

13 Displacements	(8.6 to 58.5 in³/rev)	
13 Schluckvolumen	140 . . . 959 cm³/rev	
13 Cylindrée		
13 Desplazamientos		
	Cont.	Int.
Maximum Pressure	(3000 psid)	(4000 psid)
Eingangsdruk	. . . 207 bar	. . . 276 bar
Pression entrée		
Presion Maxima		
Maximum Oil Flow	(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		
Maximum Side Load at Key	(3597 lb)	
Seitenlast	. . . 16000 N	
Charges latérales		
Carga Maxima Lateral		

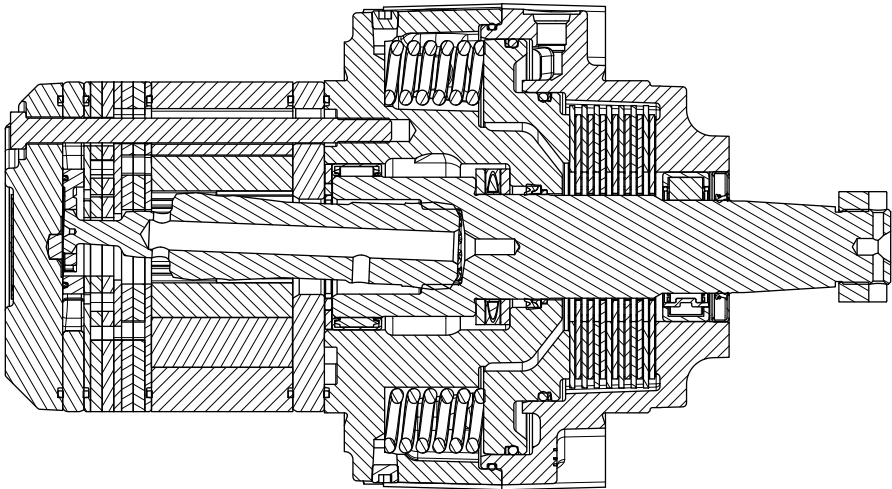
CAUTION!
See installation/operating instructions for product cautions and proper use.

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. Standard holding capacity is 12,000 lb in of holding torque. The brake is front mounted for reliable operation even in the event of a system failure. The brake release port is capable of pressures to 3000 PSI.

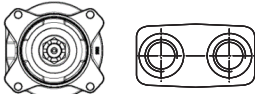
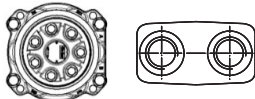
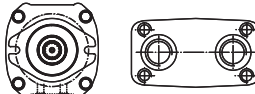
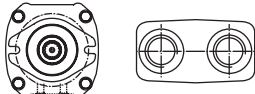
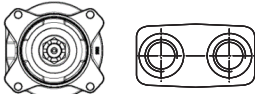
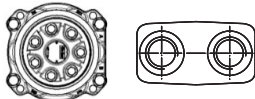
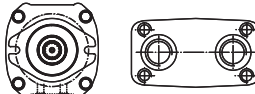
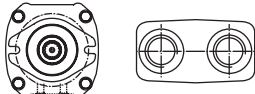
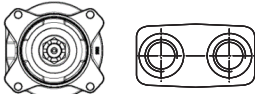
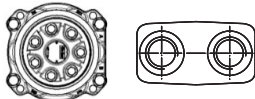
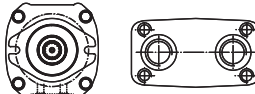
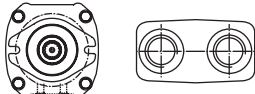


Rated Brake Holding Capacity @ Zero Release Pressure Nm (in-lbs)	Minimum Full Release Pressure bar (PSI)
1350 (12,000)	16.5 (240)
12,000 in-lbs is standard holding capacity. For other holding capacities, see option codes.	



* With optional spring package.



