

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

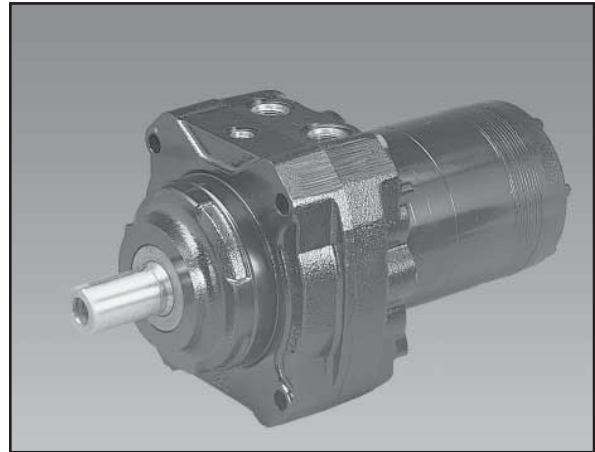


**CAUTION!**

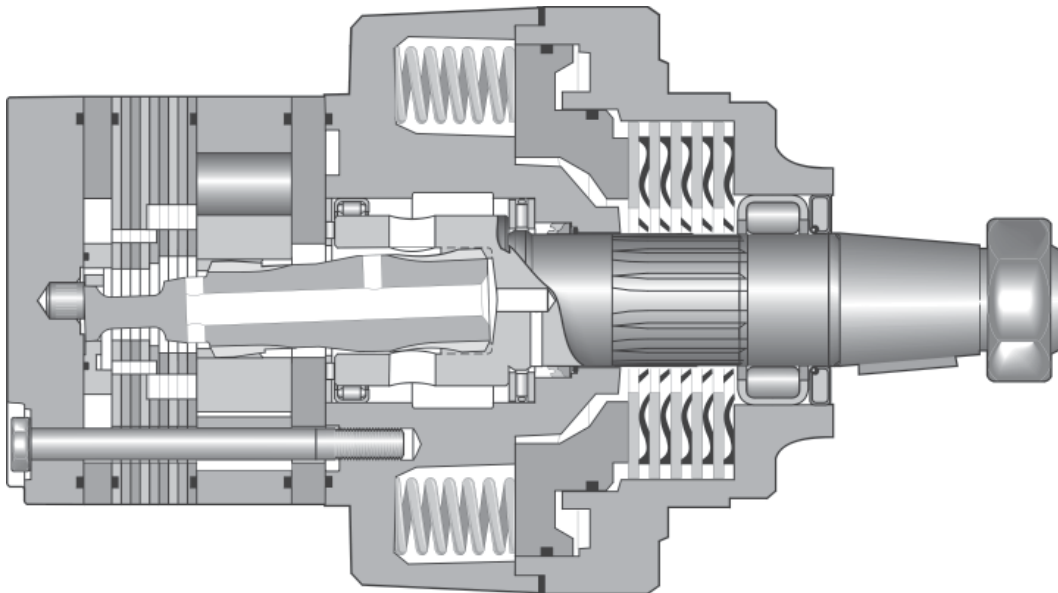
See installation/operating instructions for product cautions and proper use.

