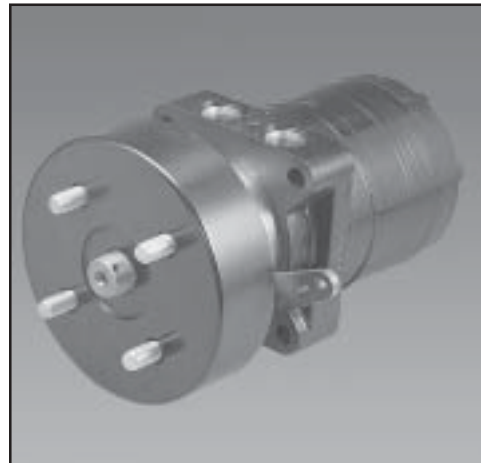


13 Displacements	(8.6 - 58.5 in <sup>3</sup> /rev)	
13 Schluckvolumen	140 . . . 958 cm <sup>3</sup> /rev	
13 Cylindrée		
13 Desplazamientos		
	<b>Cont.</b>	<b>Int.</b>
Maximum Pressure	(to 3000 psi)	(to 4000 psi)
Eingangsdruck	. . . 210 bar	. . . 281 bar
Pression entrée		
Presion Maxima		
Maximum Oil 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		
	<b>Cont.</b>	<b>Int.</b>
Maximum Torque	(9,239 lb in)	(12,636 lb in)
Max Drehmoment	1044 Nm	1428 Nm
Couple Maxi		
Torque Maximo		
Maximum Side Load at Key	(to 4000 lb)	
Seitenlast	. . . 17793 N	
Charges latérales		
Carga Maxima Lateral		

## A Mechanical Brake Motor for Tough Applications

Parker's latest DG Series integrated motor is truly another innovation the market has been waiting for. The compact size, reliable holding capability and ease of installation makes this new mechanical brake motor the perfect choice for many turf or agricultural applications using hydraulics for wheel motors. This mechanically applied version of the brake motor is available in 12 motor displacements (8.6 to 58.5 cu./in.). Pressure capacities are up to 280 bar (4,000 psi) intermittent and 210 bar (3,000 psi) continuous. Flows up to 114 lpm (30 gpm) and speed up to 660 rpm are available. Motor output torque up to 1428 Nm (12,636 lb. in.) intermittent and 1044 Nm (9,239 lb. in.) continuous is available.

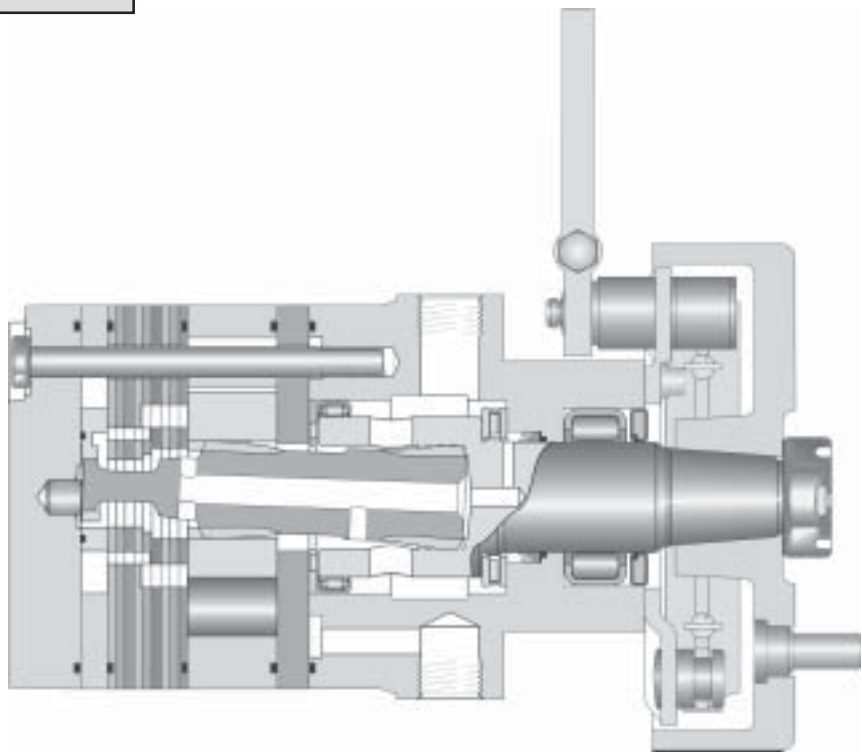


Holding capacity is 497 Nm (4,400 in lbs) with 68 Nm (600 in lbs) of input torque at lever pivot. Brake capacities are typical for non-burnished brake shoe. OEM testing required to verify actual field conditions.

