



Torqmotor™

Series

TE / TJ / TF / TL / TG / TH / TK



parker.com/pmde



ENGINEERING YOUR SUCCESS.

Features

- **Langsamlaufender Gerotor-Motor**

- **Spezielle Orbital-Steuerung**
Geringe interne Leckage
Hoher volumetrischer Wirkungsgrad

- **Rollen im Rotorsatz**

- Reduzierte Reibung
Lange Lebensdauer

- **Patentierte Hochdruckwellendichtung**

- Keine Leckölleitung
Keine Rückschlagventile

- **Vielzahl von Varianten**

- Großer Einsatzbereich

- **Moteur lent système Gerotor**

- **Une distribution orbitale particulière assure**

- fuites internes minimales
rendements volumétriques élevés

- **Le rotor à rouleaux**

- réduit les frottements
augmente la durée de vie

- **Par l'utilisation de joints d'arbre haute pression brevetés**

- pas de conduite de drainage
pas de clapets anti-retour

- **Grâce à de nombreuses variantes**

- larges domaines d'application

Torqmotor

Series TF

- **Low Speed Gerotor Motor**

- **Zero leak commutation valve**

- For greater, more consistent volumetric efficiency

- **Roller vane rotor set**

- Reduces friction and internal leakage
Maintaining efficiency throughout the life of the motor

- **A patented high-pressure shaft seal**

- No check valves needed
No extra plumbing

- **Wide choice of displacement range, flange and shaft options**

- Greater efficiency in systems design to suit your application

- **Motore orbitale a bassa velocità**

- **Una particolare distribuzione orbitale assicura**

- trafilamento ridotto
elevato rendimento volumetrico

- **Con lo statore a rullini**

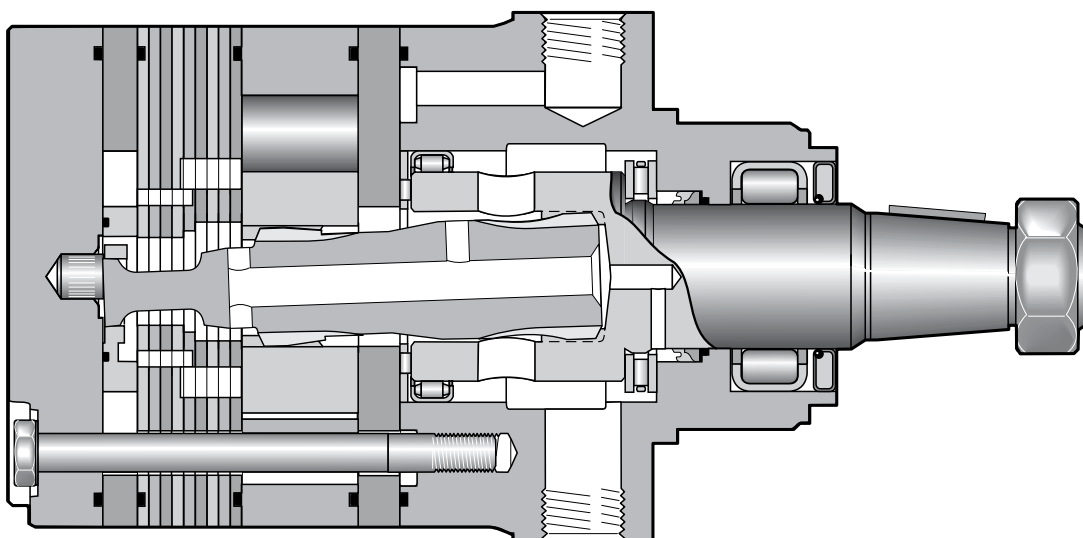
- si riduce l'attrito interno
si mantiene nel tempo l'efficienza del motore

- **Una guarnizione di tenuta ad alta pressione brevettata elimina la necessità**

- di una linea di drenaggio esterna
e di valvole di non ritorno

- **Un'ampia gamma di cilindrata, flange ed alberi**

- consentono scelte adeguate ad ogni esigenza costruttiva



TF **A A A B**

Serie
Series
Série
Serie

Schluckvolumen
Displacement
Cylindrée
Cilindrata

Gehäuse
Housing
Carter
Corpo motore

Anschluss
Ports
Plan de raccordement
Conessioni

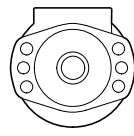
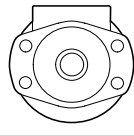
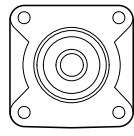
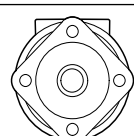
Welle
Shaft
Arbre
Albero

Drehrichtung
Direction of rotation
Direction de rotation
Direzione di rotazione

Option code

For further options different to standard 'AAAB' see page 80

Code	cm ³ /rev
0080	81
0100	100
0130	128
0140	141
0170	169
0195	195
0240	237
0280	280
0360	364
0405	405
0475	477

