12 Displacements	(8.6 to 58.5 in³/rev)
12 Schluckvolumen	**140 . . . 960 cm³/rev**
12 Cylindrée	
12 Despazamientos	

	Cont.	**Int.**
Maximum Pressure	(to 3000 psi)	(to 4000 psi)
Eingangsdruck	**. . . 210 bar**	**. . . 281 bar**
Pression entrée		
Presion Maxima		

Maximum Oil Flow	(to 30 gpm)
Schluckstrom	**. . . 114 lpm**
Débit d'huile	
Caudal Maximo de Aceite	

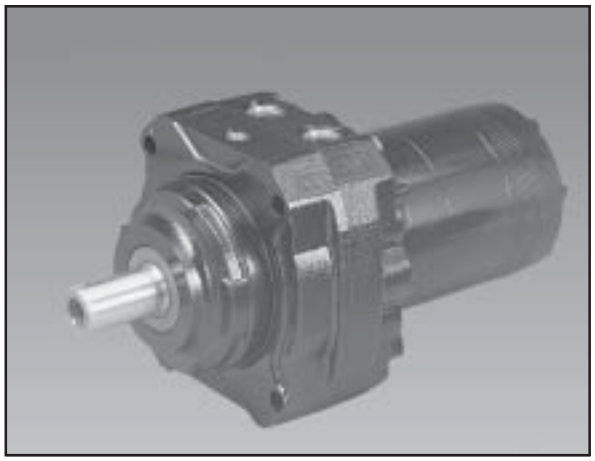
Maximum Speed	(660 rpm)
Drehzahl	**660 rpm**
Vitesse de rotation	
Velocidad Maxima	

	Cont.	**Int.**
Maximum Torque	(9,239 lb in)	(12,636 lb in)
MaxDrehmoment	**1044 Nm**	**1428 Nm**
Couple		
Torque Maximo		

Maximumg Side Load at Key	(to 4790 lb)
Seitenlast	**. . . 21306 N**
Charges latèrales	
Carga Maxima Lateral	

Exceptional Strength and Durability in a High Performance Motor/Brake Package

This brake motor consists of a BG Series motor integrated into a wet disc, spring applied, hydraulically released brake. The brake is capable of up to 12,000* lb-in of holding torque. The brake is front mounted for reliable operation even in the event of a drive link failure. The brake release port is capable of pressures to 3000 PSI. This brake is designed to be a parking brake only. Dynamic braking is not recommended.



Rated Brake Holding Capacity @ Zero Release Pressure Nm (in-lbs)	Maximum Full Release Pressure bar (PSI)
1350 (12,000)	22 (315)

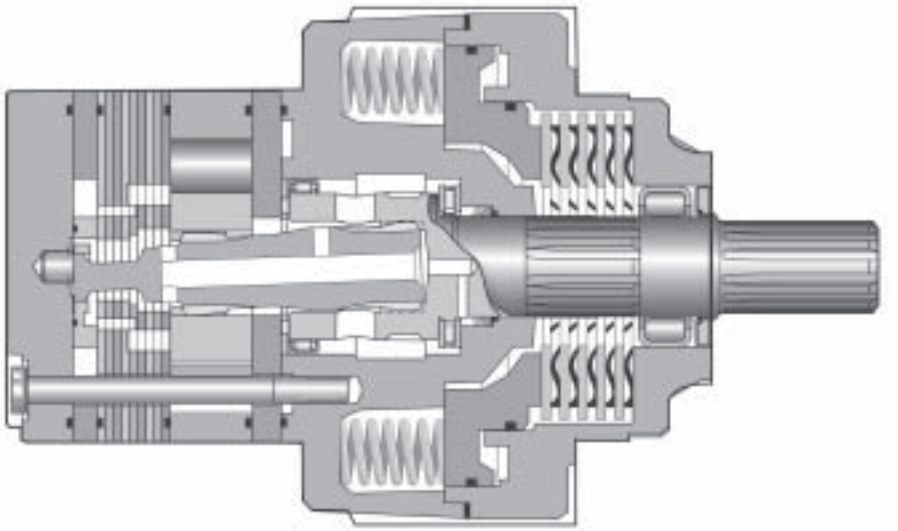
12,000 in-lbs is standard holding capacity.
For other holding capacities, consult the factory for price and availability.