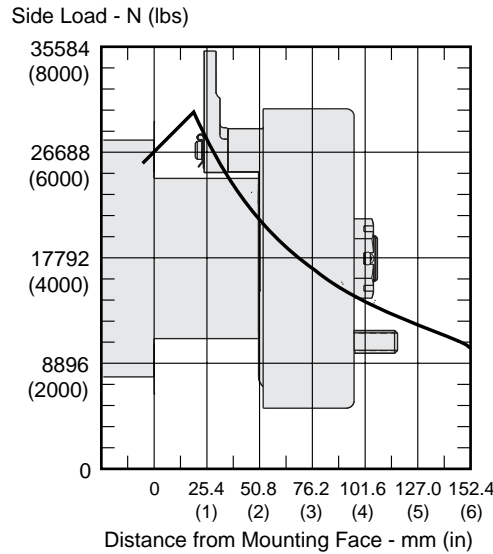
Das maximale Bremsmoment von 497 Nm ( 4400 in lbs) wird erreicht durch Betätigung des Bremshebels mit 68 Nm ( 600 in lbs). Genannte Einsatzdaten beziehen sich auf Neuprodukte. Die Eignung der Geräte ist vom Anwender für den jeweiligen Einsatz individuell zu prüfen .

La puissance de maintien est de 497 Nm (4400 pouces-livres) avec couple d'entrée au pivot du levier de 68 Nm (600 pouces-livres). Les puissances de freinage sont typiques pour des sabots de frein non brunis. Les essais imposés par le constructeur d'origine exigent la vérification des conditions réelles sur place.

Capacidad de retención de 497 N-m (4.400 libras-pulgada) con 69 N-m (600 libras-pulgada) de torque de entrada en el brazo de articulación. Los valores de capacidad de frenado son típicas para zapatas de freno no bruñidas. Para fabricantes de equipos originales se deben efectuar pruebas bajo condiciones reales de funcionamiento.



**Wheel Mount/Radnabengehäuse  
Monture à roue/ Montaje de rueda**



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

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

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

La curva de valores admisibles de carga lateral está basada en cargas constantes para cojinetes  $L_{10}$  a  $3 \times 10^6$  revoluciones.

**Equation to Calculate the Expected Radial Bearing Life  
Gleichung 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  $\text{min}^{-1}$

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 Funktion der Laenge

$F_b$  = Application side load. / Anwendungsseitige Wellenbelastung

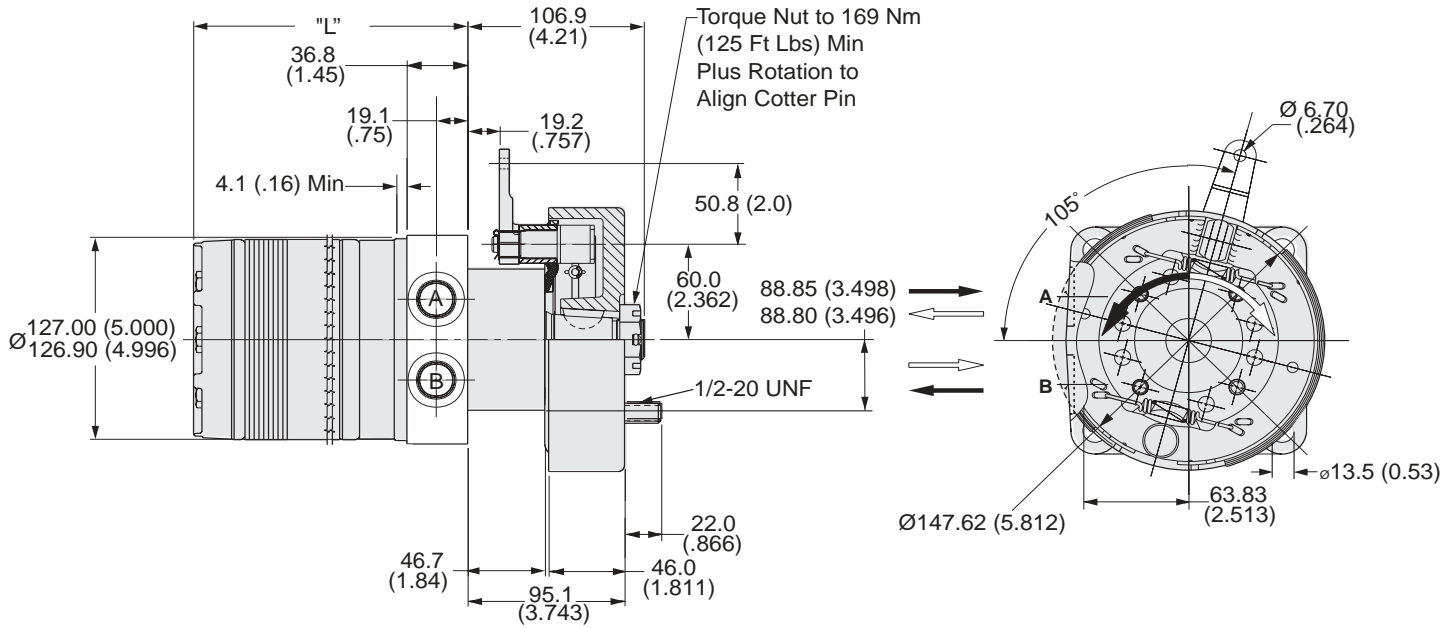
Note: Calculations are based on  $L_{10}$  bearing life per ISO 281.  
Auslegung basiert auf einer  $L_{10}$  Lebensdauer nach ISO 281



