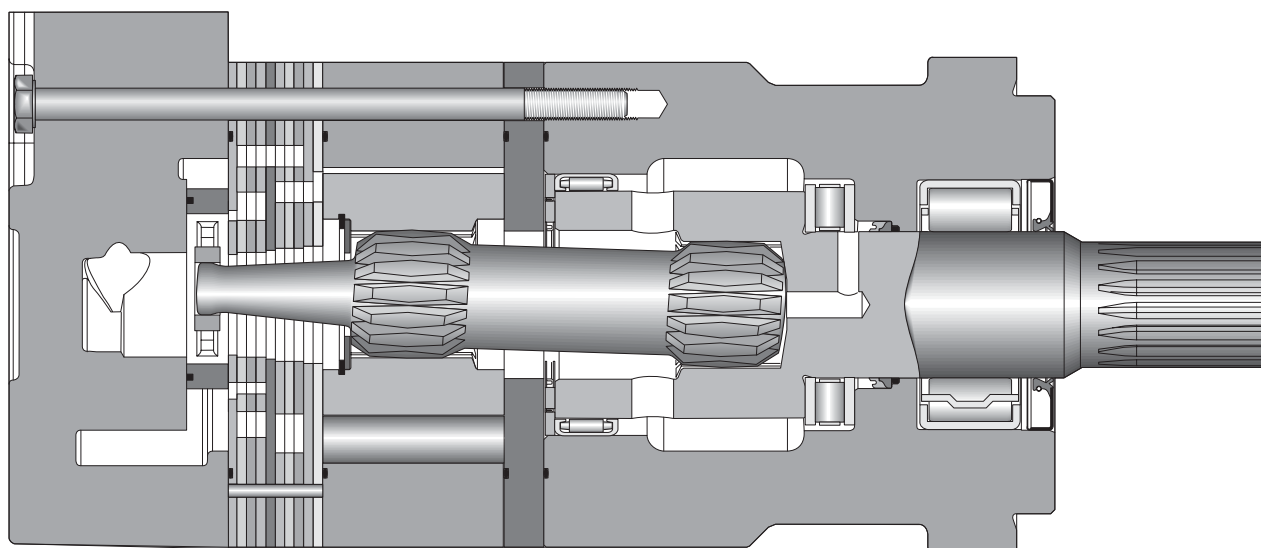
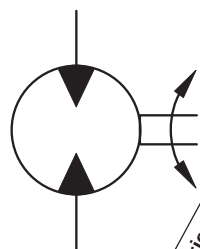


7 Displacements 7 Schluckvolumen Cylindrée 7 Desplazamientos	(15.3 to 61.0 in³/rev) 250 . . . 1000 cm³/rev	
Maximum Pressure Eingangsdruck Pression entrée Pressione in entrata	Cont. (to 3500 psi) . . . 241 bar	Int. (to 4500 psi) . . . 310 bar
Maximum Oil Flow Schluckstrom Débit d'huile Portata		(to 60 gpm) . . . 227 lpm
Maximum Speed Drehzahl Velocità di rotazione Vitesse de rotation		(523 rpm) 523 rpm
Maximum Torque MaxDrehmoment Couple Coppia	Cont. (21360 lb in) 2413 Nm	Int. (23540 lb in) 2660 Nm
Maximum Side Load at Key Seitenlast Charges latérales Carico radiale		(to 5900 lb) . . . 26245 N

Exceptional Strength and Durability in a High Performance Motor

The heart of Parker's TK Series powertrain, the torque link, is an extra heavy duty part that includes patented 60:40 spline geometry. Rugged construction throughout allows the transmission of over 23,000 lb-in of torque. The entire powertrain is continually washed in cool, high flow fluid to assure long life. Roller vanes and sealed commutator maintain high efficiency and provide smooth low speed performance.