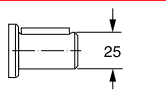
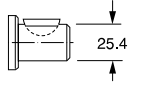
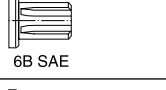
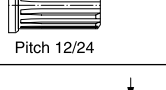
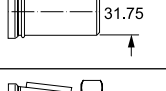
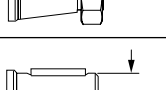
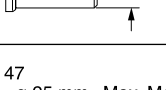
Code	Housing
E	
M	
H	
V ¹⁾	

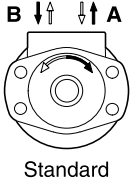
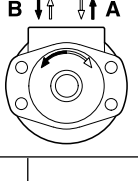
Code	Front port
W	G 1/2
V	7/8-14 UNF O-Ring
N²⁾	Universal-M8x13
K ³⁾	Universal-M6x12

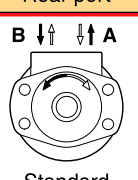
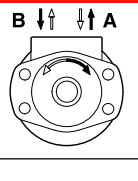
²⁾ Nicht verfügbar für Gehäuse "H"
 Not possible for housing "H"
 Pas disponible pour carter "H"
 Non disponibile con il corpo codice "H"

³⁾ Nicht verfügbar für Gehäuse "M, E, V"
 Not possible for housing "M, E, V"
 Pas disponible pour carter "M, E, V"
 Non disponibile con il corpo codice "M, E, V"

Code	Rear port
Y	G 1/2 Axial
A	7/8-14 UNF Axial
X	G 1/2 Radial
B	7/8-14 UNF Radial
L	Universal Radial M8x13

Code	Shaft
26⁴⁾	 25
47 ⁴⁾⁵⁾	 25.4
41 ⁴⁾⁵⁾	 6B SAE
44	 Pitch 12/24
45	 31.75
08	
46	 32

Code	Front port
0	 Standard
1	

Code	Rear port
0	 Standard
1	

¹⁾ Nur verfügbar mit Endanschluss
 Only possible with rear port
 Possible seulement avec orifice arrière
 Possible solo con connessioni Posteriori

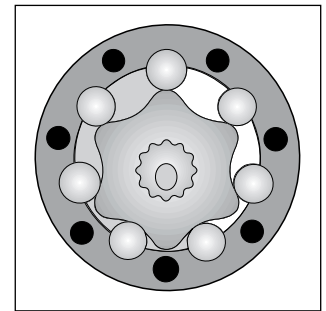
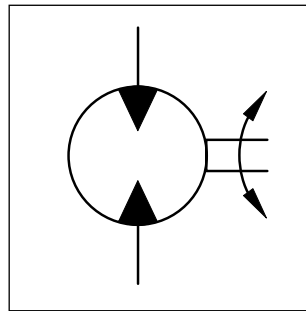
4) Codes 26, 41, 47
 Abtriebswelle ø 25 mm Max. Moment cont./int. 450/550 Nm
 Coupling shaft ø 1 inch Max. torque cont./int. 450/550 Nm
 Arbre 6B SAE Couple maxi cont./int. 450/550 Nm
 Albero Coppia max cont./int. 450/550 Nm

5) ≤TF0280

Option Codes

Option Code	Description	Series	TE/TJ	TF	TL	TG	TH	TK
AAAA	black paint		x	x	x	x	x	x
AAAB	standard (no paint)		x	x	x	x	x	x
AAAH	FPM seals (no paint)		x	x		x	x	x
AABP	castle nut (no paint)		x	x		x	x	x
AAFX	shuttle valve			x		x	x	
BBBF	internal relief valve 200bar			x		x	x	
BBBJ	internal relief valve 100bar			x		x	x	
BBBM	internal relief valve 70bar			x		x	x	
BBBN	internal relief valve 140bar			x		x	x	
BBCG	internal relief valve 170bar			x		x	x	
HAAF	external relief valve 100bar (M6)			x		x		
HAAP	external relief valve 100bar (M8)		x	x		x	x	
HAAH	external relief valve 140bar (M6)			x		x		
HAAU	external relief valve 140bar (M8)		x	x		x	x	
HAAK	external relief valve 170bar (M6)			x		x		
HAAX	external relief valve 170bar (M8)			x		x	x	
HAAM	external relief valve 200bar (M6)			x		x		
HABA	external relief valve 200bar (M8)			x		x	x	
FSAB	Speedsensor		X	x		x		
FSA A	Speedsensor + black paint		x	x		x		
FSA N	Int Short Speed Sensor, 1500 psi Int Bidirectional Relief, No paint			x		x		

