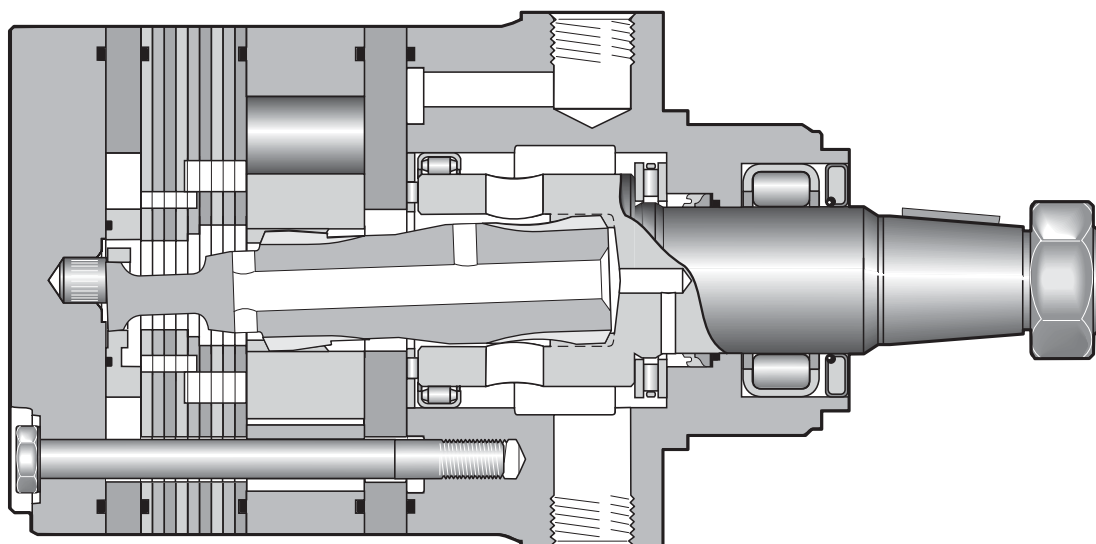
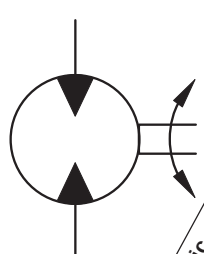


11 Displacements 11 Schluckvolumen 11 Cylindrée 11 Desplazamientos	(4.9 - 29.1 in³/rev) 81 ... 477 cm³/rev	
Maximum Pressure Eingangsdruck Pression entrée Presion Maxima	Cont. (to 3000 psi) ... 207 bar	Int. (to 4000 psi) ... 276 bar
Maximum Oil Flow Schluckstrom Débit d'huile Caudal Maximo de Aceite	(to 25 gpm) ... 95 lpm	
Maximum Speed Drehzahl Vitesse de rotation Velocidad Maxima	(749 rpm) 749 rpm	
Maximum Torque MaxDrehmoment Couple Torque Maximo	Cont. (6027 lb in) 681 Nm	Int. (8106 lb in) 916 Nm
Maximum Side Load at Key Seitenlast Charges latérales 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	Geom. displacement Geom. Schluckvolumen Cilindrata	Max. speed @ Max. intermittent flow Max. Drehzahl intermittierender Betrieb: Velocidad maxima a caudal intermitente maximo	Max. oil flow Max. Schluckstrom Portata max	Max. differential pressure Max. Druckgefälle Chute de pression max Presion diferencial maxima	Max. supply pressure Max. Eingangsdruck Presion max entrada	Max. torque Max. Drehmoment Couple max	Max. performance Max. Leistungabgabe Maximo rendimiento	Min. starting torque Min. Anlaufmoment Couple min. fourni au démarrage
	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
TF0080	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
TF0100	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
TF0130	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
TF0140	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
TF0170	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
TF0195	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
TF0240	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
TF0280	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
TF0360	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
TF0365 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
TF0405	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
TF0475	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.

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Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

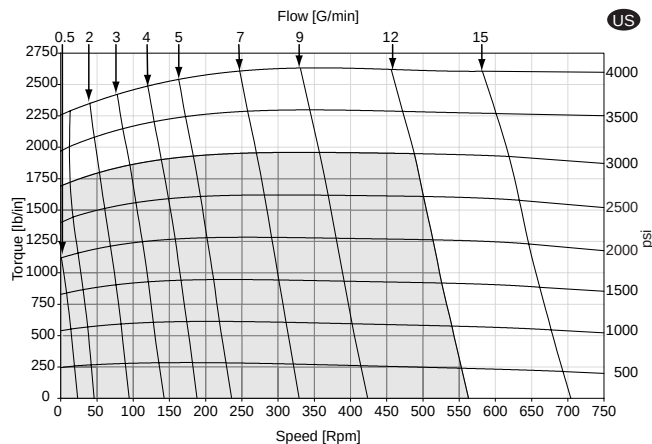
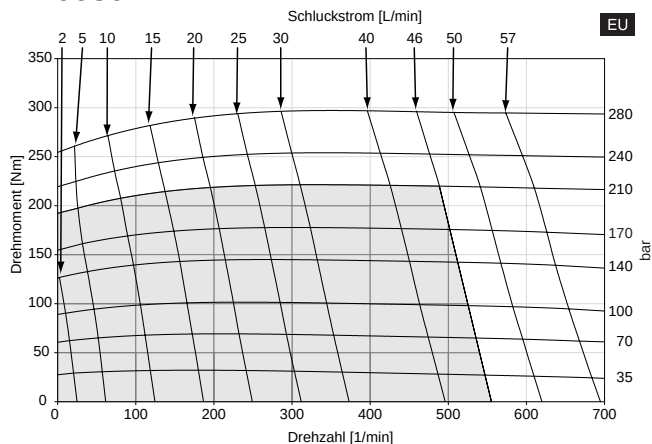
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TF	XXXX	XX	XX	0	XXXX																																																											
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting/Ports Gehäuse/Anschluß Carter/Plan de raccordement Montaje/Lumbreras	Shaft Welle Arbre Eje	Rotation Drehrichtung Direction de rotation Rotacion	Options Opciones																																																											
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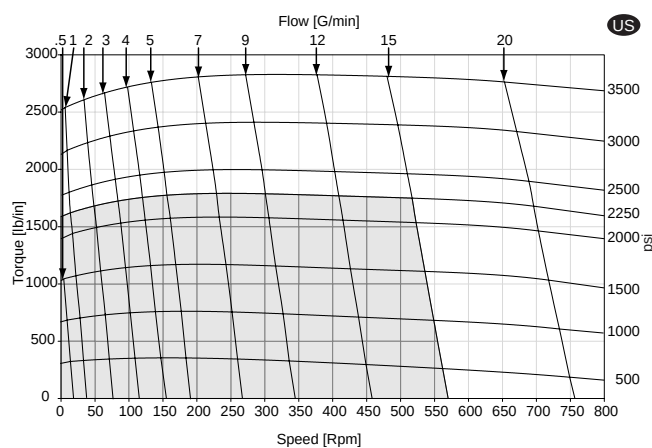
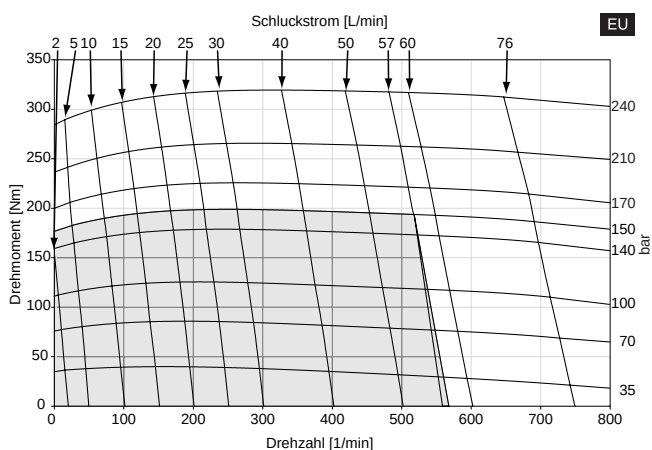
Consult factory for other available options, configurations ordering codes and lead times.

