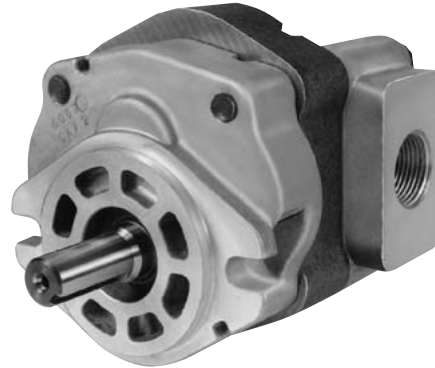


Specifications for UM16 Series

UM16 Features Include:

- Uni- (single) Rotation Motor Rotation must be specified.
- Motor does not have a bearing drain and is not suitable for series operation.
- Journal bearings for long life and good over-hung load capability
- Buna-N Seals are standards for petroleum and glycol based fluids “Viton®” seals are optional.
- Pressure balanced plates for greater efficiency.



Description Gear Motors
 Flow Range To 42 GPM (158.9 LTR)
 Displacements To 3.90 C.I.R. (63.98 CC's/REV.)
 Maximum Pressure to 3000 PSI (207 BAR)
 Maximum Speed to 3600 RPM
 Rotation Uni-(Single) Direction
 Bearings Journal
 Construction Aluminum Flange & Cover
 with Cast Iron Gear Section

Performance Data

MOTOR MODELS	DISPLACEMENT/REVOLUTION (THEORETICAL)					TORQUE PER 1000 PSID*				POWER AT MAX.		MAXIMUM LIMITS				
	US GALLONS	CUBIC INCHES	LITERS	CUBIC CM'S	IMPERIAL GALLONS	START		RUN		RPM/MAX.PSID*		RELIEF SETTING		CONTINUOUS		
						LB.IN.	NM	LB.IN.	NM	H.P.	KW	PSI	BAR	PSI	BAR	RPM
UM16 - 45	0.0038	0.878	0.014	14.39	0.003	108	146	125	169	21	15.6	3000	207	1700	117	3600
UM16 - 65	0.0055	1.270	0.021	20.81	0.005	156	211	181	245	30	22.4	3000	207	1700	117	3600
UM16 - 85	0.0072	1.663	0.027	27.25	0.006	205	277	236	319	38	28.3	3000	207	1700	117	3400
UM16 - 100	0.0085	1.964	0.032	32.18	0.007	241	326	279	378	43	32.1	3000	207	1700	117	3300
UM16 - 115	0.0097	2.241	0.037	36.72	0.008	276	374	318	431	47	35.0	3000	207	1700	117	3100
UM16 - 150	0.0127	2.934	0.048	48.08	0.011	361	489	417	565	55	41.0	3000	207	1700	117	2800
UM16 - 180	0.0152	3.511	0.058	57.54	0.013	432	585	499	676	59	44.0	2200	152	1700	117	2500
UM16 - 200	0.0169	3.904	0.064	63.98	0.014	480	651	555	752	66	49.2	2000	138	1700	117	2500

Notes: (1) All data based on SAE 10W Oil at 135°F. (2) All motors are available with Viton® Seals.
 *Average valves from performance curves.

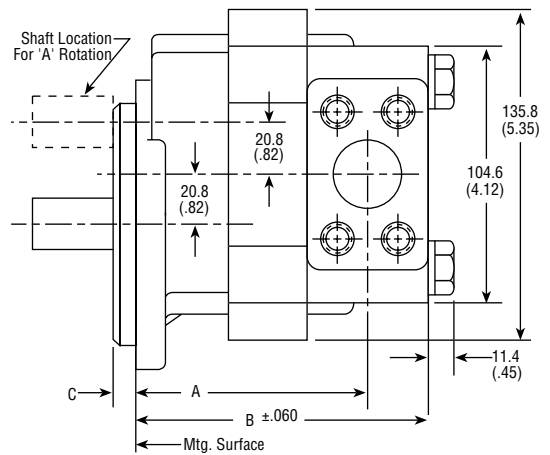


CAUTION: UM16 motors do not have an external bearing drain. Return line pressure must not exceed 20 PSIG.

