



EBK10

EBK10-1 & EBK10-2 - MOUNTING FLANGE RADIAL FORCES



The bearing curve represents allowable bearing loads for an L bearing life at 12×10^6 revolutions. The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.



All numbers given are nominal values and should be used for reference only.

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EBK2 series brake is one kind of hydraulic wet disc brake. The brake force is caused by the spring, and hydraulic pressure releases the brake force.

FEATURES

- EBK2 series adopts a special friction disc and high strength spring design: long life endurance, low noise, high braking reliability.
- With 4 drain port design, the brake can be used in different applications.
- Compact structure, easy mounting.
- It can be used with EBMP, EBMR, EBMS series hydraulic motor.
- Internal construction: with inboard bearing.

APPLICATIONS

EBK2 series hydraulic brake stays in braking condition since it is out of the factory. During normal operation, there exists the braking force in the brake disc only if the pressure of hydraulic system, that the brake links, is lower than the pressure required by the release of brake, the spring force shall keep the brake in braking condition.

EBK2 series hydraulic brake is widely used in heavy duty machinery, such as engineering machinery, cranes, off-highway machinery vehicles, construction machinery, material handling machinery, agricultural machinery, mining, sanitation machinery and timber industries. It is also used in winches and in hydrostatic drive systems for automatization engines.

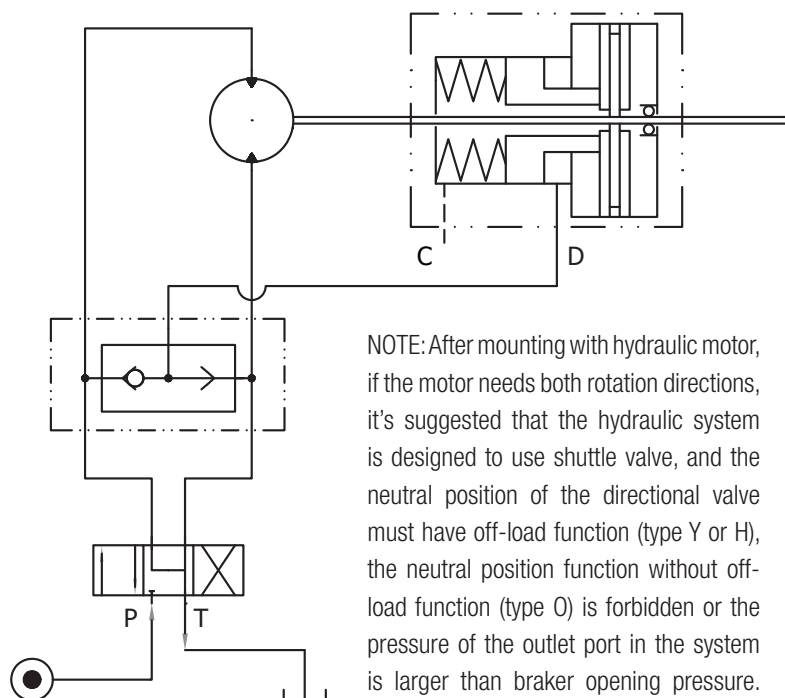
Note: such kind of brake is only used in static parking brake. Dynamic braking is not recommended.

INSTRUCTION MANUAL

In order to make the EBK2 series brake works, we recommend these requirements:

1. **ASSEMBLY:** Mount the brake EBK2 with hydraulic motor, and then fill the brake with lubrication oil through the drain port, and then mount the other parts.
2. **FLUID TYPE:** Mineral based-HM(GB/T763.2-87) (ISO6743/4) or HLP(DIN51524).
3. **TEMPERATURE RANGE:** Normal: $-20^{\circ}\text{C} - 90^{\circ}\text{C}$; Optimal situation: $20^{\circ} - 60^{\circ}\text{C}$.
4. **VISCOSITY RANGE:** Normal: $20 \sim 75 \text{ mm}^2/\text{s}$; Optimal situation: $42 \sim 74 \text{ mm}^2/\text{s}$ at 40°C .
5. **FILTRATION:** Nominal filtration of 25 micron, ISO code 20/16.
6. **MAINTENANCE:** Change after the first 50 ~ 100h ; then after every 500 ~ 1000 h.

TYPICAL APPLICATIONS DRAWING



EBK - ORDER INFORMATION

1 2 3 4 5 6 7

EBK - - - - - -

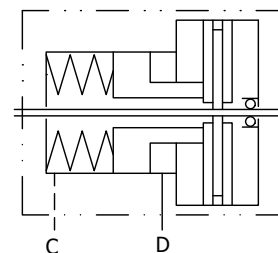
1	2	3		4		5		6		7	
SERIES CODE	STRUCTURE CODE	Torque		Input Shaft Holes		Output Shaft Extensions		Paint		Unusually function	
2	1	210	Torque 200--230Nm	A	Shaft holes Ø25, Parallel Key 8 x 7 x 32	A	Shaft Ø25, Parallel key 8 x 7 x 32	00	No Paint	Omit	Standard
		430	Torque 410--450Nm	B	Shaft holes Ø32, Parallel Key 10 x 8 x 45	B	Shaft Ø32, Parallel key 10 x 8 x 45	Omit	Black		
				C	Shaft holes Ø1", Parallel key 1/4" x 1/4" x 1-1/4"	C	Shaft Ø1", Parallel key 1/4" x 1/4" x 1-1/4"				
				E	Shaft holes Ø1", Splined key SAE 6B	E	Shaft Ø1", Splined key SAE 6B				
				G	Shaft holes Ø1-1/4", Parallel key 5/16" x 5/16" x 1-1/4"	G	Shaft Ø1-1/4", Parallel key 5/16" x 5/16" x 1-1/4"				

EBK2

Note: From the order information table, please choose the right code for construction, torque, input shaft holes, output shaft extensions, paint, etc...
If the specification is not in the table or you have specific requirements, please contact us.