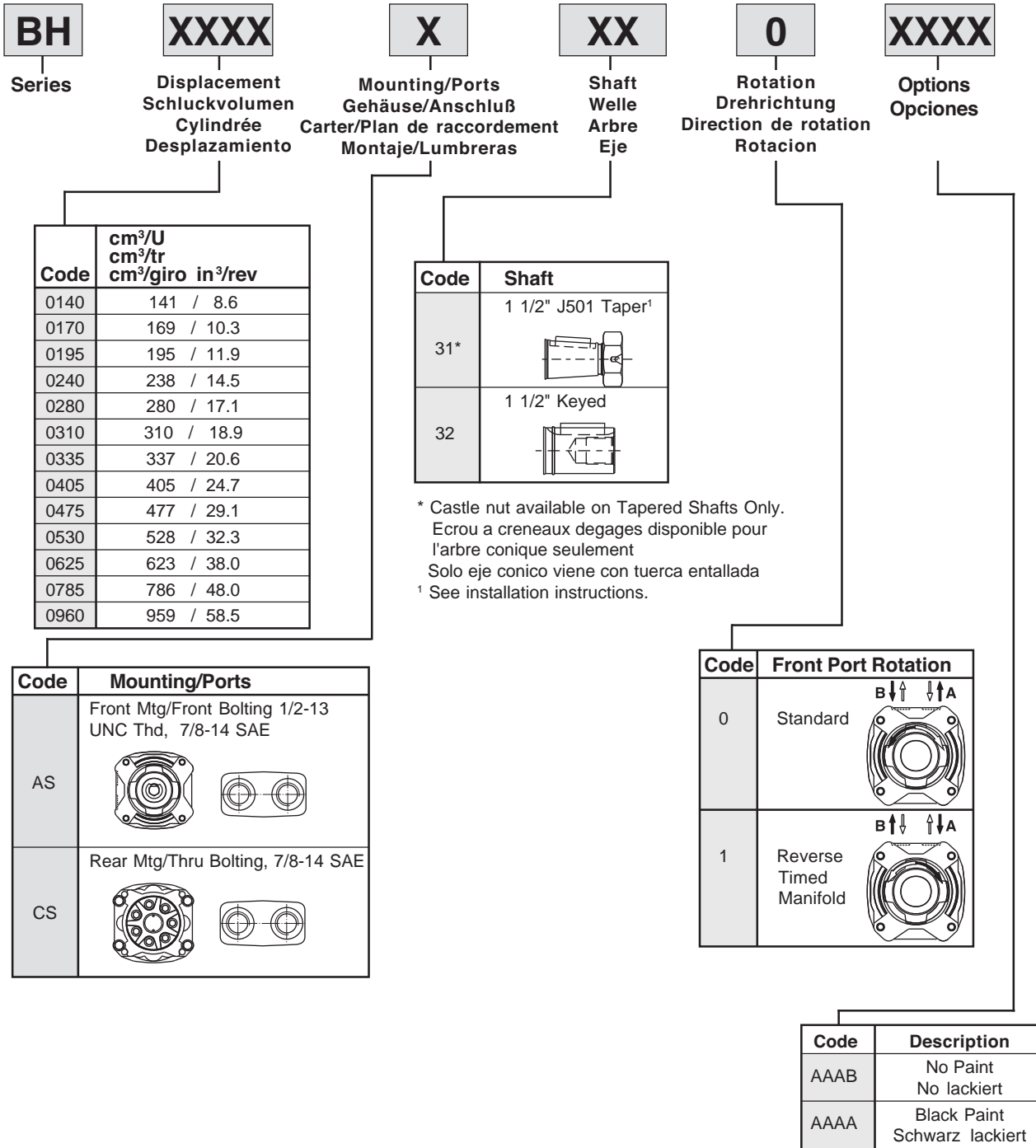
**Exceptional Strength and Durability in a High Performance Motor/Brake Package**

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<br>Nm (in-lbs)                     | Minimum Full Release Pressure<br>bar (PSI) |
|---|--|
| 1800 (16,000)   | 22 (315)                                   |
| 16,000 in-lbs is standard holding capacity. For other holding capacities, see page 261. |  |

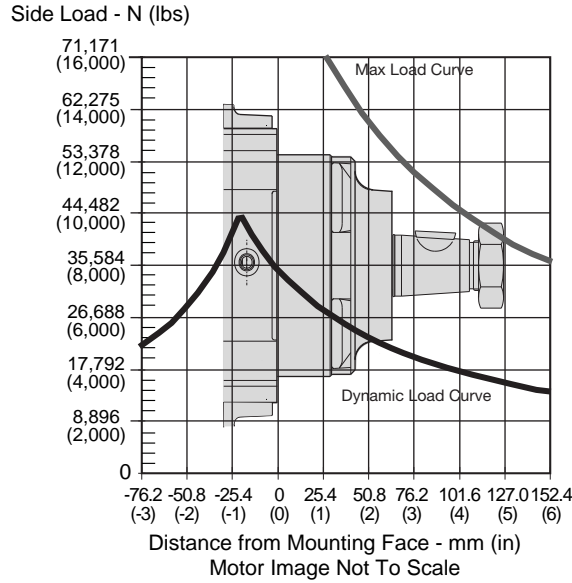




For performance data curves, see TH section.

For other available options, see pages 261–262.

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 provisorias de impacto.