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

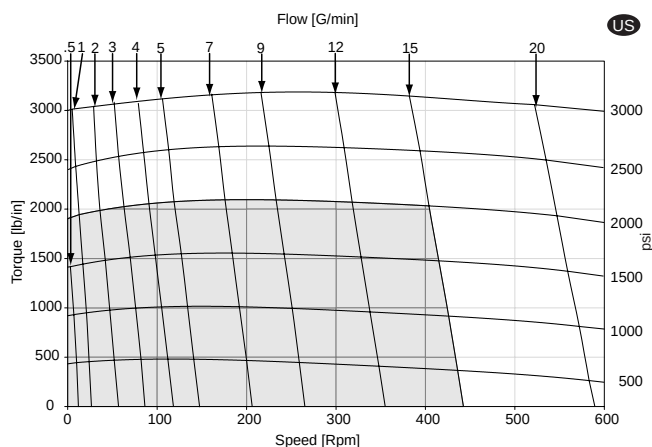
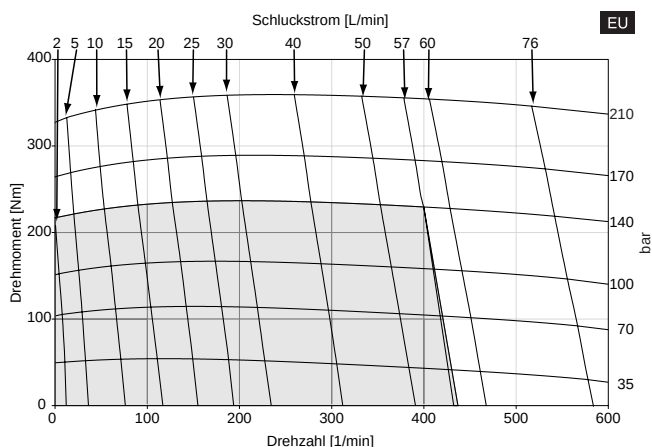
TF 0080



TF 0100



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.

Les données sur les performances sont basées sur des tests utilisant de l'huile 10W40 d'une viscosité de 200 SUS à 54°C (130°F). Ces données correspondent à des situations typiques. Les données réelles peuvent varier légèrement d'un moteur de production à l'autre.

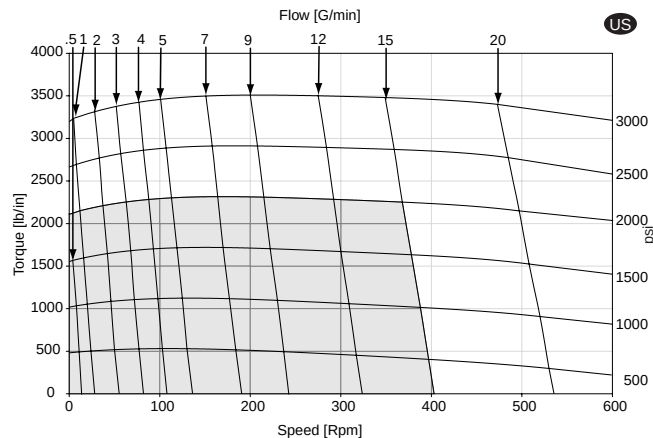
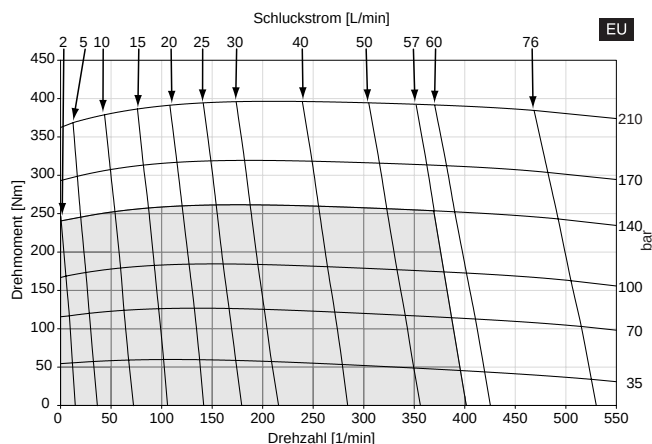
pp 074-089TF SD.p65

Intermittierende Werte maximal 10% von jeder Betriebsminute.