Drehzahl Speed Vitesse de rotation Velocità di rotazione	max. 750 rev/min
Schluckstrom Oil flow Débit d'huile Portata	max. 100 l/min
Eingangsdruck Supply pressure Pression entrée Pressione in entrata	max. 300 bar
Torque Couple Coppia	max. 920 Nm
Seitenlast Side load Charges latérales Carico radiale	max. 16.000 N See page 32



Motor series TF	Geom. Schluckvolumen Geometric displacement Cylindrée Cilindrata	Max. Drehzahl Max. speed Velocità di rotazione maxi	Max. Schluckstrom Max. oil flow Débit d'huile maxi Portata max	Max. Druckdifferenz ** Chute de pression maxi ** Caduta di pressione max **	Max. Eingangsdruck Max. supply pressure Pression maxi entrée Pressione max in entrata	Max. Drehmoment Max. torque Couple maxi Coppia max	Max. Leistungabgabe Max. performance Puissance de sortie maxi Potenza meccanica max	Min. Anlaufmoment Min. starting torque Couple min. fourni au démarrage Coppia min. di spunto
	[cm ³ /U] [cm ³ /rev]	cont / int* [U/min] [rev/min]	cont / int* [l/min]	cont / int* [bar]	max [bar]	cont / int* [Nm]	cont / int* [KW]	cont / int* [Nm]
TF 80	81	550/730	45/60	210/280	300	220/295	22	172/236
TF 100	100	600/750	60/75	160/240	300	200/320	25	168/252
TF 130	128	470/580	60/75	140/210	300	230/360	22	192/280
TF 140	141	370/530	60/75	140/210	300	250/390	22	197/308
TF 170	169	355/440	60/75	140/210	300	320/490	23	264/388
TF 195	197	300/380	60/75	140/210	300	365/560	22	304/448
TF 240	238	320/420	75/100	140/210	300	430/670	28	368/548
TF 280	280	270/350	75/100	140/210	300	550/800	28	440/672
TF 360	364	200/260	75/100	130/190	300	590/910	24	517/779
TF 405	405	170/230	75/100	130/175	300	660/920	22	575/789
TF 475	477	150/200	75/100	115/140	300	680/850	17	603/740

*int. =

Intermittierende Werte maximal: 10% von jeder Betriebsminute.

Intermittent operation rating applies to 10% of every minute.

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

Servizio intermittente: 10% max di ogni minuto di utilizzazione.

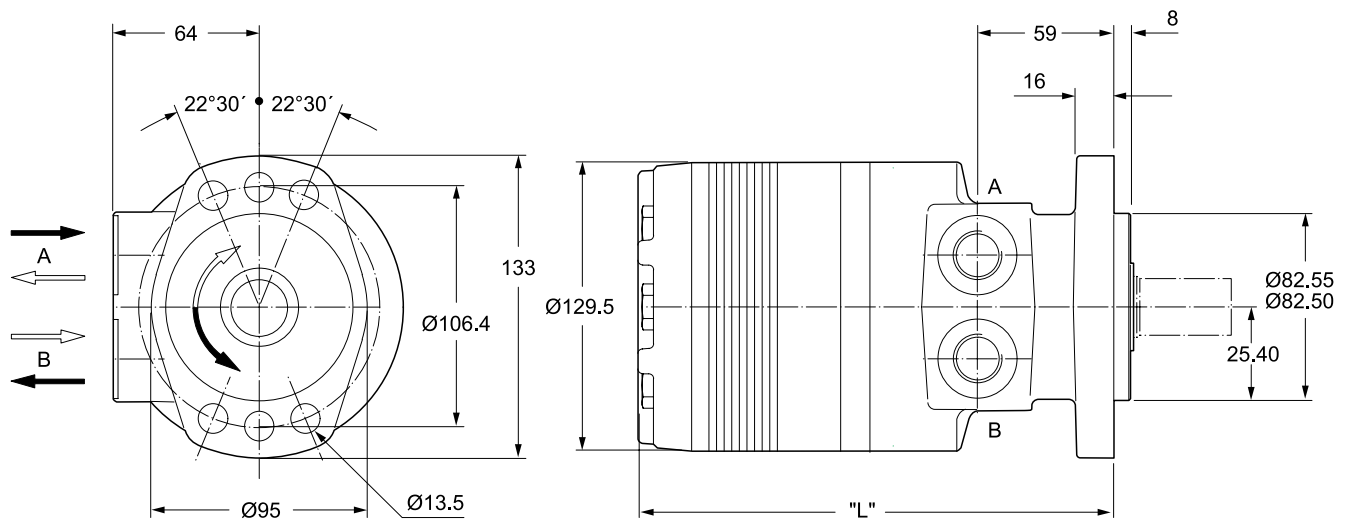
** Druckdifferenz Δp zwischen Ein- und Ausgang