NOTE: A & C Mounting Only
Operation of this unit with the shaft positioned upward away from the horizon by more than 30° is not recommended. Operation of this unit other than horizontal should be tested and approved prior to production.

This brake is designed to be a parking brake only. Dynamic braking is not recommended.

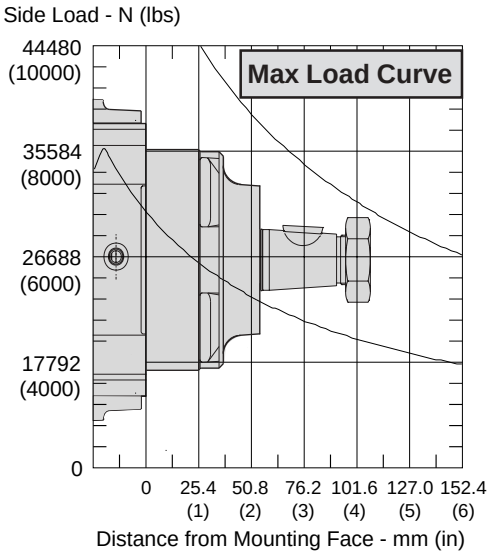
Brake service interval: the springs and seals should be serviced at or before 500,000 brake cycles.

Customer installation bolts (4) should be 12 mm (.5 in) dia and torqued to a minimum of 122 Nm (90 ft-lbs).



* With optional spring package.

Wheel Mount/Radnabengehause
Monture à roue/ Montaje de rueda



C

The allowable side load curve is based on uni-directional steady state loads for L_{10} bearing life at 3 x 10^6 revolutions.
Die zulässige auslegbare radiale Wellenbelastungskurve ist unter ruhenden, einseitig statisch gerichteten Lastverhältnissen auf eine L_{10} Lebensdauer mit 3 x 10^6 Umdrehungen kalkuliert.
La courbe de charge latérale permise se base sur des charges unidirectionnelles en régime permanent pour le roulement L_{10} à 3 x 10^6 révolutions.
La curva de valores admisibles de carga lateral está basada en cargas constantes para cojinetes L_{10} a 3 x 10^6 revoluciones.

The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.
Die maximale radiale Wellenbelastungskurve ist definiert als maximale statische Last ohne Drehzahl. Sie gilt als Grenze und sollte keinesfalls überschritten werden.
La courbe de charge maximale est définie par la capacité de charge statique portante. Cette courbe ne devrait être dépassée en aucun moment y compris pour les charges par à-coups.
La curva de carga máxima queda definida por la capacidad de carga estática del cojinete. No se deben superar los valores de esta curva, ni siquiera con cargas provisorias de impacto.

Equation to Calculate the Expected Radial Bearing Life
Gelichung zur Ermittlung der Lagerlebensdauer

Equation to calculate the allowable side load "for a given load":
Bestimmung der erlaubten radialen Wellenbelastung mit vorgegebener Last

Use F_a, F_b and S in equation to determine hours of L_{10} bearing life.
Die Lebensdauer in Stunden ergibt sich durch einsetzen von F_a, F_b, und S in die nachstehende Formel.

$$L = \frac{3 \times 10^6}{60 \times S} \left\{\frac{F_a}{F_b}\right\}^{3.33}$$

Where / Mit:

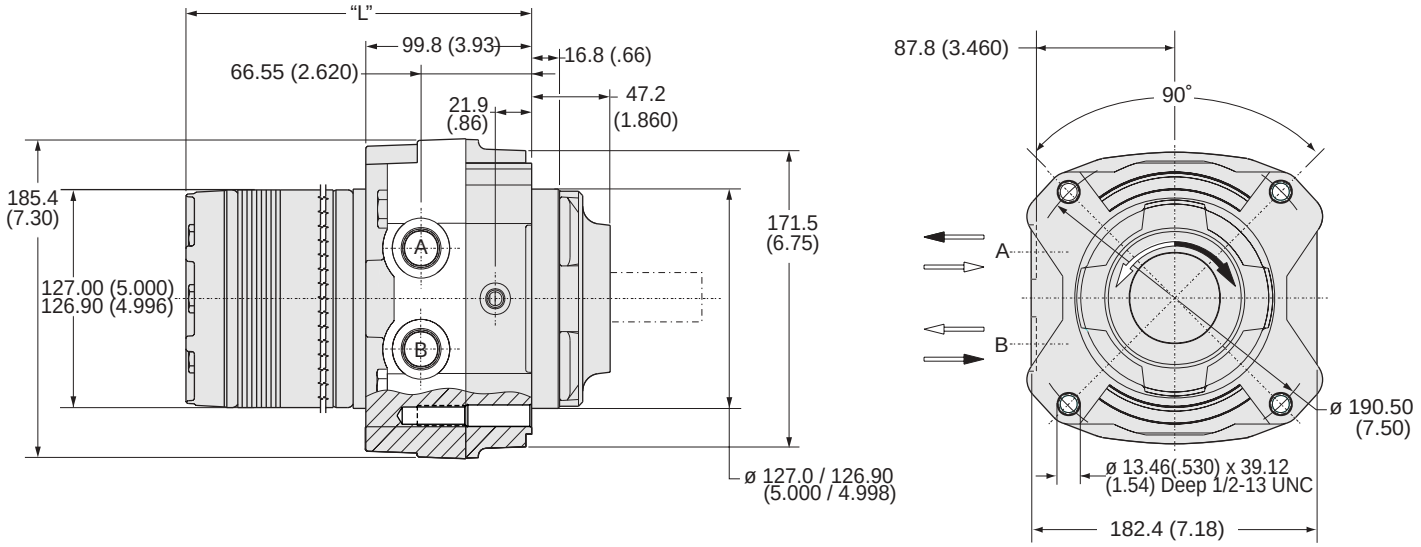
S = Shaft Speed RPM / Abtriebswellendrehzahl in min^{-1}
L = Life In Hours / Lebensdauer in Stunden
F_a = Allowable side load defined by above curve at a distance from mounting flange. / Erlaubte radiale Wellenbelastung als Function der Laenge
F_b = Application side load. / Anwendungsseitige Wellenbelastung

Note: Calculations are based on L_{10} bearing life per ISO 281.
Auslegung basiert auf einer L_{10} Lenbendauer nach ISO 281