Motor Series TK	Geom. displacement Cylindrée Desplazamientos cm³/rev in³/rev	Max. speed @ Max. Drehzahl Velocidad di rotazione max rev/min Velocidad maxima a caudal intermitente maximo	Max. intermittent flow Velocità di rotazione max Max. oil flow Débit d'huile maxi Caudal Maximo de Aceite Max. differential pressure Max. Druckgefälle Presion diferencial maxima Max. supply pressure Max. Eingangsdruck Presion maxi entrée Max. torque Max. Drehmoment Couple Maximo Max. performance Max. Leistungabgabe Maximo redinmiento Min. starting torque Min. Anlaufmoment Couple min. fourni au dé manrage Torque minimo de arranque	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
TK 0250	250 15.3	523	114 133 30 35	241 310 3500 4500	328 4750	814 1043 7204 9234	48.5 65.0	689 879 6100 7780	
TK 0315	315 19.2	413	114 133 30 35	241 310 3500 4500	328 4750	1029 1314 9105 11625	47.4 63.5	949 1217 8400 10770	
TK 0400	400 24.4	373	114 151 30 40	207 276 3000 4000	328 4750	1153 1524 10201 13484	48.7 65.3	1049 1410 9280 12480	
TK 0500	500 30.5	298	114 151 30 40	207 276 3000 4000	328 4750	1439 1914 12736 16940	48.1 64.5	1322 1783 11700 15780	
TK 0630	630 38.4	237	114 151 30 40	207 224 3000 3250	328 4750	1617 1716 14313 15187	33.7 45.2	1497 1621 13250 14350	
TK 0800	800 48.8	276	151 227 40 60	190 207 2750 3000	328 4750	1916 2300 16960 20360	44.4 59.5	1745 1902 15440 16834	
TK 1000	1000 61.0	218	151 227 40 60	172 190 2500 2750	328 4750	2413 2660 21360 23540	35.4 47.5	1981 2180 17535 19290	

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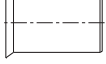
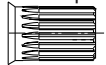
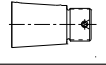
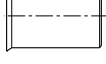
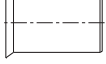
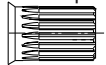
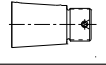
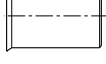
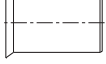
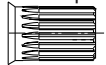
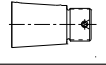
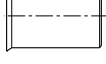
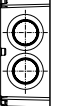
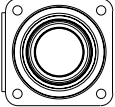
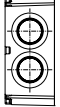
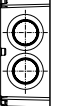
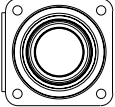
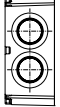
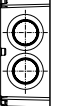
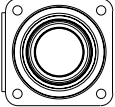
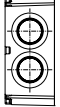
Datos tecnicos obtenidos con aceite 10W40 de 200 SUS de viscosidad a 54°C (130°F). Los datos proporcionados son valores tipicos. Los valores exactos reales podrian tener una pequena variacion entre distintos motores.

*Intermittent operation rating applies to 10% of every minute.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

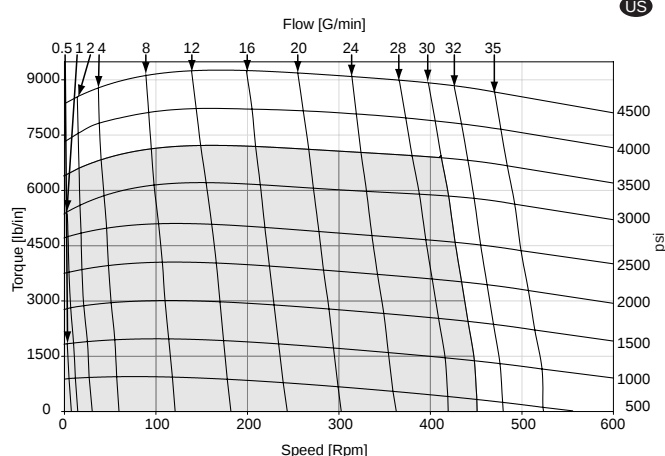
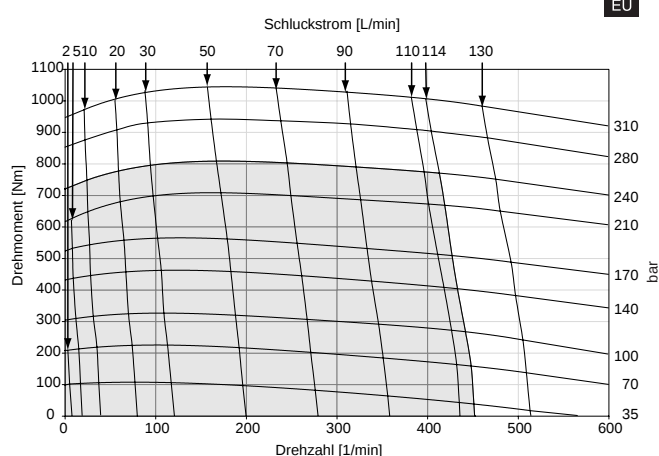
Fonctionnement interm. 10% max. de chaque minute d'utilisation.

