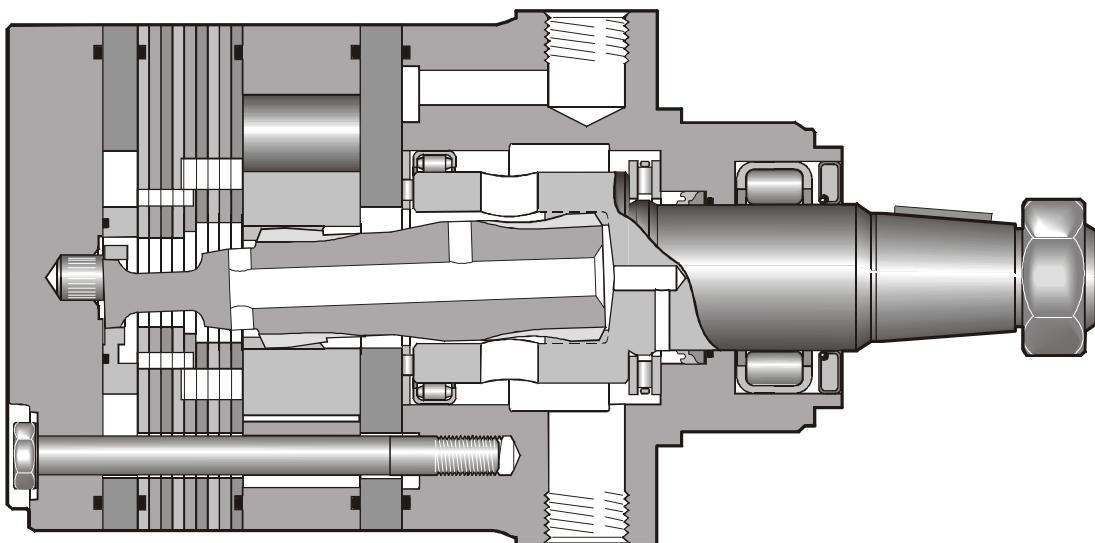
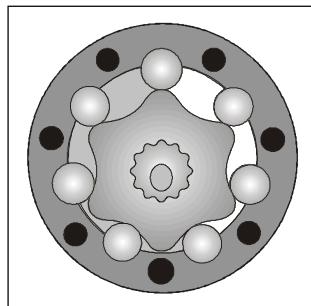
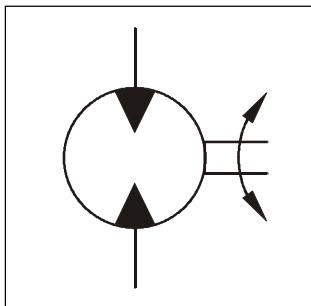


- **Langsamlaufender Gerotor-Motor**
- **Spezielle Orbital-Steuerung**  
Geringe interne Leckage  
Hoher volumetrischer Wirkungsgrad
- **Rollen im Rotorsatz**  
Reduzierte Reibung  
Lange Lebensdauer
- **Patentierte Hochdruckwellendichtung**  
Keine Leckölleitung  
Keine Rückschlagventile
- **Vielzahl von Varianten**  
Großer Einsatzbereich
- **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
- **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
- **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 bre-  
vettata elimina la necessità**  
di una linea di drenaggio esterna  
e di valvole di non ritorno
- **Un'ampia gamma di cilindrate, flange ed alberi**  
consentono scelte adeguate ad  
ogni esigenza costruttiva



Drehzahl Speed Vitesse de rotation Velocità di rotazione	5...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
Drehmoment Torque Couple Coppia	max. 900 Nm
Seitenlast Side load Charges latérales Carico radiale	max. 16.000 N



Motor series TF	cm <sup>3</sup> /U cm <sup>3</sup> /rev cm <sup>3</sup> /tr cm <sup>3</sup> /giro	cont / int U/min rev/min tr/min giri/min	cont / int l/min	cont / int bar	max bar	cont / int Nm	cont / int max. KW	cont / int Nm
<b>TF 80</b>	81	550/730	45/60	200/280	300	215/295	19	172/236
<b>TF 100</b>	100	600/750	60/75	160/240	300	210/315	21	168/252
<b>TF 130</b>	128	470/580	60/75	140/200	300	240/350	19	192/280
<b>TF 140</b>	141	370/530	60/75	140/200	300	250/390	18	197/308
<b>TF 170</b>	169	355/440	60/75	140/200	300	330/485	19	264/388
<b>TF 195</b>	197	300/380	60/75	140/200	300	380/560	19	304/448
<b>TF 240</b>	238	320/420	75/100	140/200	300	460/685	24	368/548
<b>TF 280</b>	280	270/350	75/100	140/200	300	550/800	24	440/640
<b>TF 360</b>	364	200/260	75/100	130/200	300	590/910	24	510/780
<b>TF 405</b>	405	170/230	75/100	130/175	300	650/910	21	575/789
<b>TF 475</b>	477	150/200	75/100	115/140	300	680/850	17	603/740