BGRev001.p65,pfm

Code: A US

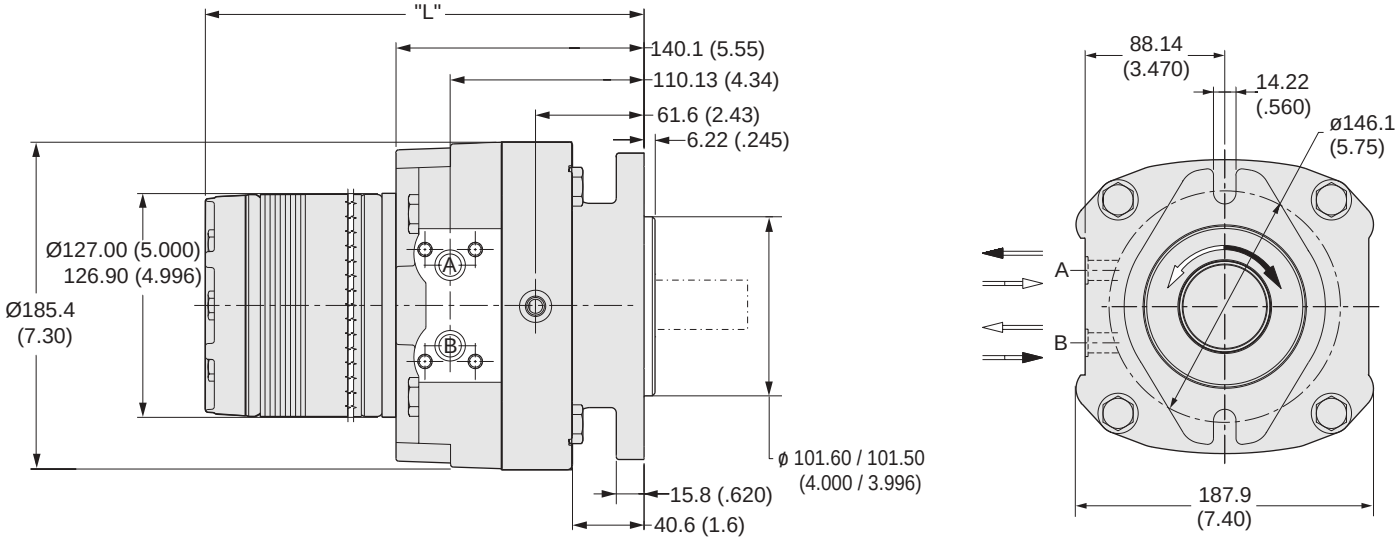
Front Mounting / Front Bolting



Code A		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht	**kg**	**27.3**	**27.5**	**27.8**	**28.1**	**28.5**	**28.9**	**29.5**	**30.2**	**30.9**	**31.7**	**33.2**	**34.9**
Poids/Peso	(lb)	(60.2)	(60.8)	(61.3)	(62.1)	(63.0)	(63.9)	(65.2)	(66.7)	(68.3)	(69.9)	(73.3)	(77.1)
Length "L"	**mm**	**192.3**	**195.3**	**198.6**	**203.2**	**208.0**	**214.4**	**221.7**	**230.4**	**236.7**	**246.1**	**265.2**	**284.2**
"L"	(in)	(7.57)	(7.69)	(7.82)	(8.00)	(8.19)	(8.44)	(8.73)	(9.07)	(9.32)	(9.69)	(10.44)	(11.19)

Code: B US

SAE "B" 2 Bolt



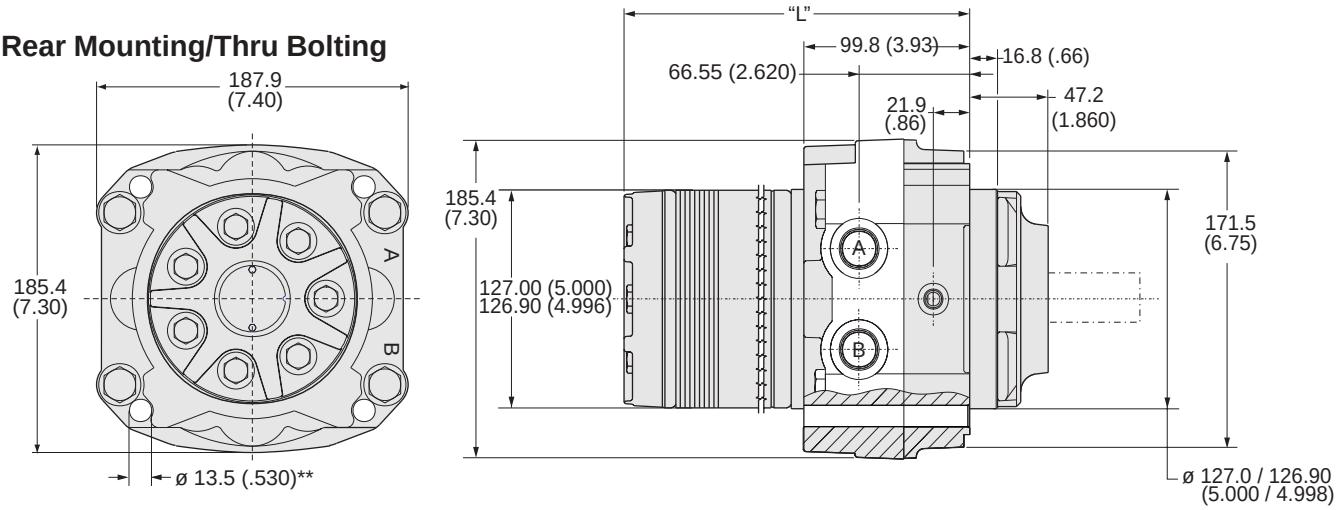
Code "B"		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht	kg	28.4	28.7	28.9	29.3	29.7	30.1	30.1	30.7	31.3	32.8	34.3	36.1
Poids/Peso	(lb)	(62.6)	(63.2)	(63.7)	(64.5)	(65.4)	(66.3)	(67.6)	(69.1)	(70.7)	(72.3)	(75.7)	(79.5)
Length "L"	mm	233.2	236.4	239.6	244.3	249.1	255.4	262.8	271.3	277.7	287.2	306.3	325.3
"L"	(in)	(9.18)	(9.31)	(9.43)	(9.62)	(9.81)	(10.06)	(10.35)	(10.68)	(10.93)	(11.31)	(12.06)	(12.81)

English equivalents for metric specifications are shown in ( ).