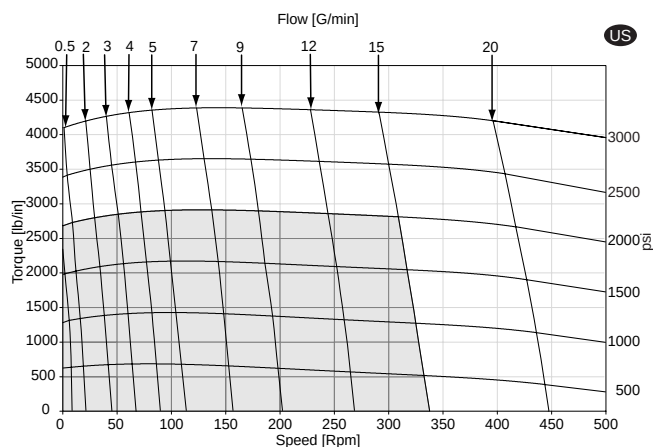
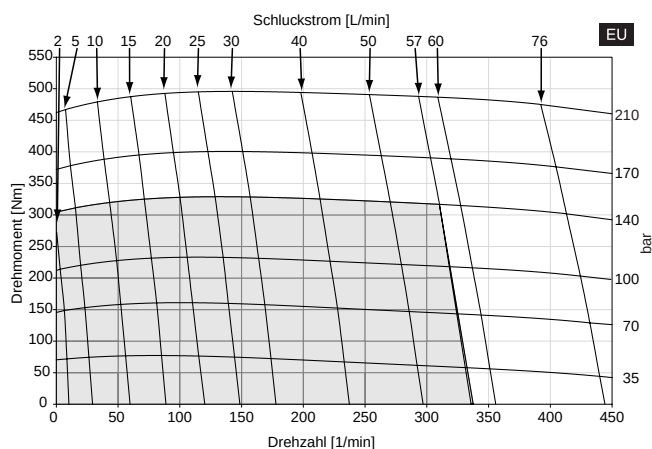
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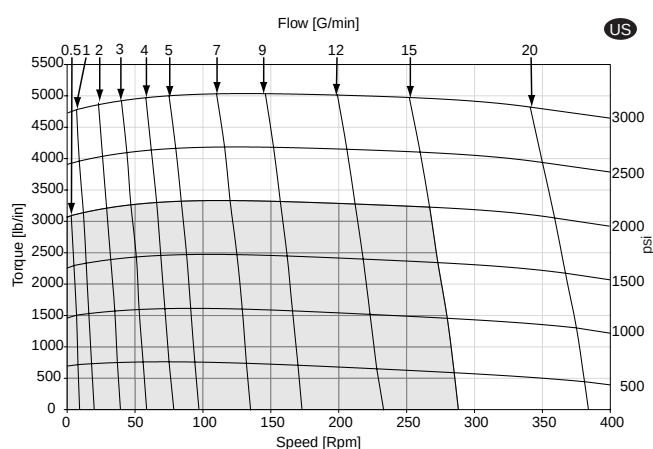
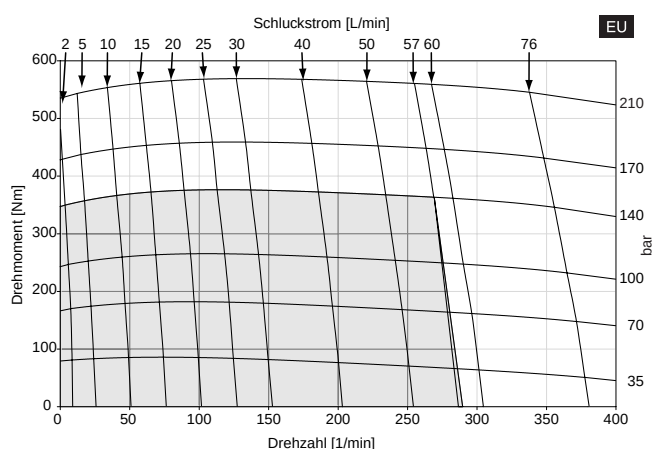
TF 0140



TF 0170



TF 0195



□ Cont.

□ Int.

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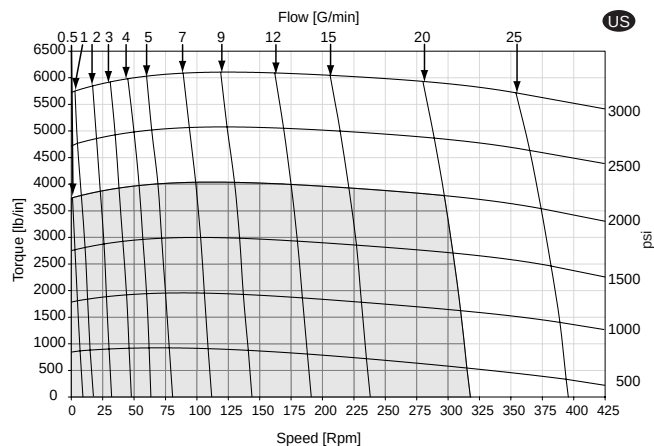
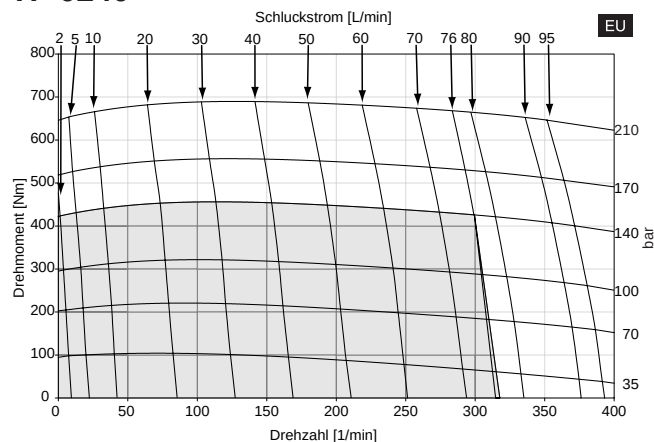
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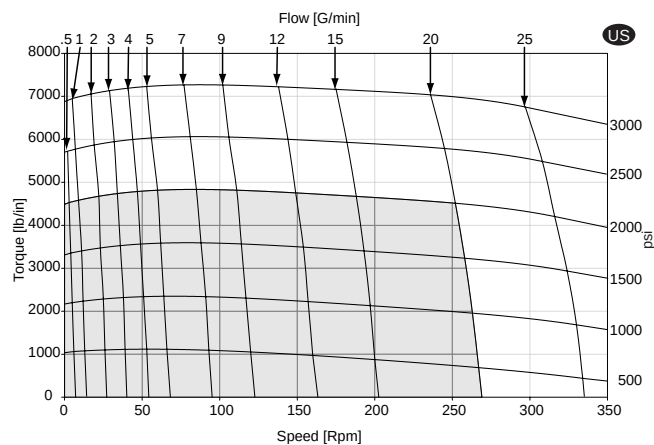
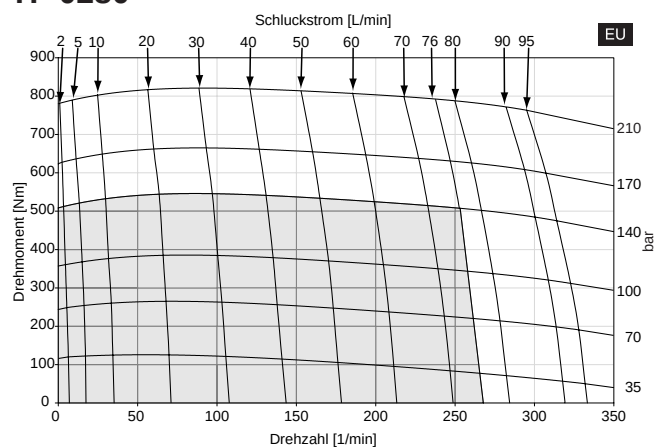
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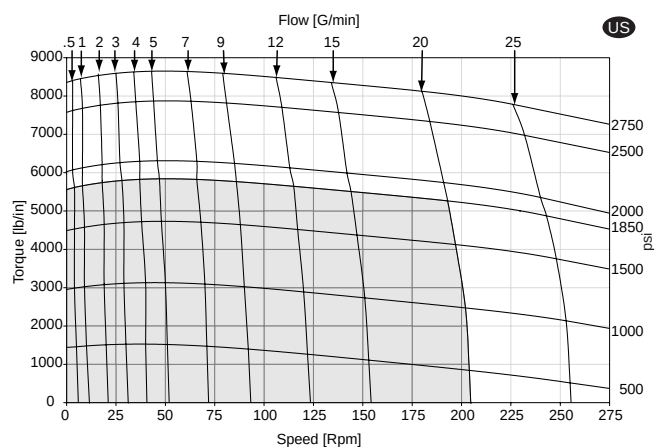
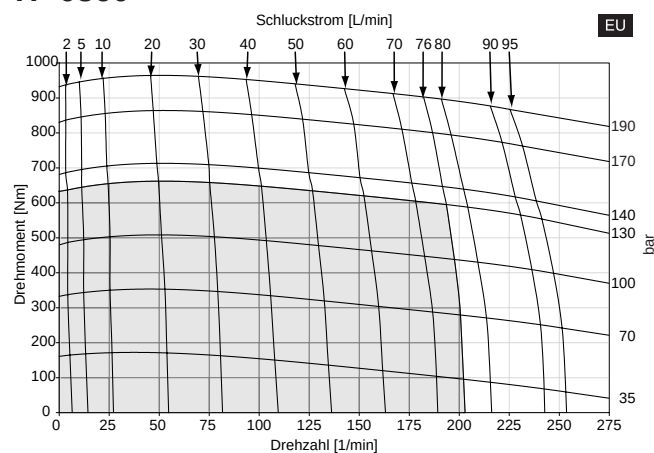
TF 0240



TF 0280



TF 0360



□ Cont.