int. =

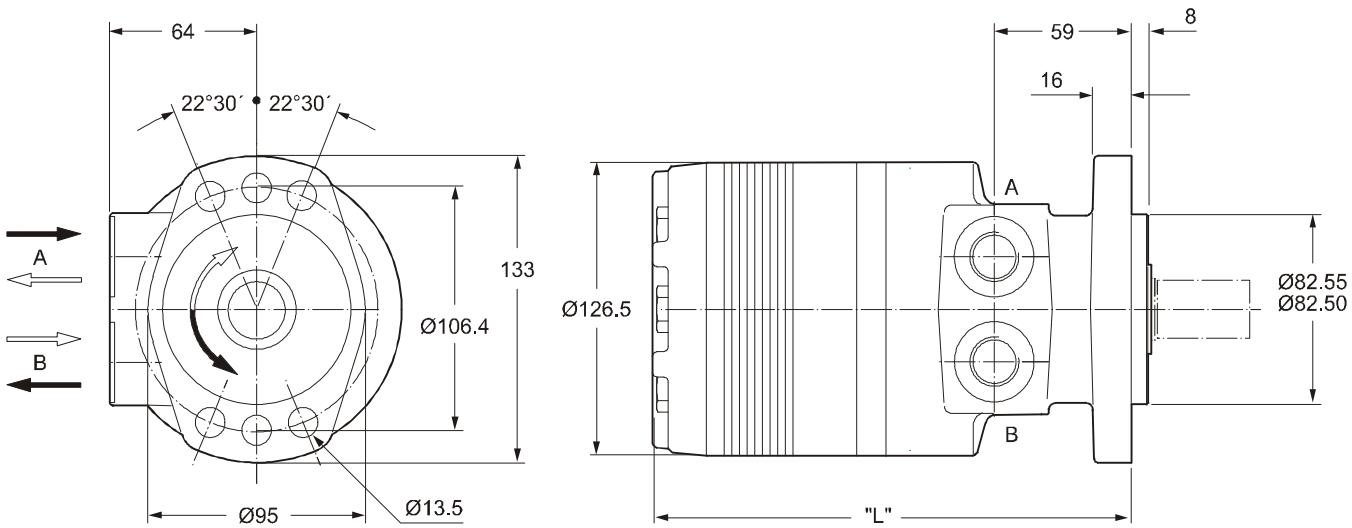
Intermittierende Werte maximal: 10% von jeder Betriebsminute.

Intermittent operation rating applies to 10% of every minute.

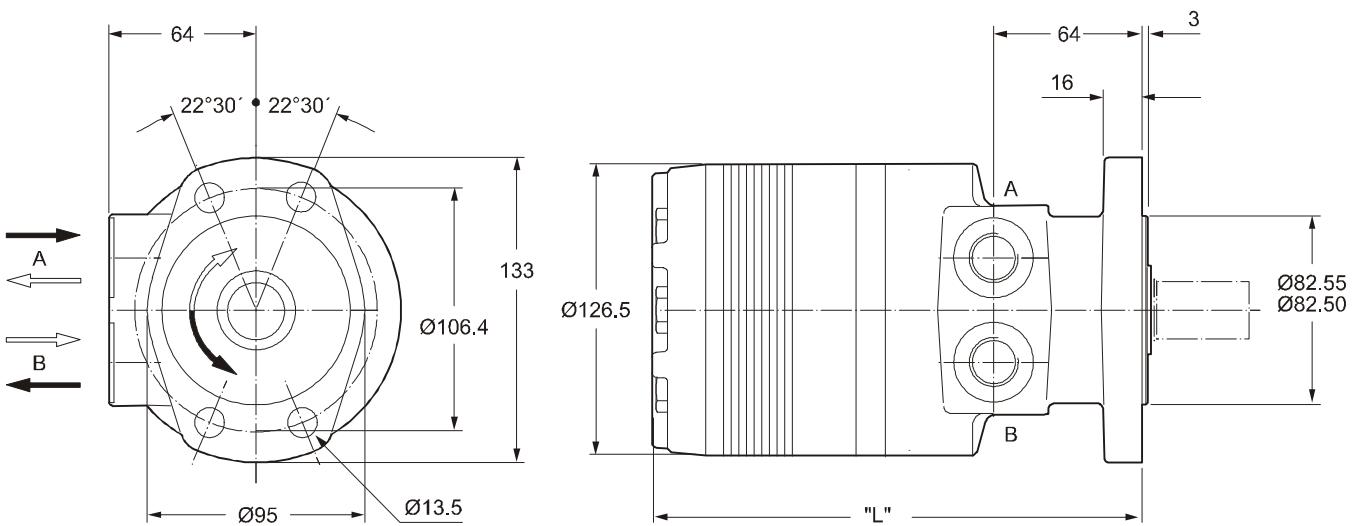
Fonctionnement interm.: 10% max. de chaque minute d'utilisation.