BG	XXXX	XX	XX																																																																
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting/Ports Gehäuse/Anschluß Carter/Plan de raccordement Montaje/Lumbreras	Shaft Welle Arbre Eje																																																																
<table><tr><th>Code</th><th>cm³/tr cm³/giro cm³/U</th><th>in³/rev</th></tr><tr><td>0140</td><td>141</td><td>8.6</td></tr><tr><td>0170</td><td>169</td><td>10.3</td></tr><tr><td>0195</td><td>195</td><td>11.9</td></tr><tr><td>0240</td><td>238</td><td>14.5</td></tr><tr><td>0280</td><td>280</td><td>17.1</td></tr><tr><td>0310</td><td>310</td><td>18.9</td></tr><tr><td>0335</td><td>337</td><td>20.6</td></tr><tr><td>0360</td><td>360</td><td>22.2</td></tr><tr><td>0405</td><td>405</td><td>24.7</td></tr><tr><td>0475</td><td>477</td><td>29.1</td></tr><tr><td>0530</td><td>528</td><td>32.3</td></tr><tr><td>0625</td><td>623</td><td>38.0</td></tr><tr><td>0785</td><td>786</td><td>48.0</td></tr><tr><td>0960</td><td>959</td><td>58.5</td></tr></table>		Code	cm³/tr cm³/giro cm³/U	in³/rev	0140	141	8.6	0170	169	10.3	0195	195	11.9	0240	238	14.5	0280	280	17.1	0310	310	18.9	0335	337	20.6	0360	360	22.2	0405	405	24.7	0475	477	29.1	0530	528	32.3	0625	623	38.0	0785	786	48.0	0960	959	58.5	<table><tr><th>Code</th><th>Mounting/Ports</th></tr><tr><td>AS</td><td>Front Mtg/Front Bolting, 1/2-13 UNC Thd 7/8-14 SAE </td></tr><tr><td>CS</td><td>Rear Mtg/Thru Bolting, 7/8-14 SAE </td></tr><tr><td rowspan="2">Custom Order</td><td>BM SAE "B" 2 Bolt, 5/16-18 UNC Manifold </td></tr><tr><td>BS SAE "B" 2 Bolt, 7/8-14 SAE </td></tr></table>	Code	Mounting/Ports	AS	Front Mtg/Front Bolting, 1/2-13 UNC Thd 7/8-14 SAE 	CS	Rear Mtg/Thru Bolting, 7/8-14 SAE 	Custom Order	BM SAE "B" 2 Bolt, 5/16-18 UNC Manifold 	BS SAE "B" 2 Bolt, 7/8-14 SAE 	<table><tr><th>Code</th><th>Shaft</th></tr><tr><td>03</td><td>1 1/4" Keyed </td></tr><tr><td>05</td><td>1 1/4" 14 Tooth Spline </td></tr><tr><td>08</td><td>1 1/4" Tapered* </td></tr><tr><td>Custom Order</td><td>19 1 3/8" J501 Tapered* </td></tr></table>	Code	Shaft	03	1 1/4" Keyed 	05	1 1/4" 14 Tooth Spline 	08	1 1/4" Tapered* 	Custom Order	19 1 3/8" J501 Tapered* 
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Speed Sensor	ES (30C)	Front Mtg/Front Bolting, 1/2-13 UNC Thd 7/8-14 SAE
	FS (90C)	Front Mtg/Front Bolting, 1/2-13 UNC Thd 7/8-14 SAE

Speed Sensor	GS (30C)	Rear Mtg/Thru Bolting, 7/8-14 SAE
	HS (90C)	Rear Mtg/Thru Bolting, 7/8-14 SAE

For performance data curves, see TG section.

Shaded areas indicate custom order components. Standard pricing and delivery terms may not apply to these components. Please refer to the price list for details, or consult your Parker Pump Motor division Sales Resource.

0

Rotation
Drehrichtung
Direction de rotation
Rotacion

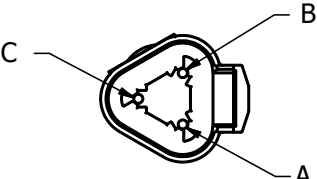
Code	Front Port Rotation
0	Standard 
1	Reverse Timed Manifold 

XXXX

Options
Opciones

Code	Options
AAAA	"Standard", Black Paint (045134)
AAAB	"Standard", No Paint
AAMN	"Standard", Black Paint (045134), 16,000 in-lbs holding torque
AAXY	"Standard", Black Paint (045134), 9,000 in-lbs holding torque

Speed Sensor (DT04-3P Connector Shown)



