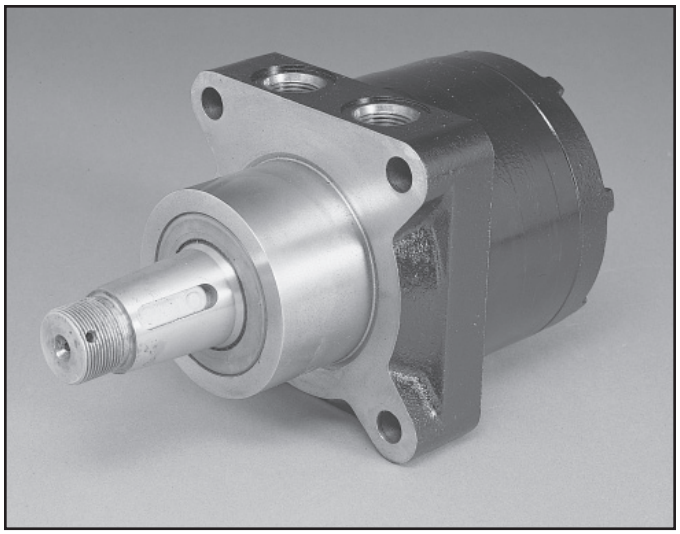
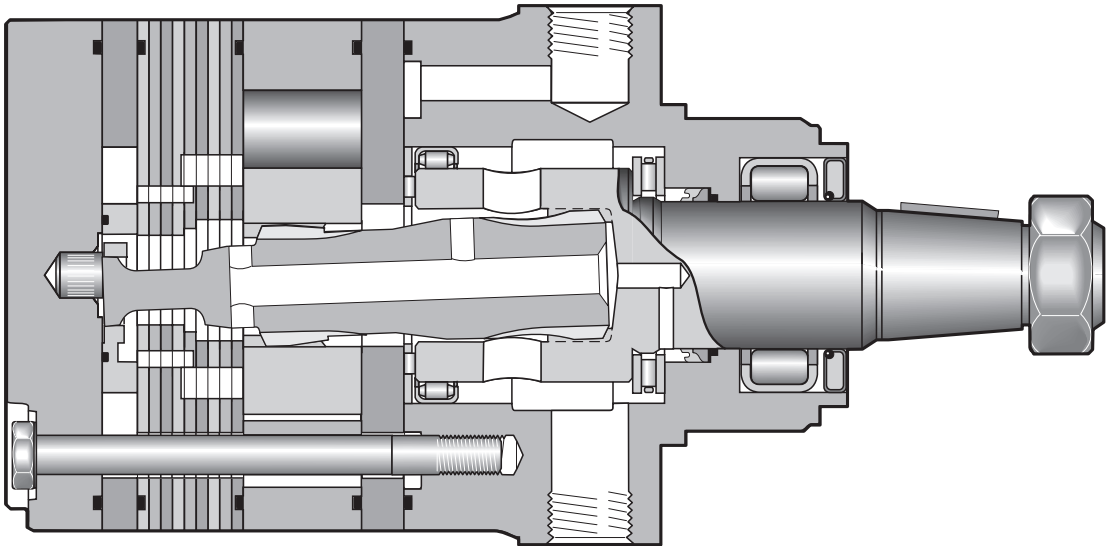
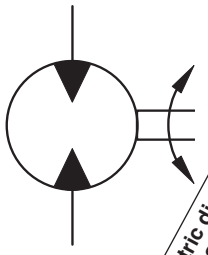
11 Displacements **11 Schluckvolumen** **11 Cylindrée** **11 Despazamientos**		(4.9 - 29.1 in³/rev) **81 . . . 477 cm³/rev**
	Cont.	**Int.**
Maximum Pressure **Eingangsdruck** **Pression entrée** **Presion Maxima**	(to 3000 psi) **. . . 207 bar**	(to 4000 psi) **. . . 276 bar**
Maximum Oil Flow **Schluckstrom** **Débit d'huile** **Caudal Maximo de Aceite**		(to 25 gpm) **. . . 95 lpm**
Maximum Speed **Drehzahl** **Vitesse de rotation** **Velocidad Maxima**		(749 rpm) **749 rpm**
	Cont.	**Int.**
Maximum Torque **MaxDrehmoment** **Couple** **Torque Maximo**	(6027 lb in) **681 Nm**	(8106 lb in) **916 Nm**
Maximum Side Load at Key **Seitenlast** **Charges latèrales** **Carga Maxima Lateral**		(to 3597 lb) **. . . 16000 N**

A Tough Motor for Tough Applications

Sturdy construction throughout makes Parker's TF Series motors suitable for the most severe applications. The powertrain uses patented 60:40 spline geometry for strength. All splines are constantly flushed with cool fluid for durability. Roller vanes and sealed commutation assure high volumetric efficiency, smooth low speed operation and extended life. Shaft seals can withstand full system pressure and are washed in cool fluid for long life.







Motor Series TF	Geometric displacement Geom. Schluckvolumen Cylindrée Cilindrata	Max. speed @ Max. intermittent flow Max. Drehzahl Intermittierender Betrieb: Vitesse de rotation maxi Velocidad maxima a caudal intermitente maximo	Max. oil flow Max. Schluckstrom Débit d'huile maxi Portata max	Max. differential pressure Max. Druckgefälle Chute de pression maxi Presion diferencial maxima	Max. supply pressure Max. Eingangsdruck Pression maxi entrée Presion maxima de alimentacion	Max. torque Max. Drehmoment Couple maxi Torque Maximo	Max. performance Max. Leistungabgabe Puissance de sortie maxi Maximo rendimiento	Min. starting torque Min. Anlaufmoment Couple min. fourni au dé manrage Torque minimo de arranque
	cm³/rev in³/rev	rev/min	***cont / int**** **l/min** g/min	***cont / int**** **bar** psi	***max*** **bar** psi	***cont / int**** **Nm** lb-in	***max*** **KW** HP	***cont / int**** **Nm** lb-in
TF 0080	**81** 4.9	693	**46** **57** 12 15	**207** **276** 3000 4000	**300** 4350	**220** **296** 1948 2621	**21.5** 28.8	**158** **205** 1401 1811
TF 0100	**100** 6.1	749	**57** **76** 15 20	**155** **241** 2250 3500	**300** 4350	**197** **318** 1746 2813	**24.9** 33.4	**148** **243** 1309 2155
TF 0130	**128** 7.8	583	**57** **76** 15 20	**138** **207** 2000 3000	**300** 4350	**229** **356** 2031 3148	**21.7** 29.1	**180** **278** 1596 2460
TF 0140	**141** 8.6	530	**57** **76** 15 20	**138** **207** 2000 3000	**300** 4350	**254** **393** 2248 3477	**21.8** 29.2	**196** **308** 1739 2728
TF 0170	**169** 10.3	444	**57** **76** 15 20	**138** **207** 2000 3000	**300** 4350	**317** **489** 2808 4324	**22.7** 30.5	**243** **385** 2152 3404
TF 0195	**197** 12.0	381	**57** **76** 15 20	**138** **207** 2000 3000	**300** 4350	**364** **562** 3222 4971	**22.4** 30.1	**302** **468** 2671 4142
TF 0240	**238** 14.5	394	**76** **95** 20 25	**138** **207** 2000 3000	**300** 4350	**427** **670** 3782 5928	**27.7** 37.1	**366** **572** 3242 5058
TF 0280	**280** 17.1	334	**76** **95** 20 25	**138** **207** 2000 3000	**300** 4350	**509** **794** 4502 7029	**27.8** 37.3	**438** **672** 3876 5946
TF 0360	**364** 22.2	258	**76** **95** 20 25	**130** **190** 1880 2750	**300** 4350	**594** **880** 5257 7788	**20.0** 26.8	**517** **779** 4575 6898
TF 0365 Clutch	**364** 22.2	258	**76** **95** 20 25	**97** **152** 1400 2200	**300** 4350	**437** **740** 3871 6456	**20.0** 26.8	**398** **650** 3521 5749
TF 0405	**405** 24.7	231	**76** **95** 20 25	**128** **172** 1850 2750	**300** 4350	**655** **916** 5800 8106	**22.1** 29.7	**575** **789** 5091 6978
TF 0475	**477** 29.1	195	**76** **95** 20 25	**113** **138** 1645 2000	**300** 4350	**681** **851** 6027 7528	**17.4** 23.3	**603** **740** 5334 6548

Performance data based on testing using 10W40 oil with a viscosity of 43.1 cSt (200 SUS) at 54° C (130° F.) Performance data is typical. Actual data may vary slightly from one production motor to another.

Les donnes sur les performances sont basees sur des tests utilisant de l'huile 10W40 d'une viscosite de 200 SUS a 54°C (130°F). Ces donnees correspondent a des situations typiques. Les donnes reelles peuvent varier legerement d'un moteur de production a l'autre.