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

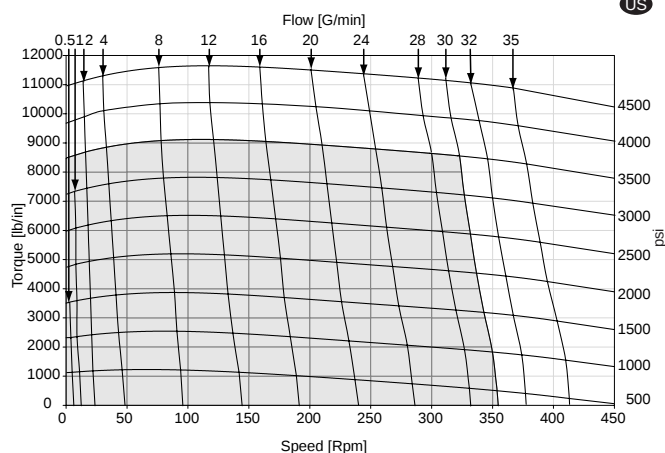
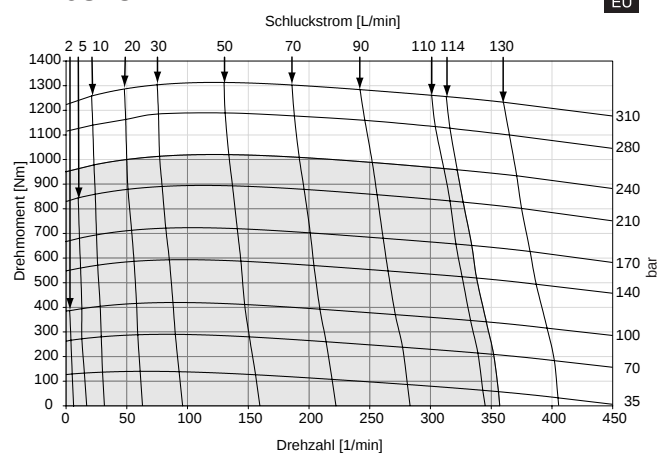
TK	XXXX	X5	XX	0	XXXX																														
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting/Rear Ports Gehäuse/Endanschluß Carter/Alimentazione Laterale Montaje/Orifices arriér	Shaft Welle Arbre Ejes	Rotation Drehrichtung Direction de rotation Rotacion	Options Opciones																														
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Consult factory for other available options, configurations ordering codes and lead times.

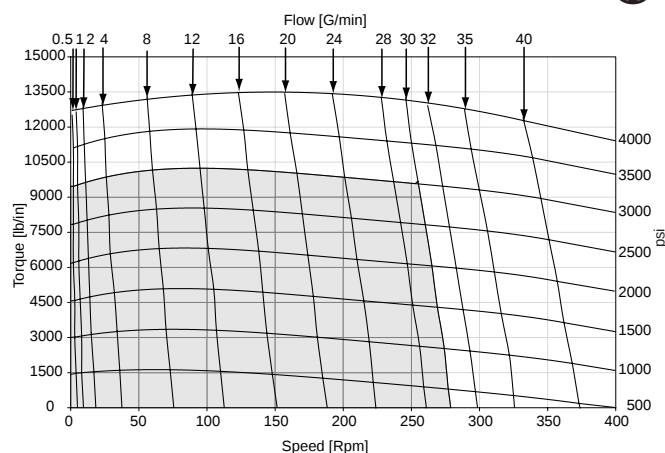
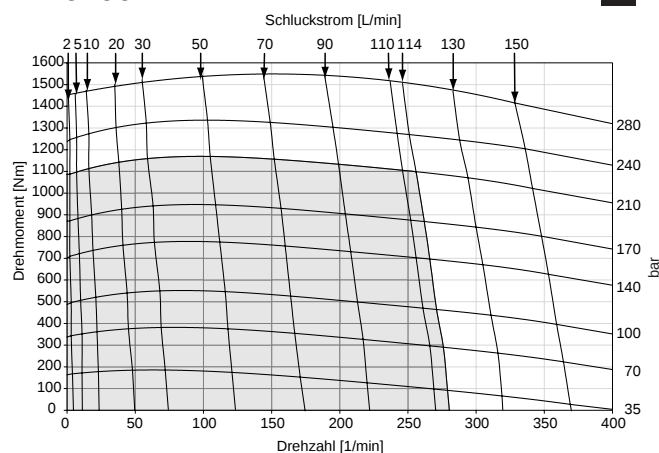
TK 0250



TK 0315



TK 0400



□ 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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pp 150-161 TK Series SD.p65