SPECIFICATION DATA

		EBK2-1	
Min. Static Torque	lbf•ft (N•m)	147.6 (200) ~ 169.7 (230)	302.6 (410) ~ 332.1 (450)
Min. Opening Pressure	PSI (bar)	247 (17) ~ 334 (23)	
Max. Opening Pressure	PSI (bar)	4351 (300)	
Min. Oil Quantity for Brake releasing	in ³ (cm ³)	0.43 (7) ~ 0.49 (8)	
Oil Volume	in ³ (cm ³)	3.05 (50) ~ 7.32 (120)	
Max. Pressure in Drain Space	PSI (bar)	7 (0.5)	
Weight	lbs (Kg)	19.8 (9)	

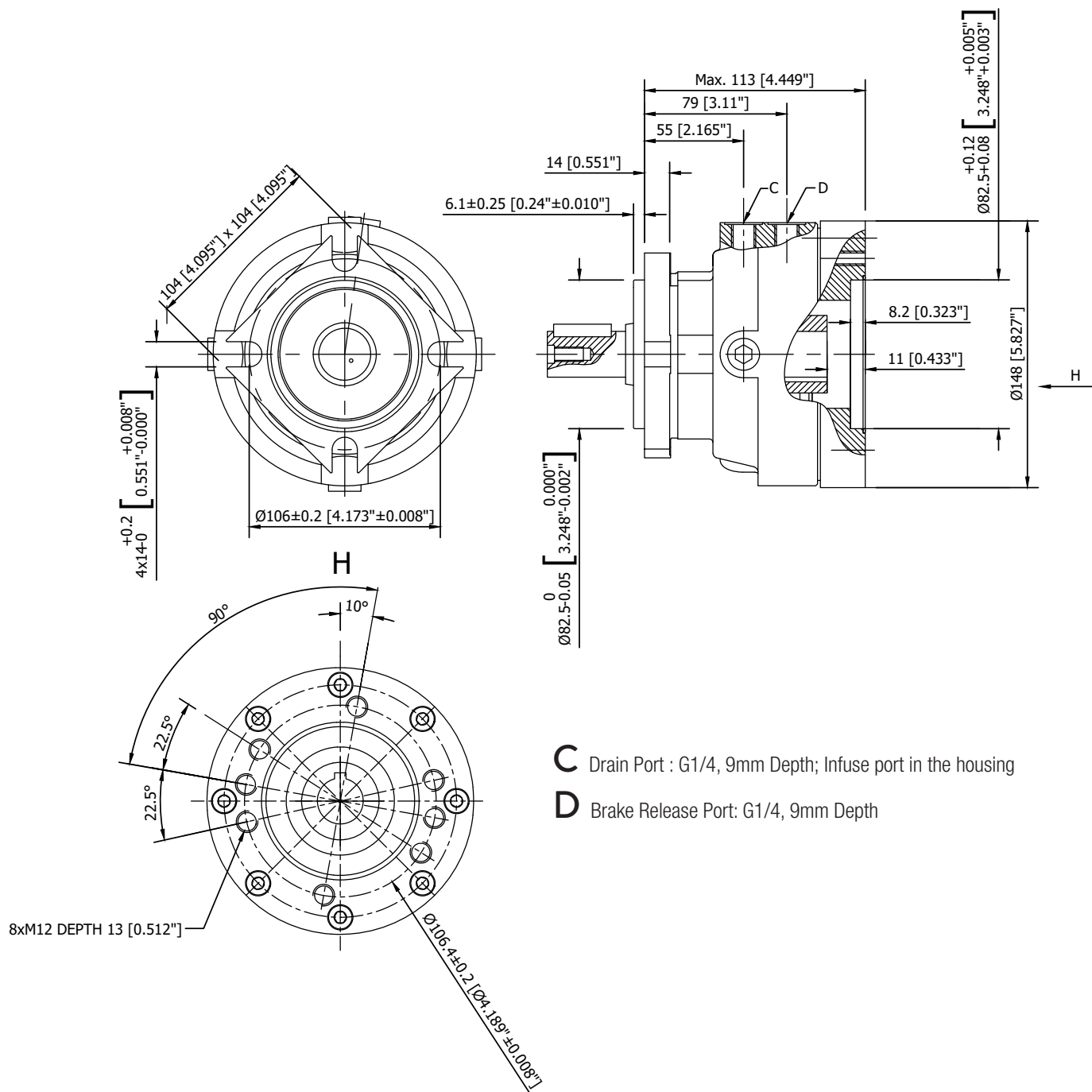


SYMBOLE DRAWING

* Static torque is obtained at working pressure 0 bar.