Leistungsdaten sind gemessen mit SAE 10W40 bei einer Viskositaet von 43,1 Cst bei 54°C. Geringfuegige Abweichungen von den Katalogdaten sind moeglich.

Datos tecnicos obtenidos con aceite 10W40 de 200 SUS de viscosidad a 54°C (130°F). Los datos proporcionados son valores tipcos. Los valores exactos reales podrian tener una pequena variacion entre distintos motores.

* Intermittent operation rating applies to 10% of every minute.
Intermittierende Werte maximal 10% von jeder Betriebsminute.
Fonctionnement interm. 10% max. de chaque minute d`utilisation.
Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

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Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

TF	XXXX	XX	XX	0	XXXX
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting/Ports Gehäuse/Anschluß Carter/Plan de raccordement Montaje/Lumbreras	Shaft Welle Arbre Eje	Rotation Drehrichtung Direction de rotation Rotacion	Options Opciones

Code	cm^3/U cm^3/tr $cm^3/giro$ cu in^3/rev
0080	81 / 4.9
0100	100 / 6.1
0130	128 / 7.8
0140	141 / 8.6
0170	169 / 10.3
0195	197 / 11.9
0240	238 / 14.5
0280	280 / 17.1
0360	364 / 22.2
0405	405 / 24.7
0475	477 / 29.1

Code	Mounting/Ports
AH	SAE "A" 2 Bolt, ISO 6149 M22 x 1.5
AM	SAE "A" 2 Bolt, 5/16-18 UNC Manifold[1]
AS	SAE "A" 2 Bolt, 7/8-14 SAE
BS	SAE "B" 2 Bolt, 7/8-14 SAE
LS	Wheel, Front Brake Nose, 7/8-14 SAE
MS	Magneto, 7/8-14 SAE
US	Wheel,Standard, 7/8-14 SAE

Code	Shaft
01*	1" 6B Spline
02*	1" Keyed
03	1 1/4" Keyed
05	1 1/4" 14 Tooth Spline
06	19 Tooth Spline
07	15 Tooth Spline
08	1 1/4" Tapered

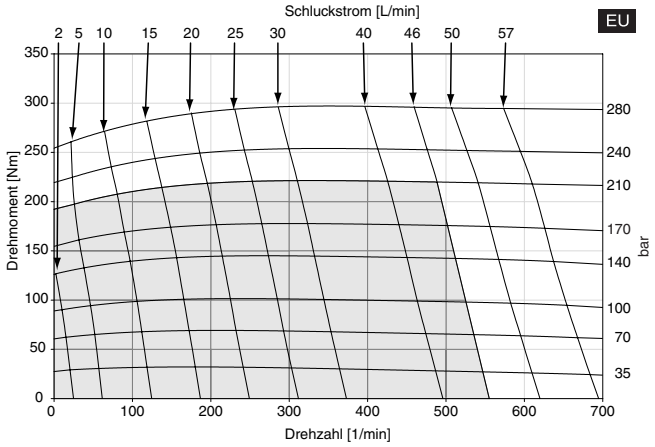
Code	Rotation
0	Standard B A

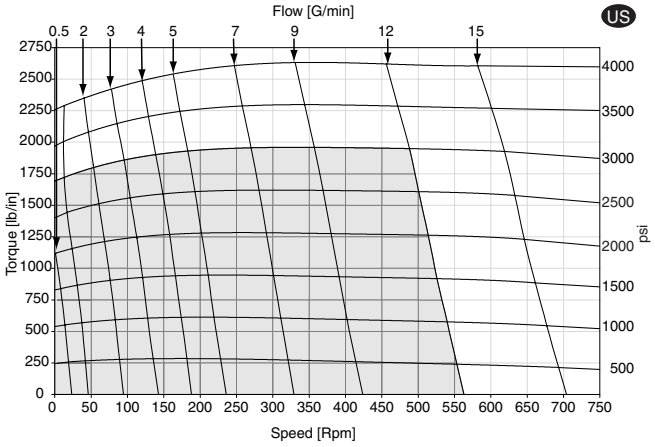
Code	Options
AAAB	No Paint No lackiert
AAAA	Black Paint Schwarz lackiert

For other available options, see pages 182-187.

* Abtriebswelle / Coupling shaft / Arbre / Eje de acoplamiento — Ø 25mm / Ø 1 inch / 6B SAE
Max. Moment cont./int. / Max. torque cont./int. / Couple maxi cont./int. / Coppia max cont./int.
} 450/550 Nm

TF 0080





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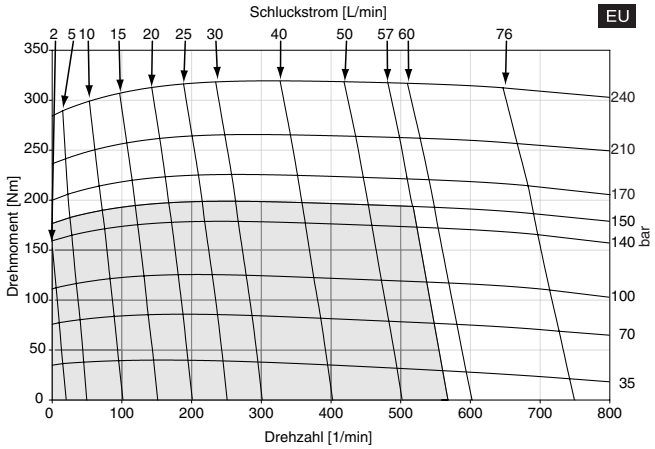
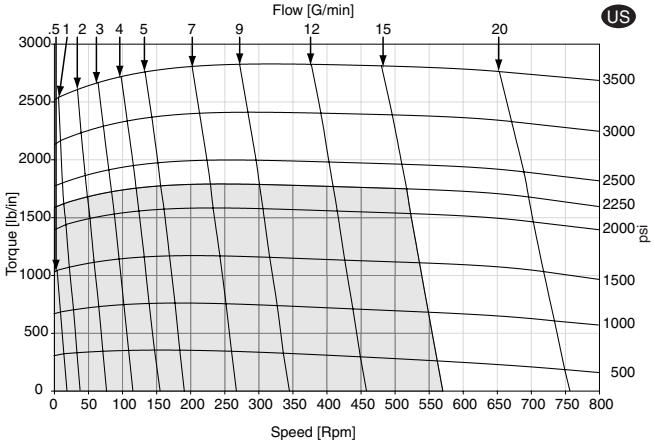
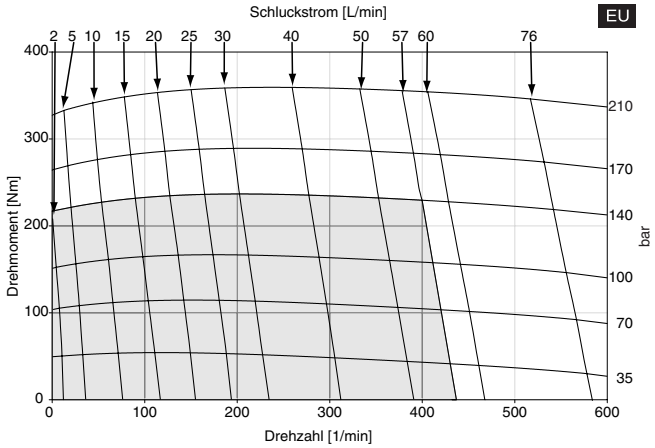
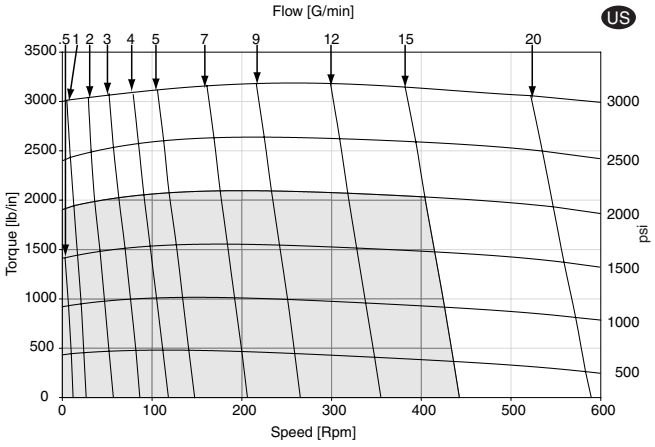




TF 0130





☐ Cont. ☐ Int.

Intermittent operation rating applies to 10% of every minute.

Fonctionnement interm. 10% max. de chaque minute d`utilisation.

Performance data based on testing using 10W40 oil with a viscosity of 200 SUS at 54° C (130° F.). Performance data is typical. Actual data may vary slightly from one production motor to another.