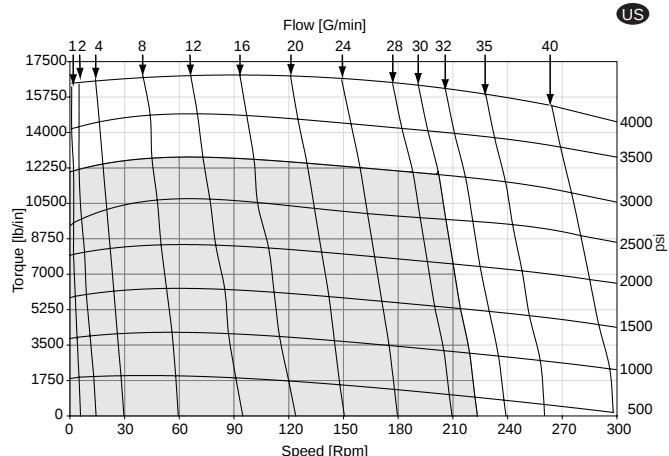
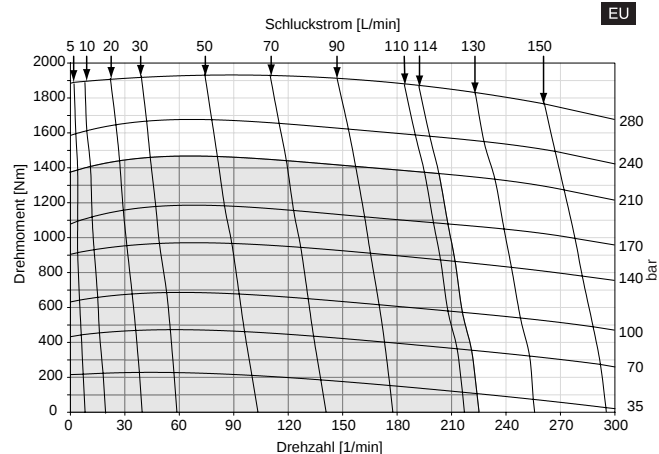
Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

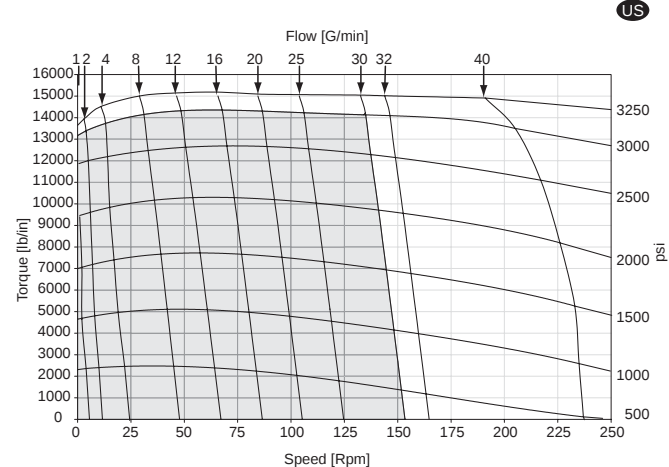
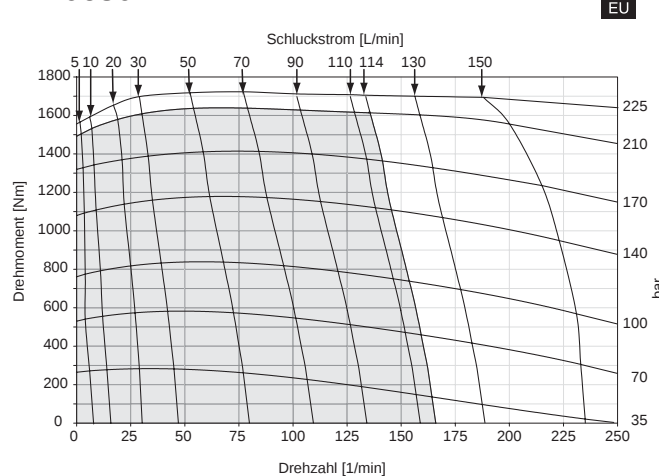
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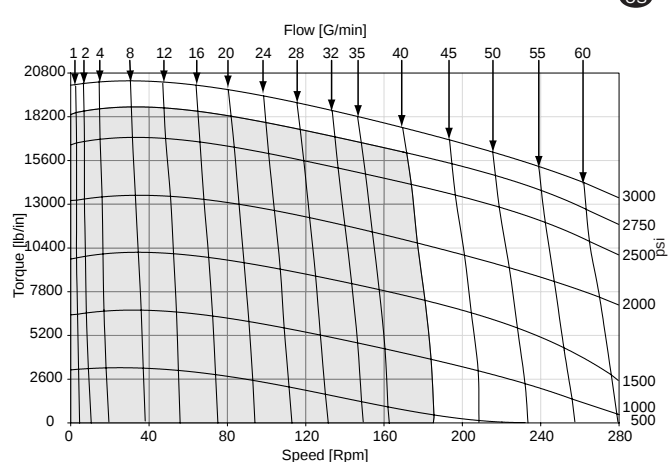
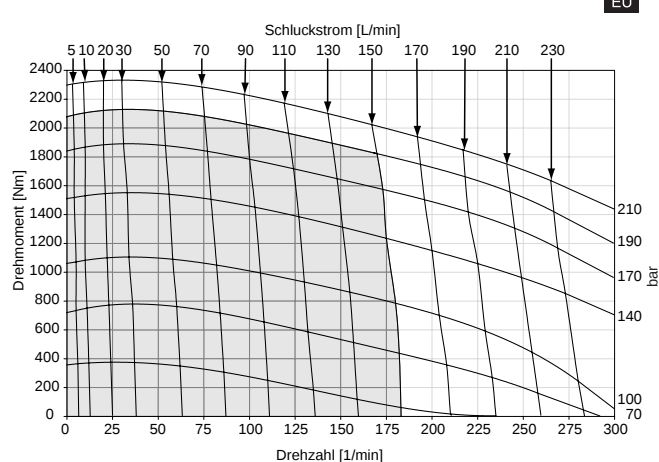
TK 0500