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

**Code E**

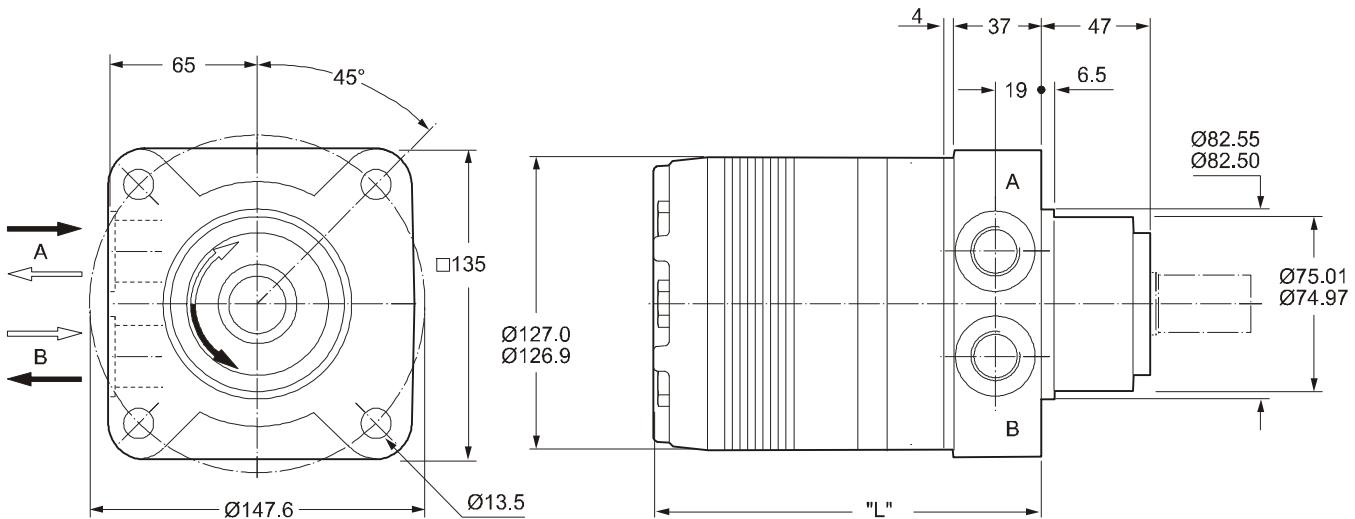


**Code M**

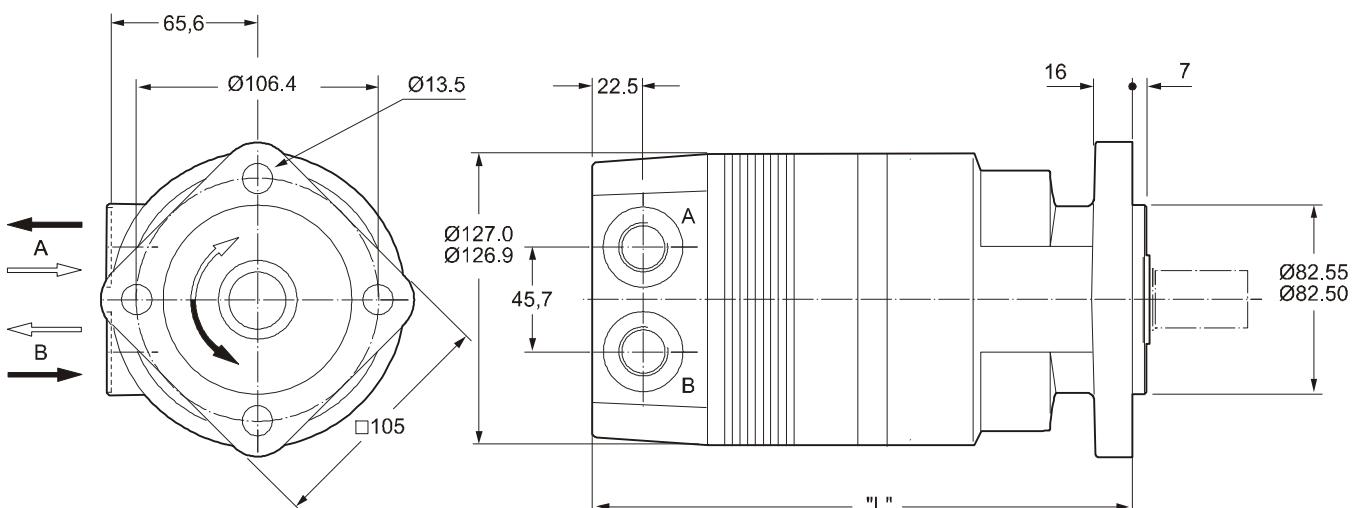


Gewicht / Weight	TF80	TF100	TF130	TF140	TF170	TF195	TF240	TF280	TF360	TF405	TF475
Poids / Peso	kg	13.6	13.7	13.9	14.0	14.2	14.7	15.0	15.5	16.0	16.5
Code E	"L" mm	186	186	189	191	194	197	202	206	215	220
Code M	"L" mm	191	191	194	196	199	202	207	212	220	225

**Code H**



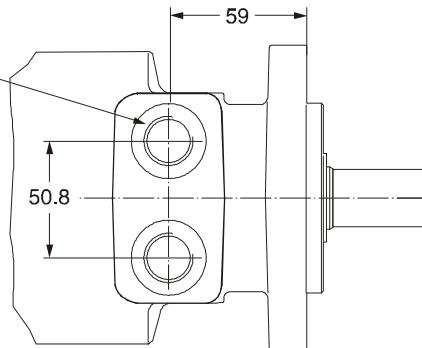
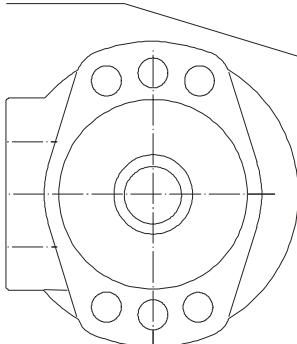
**Code V**



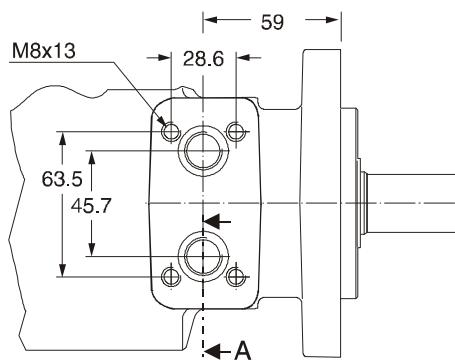
Gewicht / Weight		TF80	TF100	TF130	TF140	TF170	TF195	TF240	TF280	TF360	TF405	TF475
Poids / Peso	kg	14.0	14.0	14.2	14.3	14.6	14.9	15.3	15.6	16.3	17.0	17.5
Code H	"L" mm	146	146	149	151	154	157	162	167	175	180	189
Code V	"L" mm	213	213	216	218	221	224	229	233	242	247	256