FUNCTION	COLOR	PIN / TERM
SUPPLY (V+)	RED	A
GROUND	BLACK	B
OUTPUT	WHITE	C

SPEED SENSOR NOTES:

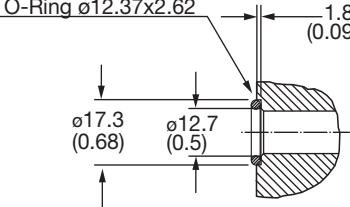
1. SENSOR CHARACTERISTICS:

OPERATING VOLTAGE RANGE: 5 TO 27 VDC
OPERATING TEMPERATURE RANGE: -40° TO 110° C
OPERATING FREQUENCY RANGE: 0 TO 15 kHz
MAXIMUM SUPPLY CURRENT: 13.5 mA
OUTPUT: OPEN COLLECTOR (NO INTERNAL PULL-UP RESISTOR,
470 OHM SERIES REVERSE POLARITY PROTECTION)
SENSOR PROVIDES REVERSE POLARITY PROTECTION

2. SENSOR AND TARGET OUTPUT: 30 PULSE PER REVOLUTION

*Note:

A-A



Motor with manifold mount is supplied with 2 o-rings.

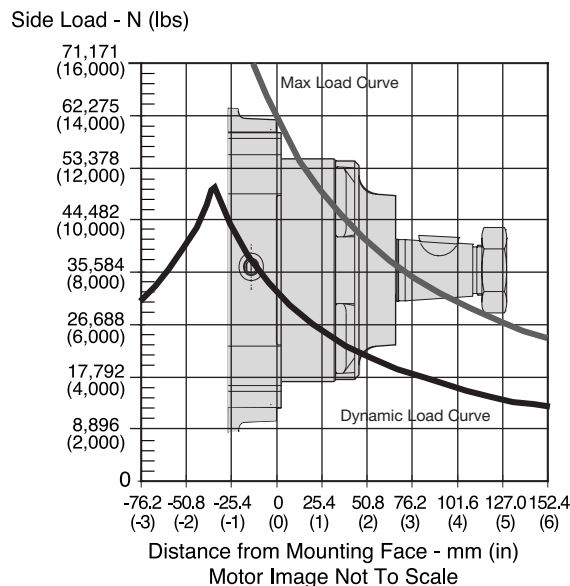
Zum Motor mit Universalanschluß werden 2 o-ringe geliefert.

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.

Shaded areas indicate custom order components. Standard pricing and delivery terms may not apply to these components. Please refer to the price list for details, or consult your Parker Pump Motor division Sales Resource.

Wheel Mount/Radnabengehaue Monture à roue/ Montaje de rueda



The dynamic side load curve is based on uni-directional steady state loads for L_{10} bearing life at 3×10^6 revolutions.

Die zulässige auslegbare radiale Wellenbelastungskurve ist unter ruhenden, einseitig statisch gerichteten Lastverhältnissen auf eine L_{10} Lebensdauer mit 3×10^6 Umdrehungen kalkuliert.

La courbe de charge latérale permise se base sur des charges unidirectionnelles en régime permanent pour le roulement L_{10} à 3×10^6 révolutions.

La curva de valores admisibles de carga lateral está basada en cargas constantes para cojinetes L_{10} a 3×10^6 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 provisionarias de impacto.

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

Equation to calculate the dynamic bearing life 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 = Dynamic 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} Lebensdauer nach ISO 281