TK 0630



TK 0800



Cont.

Int.

Intermittent operation rating applies to 10% of every minute.

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

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pp 150-161 TK Series SD.p65

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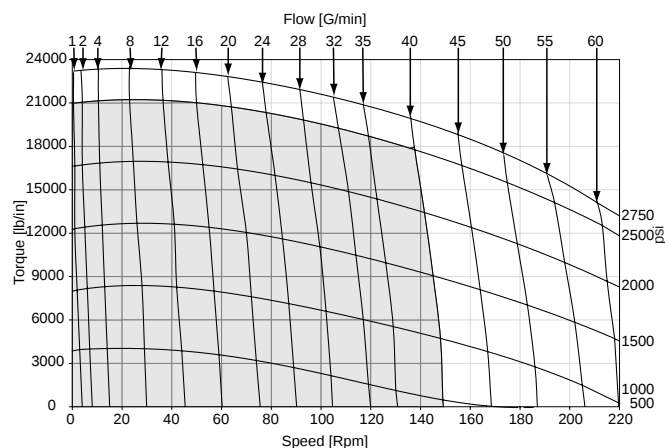
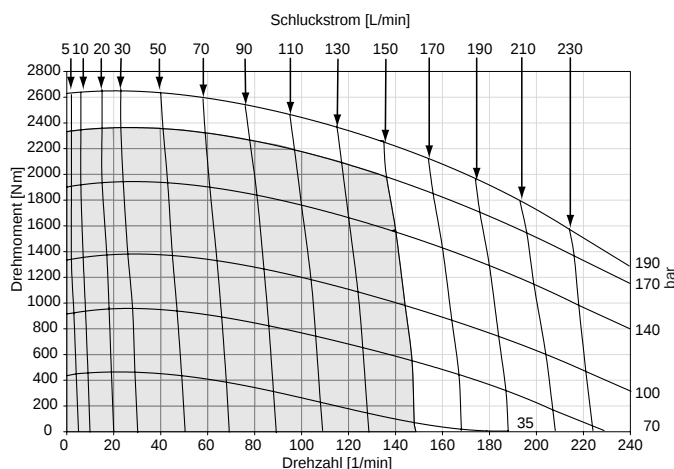
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TK 1000

EU

US



☐ Cont.

☐ Int.

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

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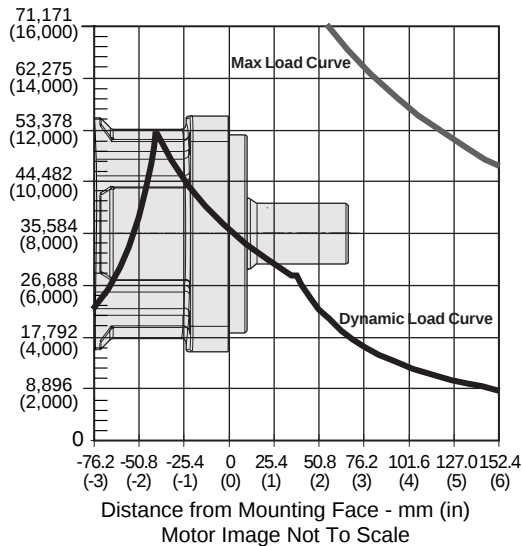
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Flange Mount / Standardgehäuse
Monture à bride(s) / Montaje de brida

Side Load - N (lbs)



The dynamic side load curve is based on uni-directional steady state loads for L_{10} bearing life at 12×10^6 @ 100 RPM revolutions.