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Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

Leistugsdaten sind gemessen mit SAE 10W40 bei einer Viskositat von 43,1 Cst beo 54°C. Geringfugige Abweichungen von den Katalogerten sond moglich.

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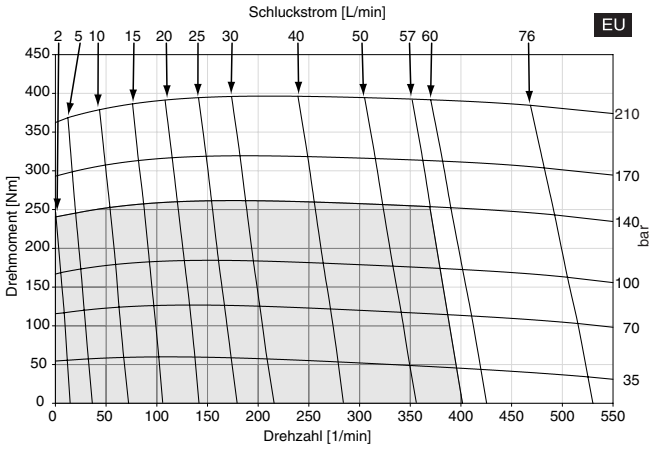
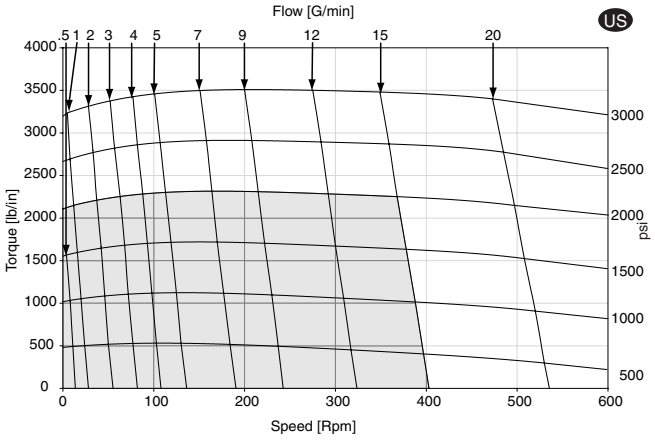
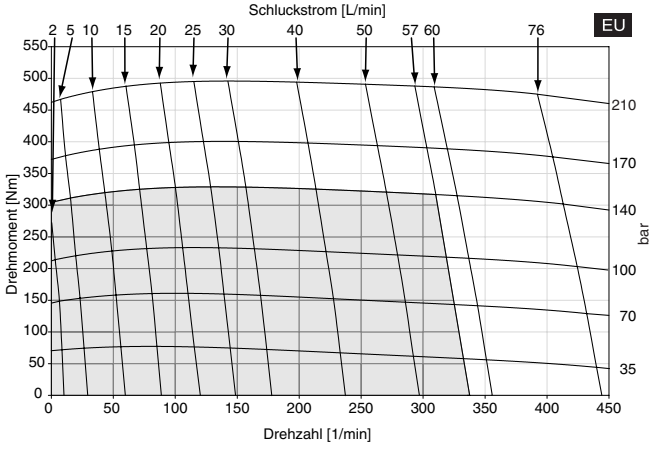
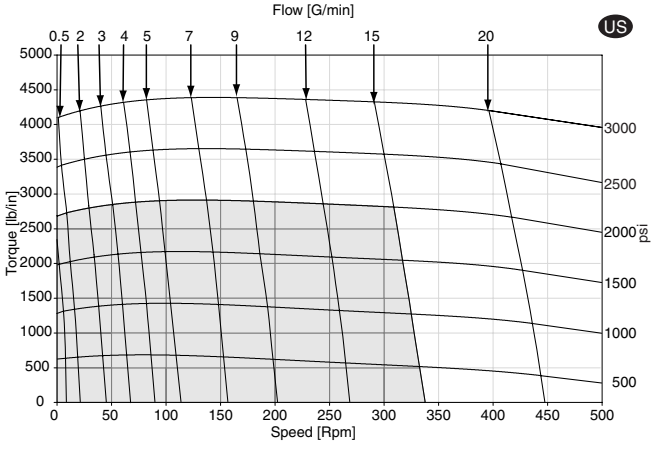
TF 0140



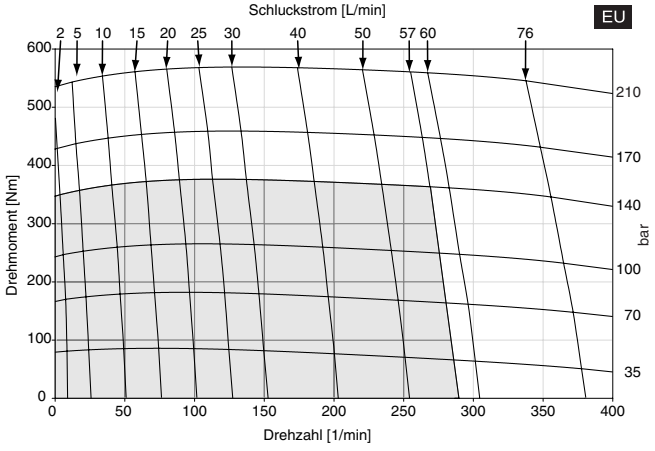


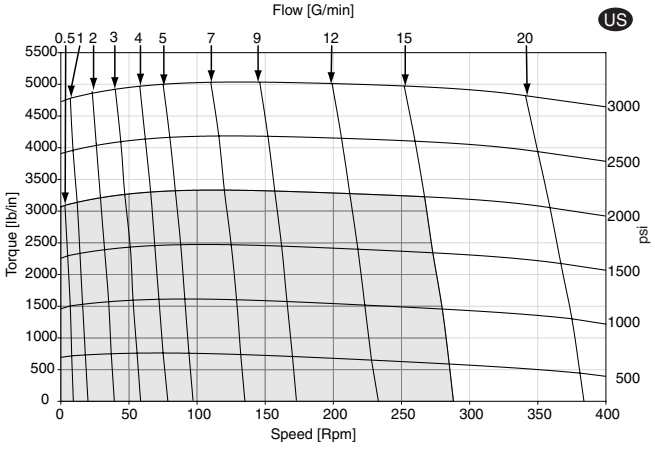
TF 0170





TF 0195





☐ Cont. ☐ Int.

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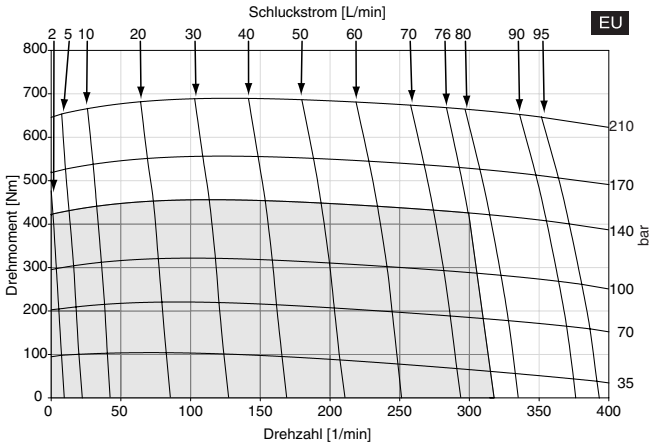
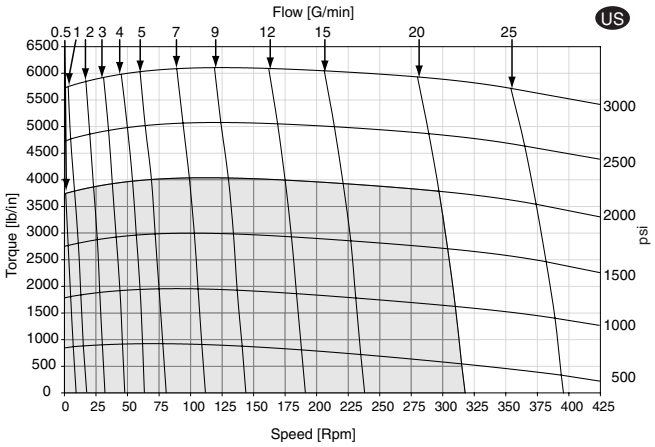
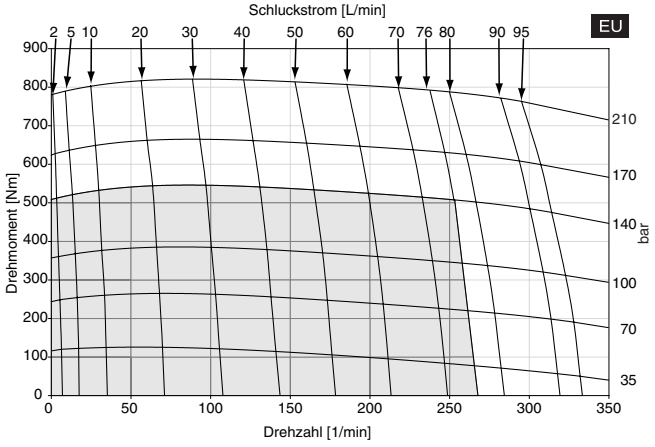
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