** Pressure difference is Δp between input and output

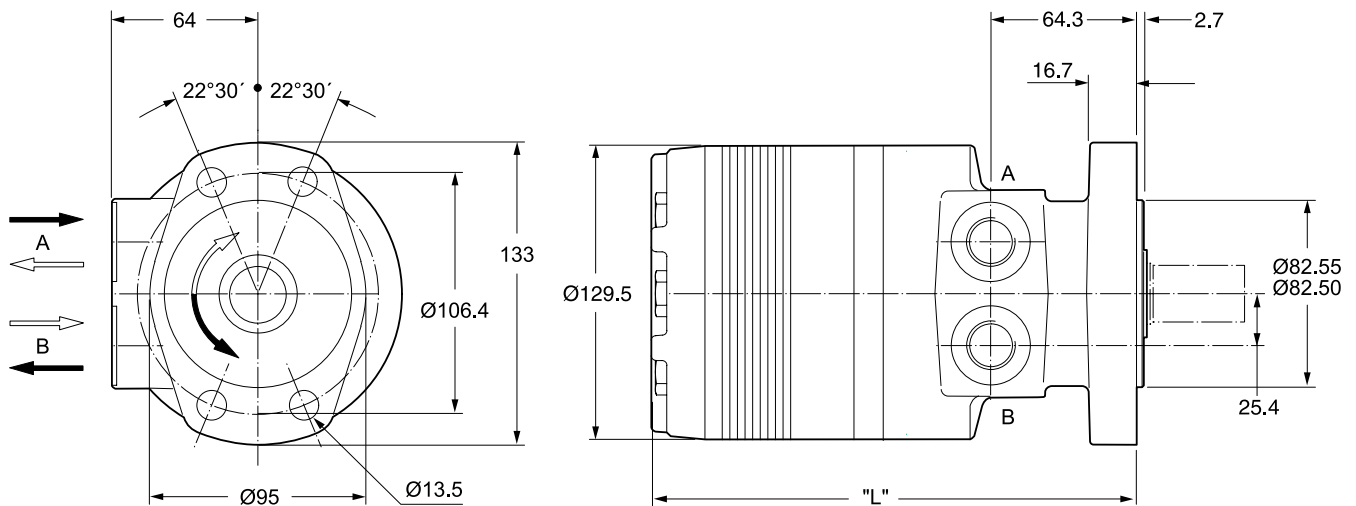
** La différence de pression est Δp entre l'entrée et la sortie

** La differenza di pressione corrisponde al Δp tra ingresso e uscita

Code E



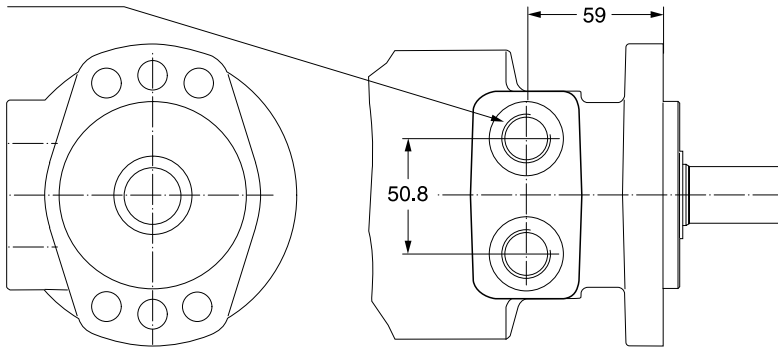
Code M



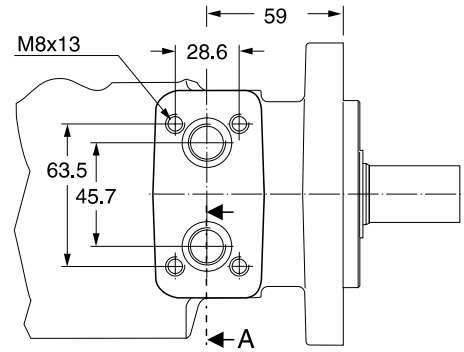
Gewicht / Weight	TF80	TF100	TF130	TF140	TF170	TF195	TF240	TF280	TF360	TF405	TF475
Poids / Peso [kg]	13.6	13.7	13.9	14.0	14.2	14.7	15.0	15.5	16.0	16.5	17.5
Code E "L" [mm]	186	186	189	191	194	197	202	207	215	220	229
Code M "L" [mm]	191	191	194	196	199	202	208	212	220	225	234