012 BG Brake.indd, b

198

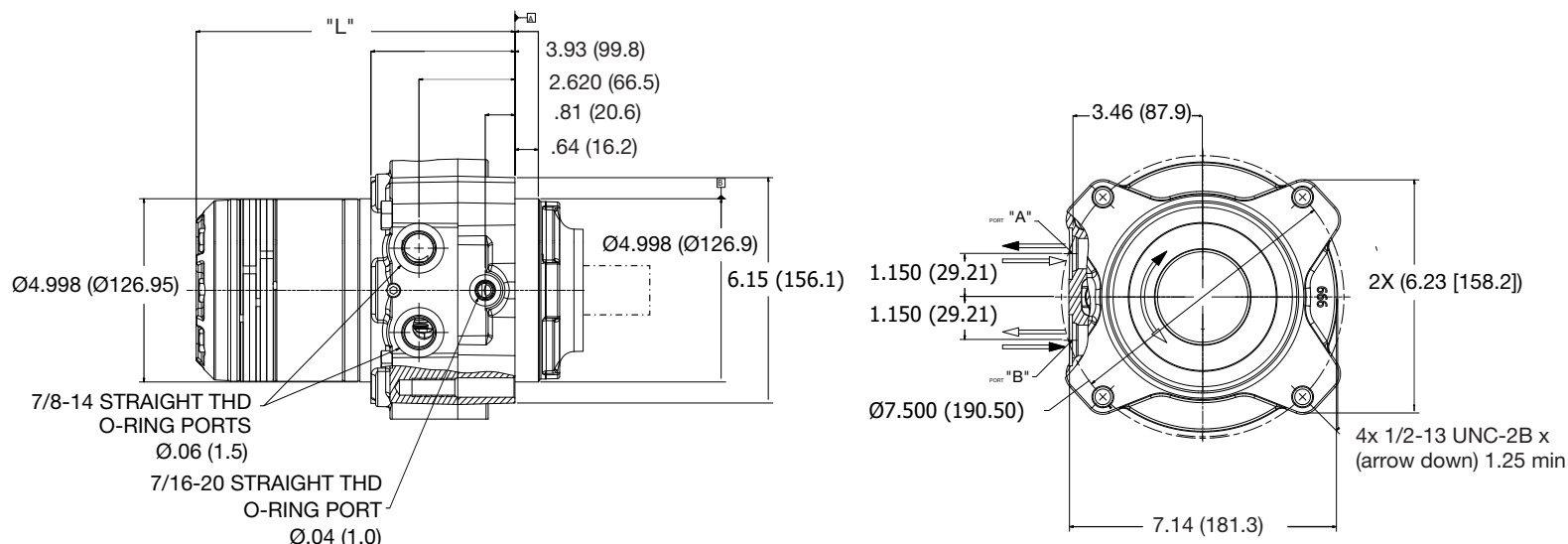


WARNING
This product can expose you to chemicals including lead and DEHP, which are known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

Parker Hannifin Corporation
Pump & Motor Division
Greeneville, Tennessee, USA

Code: AS

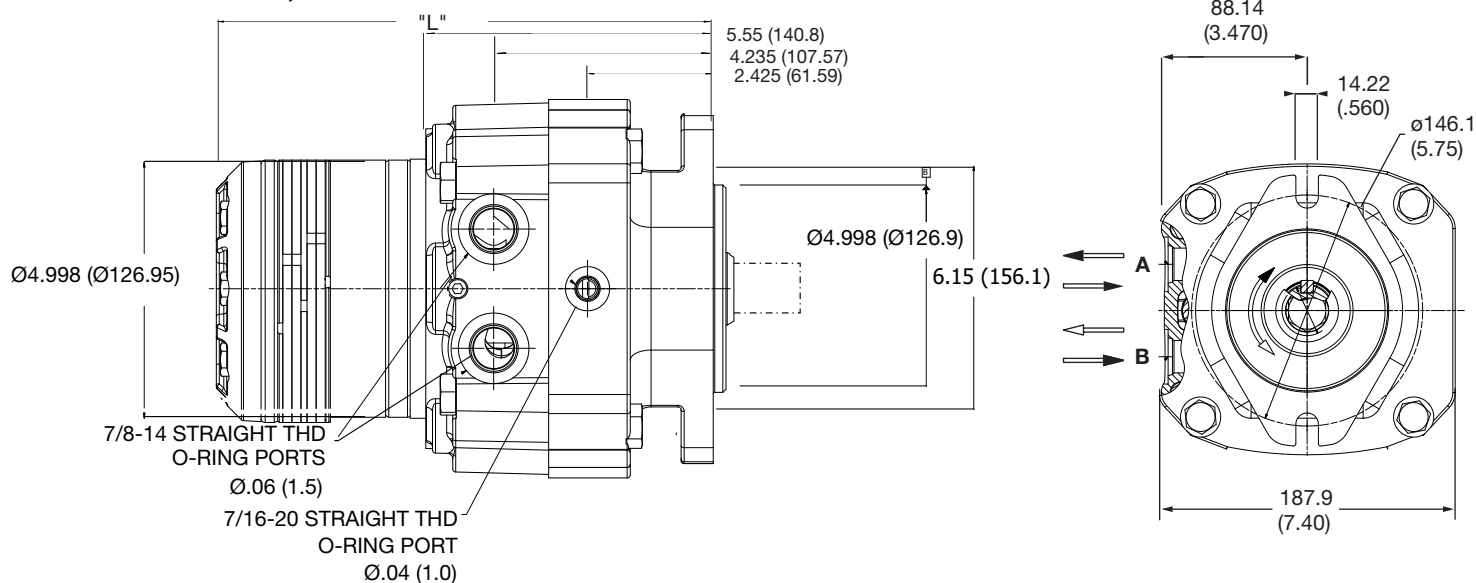
Front Mounting / Front Bolting, 7/8-14 SAE O-Ring