The dynamic side load curve is based on uni-directional steady state loads for  $L_{10}$  bearing life at  $6 \times 10^6$  revolutions. Die zulässige auslegbare radiale Wellenbelastungskurve ist unter ruhenden, einseitig statisch gerichteten Lastverhältnissen auf eine  $L_{10}$  Lebensdauer mit  $6 \times 10^6$  Umdrehungen kalkuliert.  
La courbe de charge latérale permise se base sur des charges unidirectionnelles en régime permanent pour le roulement  $L_{10}$  à  $6 \times 10^6$  révolutions.  
La curva de valores admisibles de carga lateral está basada en cargas constantes para cojinetes  $L_{10}$  a  $6 \times 10^6$  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  $L_{10}$  bearing life.  
Die Lebensdauer in Stunden ergibt sich durch einsetzen von  $F_a$ ,  $F_b$ , und S in die nachstehende Formel.

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

Where / Mit:

S = Shaft Speed RPM / Abtriebswellendrehzahl in  $\text{min}^{-1}$

L = Life In Hours / Lebensdauer in Stunden

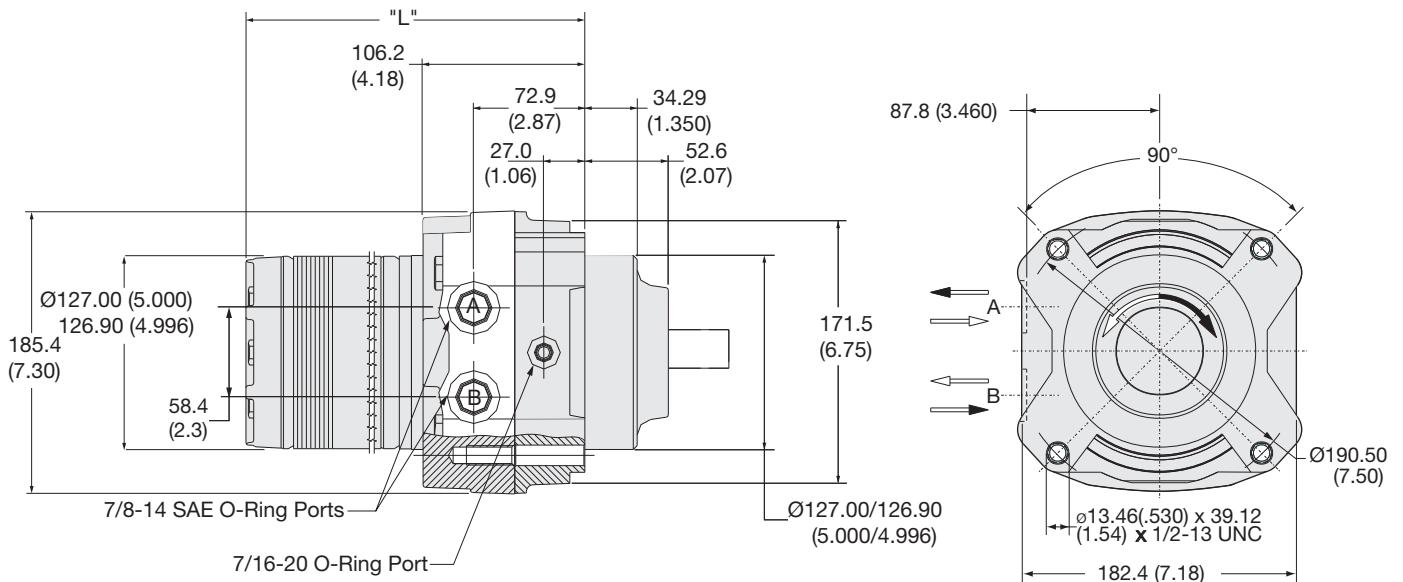
$F_a$  = Dynamic side load defined by above curve at a distance from mounting flange. / Erlaubte radiale Wellenbelastung als Function der Laenge