Code W

G1/2 x 15

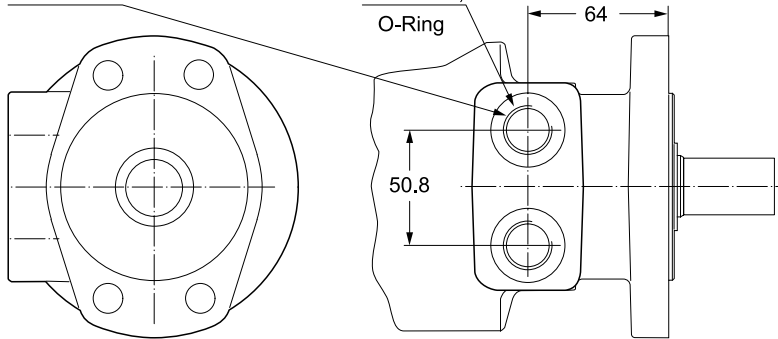


Code N



Code W

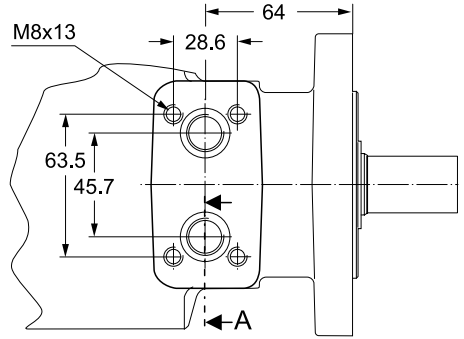
G1/2 x 15



Code V

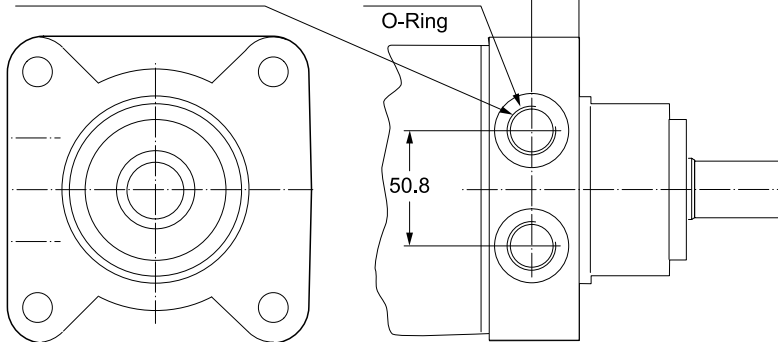
7/8-14UNF,
O-Ring

Code N



Code W

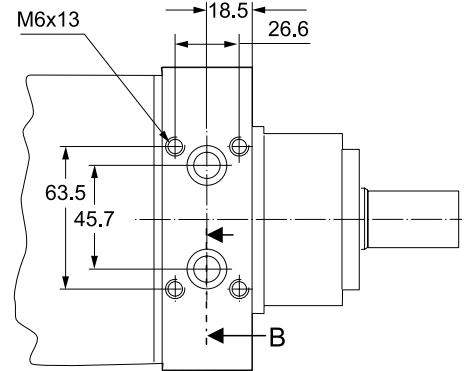
G1/2 x 15



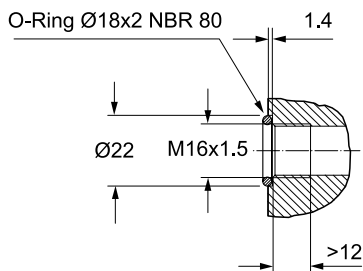
Code V

7/8-14UNF,
O-Ring

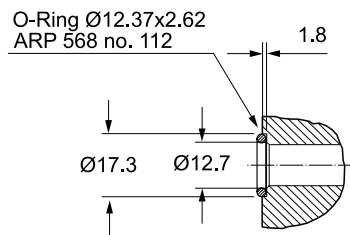
Code K



Section A



Section B



Zum Motor mit Universalanschluss werden 2 O-Ringe geliefert.

Motor with manifold mount is supplied with 2 O-rings.

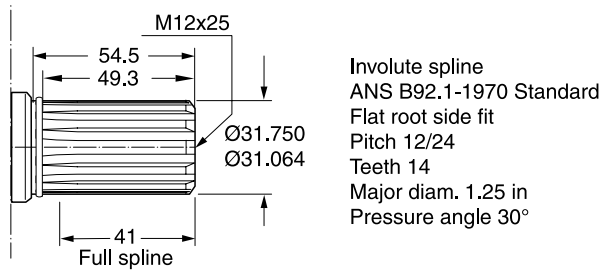
Deux joints toriques sont livrés avec les moteurs au plan de raccordement universel.

Il blocchetto connessioni è corredato da 2 OR.