□ Int.

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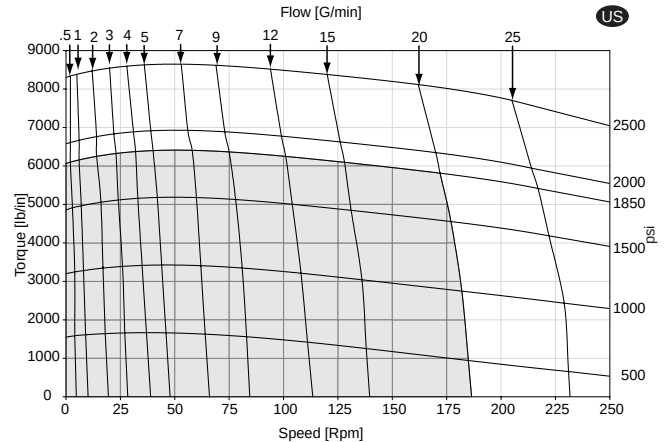
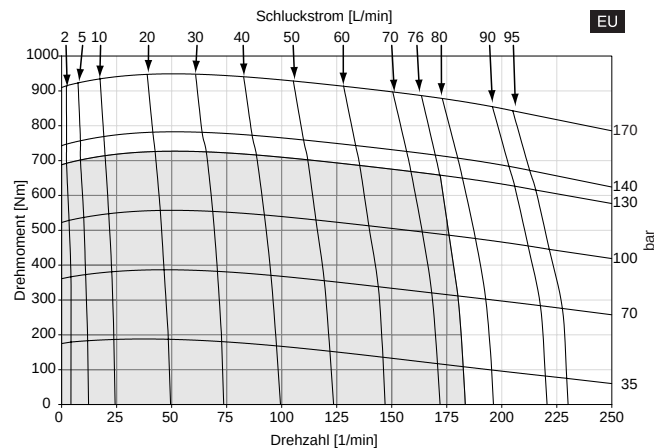
pp 074-089TF SD.p65

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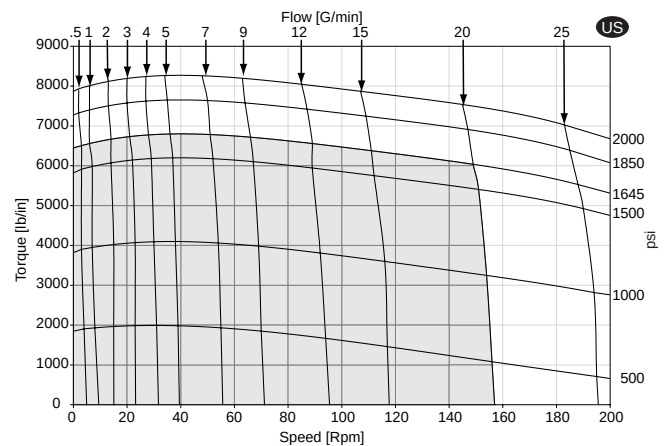
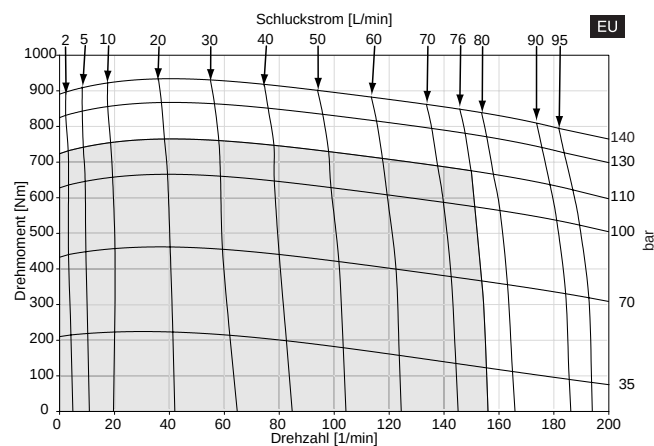
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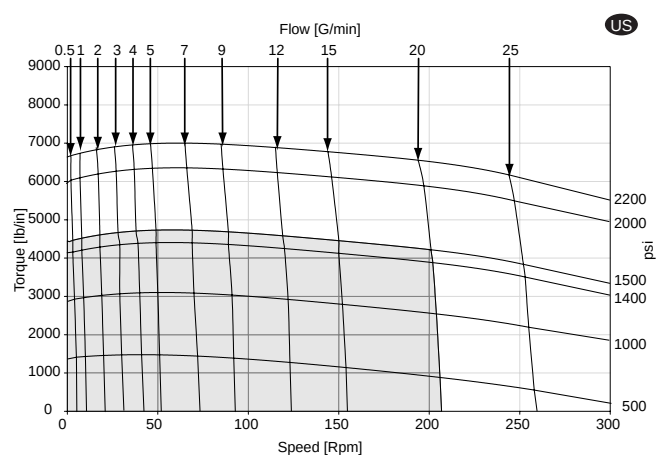
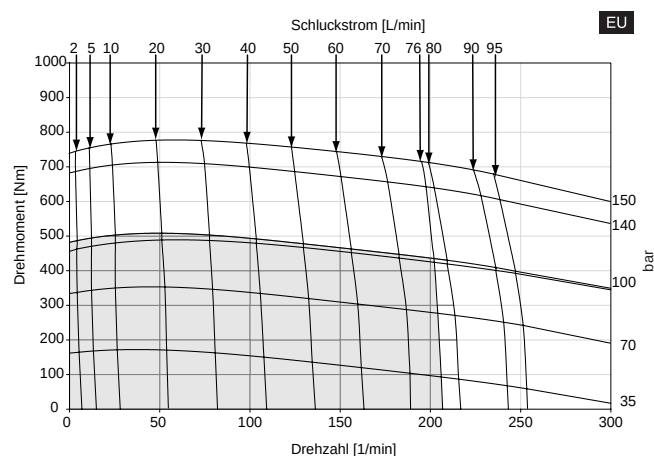
TF 0405



TF 0475



TF 0365 Clutch Motor



□ Cont.

□ Int.

