

13 Displacements 13 Schluckvolumen 13 Cylindrée 13 Despazamientos	(8.6 to 58.5 in ³ /rev) 141 . . . 959 cm ³ /rev
Maximum Pressure Eingangsdruk Pression entrée Presion Maxima	Cont. (3000 psid) ... 207 bar Int. (4000 psid) ... 276 bar
Maximum Oil Flow Schluckstrom Débit d'huile Caudal Maximo de Aceite	(30 gpm) ... 114 lpm
Maximum Speed Drehzahl Vitesse de rotation Velocidad Maxima	(660 rpm) 660 rpm
Maximum Torque MaxDrehmoment Couple Torque Maximo	Cont. (9,239 lb in) 1044 Nm Int. (12,636 lb in) 1428 Nm
Maximum Side Load at Key Seitenlast Charges latérales Carga Maxima Lateral	(4790 lb) ... 21306 N

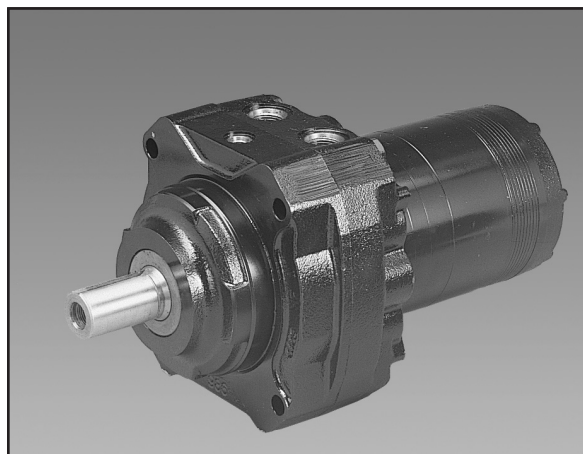


CAUTION!

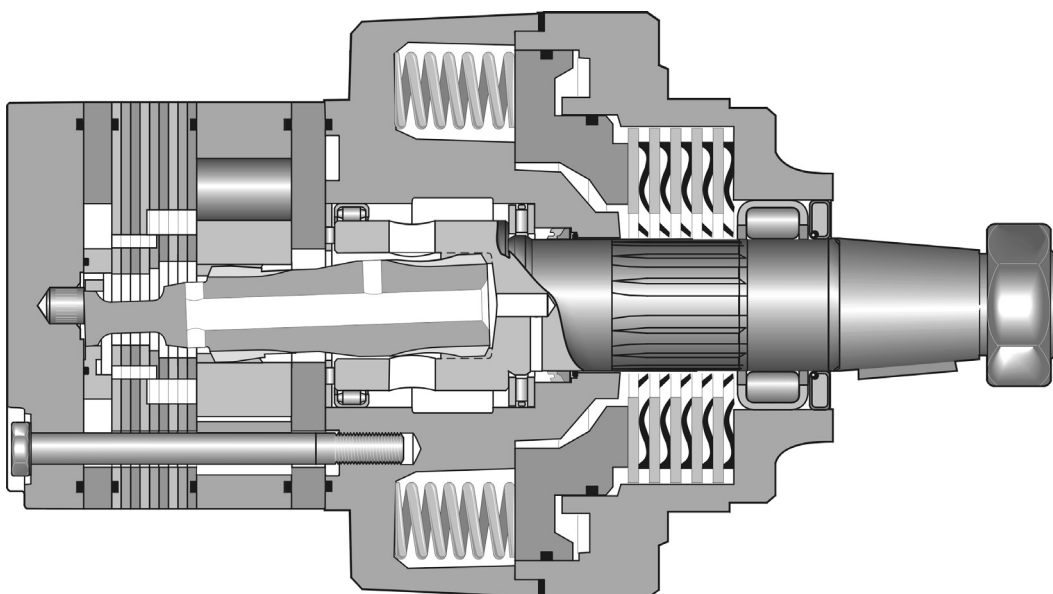
See installation/operating instructions for product cautions and proper use.

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

This brake motor consists of a BH Series motor integrated into a wet disc, spring applied, hydraulically released brake. Standard holding capacity is 16,000 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.

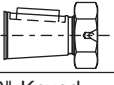



Rated Brake Holding Capacity @ Zero Release Pressure Nm (in-lbs)	Minimum Full Release Pressure bar (PSI)
1800 (16,000)	22 (315)
16,000 in-lbs is standard holding capacity. For other holding capacities, see page 287.	