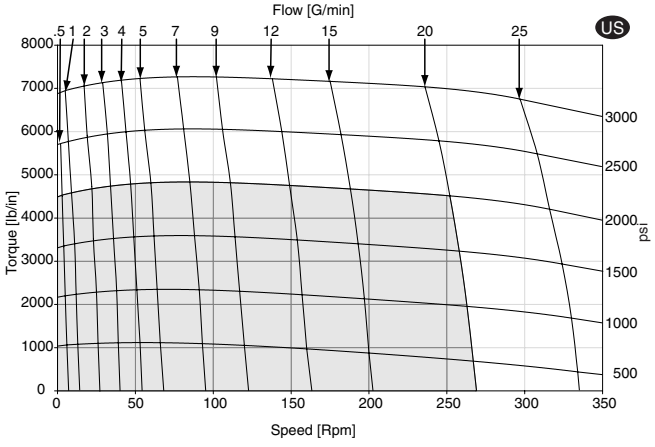
TF 0240





TF 0280





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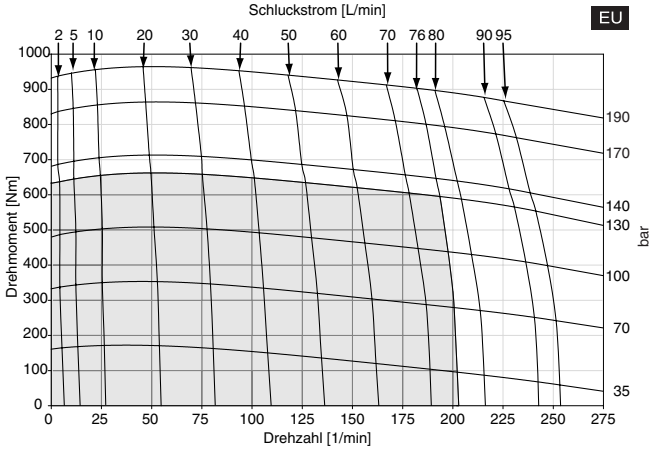

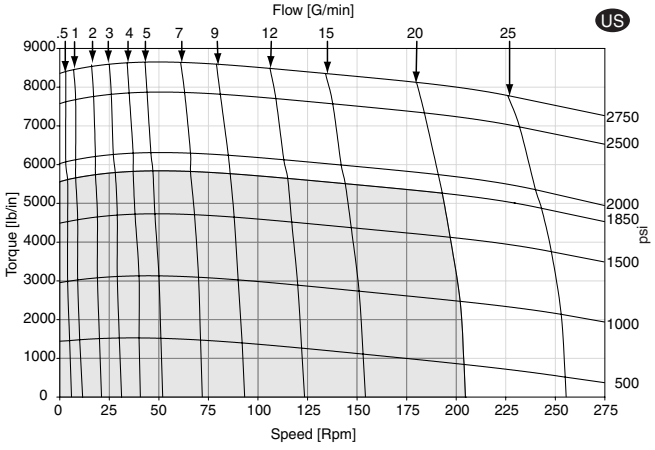

☐ Cont. ☐ Int.

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Performance data based on testing using 10W40 oil with a viscosity of 200 SUS at 54° C (130° F.). Performance data is typical. Actual data may vary slightly from one production motor to another.

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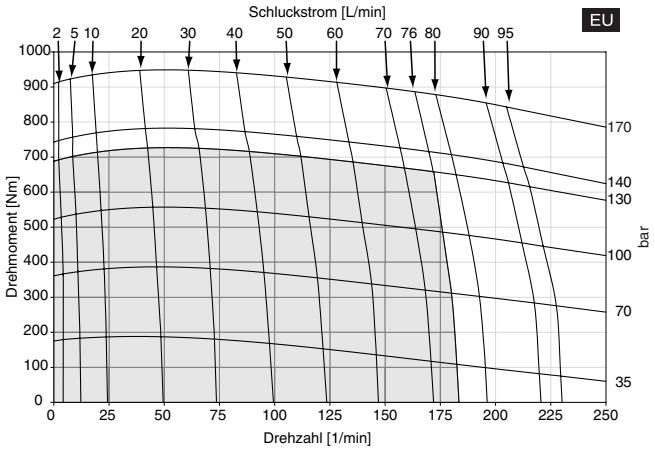
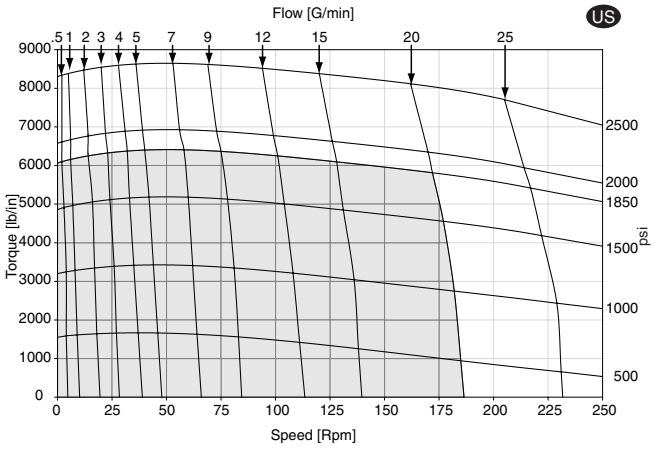
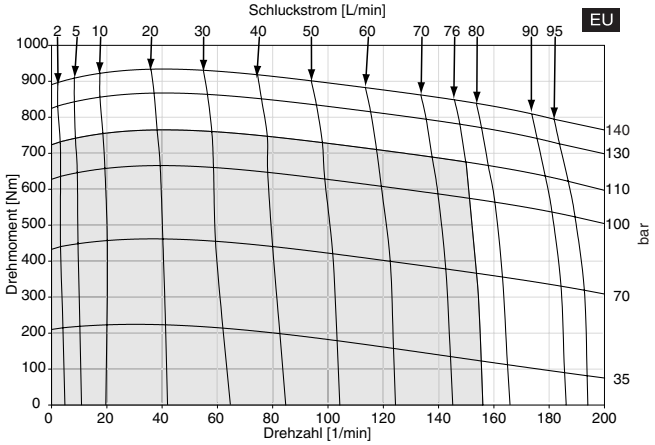
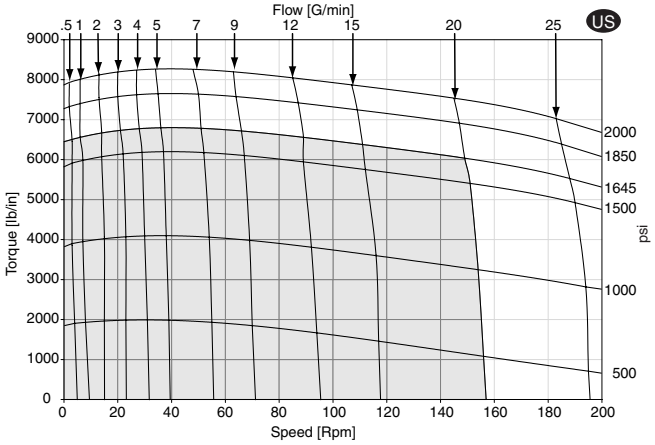
TF 0405



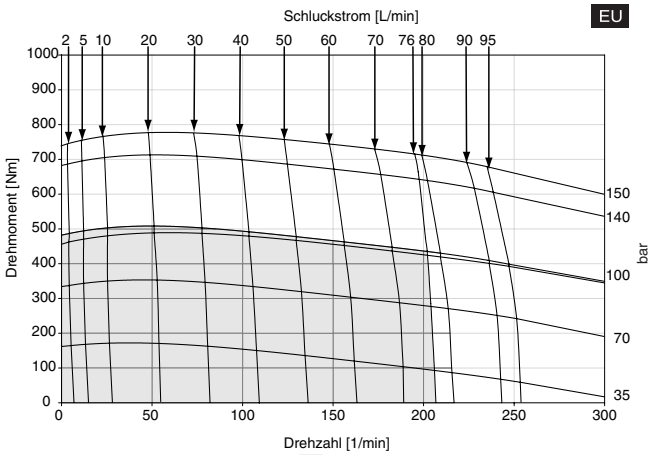


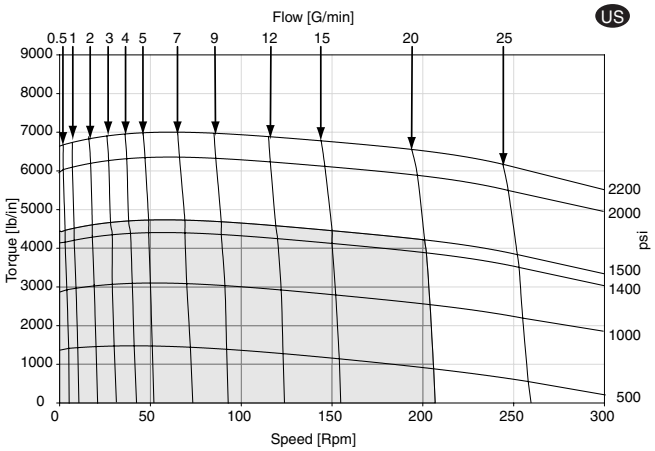
TF 0475





TF 0365 Clutch Motor





☐ Cont. ☐ Int.