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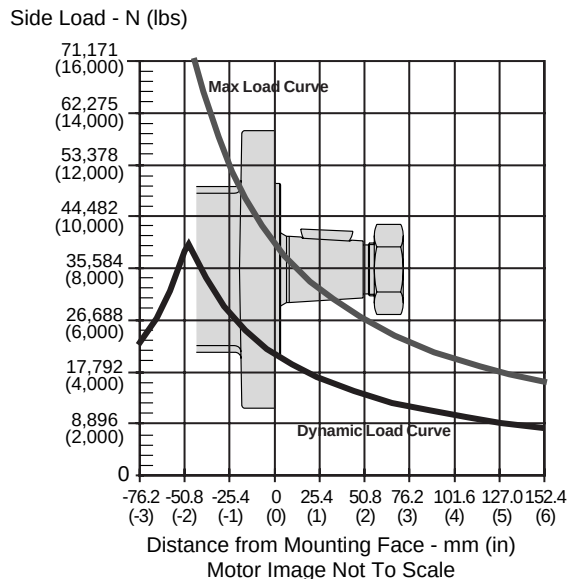
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Flange Mount / Standardgehäuse
Monture à bride(s) / Montaje de brida



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

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

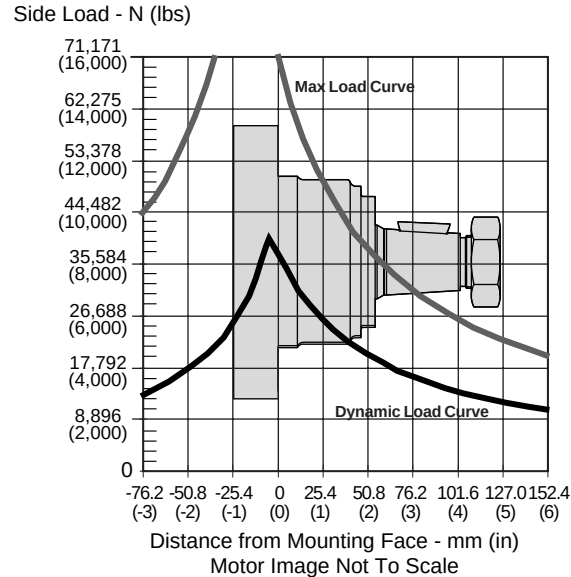
F_a = Dynamic side load defined by above curve at a distance from mounting flange. / Erlaubte radiale Wellenbelastung als Funktion der Laenge

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.

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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.

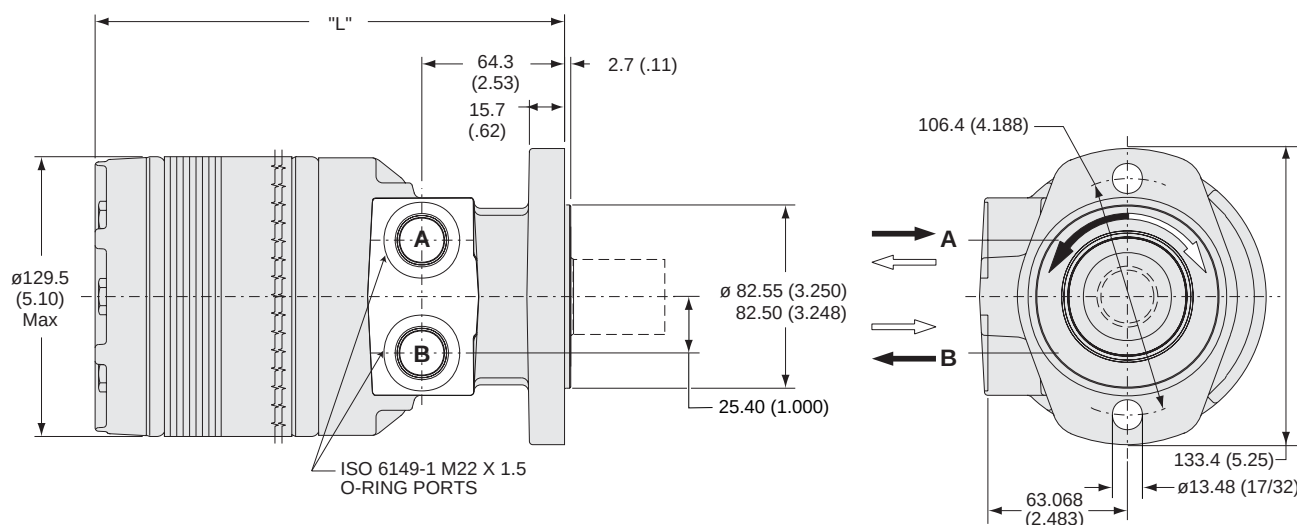
Die maximale radiale Wellenbelastungskurve ist definiert als maximale statische Last ohne Drehzahl. Sie gilt als Grenze und sollte keinesfalls überschritten werden.

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.