Die zulaessige auslegbare radiale Wellenbelastungskurve ist unter ruhenden, einseitig statisch gerichteten Lastverhältnissen auf eine L_{10} Lebensdauer mit 12×10^6 Umdrehungen kalkuliert bei 100 min.

La courbe de charge laterale permise se base sur des charges unidirectionnelles en regime permanent pour le roulement L_{10} a 12×10^6 @ 100 RPM revolutions.

La curva de valores admisibles de carga lateral esta basada en cargas contantes para cojinetes L_{10} a 12×10^6 revoluciones @ 100 RPM.

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.

$$L = \frac{12 \times 10^6}{60 \times S} \left\{ \frac{F_a}{F_b} \right\}^{3.33}$$

Where / Mit:

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

L = Life In Hours / Lebensdauer in Stunden

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

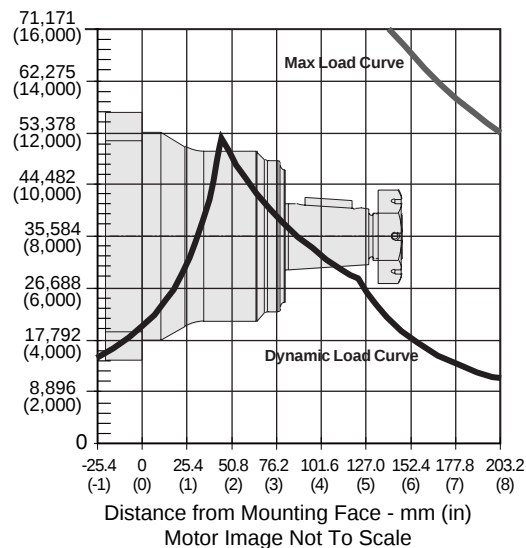
F_b = Application side load. / Anwendungsseitige Wellenbelastung

Note: Calculations are based on L_{10} bearing life per ISO 281.

Auslegung basiert auf einer L_{10} Lebensdauer nach ISO 281.

Wheel Mount / Radnabengehäuse
Monture à roue / Montaje de rueda

Side Load - N (lbs)



The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.

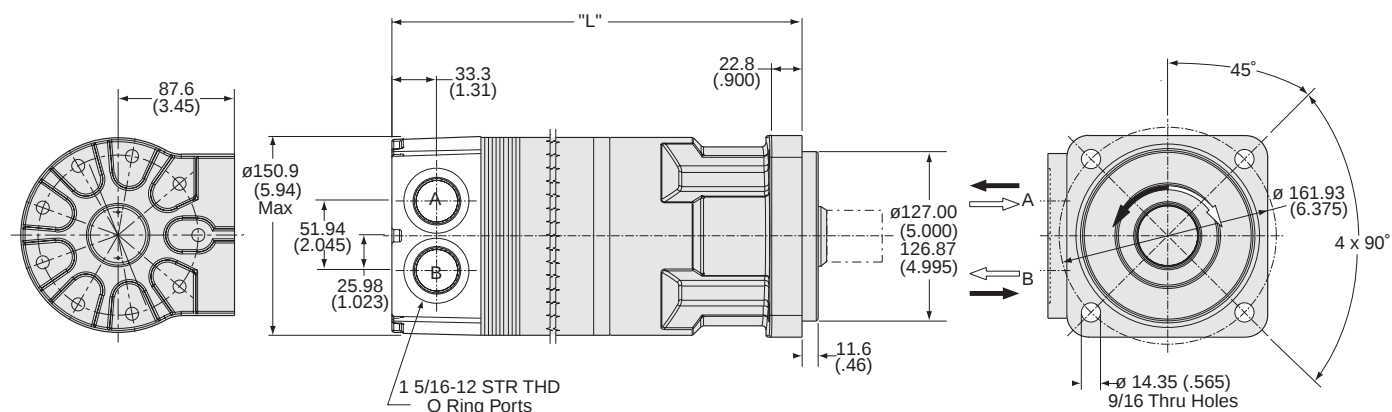
Die maximale radiale Wellenbelastungskurve ist definiert als maximale statische Last ohne Drehzahl. Sie gilt als Grenze und sollte keinesfalls überschritten werden.