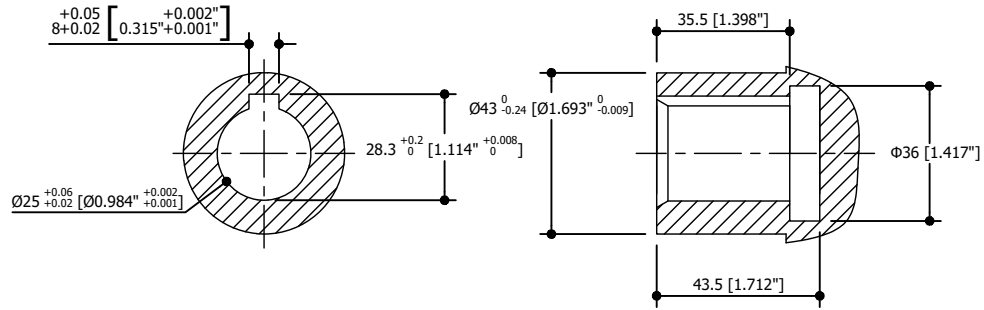
EBK2



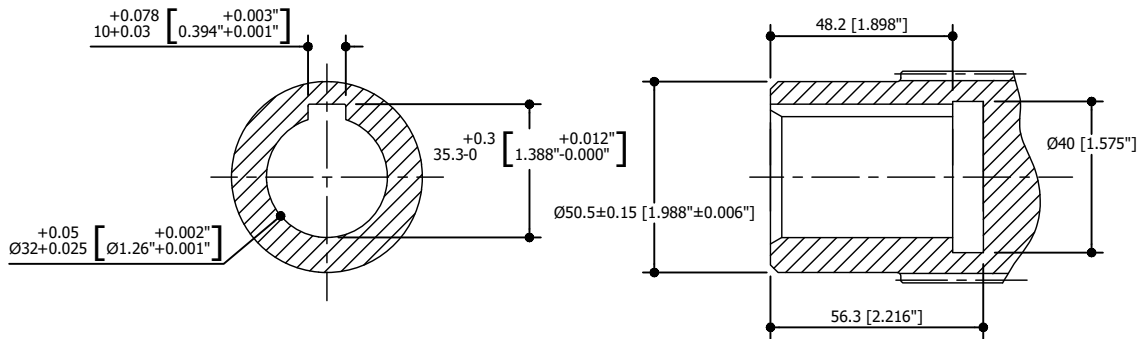
EBK2 - INPUT & OUTPUT SHAFT DATA

INPUT SHAFT HOLES

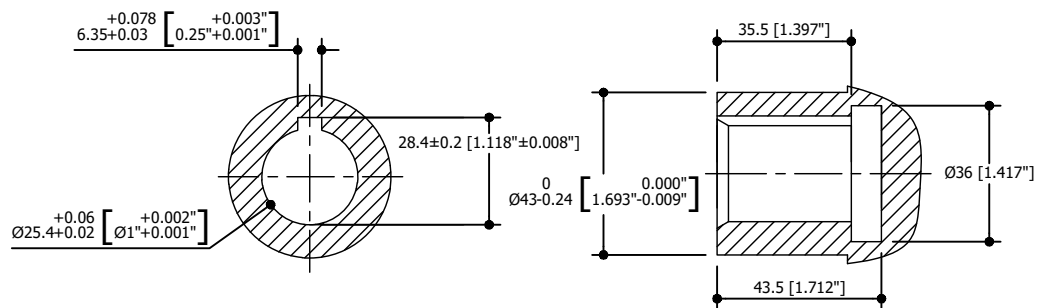
SHAFT A



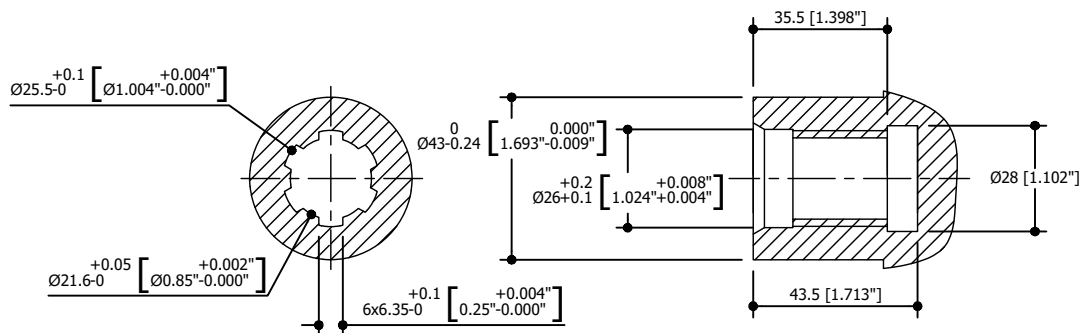
SHAFT B



SHAFT C



SHAFT E



All numbers given are nominal values and should be used for reference only.