Code: AH

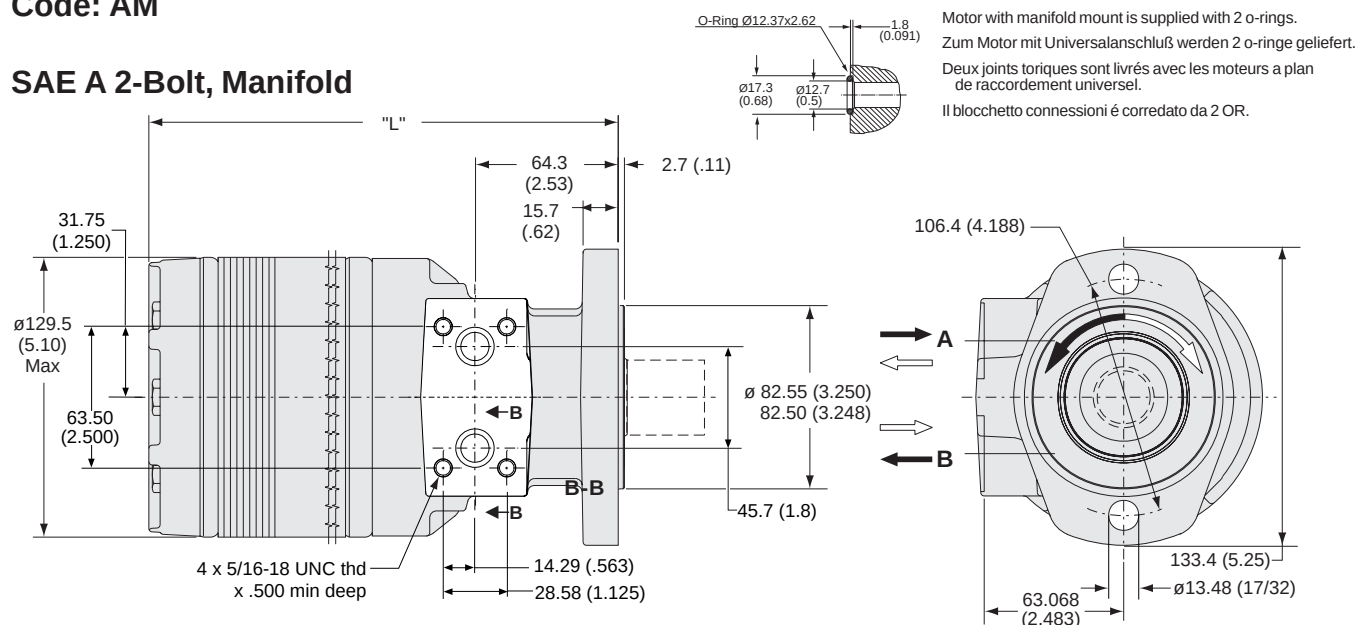
SAE A 2-Bolt, ISO 6149-1 M22 x 1.5



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

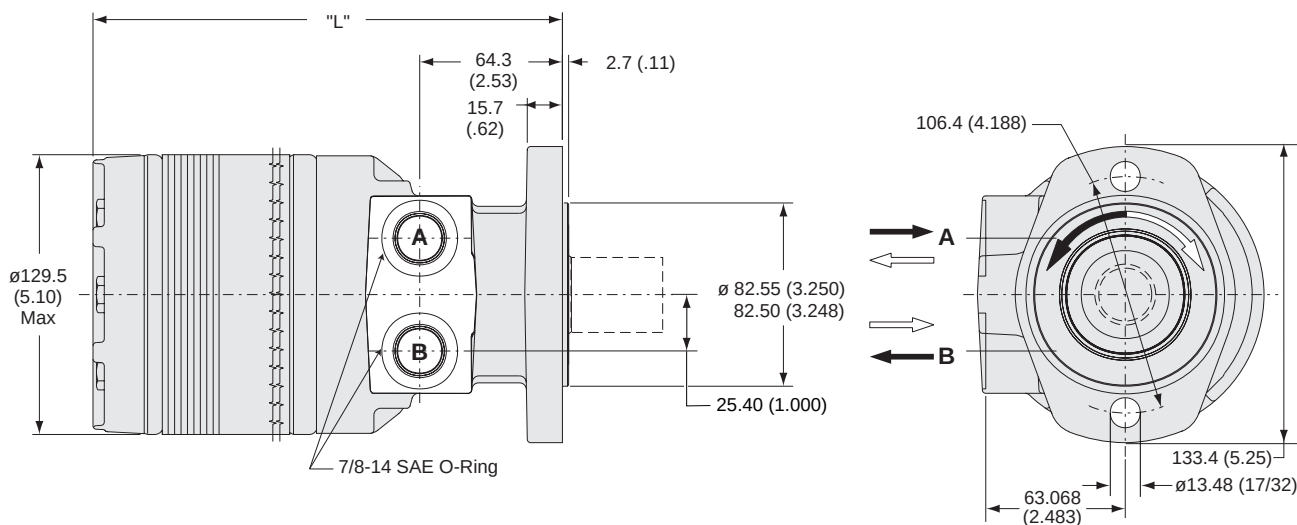


Code AM	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	kg	13.6	13.6	13.8	13.9	14.2	14.5	14.9	15.2	16.0	16.5	17.2
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	"L" mm	191	191	194	196	199	202	207	211	221	225	234
	"L" (in)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

Code: AS

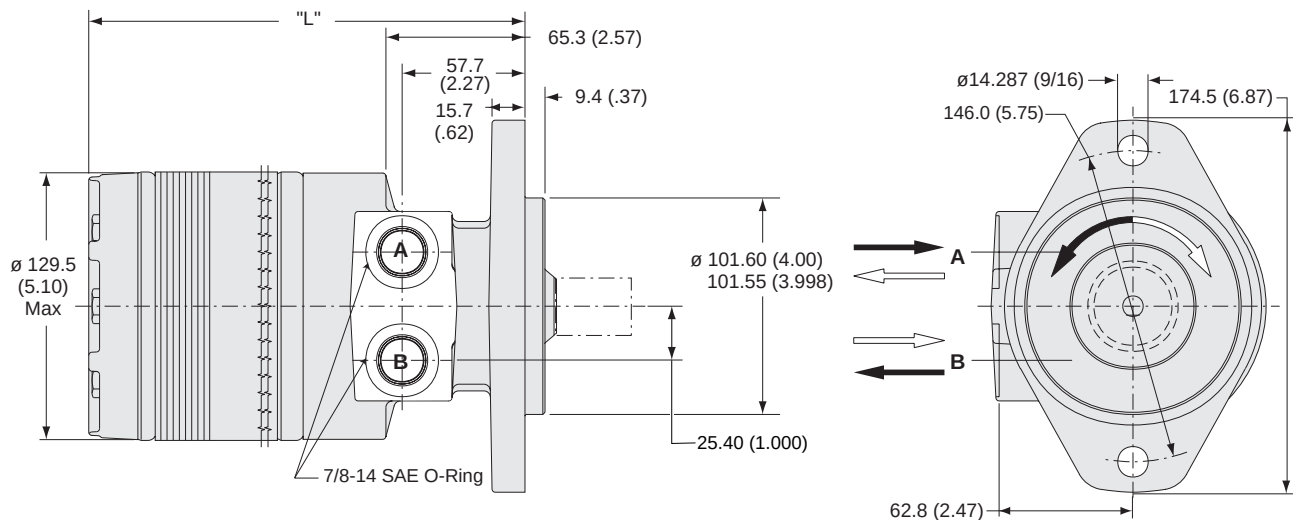
SAE A 2-Bolt, 7/8-14 SAE O-Ring



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



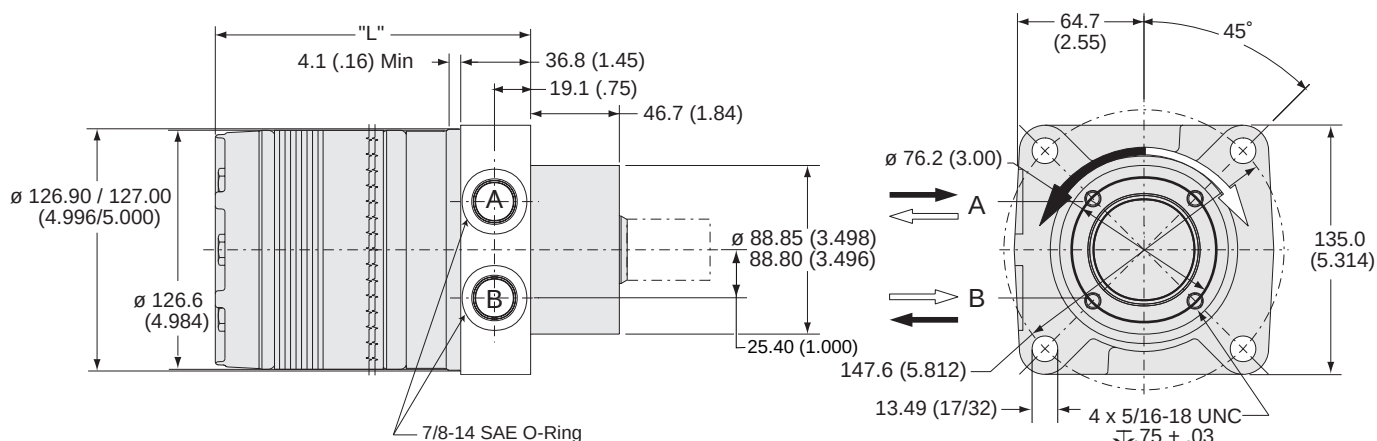
Code BS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	kg	14.2	14.2	14.5	14.6	14.8	15.1	15.5	15.8	16.6	17.1	17.8
Poids/Peso	(lb)	(31.3)	(31.4)	(31.9)	(32.1)	(32.7)	(33.3)	(34.3)	(34.9)	(36.6)	(37.8)	(39.3)
Length	"L" mm	184	184	187	189	192	195	200	205	214	218	227
	"L" (in)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