**Code W**

G1/2 x 15

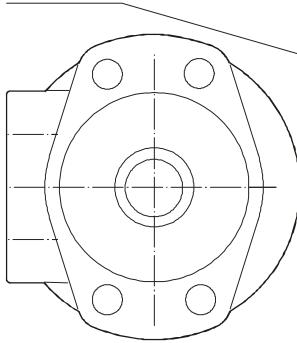


**Code N**



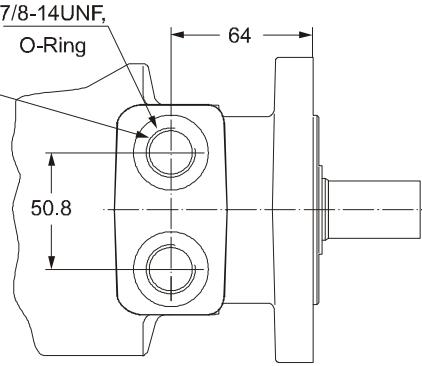
**Code W**

G1/2 x 15

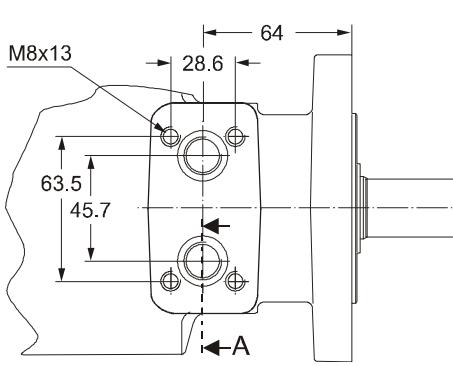


**Code V**

7/8-14UNF,  
O-Ring

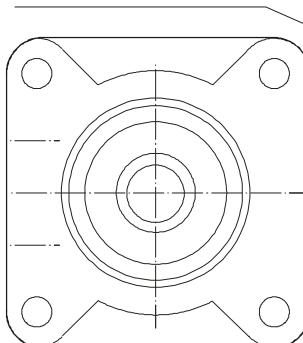


**Code N**



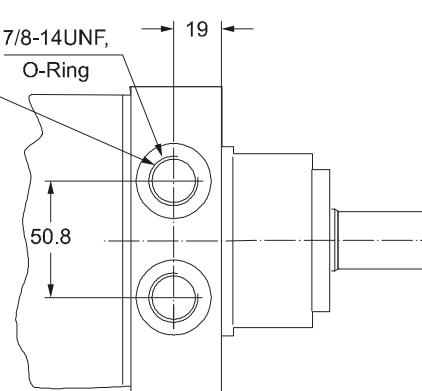
**Code W**

G1/2 x 15

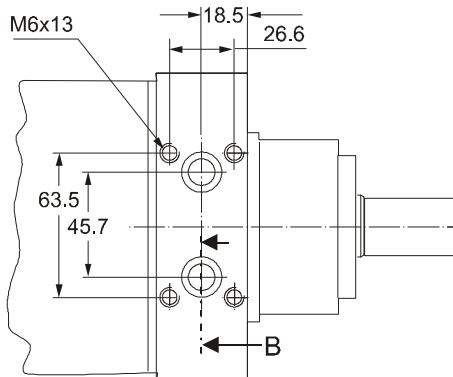


**Code V**

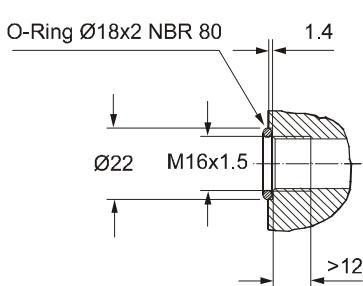
7/8-14UNF,  
O-Ring



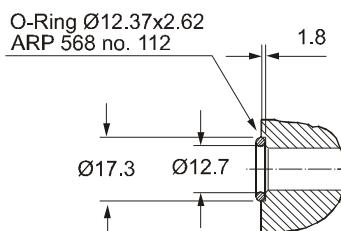
**Code K**



**Section A**



**Section B**

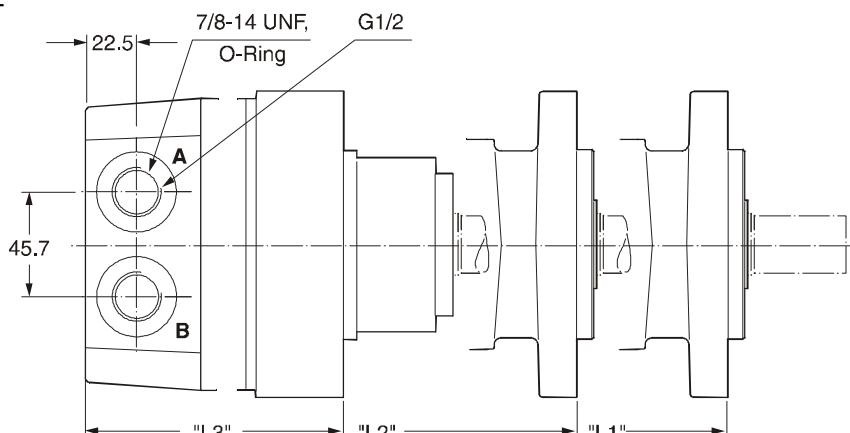
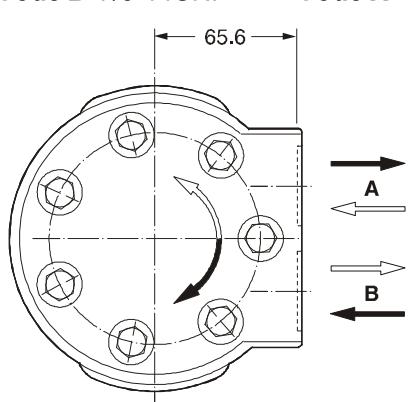
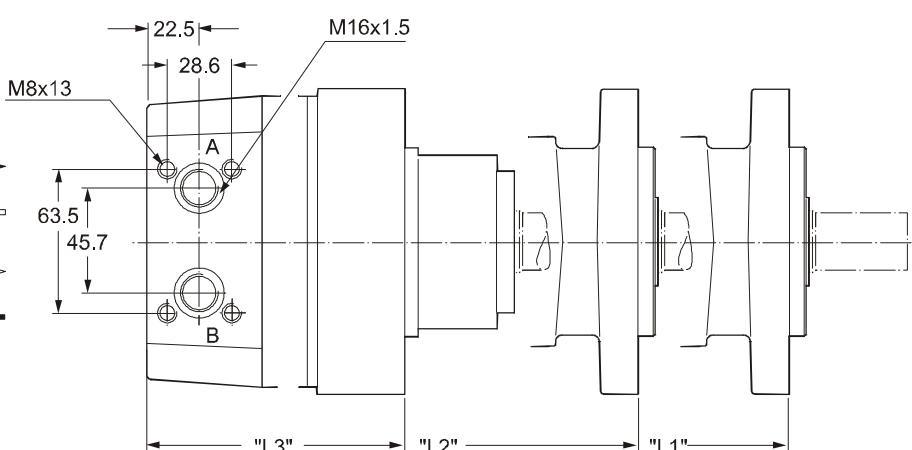
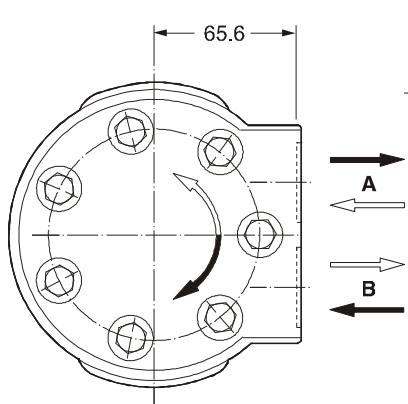
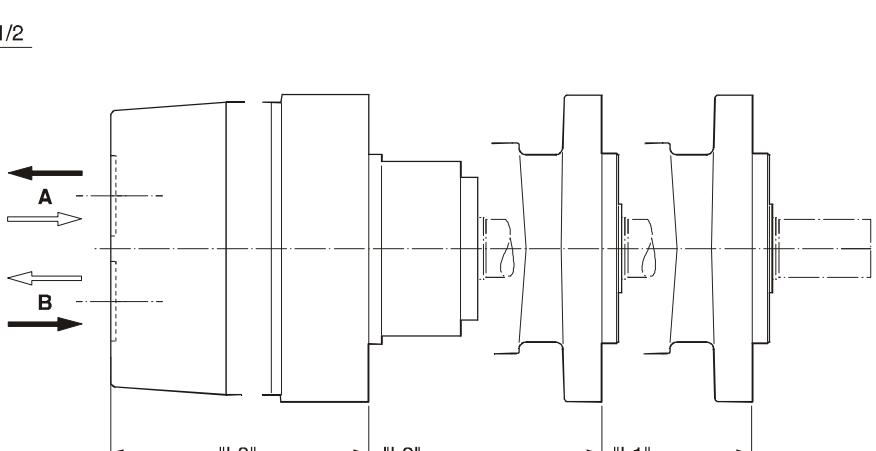
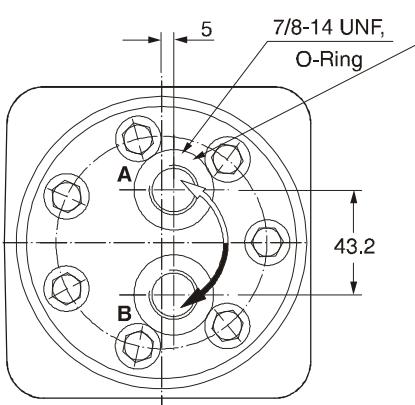


Zum Motor mit Universalanschluß werden 2 O-Ringe geliefert.