BGRev001.p65,pfm

Code: C US

Rear Mounting/Thru Bolting



**Will not support a bolt or nut without a bracket.

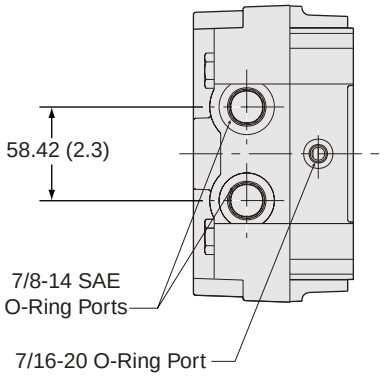
Code C		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht	**kg**	**27.3**	**27.5**	**27.8**	**28.1**	**28.5**	**28.9**	**29.5**	**30.2**	**30.9**	**31.7**	**33.2**	**34.9**
Poids/Peso	(lb)	(60.2)	(60.8)	(61.3)	(62.1)	(63.0)	(63.9)	(65.2)	(66.7)	(68.3)	(69.9)	(73.3)	(77.1)
Length "L"	**mm**	**192.3**	**195.3**	**198.6**	**203.2**	**208.0**	**214.4**	**221.7**	**230.4**	**236.7**	**246.1**	**265.2**	**284.2**
"L"	(in)	(7.57)	(7.69)	(7.82)	(8.00)	(8.19)	(8.44)	(8.73)	(9.07)	(9.32)	(9.69)	(10.44)	(11.19)

C

English equivalents for metric specifications are shown in ( ).

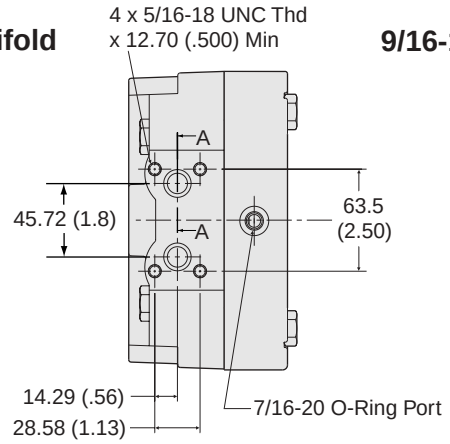
Code: S US

7/8-14 SAE O-Ring



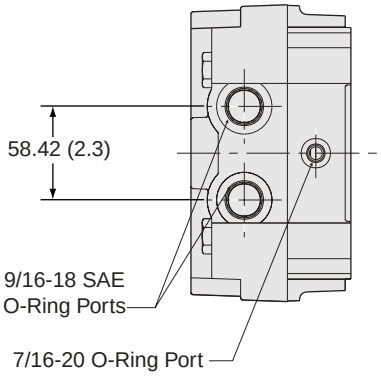
Code: M* US

Manifold



Code: J US

9/16-18 SAE O-Ring



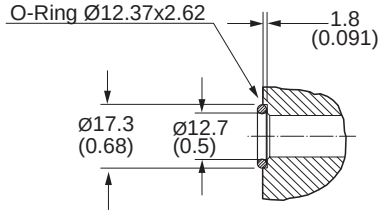
***Note:** Motor with manifold mount is supplied with 2 o-rings.

Zum Motor mit Universalanschluß werden 2 o-ringe geliefert.

Deux joints toriques sont livrés avec les moteurs a plan de raccordement universel.

El motor con montaje de distribuidor se suministra con 2 sellos toroidales.