Code AS	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht kg	26.6	26.9	27.1	27.5	27.9	28.3	28.9	29.6	30.3	31.1	32.6	34.3
Poids/Peso (lb)	(58.7)	(59.3)	(59.8)	(60.6)	(61.5)	(62.4)	(63.7)	(65.2)	(66.8)	(68.4)	(71.8)	(75.6)
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: BS

SAE "B" 2 Bolt, 7/8-14 SAE

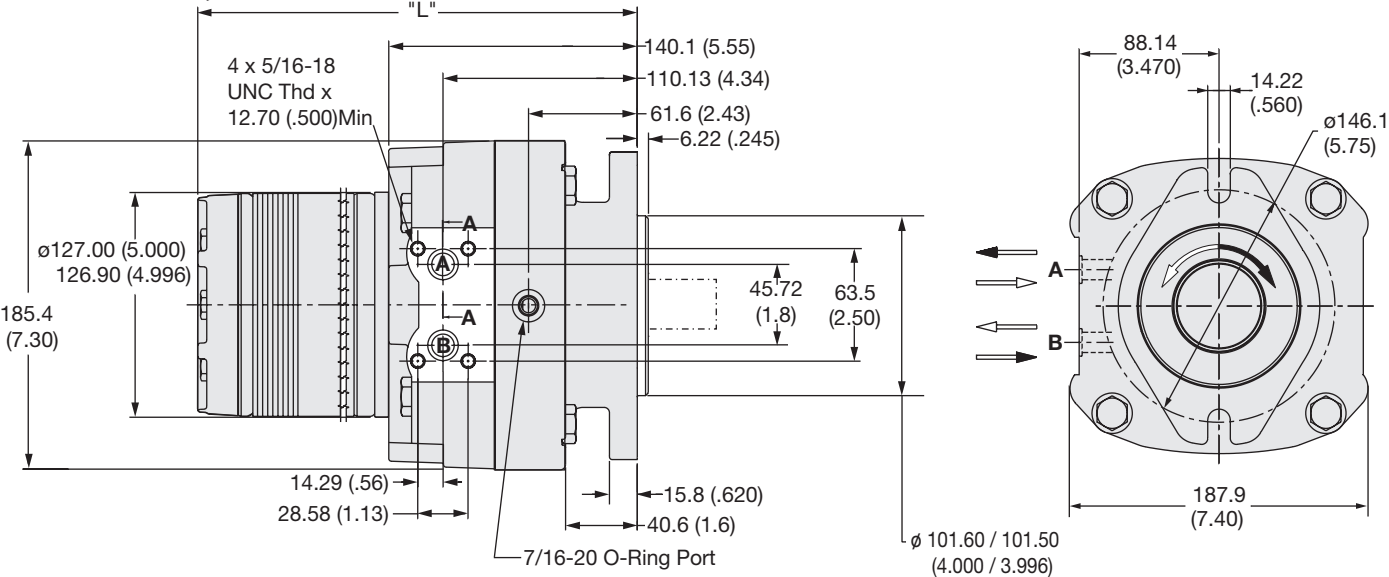


Code BS	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht kg	28	28.2	28.5	28.8	29.2	29.6	30.2	30.2	31.6	32.4	33.9	35.6
Poids/Peso (lb)	(61.6)	(62.2)	(62.7)	(63.5)	(64.4)	(65.3)	(66.6)	(68.1)	(69.7)	(71.3)	(74.7)	(78.5)
Length "L" mm	233.2	236.4	239.6	244.3	249.1	255.4	262.8	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)