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: K5

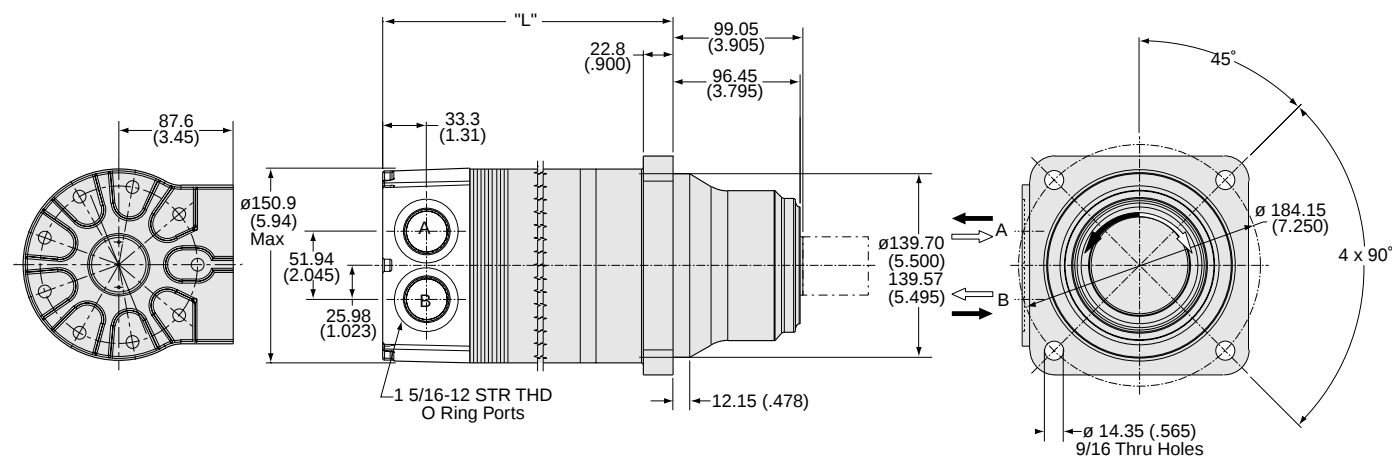
Standard SAE CC, 1 5/16-12 SAE Rear Radial



Code K5	disp.	0250	0315	0400	0500	0630	0800	1000
Weight/Gewicht	kg	32.0	32.7	33.5	34.5	35.7	37.2	39.1
Poids/Peso	(lb)	(70.6)	(72.0)	(73.8)	(76.0)	(78.8)	(82.1)	(86.3)
Length	"L" mm	277	282	290	297	310	323	340
	"L" (in)	(10.9)	(11.1)	(11.4)	(11.7)	(12.2)	(12.7)	(13.4)

Code: T5

Wheel Mount, 1 5/16-12 SAE Rear Radial

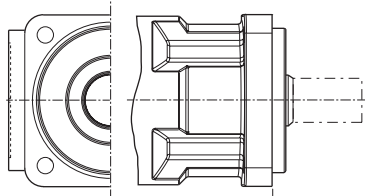


Code T5	disp.	0250	0315	0400	0500	0630	0800	1000
Weight/Gewicht	kg	30.8	31.4	32.3	33.2	34.5	36.0	37.9
Poids/Peso	(lb)	(67.9)	(69.3)	(71.1)	(73.3)	(76.1)	(79.4)	(83.5)
Length	"L" mm	191	196	203	213	224	239	257
	"L" (in)	(7.5)	(7.7)	(8.0)	(8.4)	(8.8)	(9.4)	(10.1)

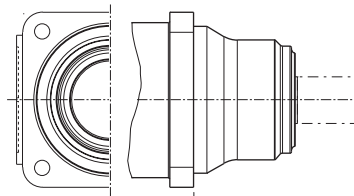
English equivalents for metric specifications are shown in ().