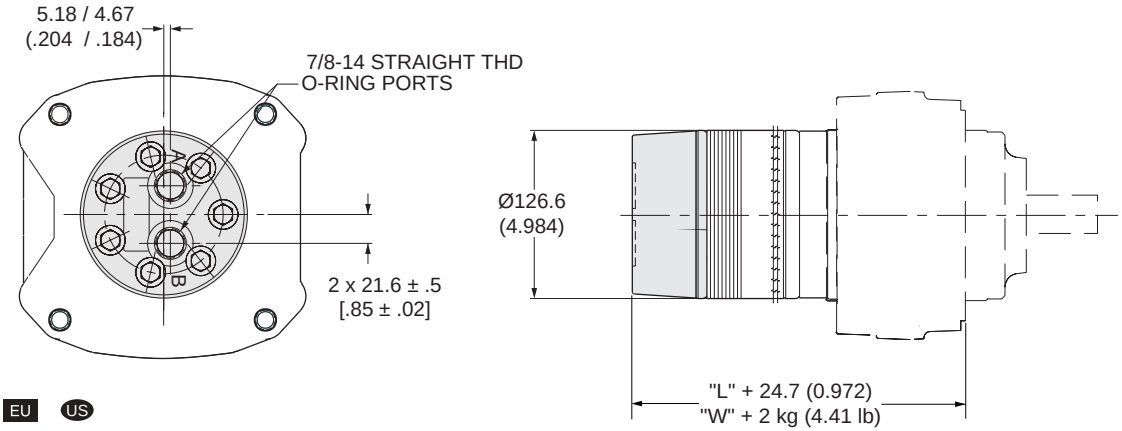
A-A



English equivalents for metric specifications are shown in ( ).