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

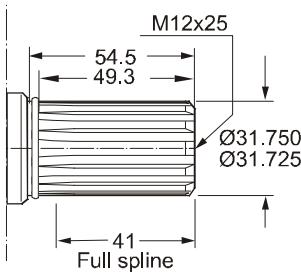
Deux joints toriques sont livrés avec les moteurs au plan de raccordement universel.

Il bloccetto connessioni è corredato da 2 OR.

**Code B 7/8-14UNF****Code X G 1/2****Code L****Code A 7/8-14UNF****Code Y G 1/2**

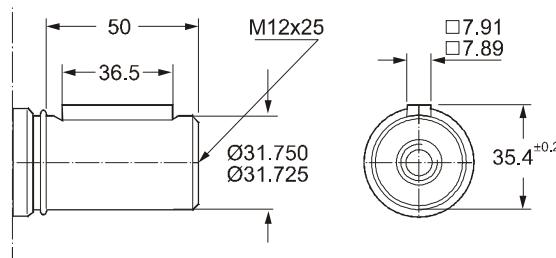
Gewicht / Weight		TF80	TF100	TF130	TF140	TF170	TF195	TF240	TF280	TF360	TF405	TF475
Poids / Peso	kg	15.3	15.4	15.6	15.7	16.0	16.3	16.7	17.0	17.8	18.3	19.0
Code	"L1" mm	211	211	214	216	219	222	227	231	240	245	254
B, X, L,	"L2" mm	216	216	219	221	224	227	232	236	246	250	259
A, Y	"L3" mm	170.2	170.2	173.3	175.1	178.1	181.4	186.0	190.8	200.5	204.5	213.2

**Code 44**

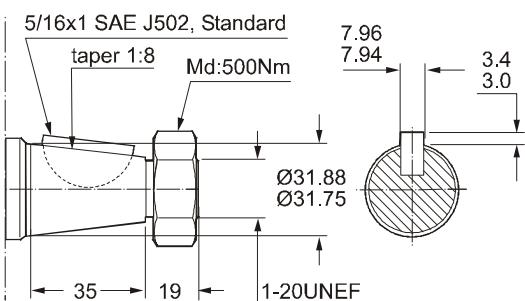


Involute spline  
ANS B92.1-1970 Standard  
Flat root side fit  
Pitch 12/24  
Teeth 14  
Major diam. 1.25 in  
Pressure angle 30°