XX

Shaft
Welle
Arbre
Eje

Code	Shaft
31	1 1/2" J501 Taper 
32	1 1/2" Keyed 

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
AAAB	Standard, No Paint
AAAF ¹⁵	Castle Nut, Black Paint
AABP ¹⁵	Castle Nut, No Paint
AAAG	Fluorocarbon Seals, Black Paint
AAAH	Fluorocarbon Seals, No Paint
AAAJ	High Temperature Commutator Seals, Black Paint
AAFG	High Temperature Commutator Seals, No Paint
AAFW	Fluorocarbon seals, High Temperature Commutator Seals, Black paint
AAFA	Fluorocarbon seals, High Temperature Commutator Seals, No paint
AANG ¹⁵	Fluorocarbon seals, High Temperature Commutator Seals, Castle Nut, Black paint
AADD ¹⁵	Fluorocarbon seals, High Temperature Commutator Seals, Castle Nut, No paint
AABJ	Free Running Rotor Set, Black Paint
AABK	Free Running Rotor Set, No Paint
BBBA ¹⁰	1000 PSI/69 Bar Internal Bidirectional Relief, Black Paint
BBBM ¹⁰	1000 PSI/69 Bar Internal Bidirectional Relief, No Paint
BBBG ¹⁰	1500 PSI/103 Bar Internal Bidirectional Relief, Black Paint
BBBJ ¹⁰	1500 PSI/103 Bar Internal Bidirectional Relief, No Paint
BBBB ^{10,16}	2000 PSI/138 Bar Internal Bidirectional Relief, Black Paint
BBBN ^{10,16}	2000 PSI/138 Bar Internal Bidirectional Relief, No Paint
BBDL ^{10,17}	2500 PSI/172 Bar Internal Bidirectional Relief, Black Paint
BBCG ^{10,17}	2500 PSI/172 Bar Internal Bidirectional Relief, No Paint
BBBC ^{10,18}	3000 PSI/207 Bar Internal Bidirectional Relief, Black Paint
BBBF ^{10,18}	3000 PSI/207 Bar Internal Bidirectional Relief, No Paint
BBBD ^{10,19}	4000 PSI/276 Bar Internal Bidirectional Relief, Black Paint
BBBW ^{10,19}	4000 PSI/276 Bar Internal Bidirectional Relief, No Paint
AANB	6000 lb in Brake Holding Capacity, Black Paint
AAXY	9000 lb in Brake Holding Capacity, Black Paint

¹⁵ Available only with shaft codes 08 and 19

¹⁰ Not available with ports code A, B or E

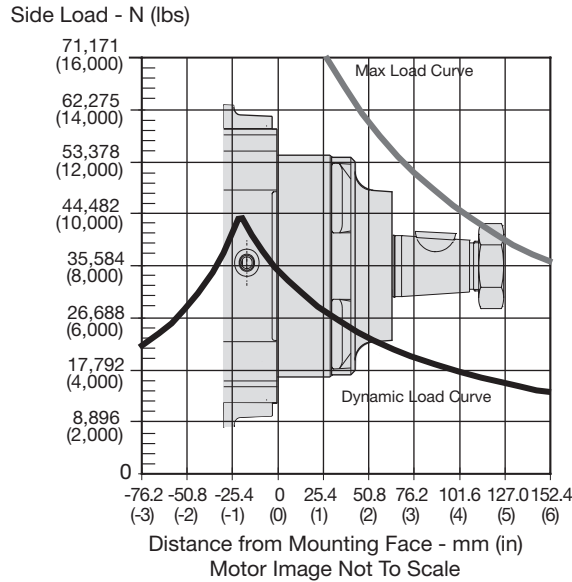
¹⁶ Not available with displacement 0960

¹⁷ Not available with displacements 0625, 0785 or 0960

¹⁸ Not available with displacements 0530, 0625, 0785 or 0960

¹⁹ Not available with displacements 0360, 0405, 0530, 0625, 0785 or 0960

Wheel Mount/Radnabengenhause
Monture à roue/ Montaje de rueda



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.

The dynamic side load curve is based on uni-directional steady state loads for L₁₀ bearing life at 6 x 10⁶ revolutions.
Die zulässige auslegbare radiale Wellenbelastungskurve ist unter ruhenden, einseitig statisch gerichteten Lastverhältnissen auf eine L₁₀ Lebensdauer mit 6 x 10⁶ Umdrehungen kalkuliert.
La courbe de charge latérale permise se base sur des charges unidirectionnelles en régime permanent pour le roulement L₁₀ à 6 x 10⁶ révolutions.
La curva de valores admisibles de carga lateral está basada en cargas constantes para cojinetes L₁₀ a 6 x 10⁶ revoluciones.

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 L₁₀ bearing life.
Die Lebensdauer in Stunden ergibt sich durch einsetzen von F_a, F_b, und S in die nachstehende Formel.