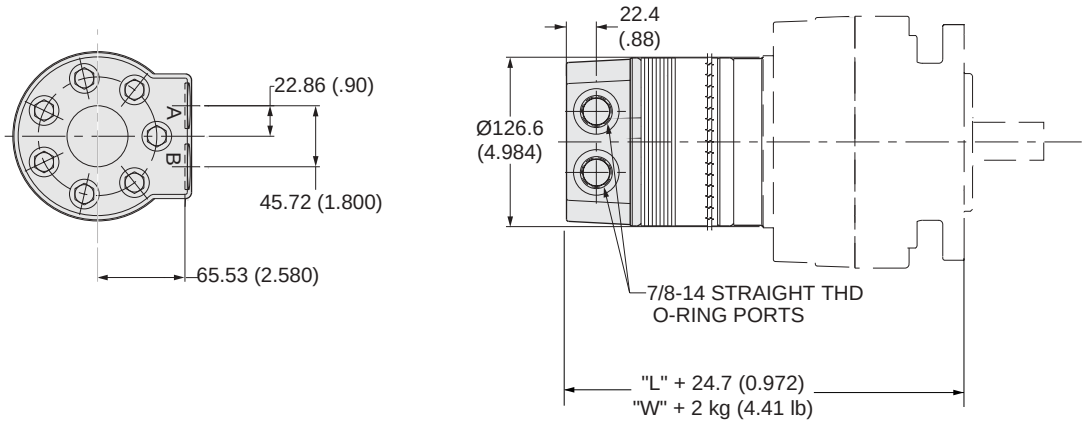
Code: A EU NA

7/8-14 SAE O-Ring, Axial



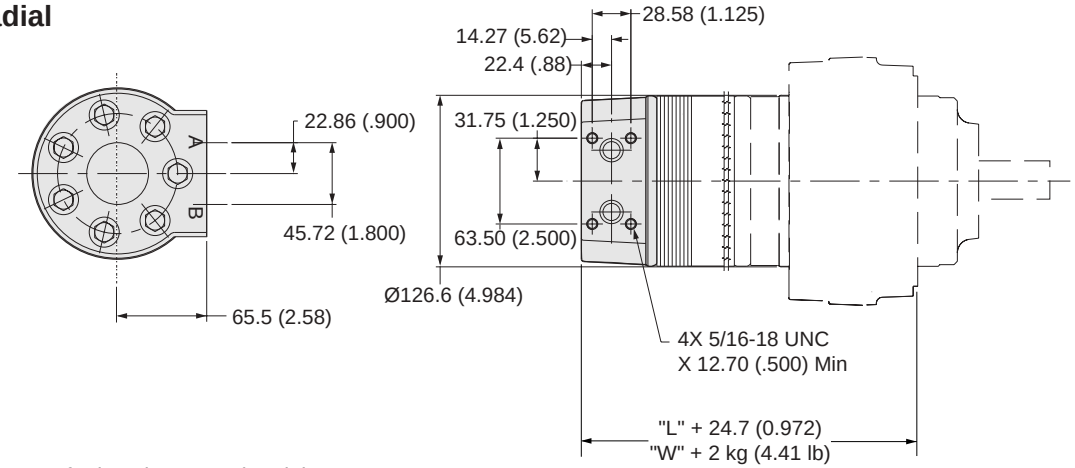
Code: B EU US

7/8-14 SAE O-Ring, Radial



Code: E US

Manifold, Radial

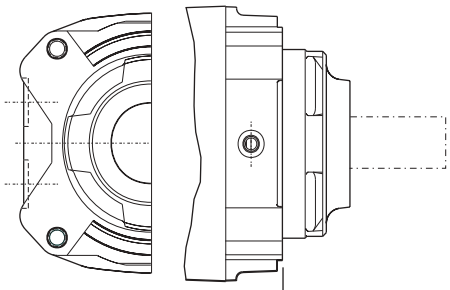


See pages C172 - C173 for length " L " and Weight " W ".
Längen " L " / Gewichte "W" siehe Seite C172 - C173.
Voir page C172 - C173 pour les longueurs “L” et les poids “W”
Consultar en la Página C172 - C173 los valores de largo “L” y peso “W”.

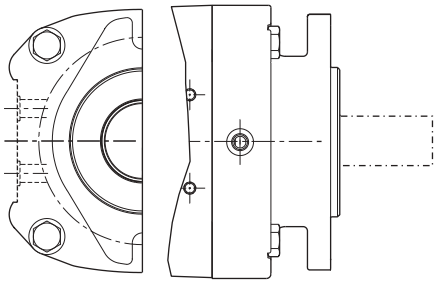
English equivalents for metric specifications are shown in ( ).

BGRev001.p65,pfm

Code A & C

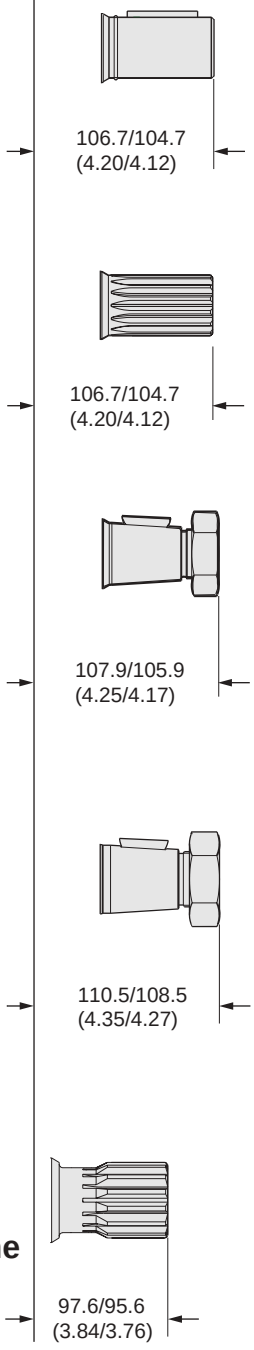


Code B



Code: 03 US

1 1/4" Keyed



Code: 05 US

1 1/4" 14 Tooth Spline

Code: 08 EU US

1 1/4" Taper

Code: 19 US

1 3/8" J501 Taper

Code: 62 US

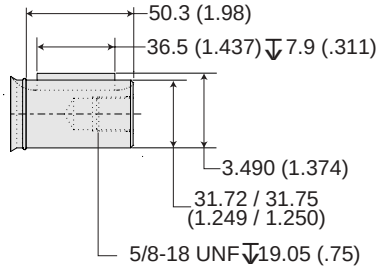
SAE 14 Tooth Spline

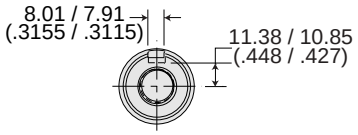
English equivalents for metric specifications are shown in ( ).