Intermittent operation rating applies to 10% of every minute.

Fonctionnement interm. 10% max. de chaque minute d`utilisation.

Performance data based on testing using 10W40 oil with a viscosity of 200 SUS at 54° C (130° F.). Performance data is typical. Actual data may vary slightly from one production motor to another.

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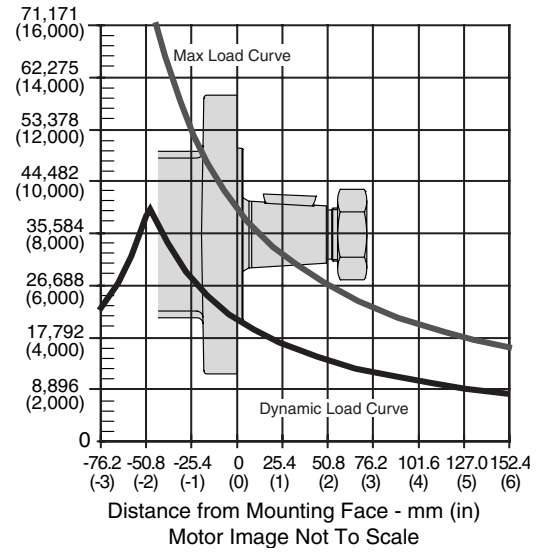
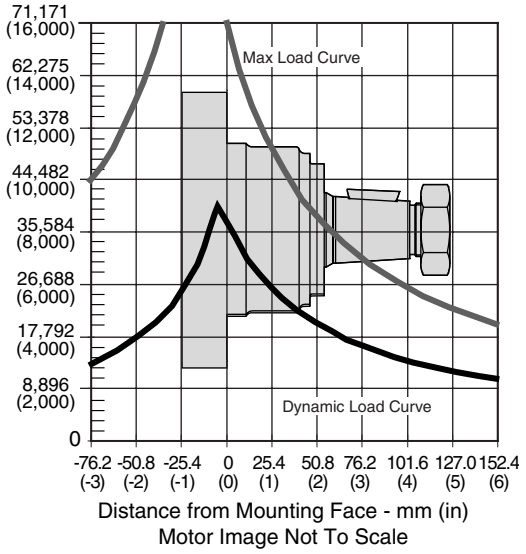
Flange Mount / Standardgehäuse
Monture à bride(s) / Montaje de brida



The dynamic 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.

Wheel Mount / Radnabengehäuse
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.

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.

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

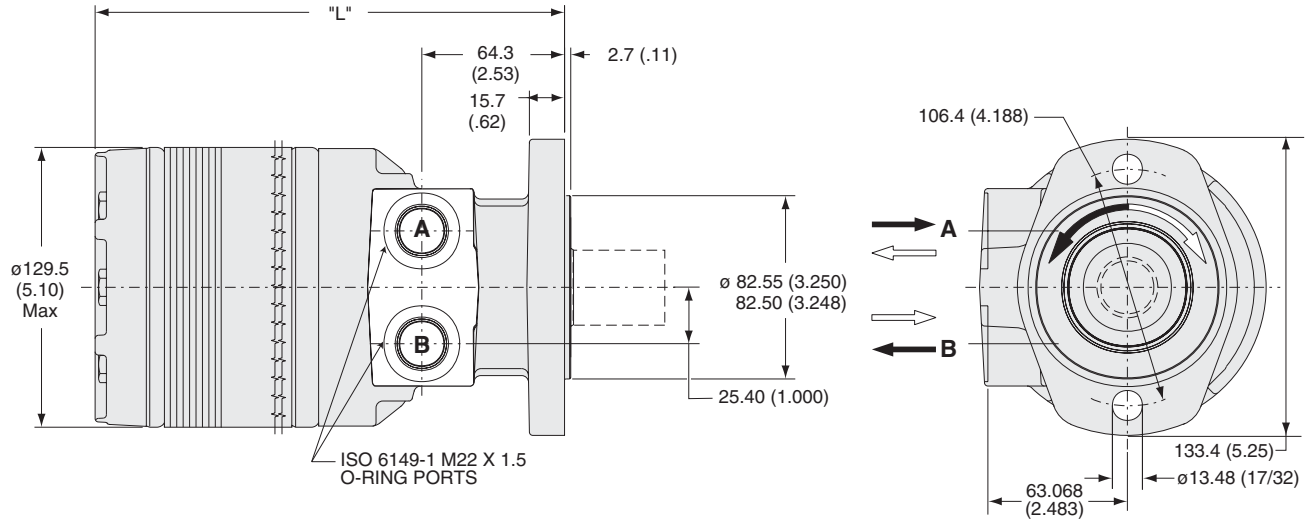
Where / Mit:

- 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} Lenbendauer nach ISO 281.

Code: AH

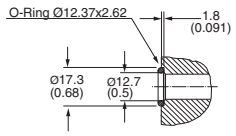
SAE A 2-Bolt, ISO 6149-1 M22 x 1.5



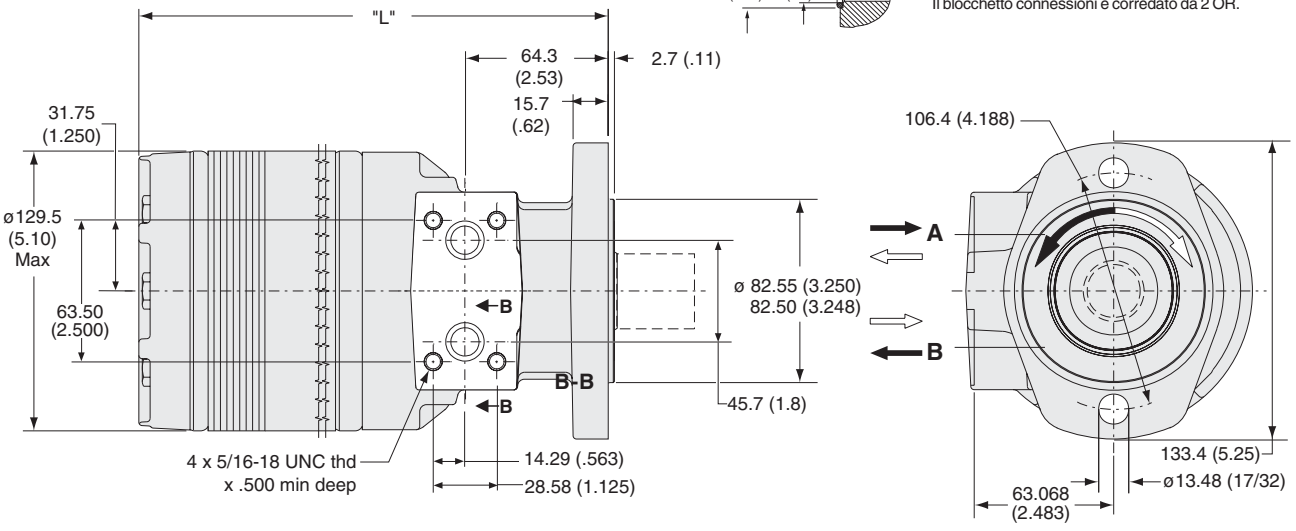
Code AH	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**13.6**	**13.6**	**13.8**	**13.9**	**14.2**	**14.5**	**14.9**	**15.2**	**16.0**	**16.5**	**17.2**
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	**"L" mm**	**191**	**191**	**194**	**196**	**199**	**202**	**207**	**211**	**221**	**225**	**234**
	"L" (in)	(7.51)	(7.51)	(7.63)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.70)	(8.87)	(9.20)

Code: AM

SAE A 2-Bolt, Manifold



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.
Il blocchetto connessioni é corredato da 2 OR.