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Code: LS

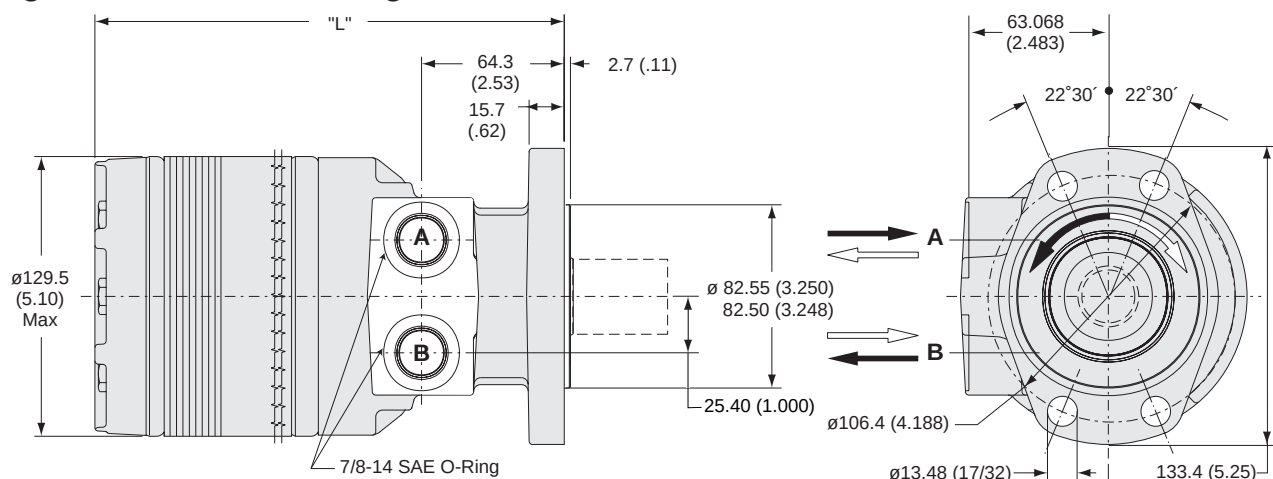
Wheel, Front Brake Nose



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

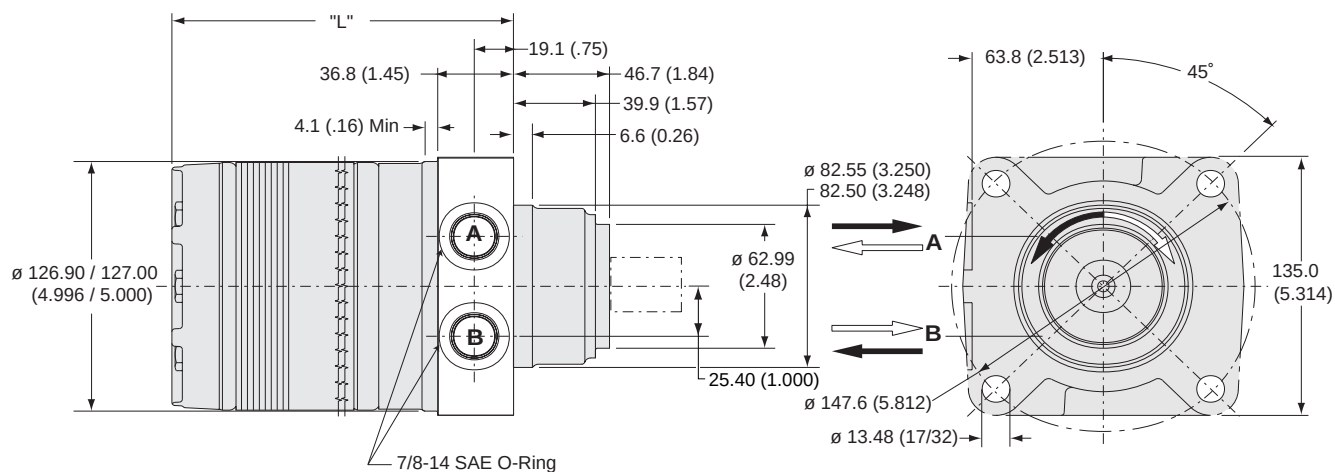


Code MS	disp.	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Weight/Gewicht	kg	13.6	13.6	13.8	13.9	14.2	14.5	14.9	15.2	16.0	16.5	17.2
Poids/Peso	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
Length	"L" mm	191	191	194	196	199	202	207	211	221	225	234
	"L" (in)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