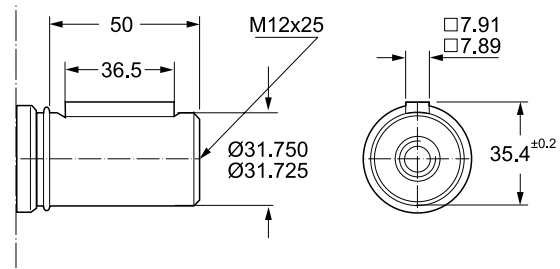
Coupling Shafts

**Torqmotor
Series TF**

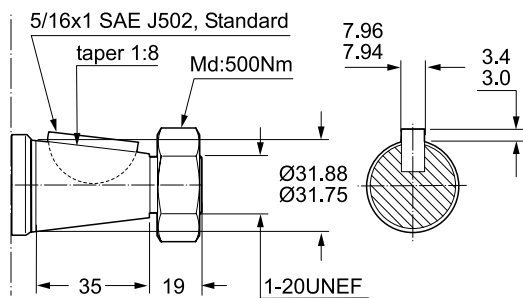
Code 44



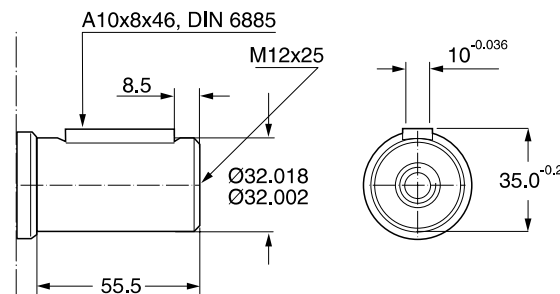
Code 45



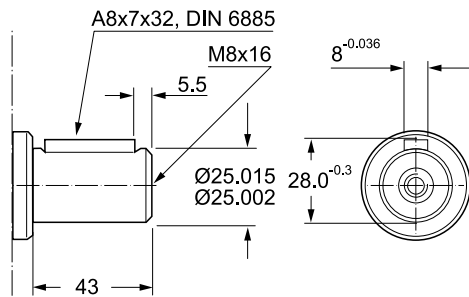
Code 08



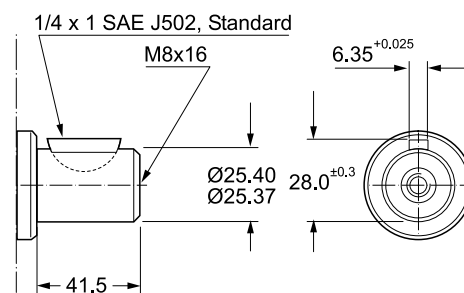
Code 46



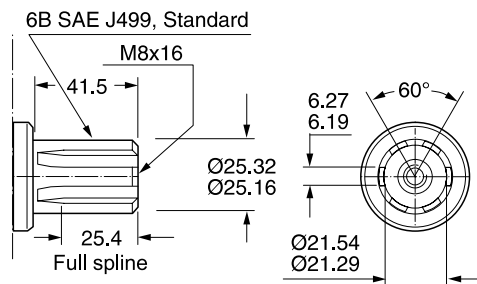
Code 26



Code 47



Code 41



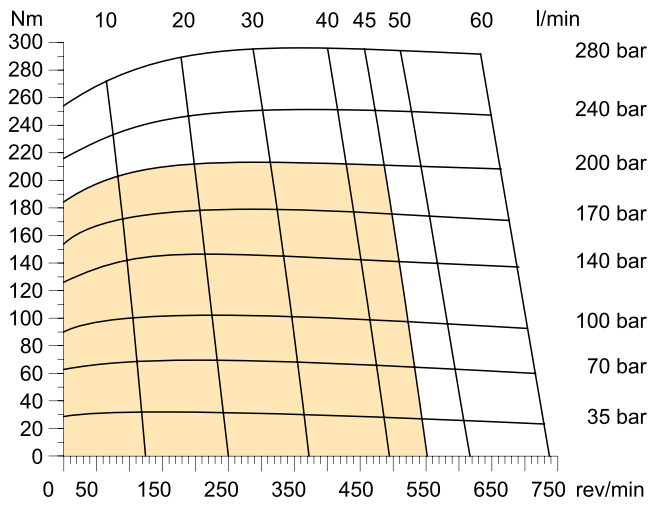
Codes 26, 41, 47

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.	
Albero		Coppia max cont./int.	