Code AM	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**13.6**	**13.6**	**13.8**	**13.9**	**14.2**	**14.5**	**14.9**	**15.2**	**16.0**	**16.5**	**17.2**
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	**"L" mm**	**191**	**191**	**194**	**196**	**199**	**202**	**207**	**211**	**221**	**225**	**234**
	"L" (in)	(7.51)	(7.51)	(7.63)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.70)	(8.87)	(9.20)

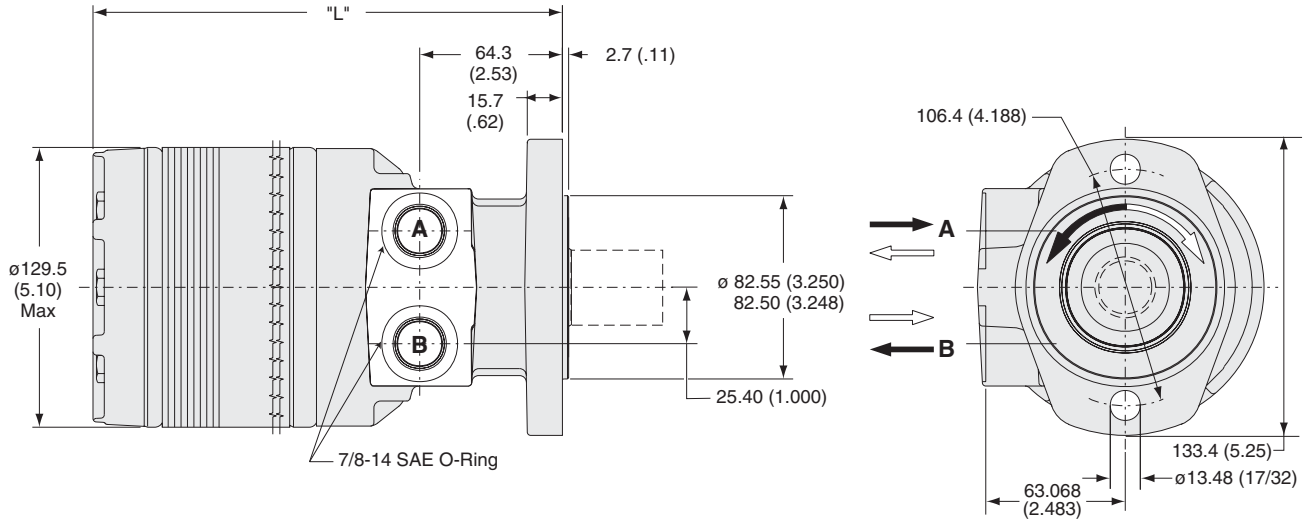
English equivalents for metric specifications are shown in ( ).

008 TF.indd, js

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: AS

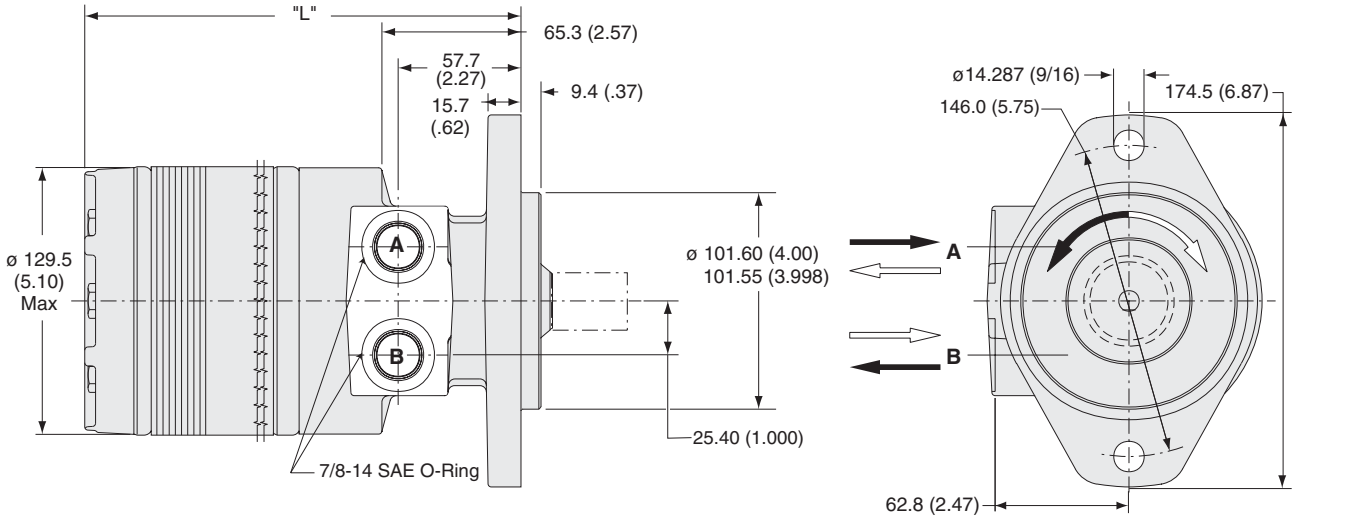
SAE A 2-Bolt, 7/8-14 SAE O-Ring



Code AS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**13.6**	**13.6**	**13.8**	**13.9**	**14.2**	**14.5**	**14.9**	**15.2**	**16.0**	**16.5**	**17.2**
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	**"L" mm**	**191**	**191**	**194**	**196**	**199**	**202**	**207**	**211**	**221**	**225**	**234**
	"L" (in)	(7.51)	(7.51)	(7.63)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.70)	(8.87)	(9.20)

Code: BS

SAE B 2-Bolt, 7/8-14 SAE O-Ring

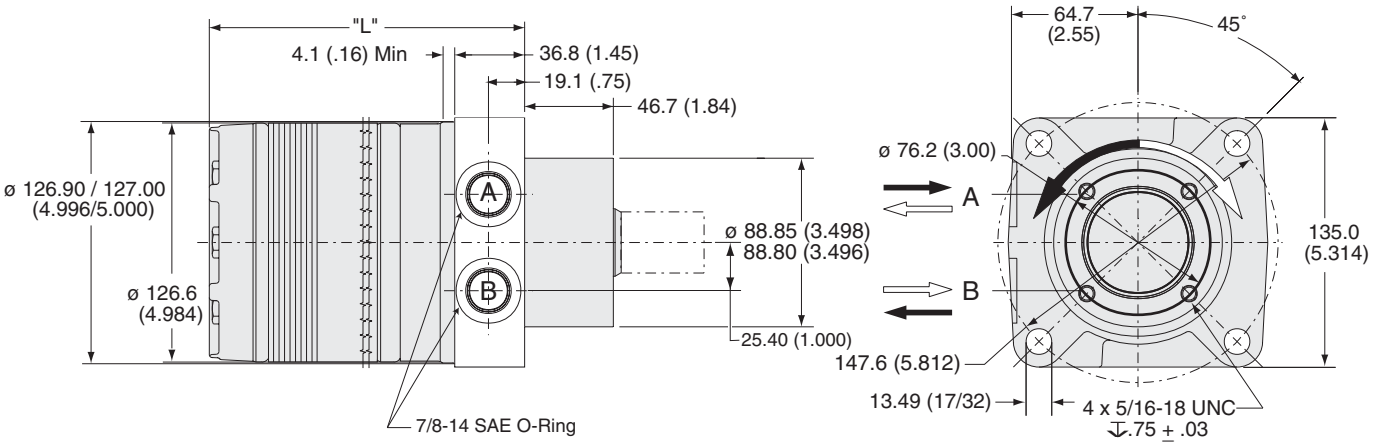


Code BS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**14.2**	**14.2**	**14.5**	**14.6**	**14.8**	**15.1**	**15.5**	**15.8**	**16.6**	**17.1**	**17.8**
Poids/Peso	(lb)	(31.3)	(31.4)	(31.9)	(32.1)	(32.7)	(33.3)	(34.3)	(34.9)	(36.6)	(37.8)	(39.3)
Length	**"L" mm**	**184**	**184**	**187**	**189**	**192**	**195**	**200**	**205**	**214**	**218**	**227**
	"L" (in)	(7.25)	(7.25)	(7.37)	(7.44)	(7.56)	(7.69)	(7.87)	(8.06)	(8.44)	(8.60)	(8.94)

English equivalents for metric specifications are shown in ( ).