BGRev001.p65,pfm

Code: 03 US

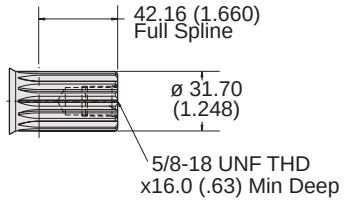
1 1/4" Keyed

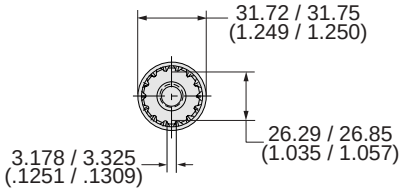




Code: 05 US

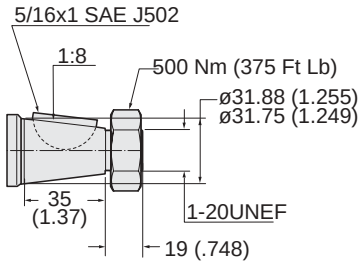
1 1/4" 14 Tooth Spline

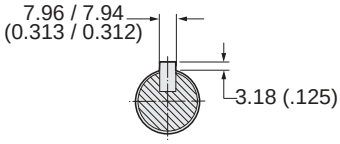




Code: 08 EU US

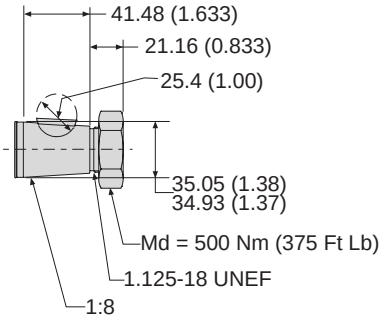
1 1/4" Taper

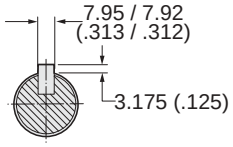




Code: 19 US

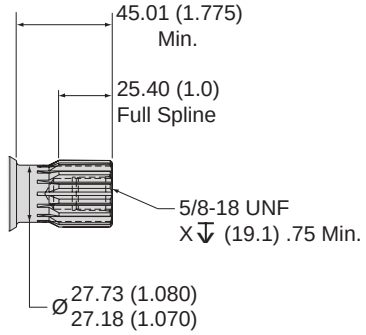
1 3/8" J501 Taper

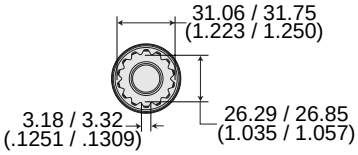




Code: 62 US

SAE 14 Tooth Spline





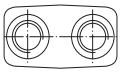
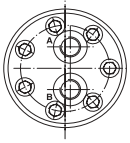
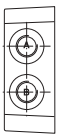
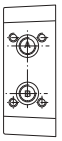
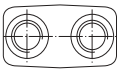
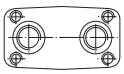
C

English equivalents for metric specifications are shown in ( ).

BG	XXXX	X	X	XX	X	XXXX
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting Gehäuse Carter Montaje	Ports Anschluß Plan de raccordement Lumbreras	Shaft Welle Arbre Eje	Rotation Drehrichtung Direction de rotation Rotacion	Options Opciones

Code	cm³/U / cm³/rev cm³/tr / cm³/giro
0140	8.6 / 141
0170	10.3 / 169
0195	12.0 / 195
0240	14.5 / 237
0280	17.1 / 280
0335	20.6 / 335
0405	24.7 / 405
0475	29.1 / 477
0530	32.3 / 530
0625	38.0 / 625
0785	48.0 / 785
0960	58.5 / 960

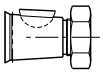
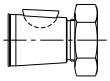
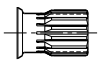
Code	Mounting	Avail.
A	Front Mtg/Front Bolting 1/2-13 UNC Thd 	US
B	SAE "B" 2 Bolt 	US
C	Rear Mtg/Thru Bolting 	NA

Code	Ports	Avail.
S	7/8-14 SAE 	US
A	7/8-14 UNF, Axial 	US
B	7/8-14 UNF, Radial 	US
E	Manifold Rear 	US
J	9/16-18 SAE 	US
M	Manifold Front 	US

Code	Front Port Rotation	Avail.
0	Standard 	US
1	Reverse Timed Manifold 	US

Rear Ports
Endanschluß
Alimentazione Laterale
Orifices arriér

Code	Rear Port Rotation	Avail.
0	Standard 	US
1	Reverse Timed Manifold 	US

Code	Shaft	Avail.
03	1 1/4" Keyed 	US
05	1 1/4" 14 Tooth Spline 	US
08	1 1/4" Tapered* 	US
19	1 3/8" Tapered* 	US
62	SAE 14 Tooth Spline 	US

* Castle nut available on Tapered Shafts Only.
Ecrou a creneaux degages disponible pour l'arbre conique seulement
Solo eje conico viene con tuerca entallada

Code	Description	Avail.
AAAB	No Paint No lackiert	US
AAAA	Black Paint Schwarz lackiert	US

See Page 219 for Additional Options

C