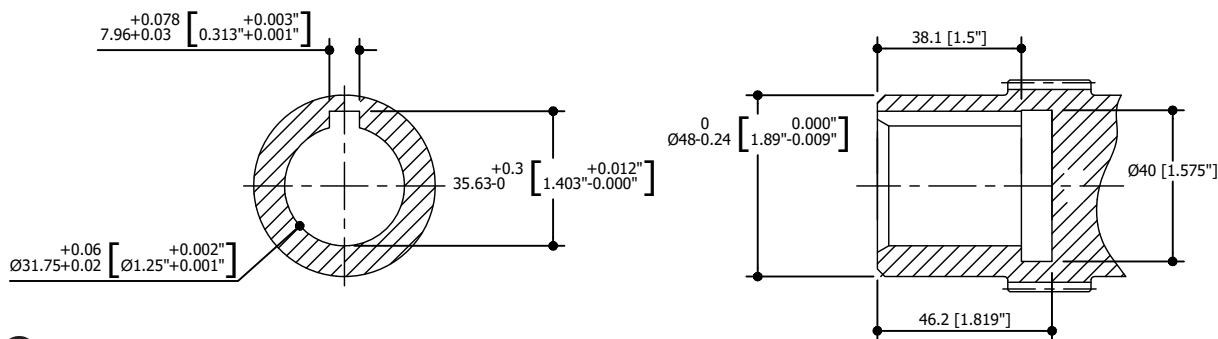
WWW.EAGLE-HYDRAULIC.COM

EBK2 - INPUT & OUTPUT SHAFT DATA

INPUT SHAFT HOLES

EBK2

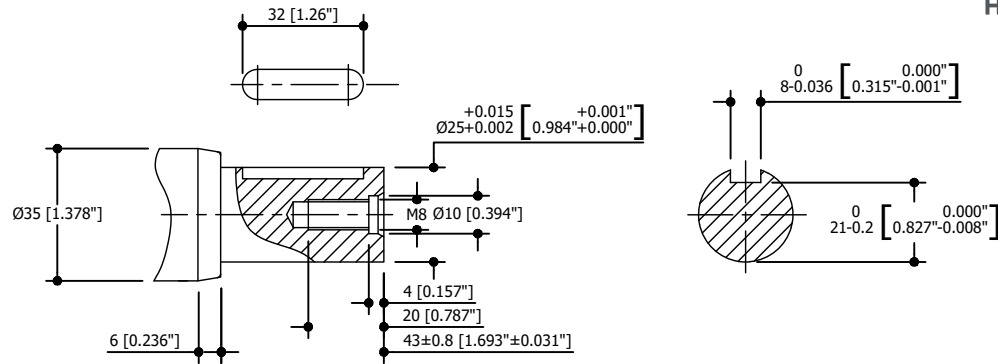
SHAFT G



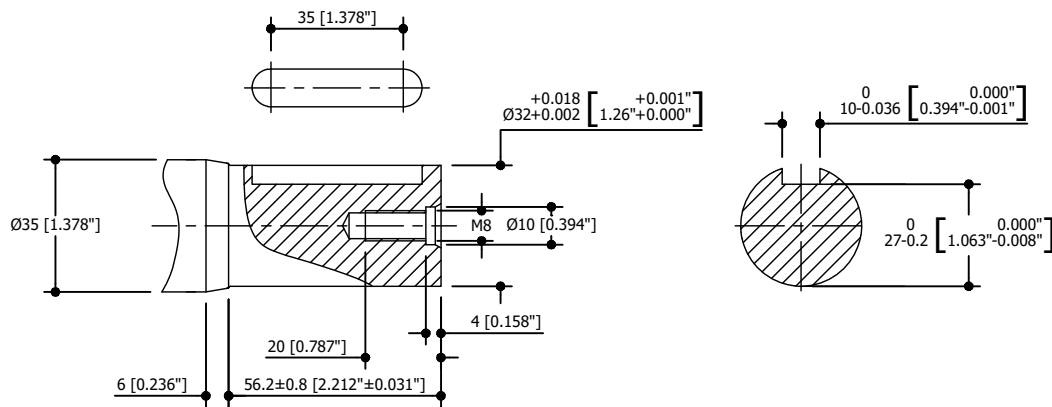
EBK2 - INPUT & OUTPUT SHAFT DATA

OUTPUT SHAFT EXTENSIONS

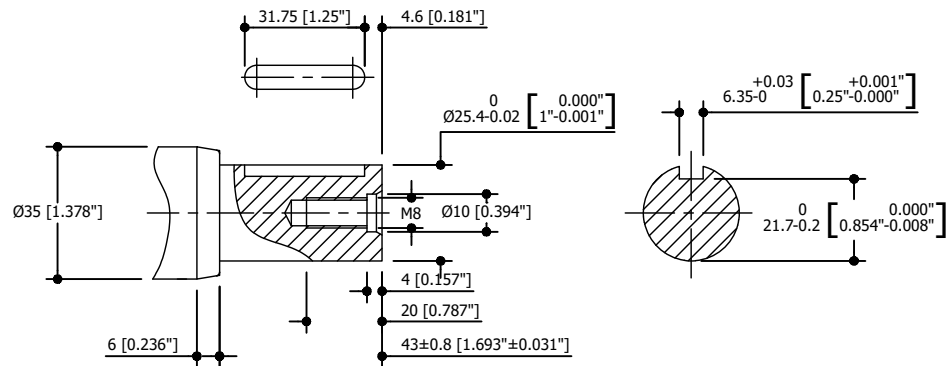
SHAFT A



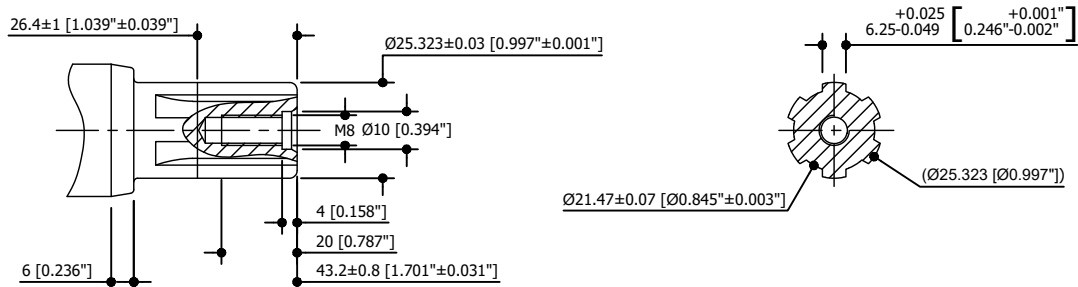
SHAFT B



SHAFT C



SHAFT E

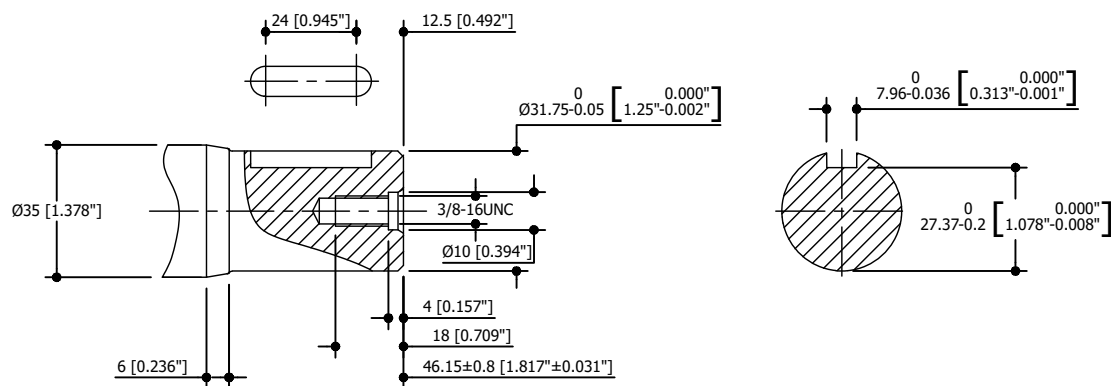


EBK2 - INPUT & OUTPUT SHAFT DATA

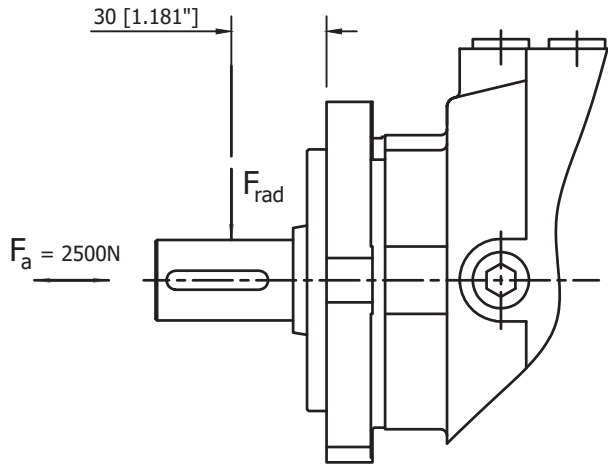
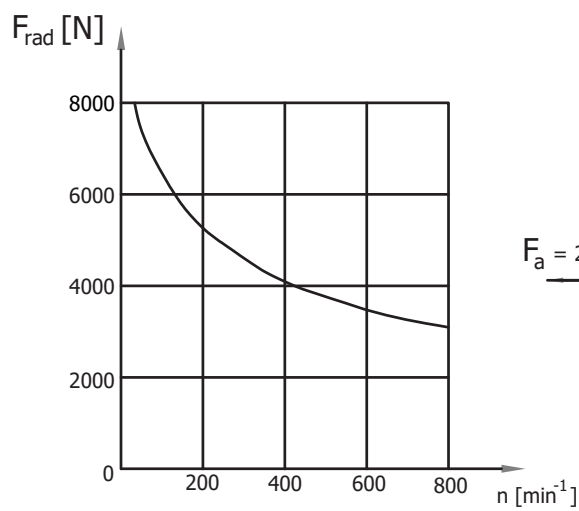
OUTPUT SHAFT EXTENSIONS

EBK2

SHAFT G



EBK2 - LOAD CURVE



EBK2





NON-TRANSFERABLE LIMITED WARRANTY

This document outlines the warranty associated with Eagle Hydraulic products. If you have any questions regarding this warranty, please contact our service department by phone at 1-877-382-2850 or by e-mail at service@eagle-hydraulic.com.

Eagle Hydraulic Inc., formerly HWF Hydraulique International Inc. ("EAGLE"), warrants to you, the original purchaser, that all of its products are free from defects in material or workmanship under normal use and service for the following periods:

EAGLE's warranty is limited to the Original Equipment Manufacturer ("OEM") and/or distributor to whom EAGLE's products are originally sold. EAGLE's warranty is non-transferable to any subsequent purchaser and limited to original purchaser from EAGLE.

EAGLE's 1 year warranty period is calculated from the date of manufacture.

MAINTENANCE:

Inspections and maintenance should be performed on all EAGLE products at regular intervals. While necessary maintenance or repairs on your EAGLE product can be performed by any company, we recommend that you use only authorized EAGLE dealers.

WARNING: IMPROPER OR INCORRECTLY PERFORMED MAINTENANCE OR REPAIR VOIDS THIS WARRANTY.