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Code K

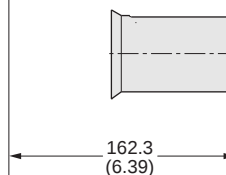
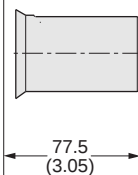


Code T



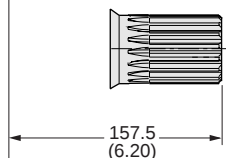
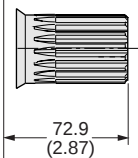
Code: 32

1 1/2" Keyed



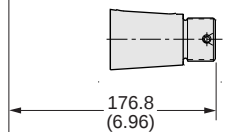
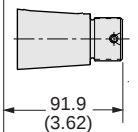
Code: 36

**1 1/2" 17 Tooth
12/24 Spline**



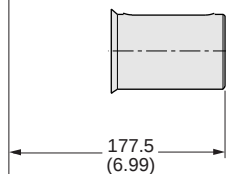
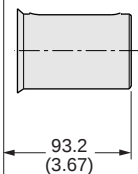
Code: 63

1 3/4" Tapered



Code: 64

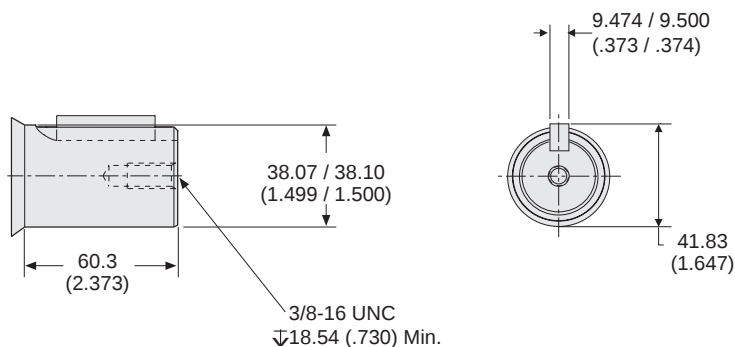
40mm Keyed



English equivalents for metric specifications are shown in ().
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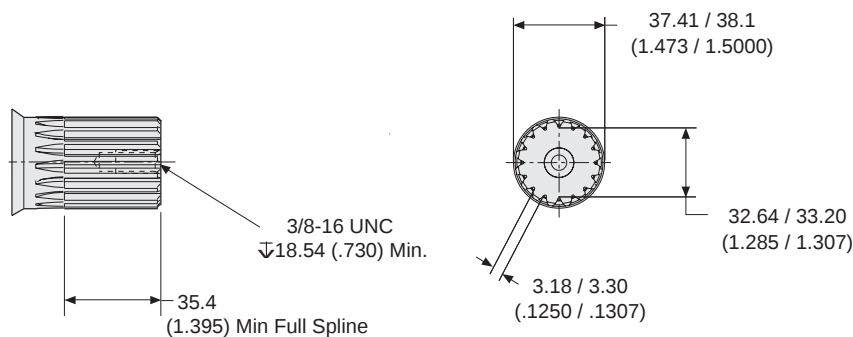
Code: 32

1 1/2" Keyed



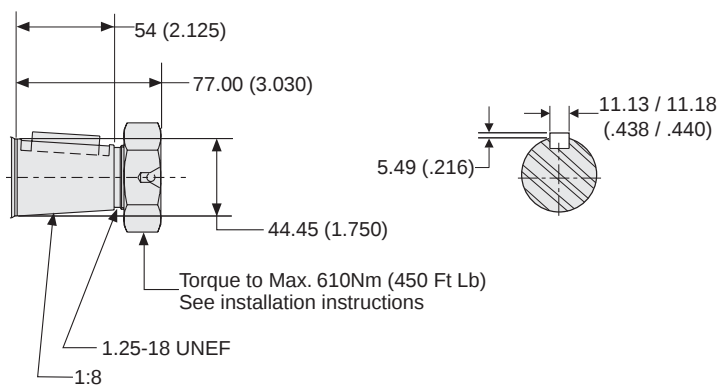
Code: 36

**1 1/2" 17 Tooth
 12/24 Spline**



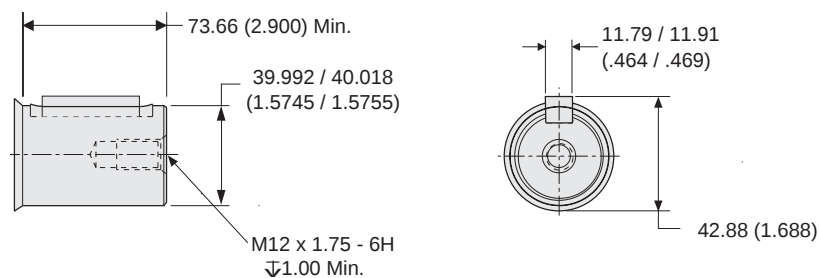
Code: 63

1 3/4" Tapered



Code: 64

40mm Keyed



English equivalents for metric specifications are shown in ().
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