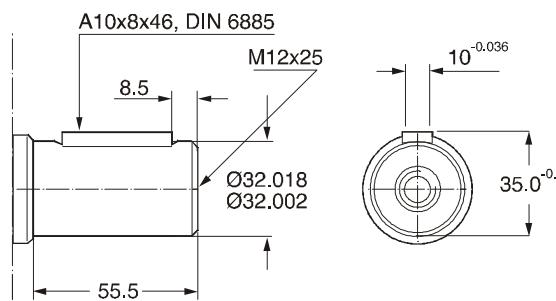
**Code 45**



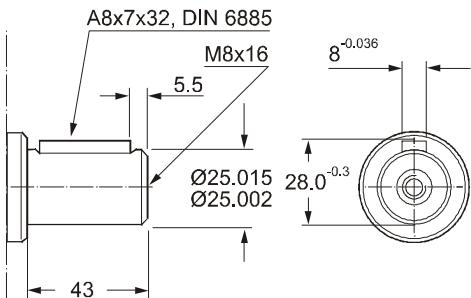
**Code 08**



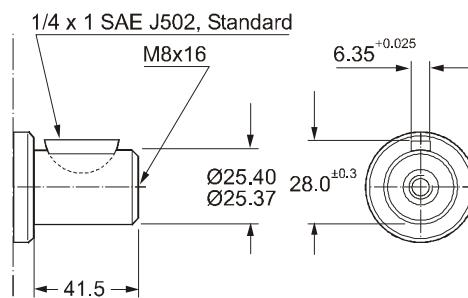
**Code 46**



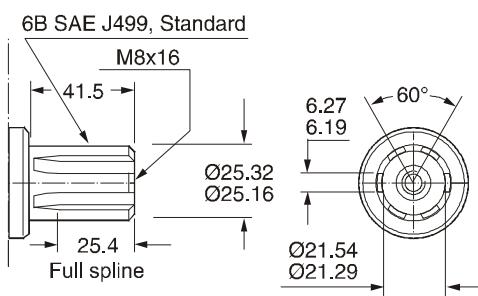
**Code 26**



**Code 47**



**Code 41**

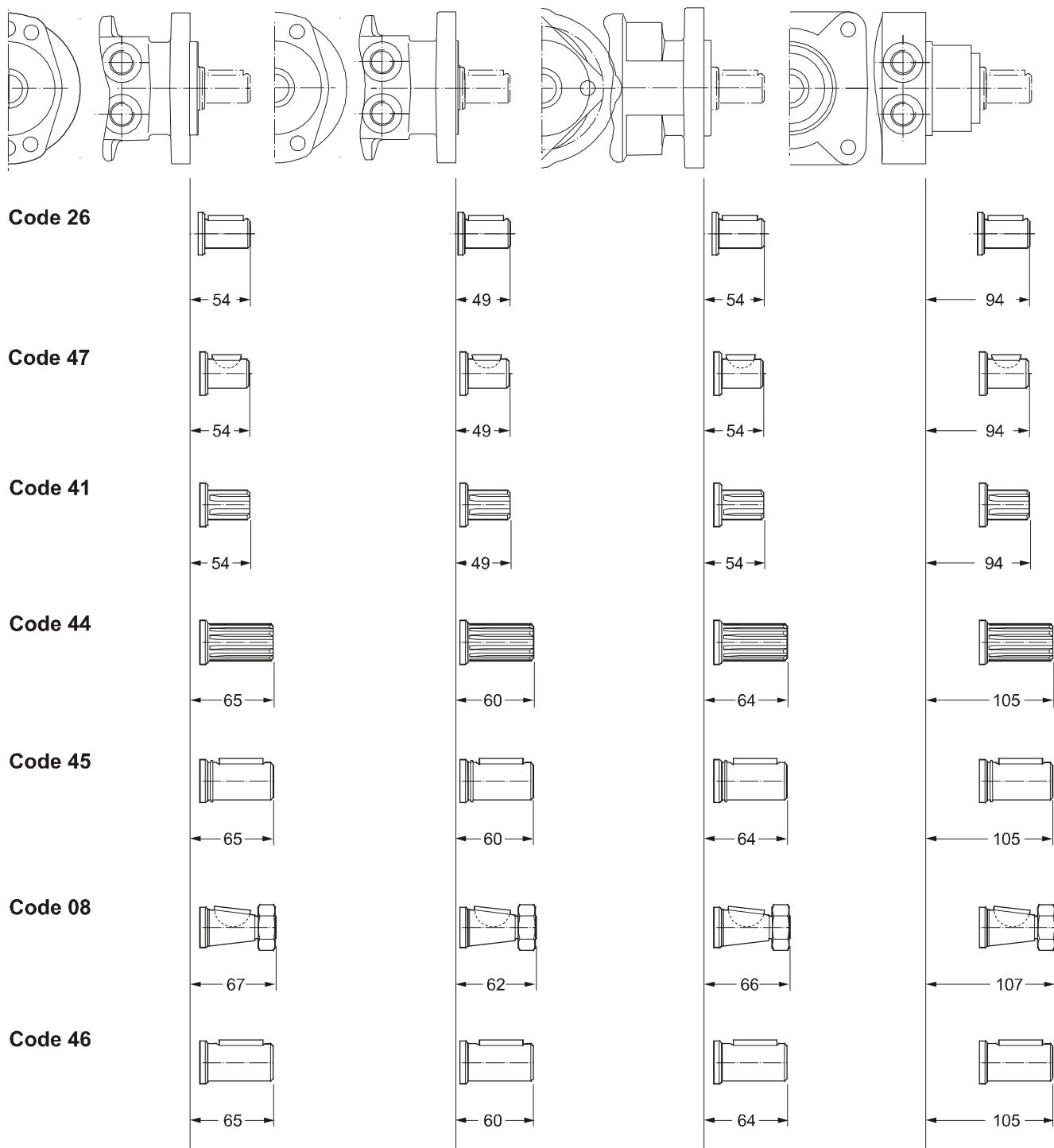


**Codes 26, 41, 47**

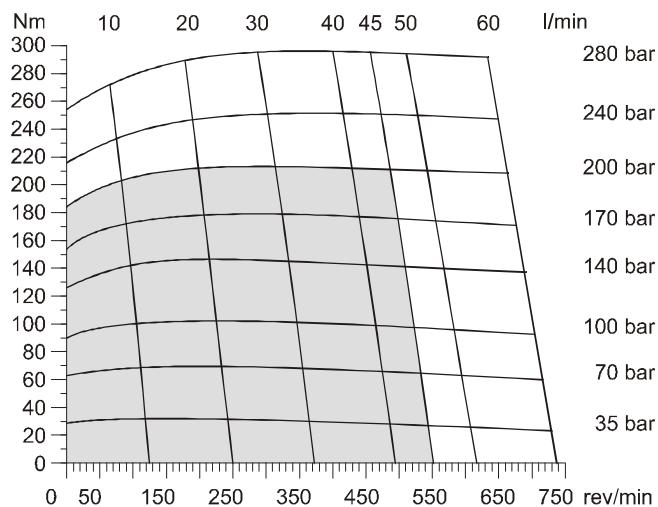
Abtriebswelle Ø 25mm Max. Moment cont./int.  
Coupling shaft Ø 1 inch Max. torque cont./int.  
Arbre 6B SAE Couple maxi cont./int.  
Albero Coppia max cont./int.