How to Obtain Service From EAGLE Under This Limited Warranty:

To obtain service under this warranty, contact our service department by phone at 1-877-382-2850 or by e-mail at service@eagle-hydraulic.com.

Please note, EAGLE's obligation to repair or replace your EAGLE product is subject to confirmation by EAGLE's service technicians that the part contains a defect in material or workmanship.

EAGLE's obligations under this warranty are limited to the repair or replacement of the subject EAGLE part or product. The decision to repair or replace any defective EAGLE part or product is solely at the discretion of EAGLE. Please further note, EAGLE reserves the right to direct any and all repairs performed under this warranty to a local approved service location.

What This Warranty Does Not Cover:

EAGLE shall have no responsibility for the following:

- Troubleshooting, diagnostic, removal, or reinstallation labor charges of any EAGLE part or product unless prior written approval is obtained from EAGLE;
- Freight charges for either defective parts, new parts, or repaired; ***
- Claims for loss of time, inconvenience, loss of use, profits or any other incidental or consequential damages arising from any product defect;
- Conditions arising from or caused by alteration of the product, product misuse or neglect, lack of proper maintenance, fire, theft, loss, or damage to the product (including, but not limited to, intentional damage, weather related damage, or any other type of physical damage);
- Corrosion, unless the material is found to be out of specification;
- Failure caused by foreign contamination introduced to the cylinder;
- Paint, unless out of specification;
- Normal wear of internal components.

*** Please note, in certain circumstances, EAGLE may decide to reimburse a customer for freight charges associated with a warranty claim. However, the decision to provide reimbursement for freight changes remains within the sole discretion of EAGLE.

Products which experience color change due to normal weathering are also excluded from this warranty (including non-uniform fading and color changes resulting from unequal exposure of panels to the sun and elements). For purposes of this warranty, the term "normal weathering" means exposure to ultraviolet (sun) light, and extremes of temperature and atmosphere which will cause any colored or painted surface to fade, darken, chalk, crack, or acquire surface accumulation of dirt or stains. The severity of these conditions depends on air quality, the geographic location of the property at which the products are installed, and other local conditions over which EAGLE has no control.

EAGLE shall not be liable for and this warranty does not apply or extend to any failure, defects, or damages arising from or connected with, without limitation, misuse, abuse, neglect, faulty or improper installation.

Warranty Void – Use Authorized Representative for Inspections:

This warranty is null & void should the product be dismantled, opened, or serviced by anyone other than an approved representative of EAGLE.

If you believe that your EAGLE product suffers from a defect covered by this warranty, contact our service department to report the problem and obtain information regarding where to bring your product for inspection.



Warranty procedure:

In order to validate each claim and administer our warranty, EAGLE requires each customer who is making a warranty claim to fill out a "Warranty Claim Form." This form includes basic information, such as the Part Number, the Date Code, and a simple description of how the product failed. If possible, please describe the defect. EAGLE also requests that you provide a photograph of the product and any potentially defective conditions, to assist us in confirming your warranty claim.

Below please find a checklist of items to provide EAGLE to assist us process your warranty claim:

1. Warranty Claim Form
2. Part Number & Date Code
3. Invoice Number and Date
4. Photo that best portrays the defect

FAILURE TO SUBMIT A COMPLETED "WARRANTY CLAIM FORM" MAY RESULT IN THE DENIAL OF YOUR WARRANTY CLAIM.

If requested for inspection by EAGLE, defective parts must be shipped to EAGLE's chosen shipping address. When returning a product, we recommend that you utilize an insured method of delivery, which includes a signature for acceptance of delivery.

Warranty Processing:

Through EAGLE's Authorized Dealer: Upon arrival of your EAGLE product and Warranty Claim Form to EAGLE's authorized dealer, EAGLE and the dealer will assess and investigate your warranty claim within five (5) working days to provide a preliminary assessment of any claims. If, based on this preliminary assessment, EAGLE believes that the product may contain a defect which falls within this warranty, EAGLE's authorized dealer will make arrangements to return the product to EAGLE's service headquarters in Montreal, Canada for final assessment. At that time, EAGLE will assign an RGA number (return goods authorization) to track the product. Please allow 2-3 weeks for assessment by EAGLE's service headquarters.

Through EAGLE's Headquarters: You may ship your EAGLE product and Warranty Claim Form directly to EAGLE's service headquarters in Montreal, Canada to expedite processing of your claim.

If your EAGLE product contains a condition which falls within EAGLE's warranty:

1. EAGLE will process the claim within 15-days after the product arrives in Montreal, Canada.
2. EAGLE will either repair or replace the defective product, at our discretion..

NOTICE TO OEM DEALERS AND DISTRIBUTORS:

With respect to warranty claims presented by EAGLE's product dealers and distributors, EAGLE will consolidate all valid warranty claims, review them, and take action on a quarterly basis.

WARRANTY LIMITATIONS

THIS WARRANTY IS NOT APPLICABLE OUTSIDE OF NORTH AMERICA.

EAGLE reserves the right to discontinue or change any of its products, including colors, without providing notice to its dealers, distributors, or purchasers. Should a product covered by this warranty become unavailable for any reason, EAGLE reserves the right, at EAGLE's sole discretion, to substitute a product that is of equal quality or refund the purchase price.

If the product is not returned to EAGLE's headquarters for inspection, you the customer, must maintain and preserve the product as evidence. If EAGLE does not request the defective product to be returned, the customer may discard the product appropriately after 60 days.