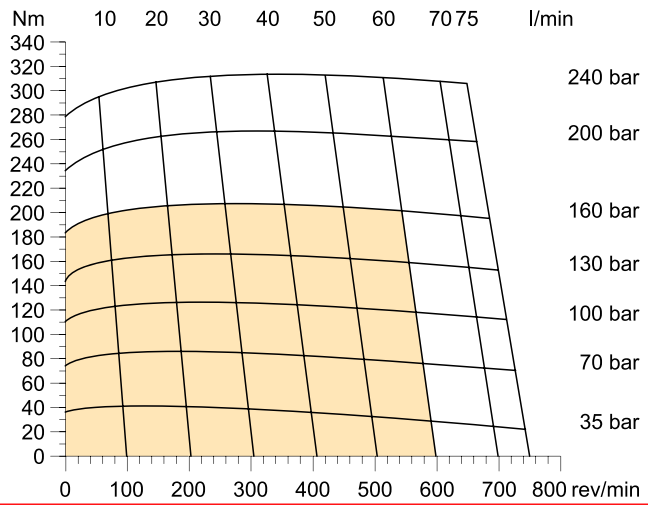
Diagrams

**Torqmotor
Series TF**

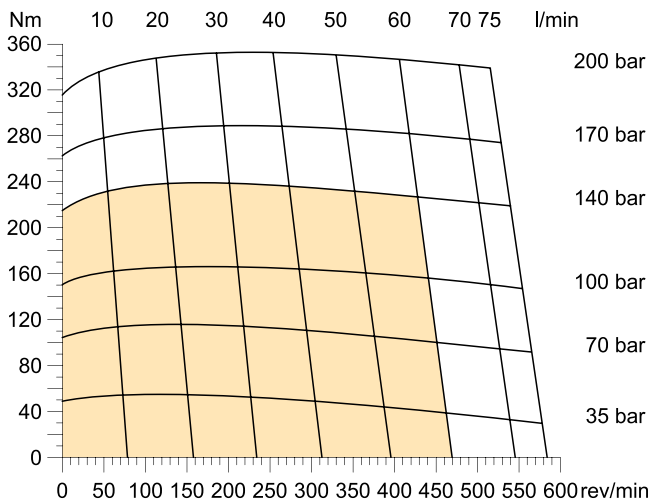
TF 80



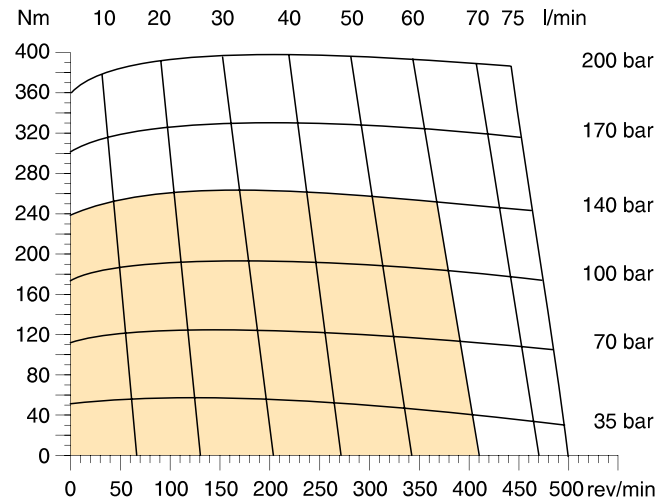
TF 100



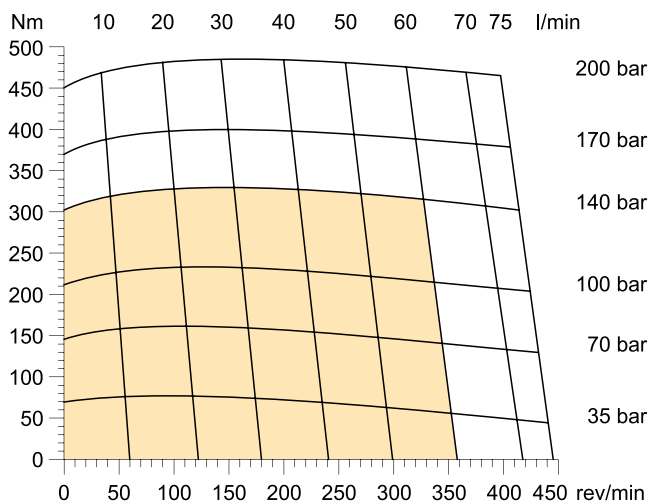
TF 130



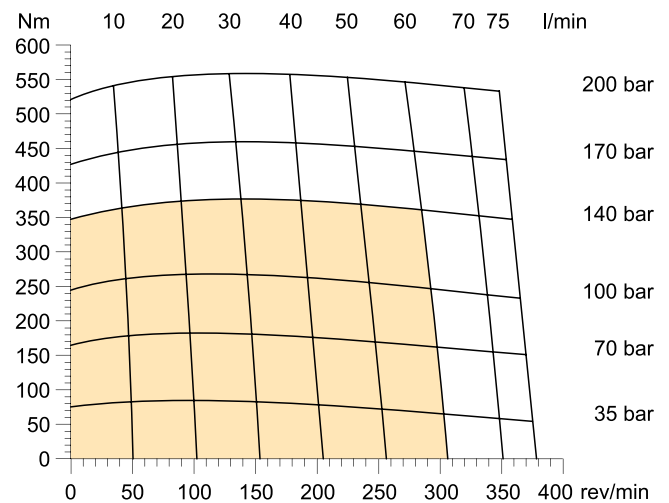
TF 140



TF 170



TF 195



■ Cont. □ Int.

int. =

Intermittierende Werte maximal: 10% von jeder Betriebsminute.
Intermittent operation rating applies to 10% of every minute.
Fonctionnement interm.: 10% max. de chaque minute d'utilisation.
Servizio intermittente: 10% max di ogni minuto di utilizzazione.