Code: BM*

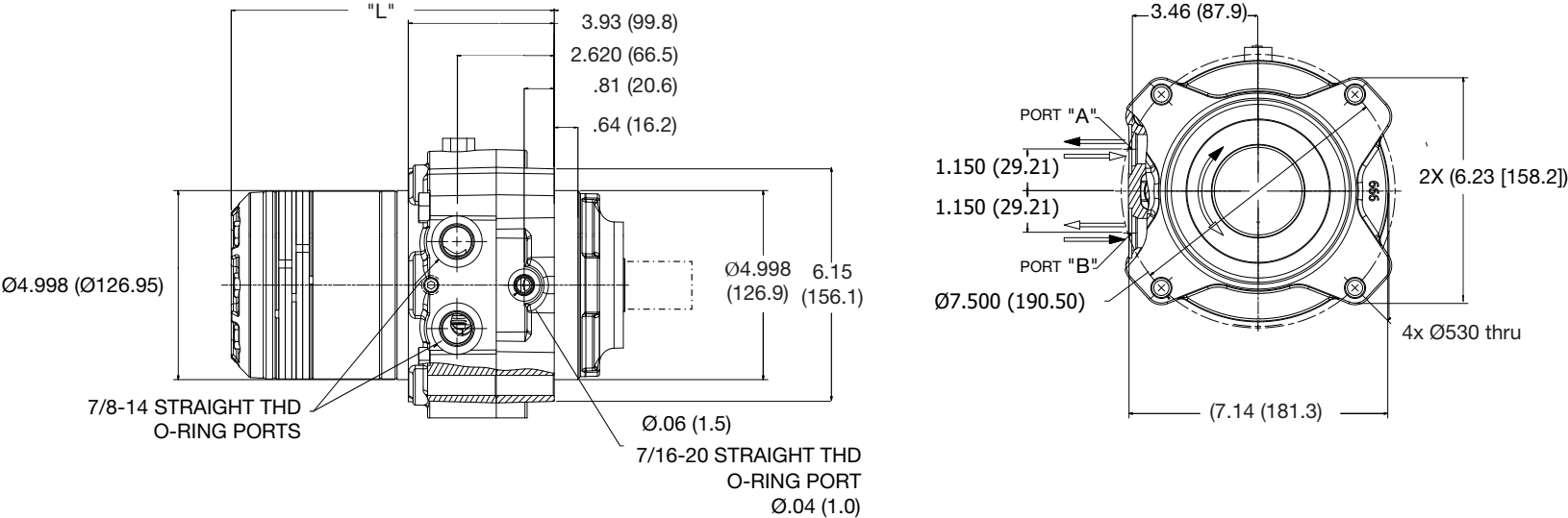
SAE "B" 2 Bolt, Manifold



Code BM	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht kg	28	28.2	28.5	28.8	29.2	29.6	30.2	30.2	31.6	32.4	33.9	35.6
Poids/Peso (lb)	(61.6)	(62.2)	(62.7)	(63.5)	(64.4)	(65.3)	(66.6)	(68.1)	(69.7)	(71.3)	(74.7)	(78.5)
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)

Code: CS

Rear Mounting/Thru Bolting, 7/8-14 SAE O-Ring



Code CS	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht kg	26.6	26.9	27.1	27.5	27.9	28.3	28.9	29.6	30.3	31.1	32.6	34.3
Poids/Peso (lb)	(58.7)	(59.3)	(59.8)	(60.6)	(61.5)	(62.4)	(63.7)	(65.2)	(66.8)	(68.4)	(71.8)	(75.6)
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)