$F_b$  = 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

**Code: AS**

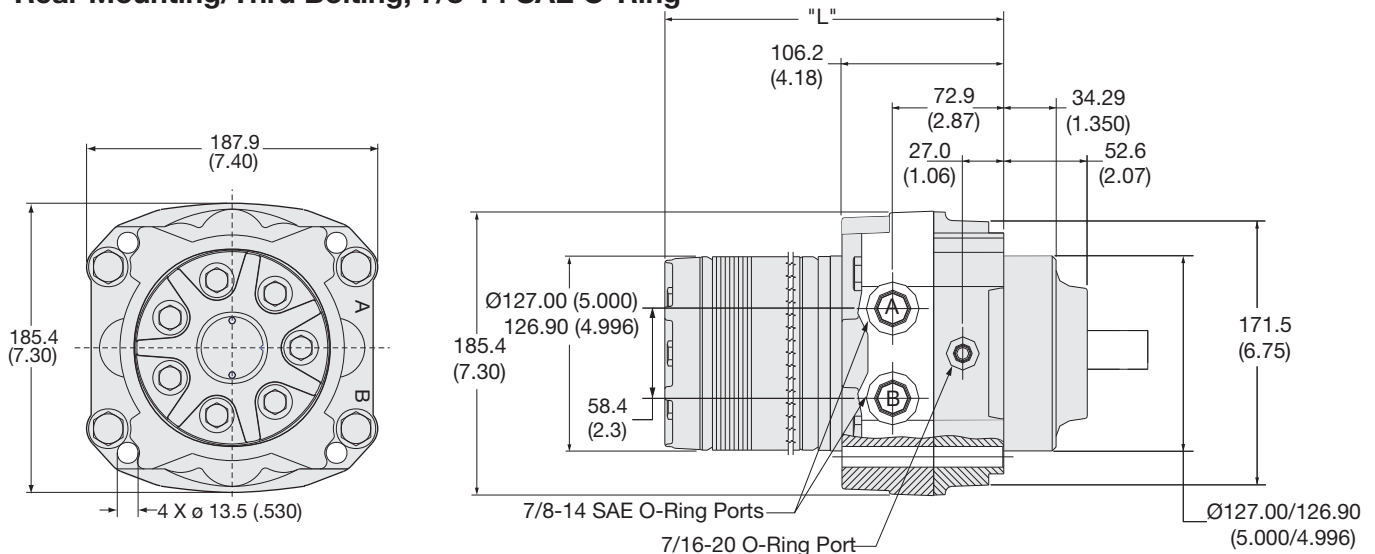
**Front Mounting / Front Bolting, 7/8-14 SAE O-Ring**



| 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**

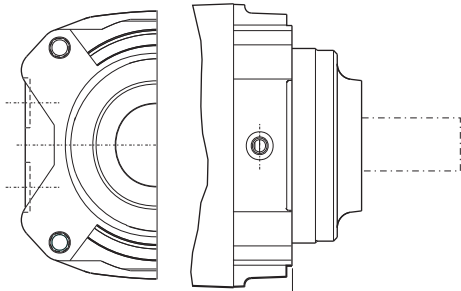


| Code CS        |          | 0140   | 0170   | 0195   | 0240   | 0280   | 0310   | 0335   | 0405   | 0475   | 0530   | 0625   | 0785    | 0960    |
|----------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Weight/Gewicht | 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 ( ).

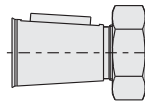
016 BH Brake.indd, js





Code: 31

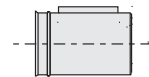
1 1/2" J501 Taper



130.0  
(5.12)

Code: 32

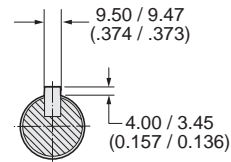
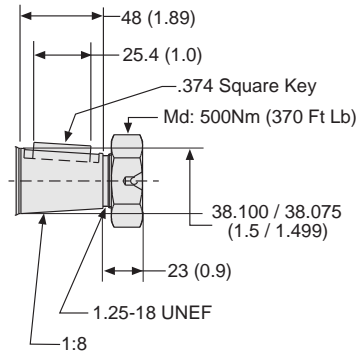
1 1/2" Keyed



116.4  
(4.58)

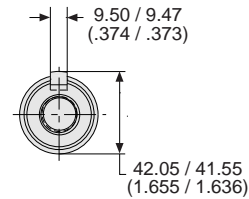
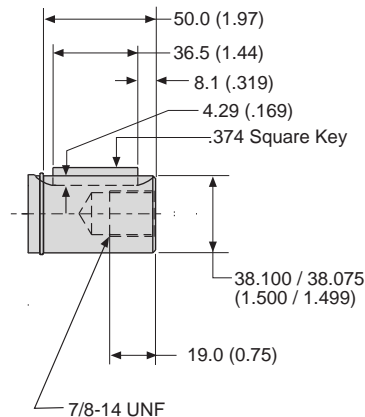
Code: 31

1 1/2" J501 Taper



Code: 32

1 1/2" Keyed



English equivalents for metric specifications are shown in ( ).