}

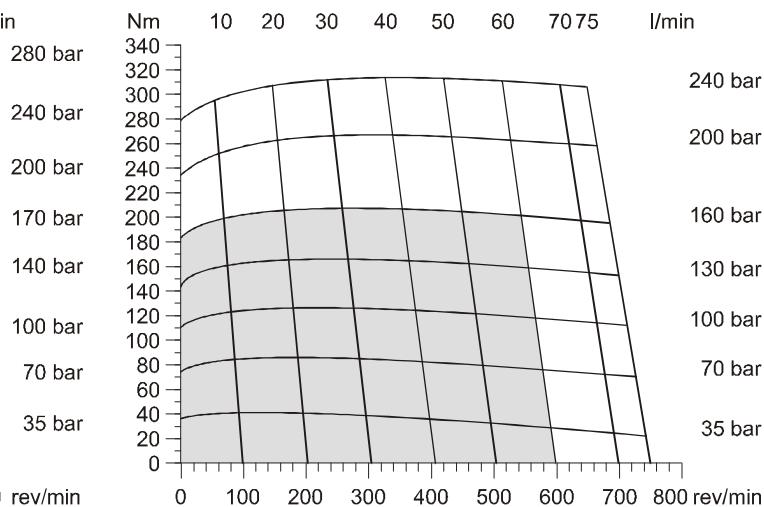
450/550 Nm



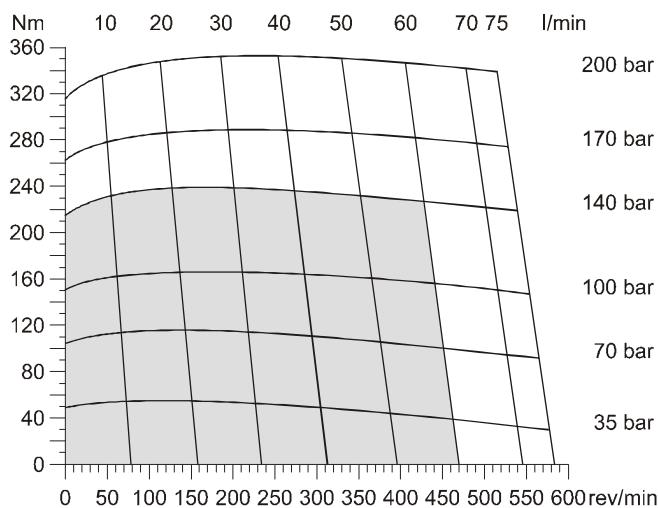
**TF 80**



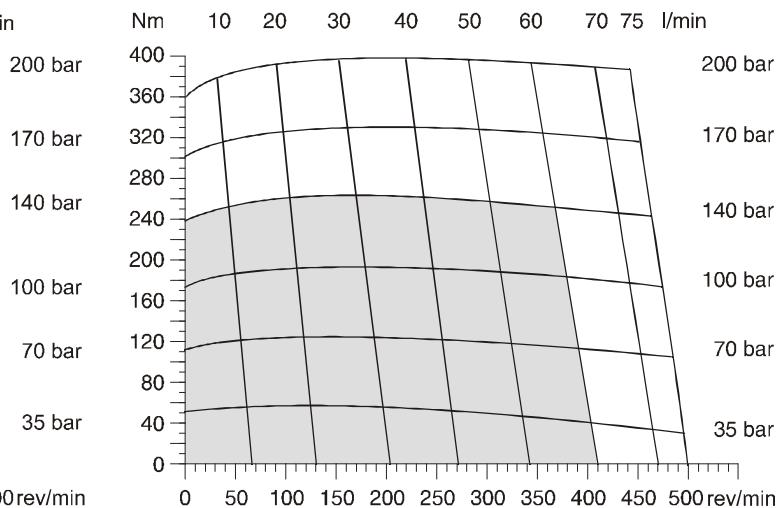
**TF 100**



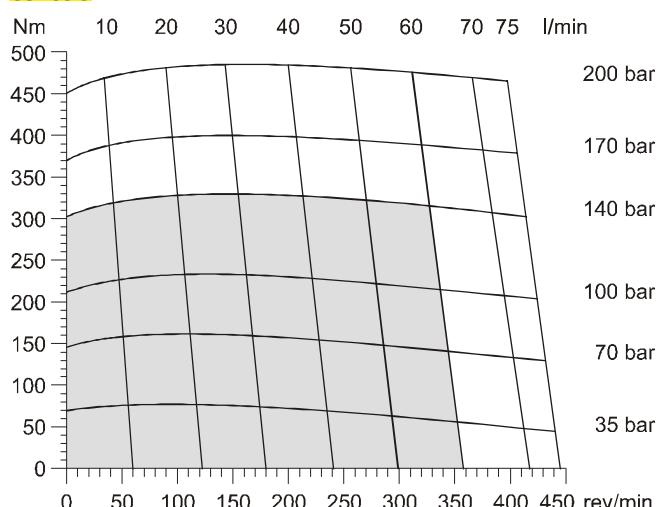