MOUNTING DIMENSIONS								
MOTOR MODEL	FLANGE TYPE						SHIPPING WEIGHTS LBS. KGS.	
	D		E		F			
	A	B	A	B	A	B		
UM16-45	89.9 (3.54)	115.6 (4.55)	118.4 (4.66)	144.1 (5.67)	92.9 (3.66)	118.6 (4.67)	8	3.5
UM16-65	95.3 (3.75)	121.2 (4.77)	123.6 (4.88)	149.6 (5.89)	98.6 (3.88)	124.2 (4.89)	8	3.5
UM16-85	100.9 (3.97)	126.5 (4.98)	129.3 (5.09)	154.9 (6.10)	103.9 (4.09)	129.5 (5.10)	8	3.5
UM16-100	104.9 (4.13)	130.6 (5.14)	133.3 (5.25)	159.0 (6.26)	107.9 (4.25)	133.6 (5.26)	9	4.0
UM16-115	108.9 (4.29)	134.6 (5.30)	137.4 (5.41)	163.1 (6.42)	112.0 (4.41)	137.7 (5.42)	9	4.0
UM16-150	118.4 (4.66)	144.1 (5.67)	146.8 (5.78)	172.5 (6.79)	121.4 (4.78)	147.1 (5.79)	9	4.0
UM16-180	126.5 (4.98)	152.2 (5.99)	154.9 (6.10)	180.6 (7.11)	129.5 (5.10)	155.2 (6.11)	10	4.5
UM16-200	131.8 (5.19)	157.5 (6.20)	160.3 (6.31)	185.9 (7.32)	134.9 (5.31)	160.5 (6.32)	10	4.5

MOUNTING DIMENSIONS								
MOTOR MODEL	FLANGE TYPE						SHIPPING WEIGHTS LBS. KGS.	
	J		N		S			
	A	B	A	B	A	B		
UM16-45	118.4 (4.66)	144.1 (5.67)	86.9 (3.42)	112.5 (4.43)	132.6 (5.22)	158.2 (6.23)	8	3.5
UM16-65	123.6 (4.88)	149.6 (5.89)	92.2 (3.63)	118.1 (4.65)	138.2 (5.44)	163.8 (6.45)	8	3.5
UM16-85	129.3 (5.09)	154.9 (6.10)	97.8 (3.85)	123.4 (4.86)	143.5 (5.65)	169.2 (6.66)	8	3.5
UM16-100	133.3 (5.25)	159.0 (6.26)	101.8 (4.01)	127.5 (5.02)	147.6 (5.81)	173.2 (6.82)	9	4.0
UM16-115	137.4 (5.41)	163.1 (6.42)	105.9 (4.17)	131.6 (5.18)	151.6 (5.97)	177.3 (6.98)	9	4.0
UM16-150	146.8 (5.78)	172.5 (6.79)	115.3 (4.54)	140.9 (5.55)	161.0 (6.34)	186.7 (7.35)	9	4.0
UM16-180	154.9 (6.10)	180.6 (7.11)	123.4 (4.86)	149.1 (5.87)	169.2 (6.66)	194.8 (7.67)	10	4.5
UM16-200	160.3 (6.31)	185.9 (7.32)	128.8 (5.07)	154.4 (6.08)	174.5 (6.87)	200.1 (7.88)	10	4.5

C DIMENSIONS		
FLANGE TYPE	MM	IN
D	6.35	(.250)
E	4.74	(.187)
F	—	—
G	6.35	(.250)
J	6.35	(.250)
N	9.52	(.375)
S	5.08	(.200)



Inch equivalents for millimeter dimensions are shown in (**).