THE WARRANTY PROVIDED ABOVE CONTAINS THE EXTENT OF ALL EXPRESS WARRANTIES. EAGLE MAKES NO WARRANTIES REGARDING ANY PRODUCT'S FITNESS FOR ANY PARTICULAR PURPOSE. EAGLE'S WARRANTY DOES NOT COVER ANY PROPERTY DAMAGE, PERSONAL INJURY, INCIDENTAL DAMAGE OR CONSEQUENTIAL DAMAGE ALLEGEDLY ASSOCIATED WITH ITS PRODUCTS. EAGLE shall not be liable for inconvenience, labor, loss of time, maintenance, removal or reinstallation of the products or other incidental, special or consequential damages arising in relation to the purchase or use of the product.

BY PURCHASE OF EAGLE'S PRODUCT(S), INCLUDING THIS WARRANTY, BUYER ACCEPTS THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES, LIABILITIES OR OBLIGATIONS OF EAGLE, EITHER EXPRESSED OR IMPLIED, EXCEPT THAT THE DURATION OF ANY IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED IN TIME TO THE DURATION OF THIS WARRANTY. EAGLE SHALL IN NO EVENT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND FOR BREACH OF ANY EXPRESS WRITTEN OR ORAL OR IMPLIED WARRANTY ON PRODUCTS. YOUR EXCLUSIVE REMEDY SHALL BE ENFORCEMENT OF THIS WARRANTY UPON THE TERMS AND CONDITIONS STATED HEREIN. NO REPRESENTATIVE OF EAGLE OR ITS DISTRIBUTORS OR DEALERS IS AUTHORIZED TO MAKE ANY CHANGE OR MODIFICATION TO THIS WARRANTY.

Some jurisdictions do not allow various limitations on implied warranties. Some jurisdictions do not allow the exclusion or limitation on consequential or special damage. As such, the limitations contained herein are subject to the limits of the applicable law. This warranty gives you specific legal rights, and you may also have other rights, all of which vary from jurisdiction to jurisdiction. If any provision of this warranty is declared to be illegal, unenforceable, or void, the remainder of this warranty shall be enforced to the extent permitted by law and the illegal, unenforceable or void provision shall be replaced with a mutually acceptable provision which comes closest to the intention of the underlying original provision, to the extent possible.

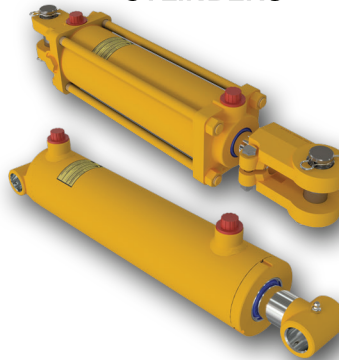


HYDRAULIC PRODUCT SAFETY

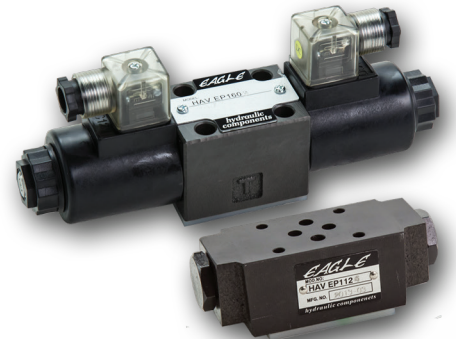
POWER UNITS



CYLINDERS



ACCESSORIES



WARNING

Hydraulic system parts and connections can contain high pressures which, if suddenly and unexpectedly released, can cause serious injury or death.



WARNING (AVISO) (AVERTISSEMENT)

TO PREVENT SERIOUS INJURY OR DEATH FROM MOVING PARTS:
 *KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS.
 *CLOSE ALL GUARDS AND SHIELDS BEFORE OPERATING MACHINERY.
 PARA EVITAR LA LESION O LA MUERTE:
 *MANTENGANSE A DISTANCIA LAS MANOS, LOS PIES Y LA ROPA DE LAS PARTES MOVIENTES DE LA MAQUINA.
 *CIERREN TODAS LAS PROTECTORAS QUE HAY ANTES QUE HEGAN FUNCIONAR.
 AFIN D'ÉVITER TOUTE BLESSURE GRAVE OU LA MORT:
 *NE PAS RAPPROCHER LES MAINS, LES PIEDS OU LES VÊTEMENTS DES PIÈCES MOBILES.
 *S'ASSURE QUE TOUTES LES PIÈCES DE PROTECTION SONT EN PLACE AVANT DE METTRE EN MARCHÉ LA MACHINERIE.



WARNING

HIGH PRESSURE OIL can cause severe injury.
 Disconnect power and drain accumulator before servicing hydraulic system.

- Always wear eye protection and protective clothing when working on and around hydraulic systems.
- Never exhaust hydraulic fluid under pressure to atmosphere.
- Hydraulic fluid can reach high temperatures under normal operating conditions and can burn exposed skin.
- Fluid pressure can penetrate skin and cause death or serious injury, Wear proper protective clothing when working on hydraulics.
- Hydraulic devices should be properly “Locked-Out” or “Tagged-Out” before being worked on, including the release of any stored energy or pressure. Ensure a mechanical locking device is in place to prevent injury or death.
- Eagle Hydraulic is not responsible for misuse or misapplication of product.
- Do not use any heat-producing equipment such as oxyacetylene/gas torches and angle grinders on sealed hydraulic cylinders.
- Remove hydraulic oil from the cylinder before heating the cylinder.
- Never operate a cylinder(or power unit) above recommended pressures.
- Always use properly rated hoses and fittings.
- Do not weld, add welded items, drill holes or otherwise modify the cylinder from its original design.
- The hydraulic power unit may heat up during operation. The solenoids in the hydraulic power unit become so hot during operation that you may sustain burns. You should wear heat-proof gloves or protective clothing.