Produktübersicht Motor range Serie di motori	Geom. Schluckvolumen Geometric displacement Cylindrée Cilindrata	Max. Drehzahl Max. speed Vitesse de rotation maxi Velocità di rotazione max	Max. Schluckstrom Max. oil flow Portata max	Max. Druckdifferenz ** Max. differential pressure ** Chute de pression maxi ** Caduta di pressione max **	Max. Eingangsdruck Max. supply pressure Pressione max in entrata Pressione max	MMax. Drehmoment Max. torque Coppia max	Max. Leistungsabgabe Max. performance Puissance de sortie maxi Potenza meccanica max
TE/TJ	cm ³ /rev	cont/int* rev/min	cont / int* l / min	cont / int* bar	max bar	cont / int* Nm	cont / int* KW
TE/TJ 36	36	930/1160	35/40	140/190	200	55/71	9
TE/TJ 45	41	810/1024	35/41	140/190	200	70/100	10
TE/TJ 50	50	725/1020	35/50	140/190	200	90/127	13
TE/TJ 65	66	705/940	45/60	140/190	200	125/176	15
TE/TJ 80	82	560/750	45/60	140/190	200	160/220	17
TE/TJ 100	98	470/630	45/60	140/190	200	190/264	17
TE/TJ 130	130	350/470	45/60	140/1960	200	255/352	17
TE/TJ 165	163	280/375	45/60	140/190	200	310/436	17
TE/TJ 195	196	235/315	45/60	140/190	200	390/528	17
TE/TJ 230	228	265/330	60/75	120/165	200	380/514	18
TE/TJ 260	261	230/290	60/75	110/155	200	400/550	17
TE/TJ 295	293	200/255	60/75	100/145	200	428/582	16
TE/TJ 330	326	185/235	60/75	100/135	200	443/600	15
TE/TJ 365	370	150/200	60/75	95/125	200	467/648	14
TE/TJ 390	392	152/190	60/75	85/120	200	445/628	13

Radiale Wellenbelastung
Side loads
Charges latérales
Carico radiale
TE 7.000 N
TJ 14.000 N

TF	cm ³ /rev	cont/int* rev/min	cont / int* l / min	cont / int* bar	max bar	cont / int* Nm	cont / int* KW
TF 80	81	550/730	45/60	210/280	300	220/295	22
TF 100	100	600/750	60/75	160/240	300	200/320	25
TF 130	128	470/580	60/75	140/210	300	230/360	22
TF 140	141	370/530	60/75	140/210	300	250/390	22
TF 170	169	355/440	60/75	140/210	300	320/490	23
TF 195	197	300/380	60/75	140/210	300	365/560	22
TF 240	238	320/420	75/100	140/210	300	430/670	28
TF 280	280	270/350	75/100	140/210	300	550/800	28
TF 360	364	200/260	75/100	130/190	300	590/910	24
TF 405	405	170/230	75/100	130/175	300	660/920	22
TF 475	477	150/200	75/100	115/140	300	680/850	17

Radiale Wellenbelastung
Side loads
Charges latérales
Carico radiale
TF 16.000 N

TL	cm ³ /rev	cont/int* rev/min	cont / int* l / min	cont / int* bar	max bar	cont / int* Nm	cont / int* KW
TL 140	140	613	68/95	190/241	300	364/463	30
TL 170	169	512	68/95	190/241	300	449/570	31
TL 195	195	484	68/95	190/241	300	511/648	34
TL 240	238	399	68/95	190/241	300	620/790	34
TL 280	280	335	68/95	190/241	300	730/929	34
TL 310	310	310	68/95	190/241	300	847/1079	36
TL 360	364	255	68/95	172/224	300	890/1163	31

Radiale Wellenbelastung
Side loads
Charges latérales
Carico radiale
TL 16.000 N

*int. =

Intermittierende Werte maximal: 10% von jeder Betriebsminute.

Intermittent operation rating applies to 10% of every minute.

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

Servizio intermittente: 10% max di ogni minuto di utilizzazione.

** Druckdifferenz Δp zwischen Ein- und Ausgang

** Pressure difference is Δp between input and output

** La différence de pression est Δp entre l'entrée et la sortie

** La differenza di pressione corrisponde al Δp tra ingresso e uscita