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

Where / Mit:

S = Shaft Speed RPM / Abtriebswellendrehzahl in min⁻¹

L = Life In Hours / Lebensdauer in Stunden

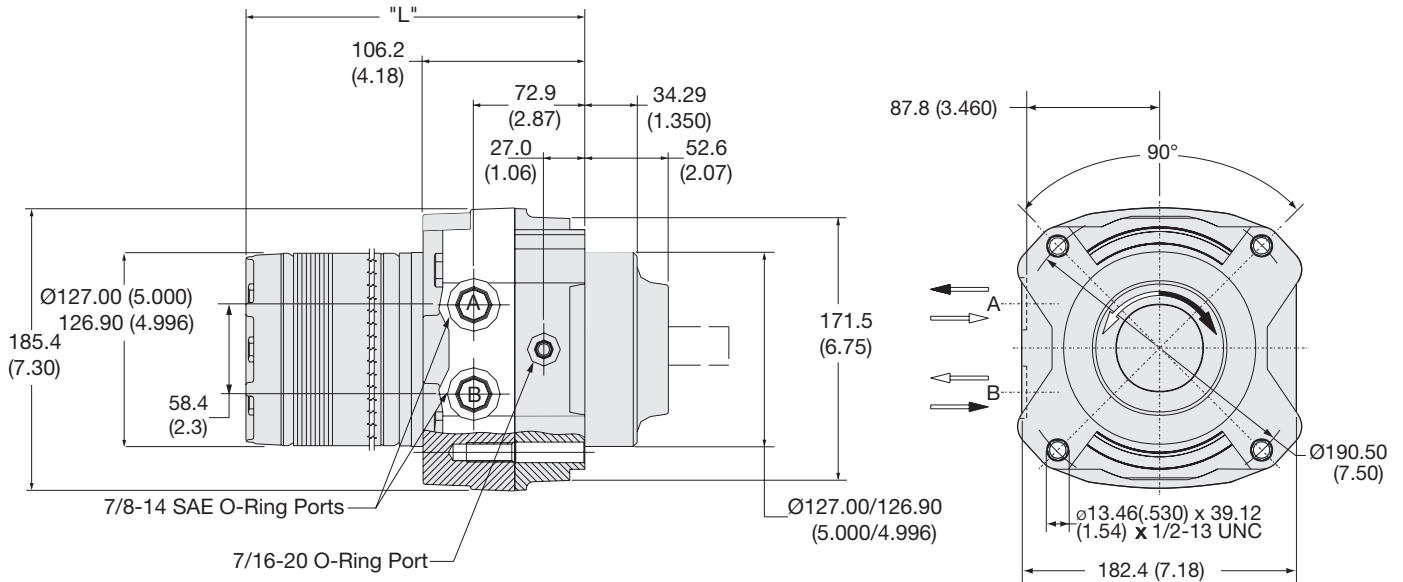
F_a = Dynamic side load defined by above curve at a distance from mounting flange. / Erlaubte radiale Wellenbelastung als Function der Laenge

F_b = Application side load. / Anwendungsseitige Wellenbelastung

Note: Calculations are based on L₁₀ bearing life per ISO 281.
Auslegung basiert auf einer L₁₀ Lebensdauer nach ISO 281

Code: AS

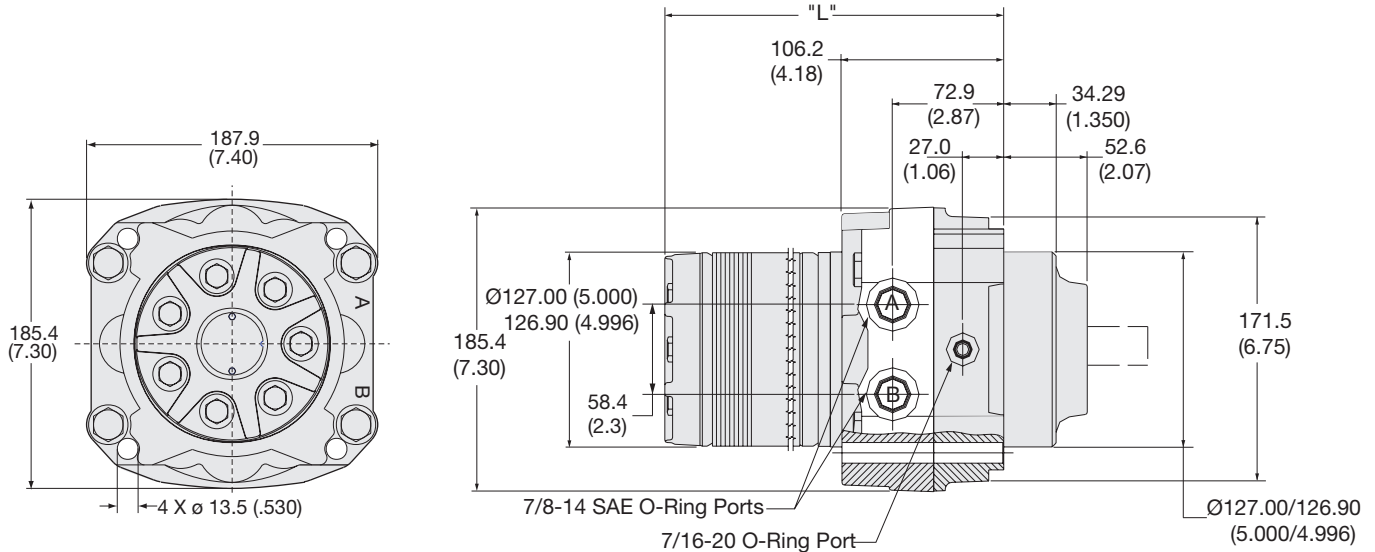
Front Mounting / Front Bolting, 7/8-14 SAE O-Ring