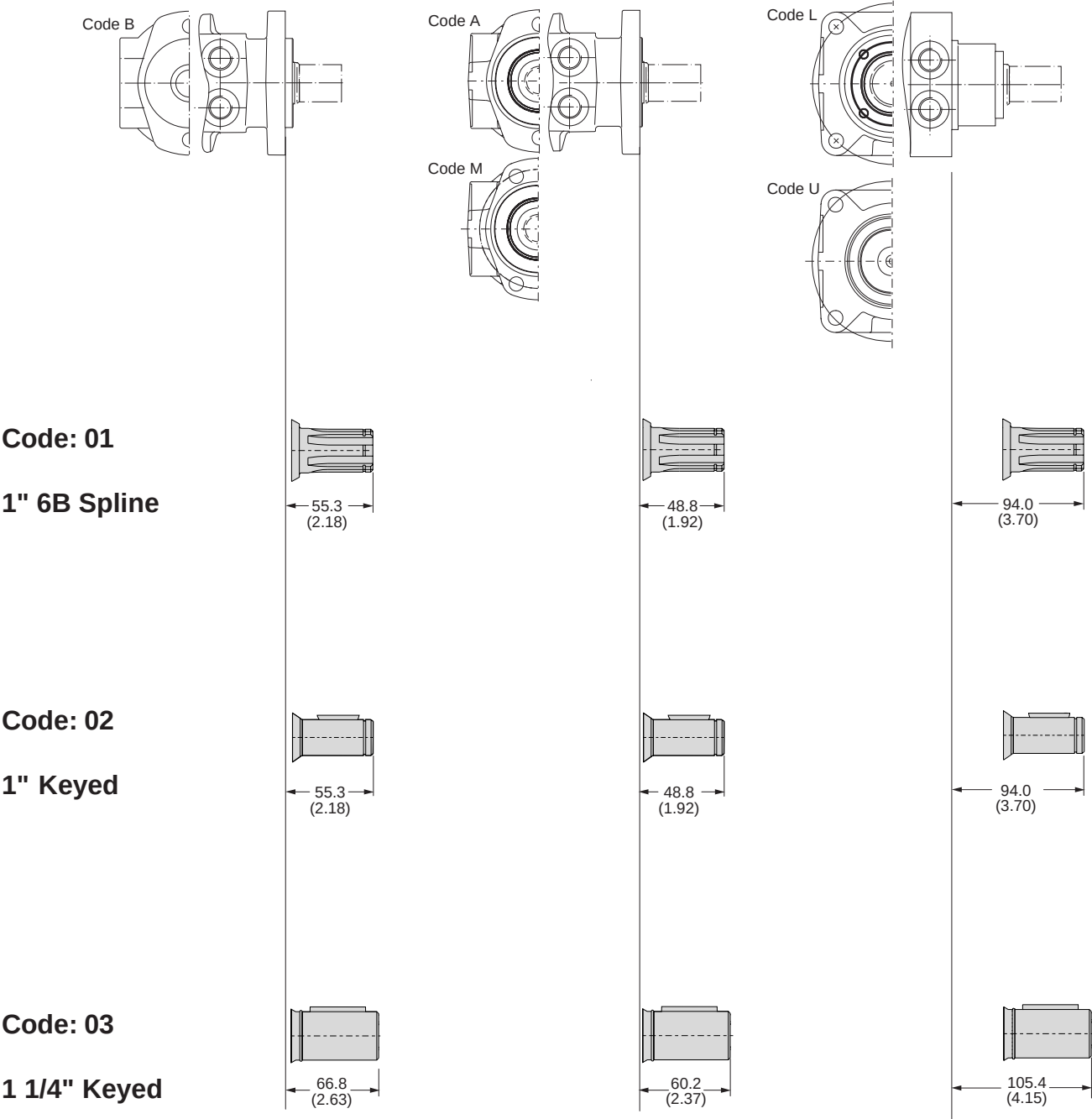
Wheel, Standard, 7/8-14 SAE O-Ring



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 ().

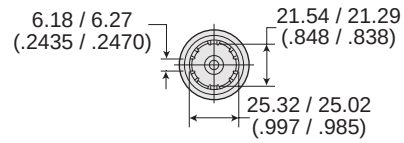
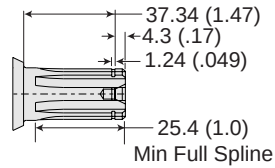
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English equivalents for metric specifications are shown in ().

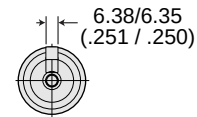
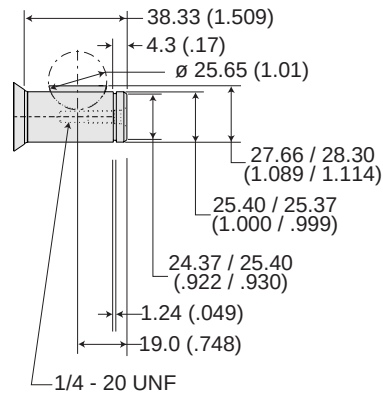
Code: 01

1" 6B Spline



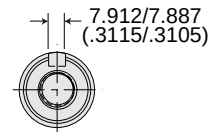
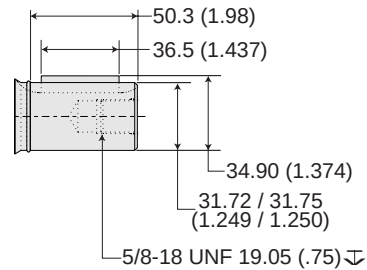
Code: 02

1" Keyed



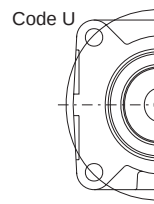
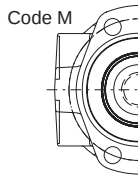
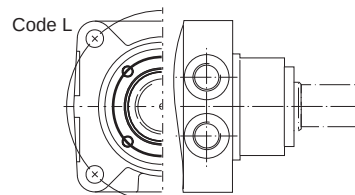
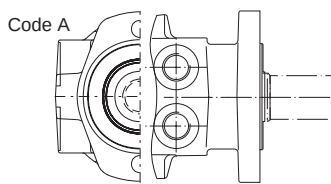
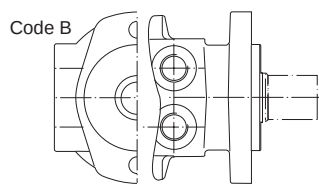
Code: 03

1 1/4" Keyed



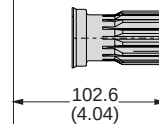
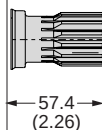
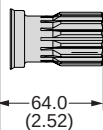
English equivalents for metric specifications are shown in ().

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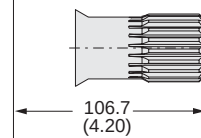
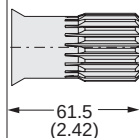
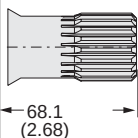
Code: 05

1 1/4" 14 Tooth Spline



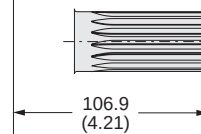
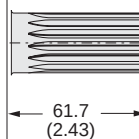
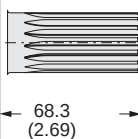
Code: 06

19 Tooth Spline



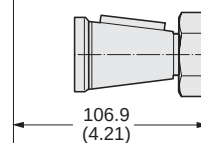
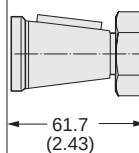
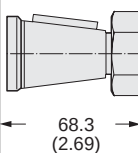
Code: 07

15 Tooth Spline



Code: 08

1 1/4" Tapered

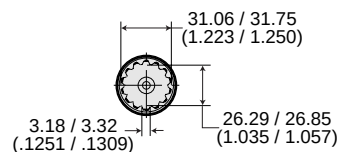
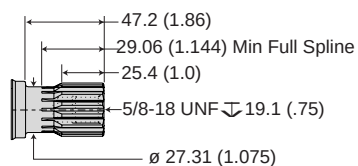


English equivalents for metric specifications are shown in ().

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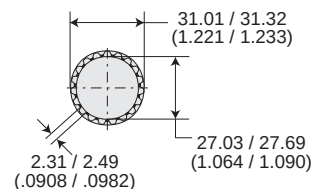
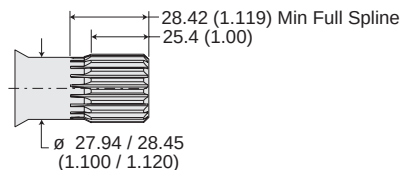
Code: 05

**1 1/4" 14 Tooth
Spline**



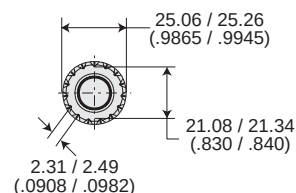
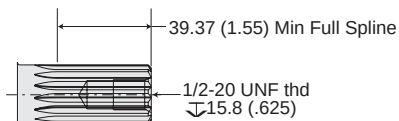
Code: 06

19 Tooth Spline



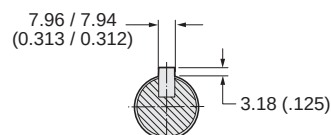
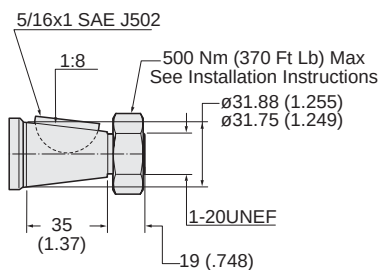
Code: 07

15 Tooth Spline



Code: 08

1 1/4" Tapered



English equivalents for metric specifications are shown in ().

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