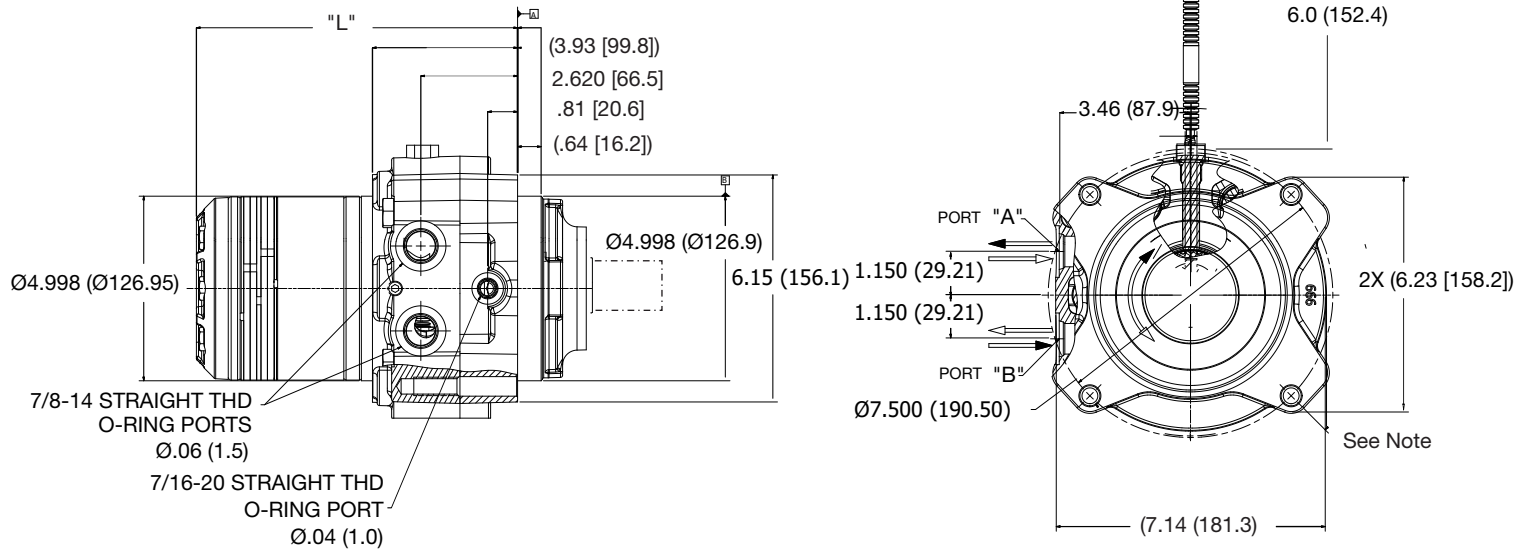


WARNING
 This product can expose you to chemicals including lead and DEHP, which are known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

Parker Hannifin Corporation
 Pump & Motor Division
 Greeneville, Tennessee, USA

Code: ES/FS/GS/HS (ES Shown)

Front Mounting / Front Bolting, 7/8-14 SAE O-Ring

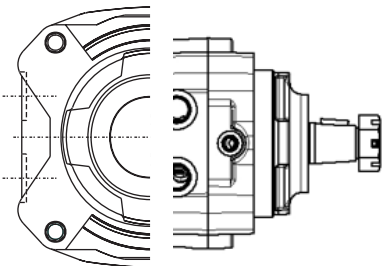


Code AS	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Weight / Gewicht kg	26.6	26.9	27.1	27.5	27.9	28.3	28.9	29.6	30.3	31.1	32.6	34.3
Poids/Peso (lb)	(58.7)	(59.3)	(59.8)	(60.6)	(61.5)	(62.4)	(63.7)	(65.2)	(66.8)	(68.4)	(71.8)	(75.6)
Length "L" mm	192.3	195.3	198.6	203.2	208.0	214.4	221.7	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)

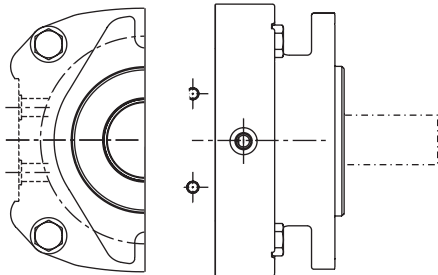
Note: ES/FS - 4x 1/2-13 UNC X 1.25 MIN thread Depth;

GS/HS - 4x Ø.530 diameter through hole

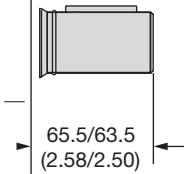
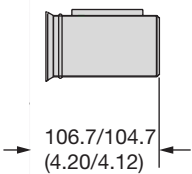
Code A & C