Mounting / Gehäuse  
Carter / Montaje

Code: A 

Wheel Mount w/Brake Lever



Note:

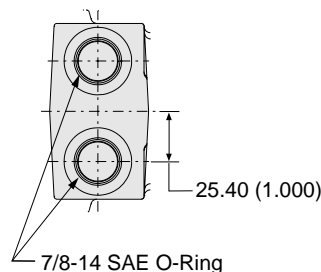
1. Brake Acuation Lever can be positioned in 11.25° increments from that shown.
2. Brake Acuation Lever is shipped unattached, secured with wire or tiwrap to assembly.
1. Bremshebel ist kreisförmig in Sigmenten von 11.25 ° positionierbar.
2. Hebel ist anbei. Endmontage erforderlich.
1. Le levier de commande du frein peut être positionné à des échelons d'accroissement de 11,25° de ce qui est montré.
2. Le levier de commande du frein est expédié sous forme détachée; il est attaché à l'ensemble avec du fil ou du ruban.
1. El brazo de actuación del freno se puede colocar en avances de 11,25 grados con respecto a la posición mostrada.
2. El brazo de actuación del freno se suministra suelto, sin conexión, sólo atado provisoriamente al mecanismo.

Code A	disp.	0140	0170	0195	0240	0280	0310	0335	0405	0475	0530	0625	0785	0960
Weight/Gewicht	kg	18.8	18.9	19.3	19.6	20.0	20.2	20.4	21.0	21.7	22.4	23.1	24.7	26.4
Poids/Peso	(lb)	(41.34)	(41.84)	(42.44)	(43.2)	(44.14)	(44.66)	(44.94)	(46.34)	(47.74)	(49.44)	(50.94)	(54.44)	(58.1)
Length	"L" mm	150	154	157	161	166	170	173	180	188	195	204	223	242
	"L" (in)	(5.92)	(6.04)	(6.17)	(6.35)	(6.54)	(6.68)	(6.79)	(7.08)	(7.42)	(7.67)	(8.04)	(8.79)	(9.54)

Ports / Anschlüsse  
Orifices / Lumbreras

Code: S 

7/8-14 SAE O-Ring



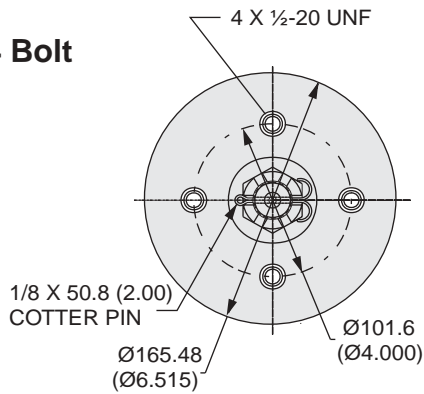
English equivalents for metric specifications are shown in ( ).