Code: LS

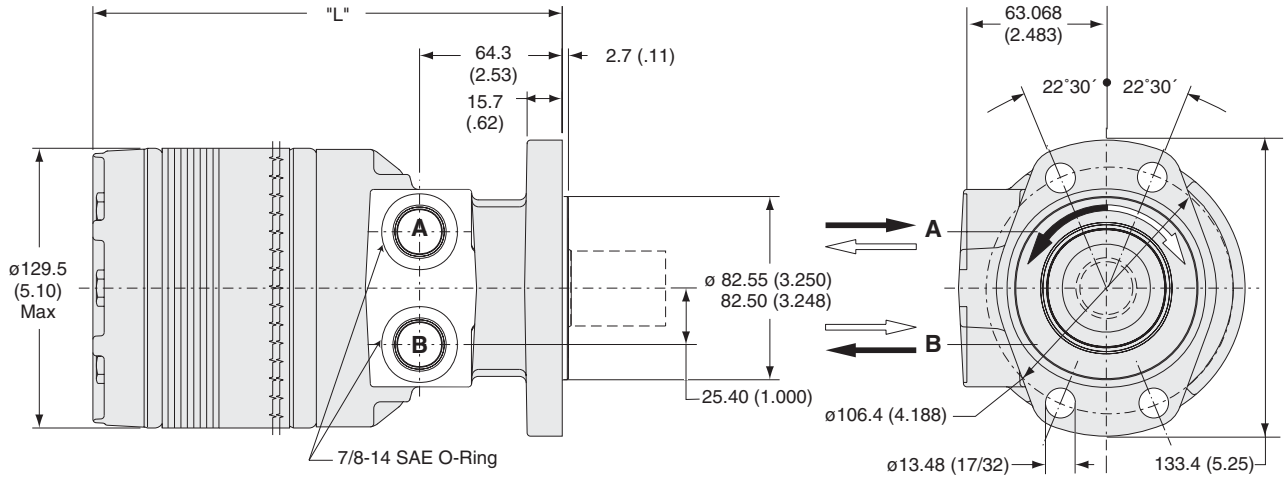
Wheel, Front Brake Nose



Code LS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**14.0**	**14.0**	**14.2**	**14.3**	**14.6**	**14.9**	**15.3**	**15.6**	**16.3**	**17.0**	**17.5**
Poids/Peso	(lb)	(30.9)	(30.9)	(31.2)	(31.5)	(32.1)	(32.9)	(33.7)	(34.4)	(35.9)	(37.5)	(38.6)
Length	**"L" mm**	**146**	**146**	**149**	**151**	**154**	**157**	**162**	**167**	**175**	**180**	**189**
	"L" (in)	(5.73)	(5.73)	(5.85)	(5.92)	(6.04)	(6.17)	(6.35)	(6.54)	(6.92)	(7.08)	(7.42)

Code: MS

Magneto, 7/8-14 SAE O-Ring

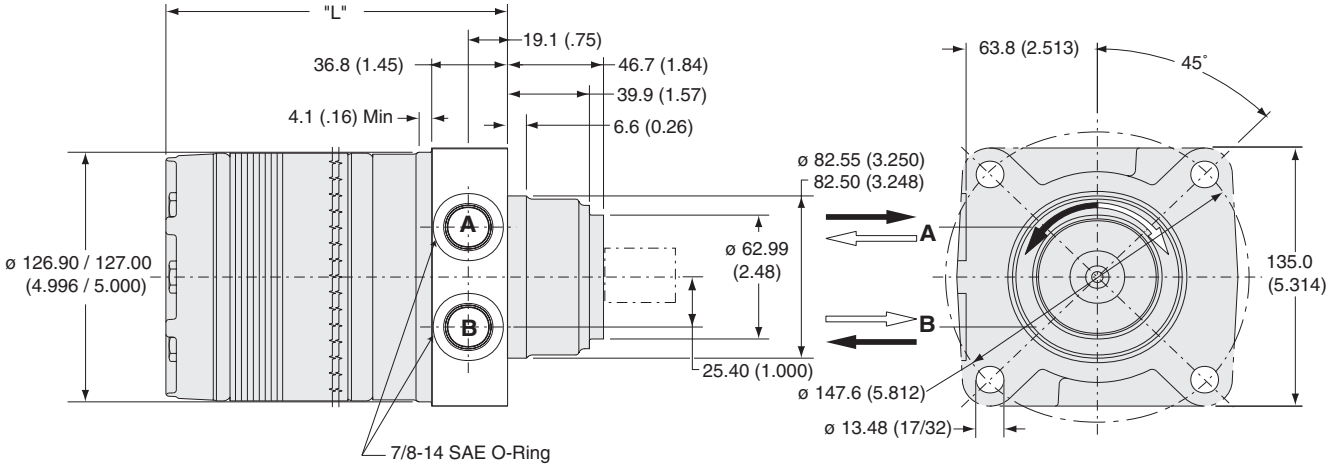


Code MS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**13.6**	**13.6**	**13.8**	**13.9**	**14.2**	**14.5**	**14.9**	**15.2**	**16.0**	**16.5**	**17.2**
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	**"L" mm**	**191**	**191**	**194**	**196**	**199**	**202**	**207**	**211**	**221**	**225**	**234**
	"L" (in)	(7.51)	(7.51)	(7.63)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.70)	(8.87)	(9.20)

English equivalents for metric specifications are shown in ( ).

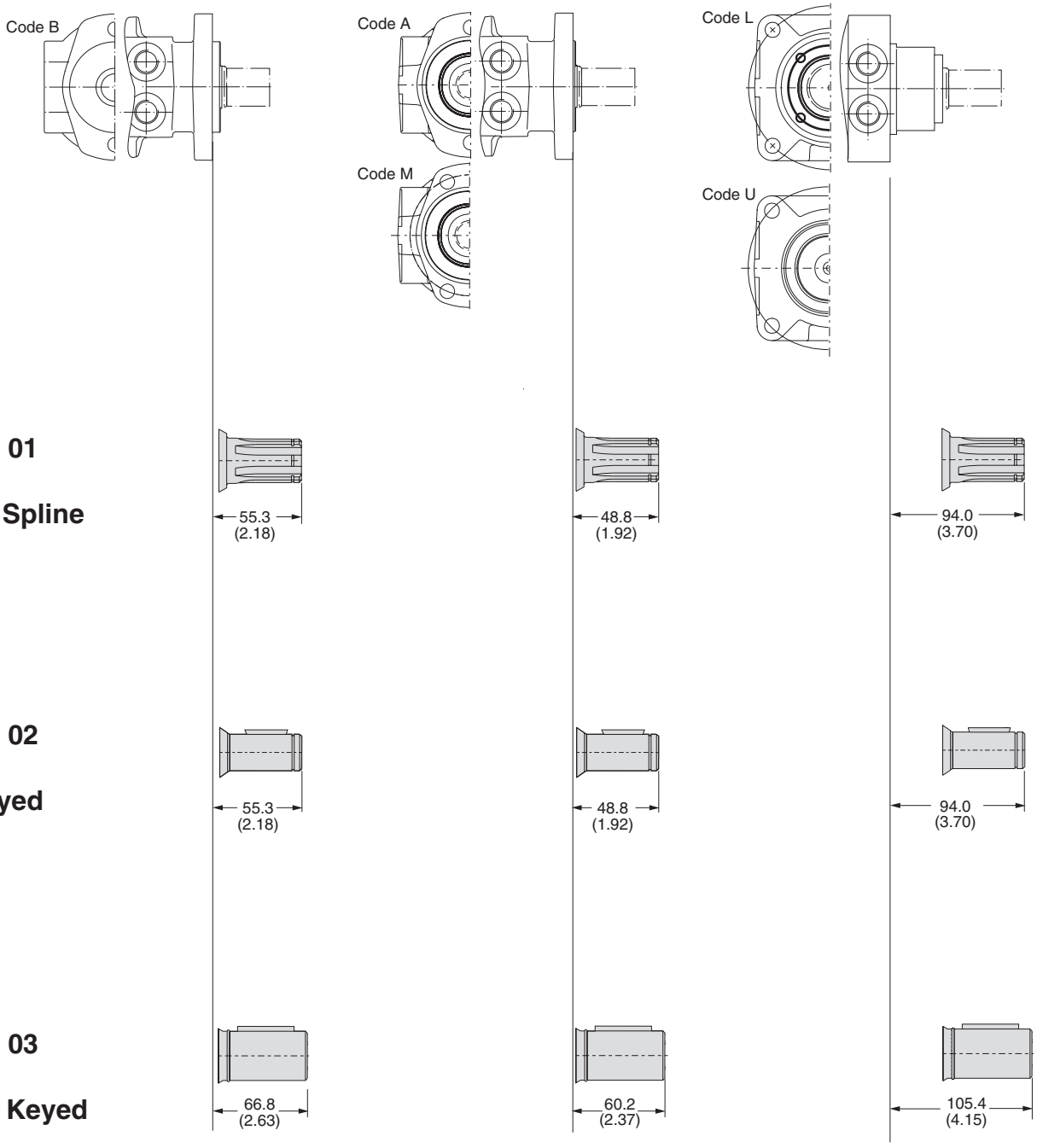
Code: US

Wheel, Standard, 7/8-14 SAE O-Ring



Code US disp.		0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	**kg**	**13.9**	**13.9**	**14.2**	**14.3**	**14.5**	**14.8**	**15.2**	**15.5**	**16.3**	**16.9**	**17.5**
Poids/Peso	(lb)	(30.6)	(30.7)	(31.2)	(31.5)	(32.0)	(32.7)	(33.6)	(34.2)	(35.9)	(37.2)	(38.6)
Length	**"L" mm**	**146**	**146**	**149**	**151**	**154**	**157**	**162**	**167**	**176**	**180**	**189**
	"L" (in)	(5.73)	(5.73)	(5.85)	(5.92)	(6.04)	(6.17)	(6.35)	(6.54)	(6.92)	(7.08)	(7.42)

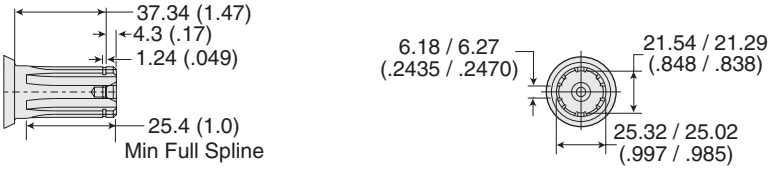
English equivalents for metric specifications are shown in ( ).