FLUID POWER FORMULAS

PRESSURE

$$P = F / A \quad F = P \times A$$

P = Pressure (PSI) F = Force (Lb.)

A = Area (sq. in.)

CYLINDER VOLUME

$$V = A \times S$$

V = Volume (cu. in.)

A = Area (sq. in.)

S = Stroke (in.)

CYLINDER PISTON AREA

$$A_p = 0.7854 (D_p)^2$$

A_p = Piston Area

D_p = Piston Diameter

CYLINDER ROD AREA

$$A_r = 0.7854 (D_r)^2$$

A_r = Rod Area

D_r = Rod Diameter

CYLINDER EFFECTIVE AREA

$$A_e = A_p - A_r$$

A_e = Effective Area

A_p = Piston Area

A_r = Rod Area

CYLINDER PISTON SPEED

$$V = Q \times 231 / A$$

V = Piston Speed (min.)

Q = Flow (GPM)

A = Cylinder Area (sq. in.)

CYLINDER FLOW @ X SPEED

$$Q = (V \times A) / 231$$

Q = Flow (GPM)

V = Rod Speed (In./Min.)

A = Cylinder Area (sq. in.)

HYDRAULIC HORSEPOWER

$$HP = P \times Q \times 0.000583$$

HP = Hydraulic HP

Q = Flow (GPM)

P = Pressure (PSI)

MOTOR HP REQUIRED TO DRIVE A PUMP

$$(GPM \times PSI) / (1714 \times Eff)$$

Efficiency is in most cases not higher than 85%

1714 x 0.85 = 1457

HYDRAULIC MOTOR HORSEPOWER

$$HP = (S \times T) / 63.025$$

HP = Hydraulic Motor Horsepower

S = Speed (RPM)

T = Torque (Lb/in.)

HYDRAULIC TANK COOLING

$$HP = 0.001 \times A_w \times \Delta T$$

HP = Horsepower

A_w = Wetted Area (sq.ft)

Δ T = Oil Temp -

Amb. Air Temp

HYDRAULIC MOTOR SPEED

$$RPM = (Q \times 231) / Disp.$$

RPM = (Motor Shaft Speed)

Q = Flow (GPM)

Disp = Motor Disp (Cu / In / Rev)

HYDRAULIC MOTOR TORQUE

$$T = (p \times Disp.) / 2 \pi$$

T = Motor Torque (Lb-in)

p = Pressure (PSI)

Disp = Motor Disp (Cu / In / Rev)

TORQUE

$$T = F \times d$$

T = Torque (Lb-in)

F = Force (Lb)

d = Distance (in.)





NOTES

[illegible]

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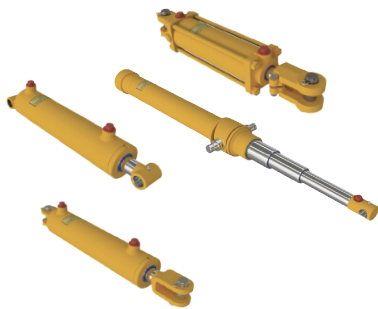
COMPARISON TABLE

EAGLE HYDRAULIC VERSUS COMPETITION					
Model	Danfoss	Eaton Char-Lynn	M+S	Parker	White
EBMM	OMM	J Serie: 129-	MM		WM
EBMP, EBMPH	OMP-DH	H Serie: 101-	MP	TC	WP/WD
EBMPW	OMPW		PW		
EBMR, EBMRS	OMR, DS	S Serie: 103-	MR	TC	WR/RS
EBMH	OMH		MH		
EBMSY	OMS	2000 Serie: 104-, 105-, 106-, 193-	MS/MSY	TF/TG	WS/RE/DR/ HB
EBMT	OMT	4000, 6000 Serie: 109-, 110, 111, 112-, 113-, 114-	MT		
EBMV	OMV	6000, 10000 Serie: 112-, 113-, 114-, 119-, 120-, 121-	MV		D9
EBMK2	OMS	2000 Serie: 104-, 105-, 106-, 193-			
EBMK6	OMT	6000 Serie: 112-, 113-, 114-	MT		
EBME2				TE, TC, TB	WG
EBMJ	OMEW	W Serie: 162-	RW	TJ	
EBMER	OMEW	W Serie: 162-	HW	TF/TG	RE/RC
EBMEC	OMEW				CE
ESYHB					HB



EAGLE IS NOT ONLY A HYDRAULIC CYLINDER MANUFACTURER

We can provide more than 500,000 unique hydraulic solutions.
Tell us about your needs!



**STANDARD AND CUSTOM
HYDRAULIC CYLINDERS**



POWER UNITS
- AC - DC



NOVAPEAK

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AUTO LIFT • CONSTRUCTION • SNOW EQUIPMENT • WASTE & REFUSE

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Phone: 1 450 433-2800 / 1 877 382-2850

Fax: 1 450 433-3004 / 1 877 382-2853

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