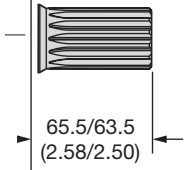
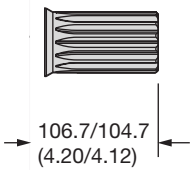
Code B



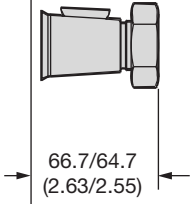
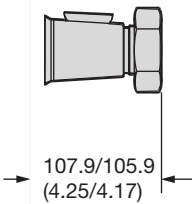
Code: 03
1 1/4" Keyed



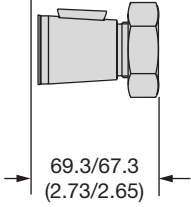
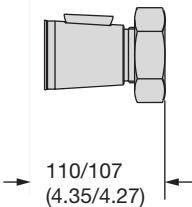
Code: 05
1 1/4" 14 Tooth Spline



Code: 08
1 1/4" Taper



Code: 19
1 3/8" J501 Taper

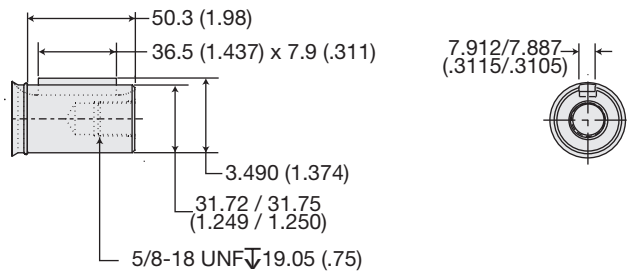


WARNING
This product can expose you to chemicals including lead and DEHP, which are known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

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Greeneville, Tennessee, USA

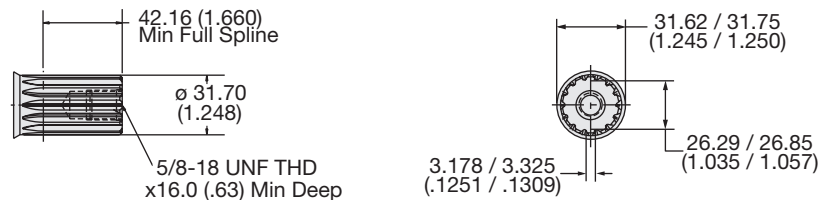
Code: 03

1 1/4" Keyed



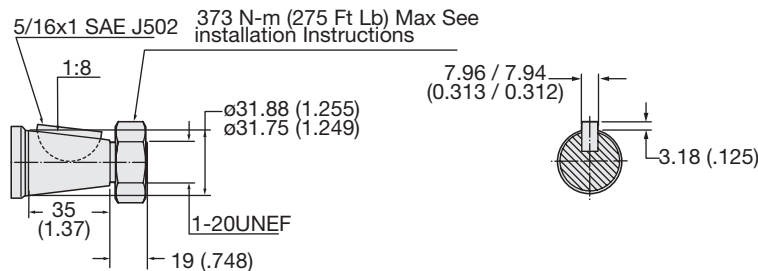
Code: 05

1 1/4" 14 Tooth Spline



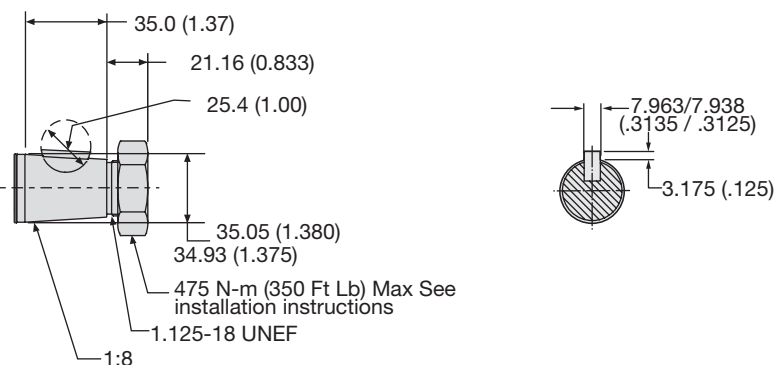
Code: 08

1 1/4" Taper



Code: 19

1 3/8" J501 Taper



English equivalents for metric specifications are shown in ().

012 BG Brake.indd, b

202



WARNING

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