English equivalents for metric specifications are shown in ( ).

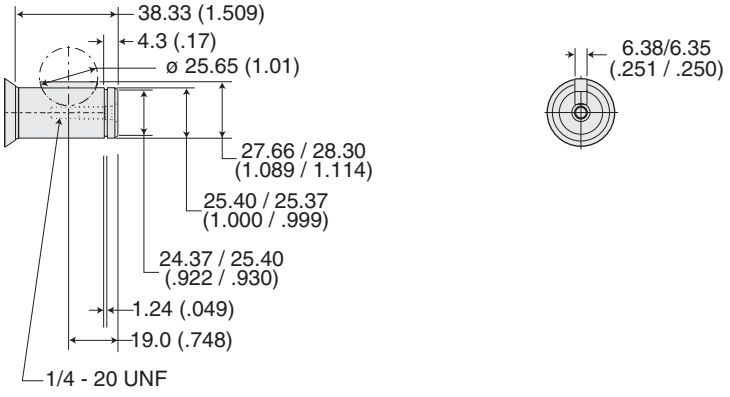
Code: 01

1" 6B Spline



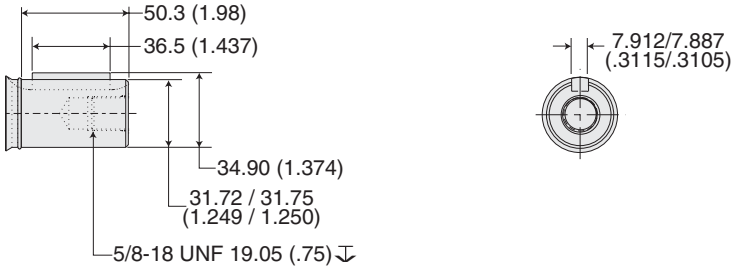
Code: 02

1" Keyed

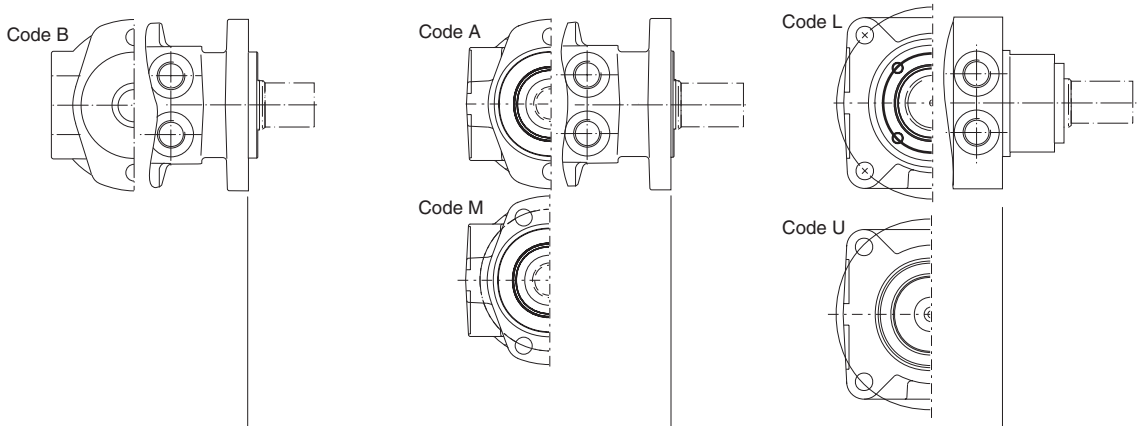


Code: 03

1 1/4" Keyed

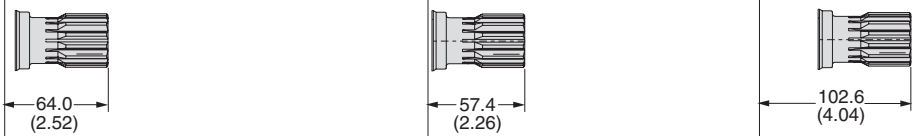


English equivalents for metric specifications are shown in ( ).



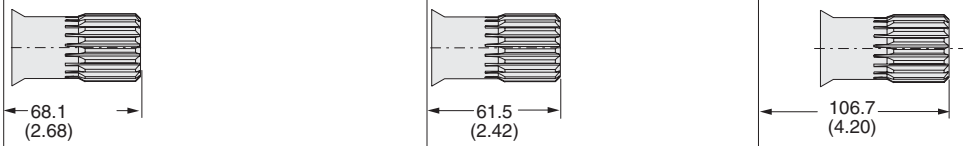
Code: 05

1 1/4" 14 Tooth Spline



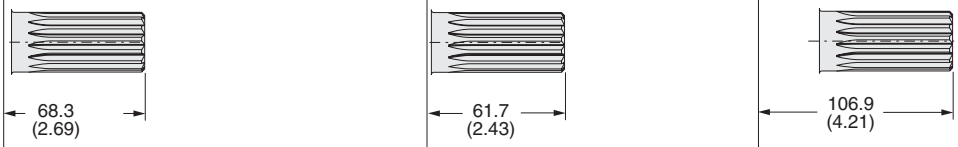
Code: 06

19 Tooth Spline



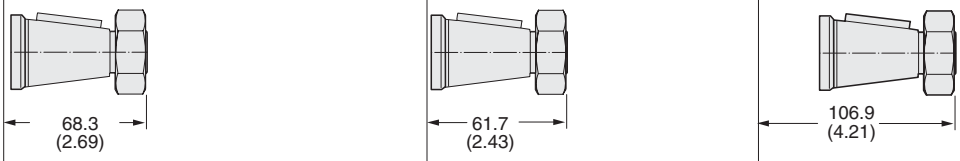
Code: 07

15 Tooth Spline



Code: 08

1 1/4" Tapered



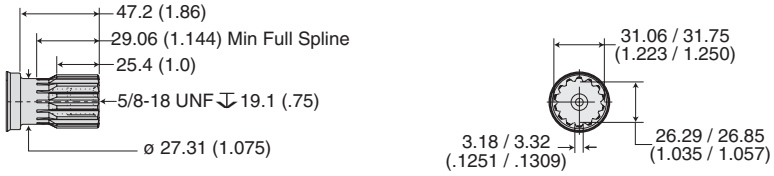
English equivalents for metric specifications are shown in ( ).

008 TF.indd, js

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: 05

1 1/4" 14 Tooth Spline

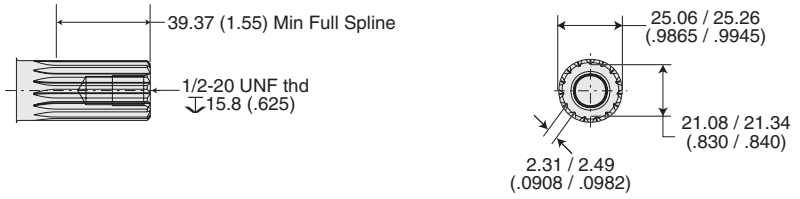


Code: 06

19 Tooth Spline

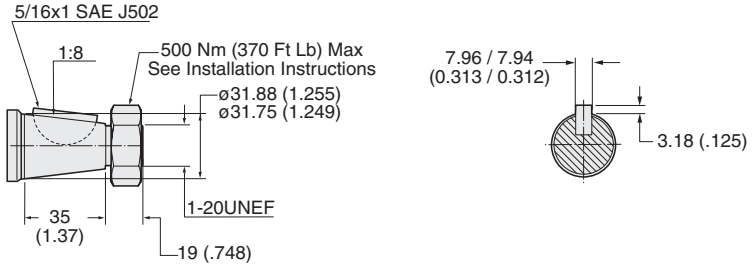
Code: 07

15 Tooth Spline



Code: 08

1 1/4" Tapered



English equivalents for metric specifications are shown in ( ).