Code AS		0140	0170	0195	0240	0280	0310	0335	0405	0475	0530	0625	0785	0960
Weight/Gewicht	kg	27.3	27.5	27.8	28.1	28.5	28.7	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)	(63.5)	(63.9)	(65.2)	(66.7)	(68.3)	(69.9)	(73.3)	(77.1)
Length	"L" mm	198.6	201.7	205.0	209.6	214.4	217.9	220.7	228.1	236.7	243.1	252.5	271.5	290.6
	"L" (in)	(7.82)	(7.94)	(8.07)	(8.25)	(8.44)	(8.58)	(8.69)	(8.98)	(9.32)	(9.57)	(9.94)	(10.69)	(11.44)

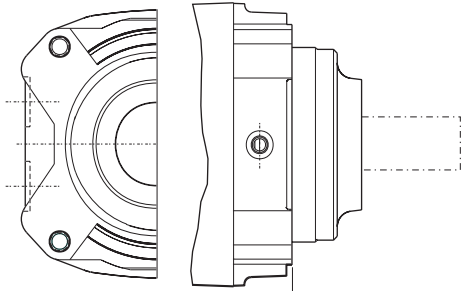
Code: CS

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



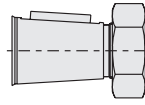
Code CS		0140	0170	0195	0240	0280	0310	0335	0405	0475	0530	0625	0785	0960
Weight/Gewicht	kg	27.3	27.5	27.8	28.1	28.5	28.7	28.9	29.5	30.2	30.9	31.7	33.2	34.9
Poids/Peso	(lb)	(60.2)	(60.8)	(61.3)	(62.1)	(63.0)	(63.5)	(63.9)	(65.2)	(66.7)	(68.3)	(69.9)	(73.3)	(77.1)
Length	"L" mm	198.6	201.7	205.0	209.6	214.4	217.9	220.7	228.1	236.7	243.1	252.5	271.5	290.6
	"L" (in)	(7.82)	(7.94)	(8.07)	(8.25)	(8.44)	(8.58)	(8.69)	(8.98)	(9.32)	(9.57)	(9.94)	(10.69)	(11.44)

English equivalents for metric specifications are shown in ().



Code: 31

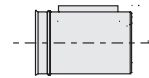
1 1/2" J501 Taper



130.0
(5.12)

Code: 32

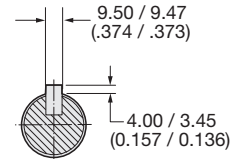
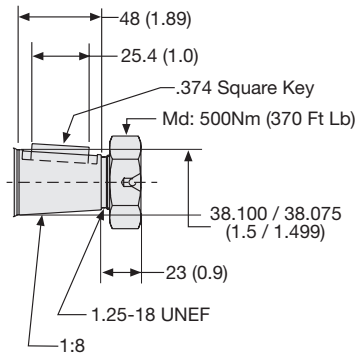
1 1/2" Keyed



116.4
(4.58)

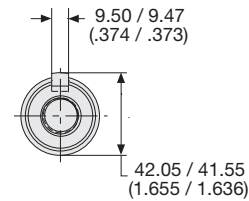
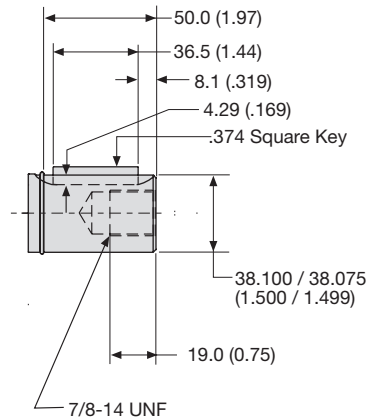
Code: 31

1 1/2" J501 Taper



Code: 32

1 1/2" Keyed



English equivalents for metric specifications are shown in ().