1509.p65.gel.gm

**Drum Type/Trommelbremse**  
**Tipo de tambor/Genre de tambour**

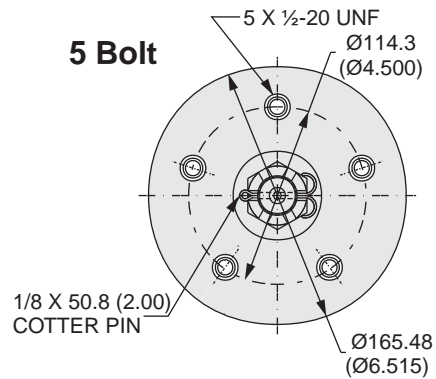
Code: A 

4 Bolt





Code: B 

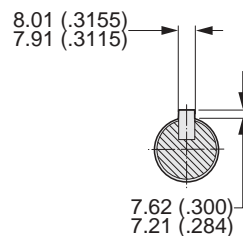
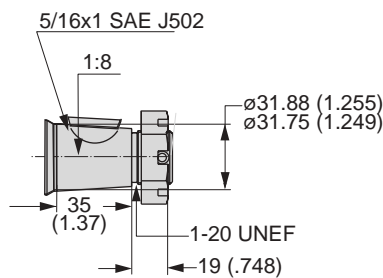
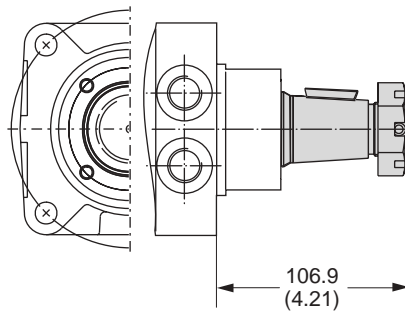
5 Bolt



**Shafts / Abtriebswellen**  
**Arbre / Ejes**

Code: 8  

1 1/4" Taper



English equivalents for metric specifications are shown in ( ).

1509.p65.gel.gm



**DG**  
Series

**XXXX**

Displacement  
Schluckvolumen  
Cylindrée  
Desplazamiento

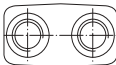
Code	cm <sup>3</sup> /U / cm <sup>3</sup> /rev cm <sup>3</sup> /tr / cm <sup>3</sup> /giro
0140	8.6 / 141
0170	10.3 / 169
0195	12.0 / 195
0240	14.5 / 237
0280	17.1 / 280
0310	18.9 / 310
0335	20.6 / 335
0405	24.7 / 405
0475	29.1 / 477
0530	32.3 / 530
0625	38.0 / 625
0785	48.0 / 785
0960	58.5 / 960

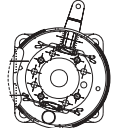
**X**

Mounting  
Gehäuse  
Carter  
Montaje

**S**

Ports  
Anschluß  
Plan de raccordement  
Lumbreras

Code	Ports	Avail.
S	7/8-14 SAE 	<b>US</b>

Code	Mounting	Avail.
A	Wheel Mt. w/Brake Lever @ 105° 	<b>US</b>
B	Wheel Mt. w/Brake Lever @ 165°	<b>US</b>
C	Wheel Mt. w/Brake Lever @ 195°	<b>US</b>
D	Wheel Mt. w/Brake Lever @ 255°	<b>US</b>
E	Wheel Mt. w/Brake Lever @ 285°	<b>US</b>
F	Wheel Mt. w/Brake Lever @ 345°	<b>US</b>
G	Wheel Mt. w/Brake Lever @ 15°	<b>US</b>
H	Wheel Mt. w/Brake Lever @ 75°	<b>US</b>

**X**

Drum Type  
 Trommelbremse  
 Tipo de tambor  
 Genre de tambour

**8**



Shaft  
 Welle  
 Arbree  
 Eje


**X**



Rotation  
 Drehrichtung  
 Direction de rotation  
 Rotacion

**XXXX**

Options  
 Opciones

Code	Front Port Rotation	Avail.
0	Standard 	<b>US</b>
1	Reverse Timed Manifold 	<b>US</b>

Code	Shaft	Avail.
8	1 1/4" Tapered 	<b>US</b>

Code	Drum Type	Avail.
A	 4 Bolt	<b>US</b>
B	 5 Bolt	<b>US</b>

Code	Description	Avail.
AAAB	No Paint No lackiert	<b>US</b>
AAAA	Black Paint Schwarz lackiert	<b>US</b>

See Page 219 for Additional Options