**TF 130**



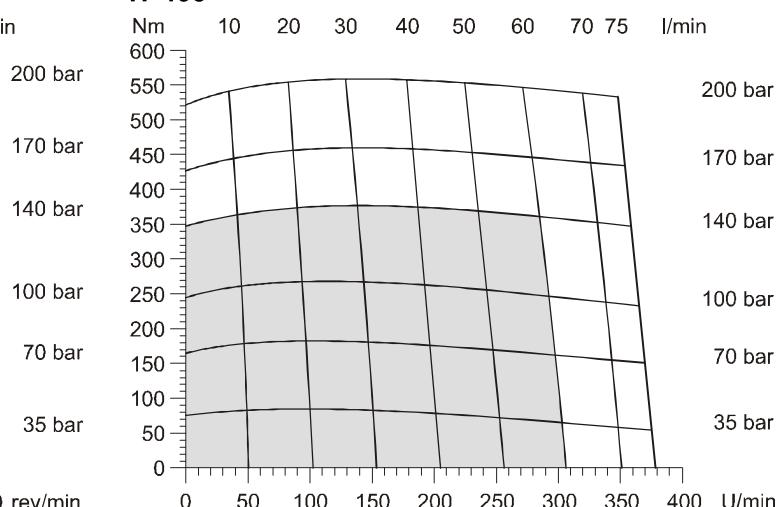
**TF 140**



**TF 170**



**TF 195**



Cont.       Int.

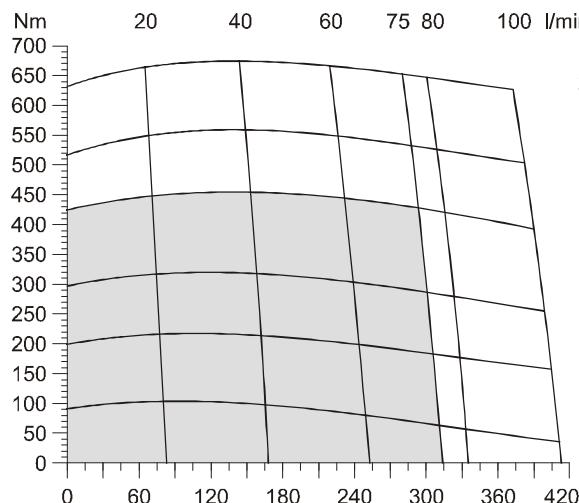
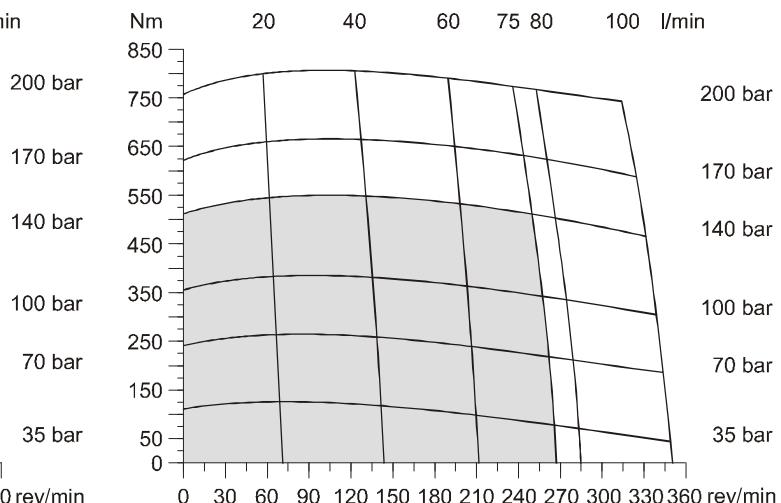
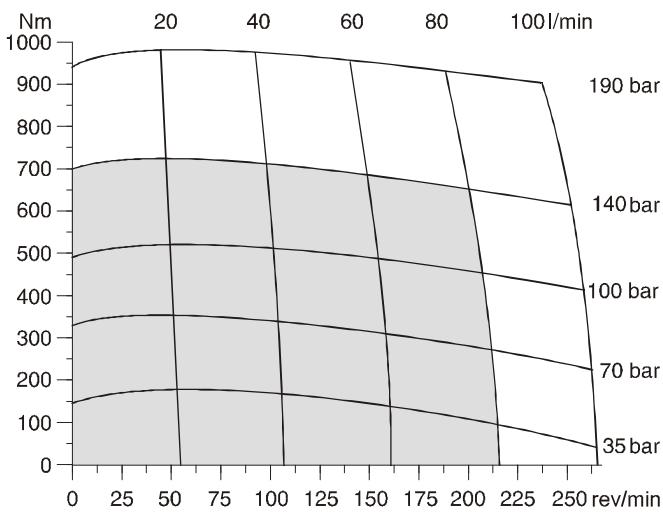
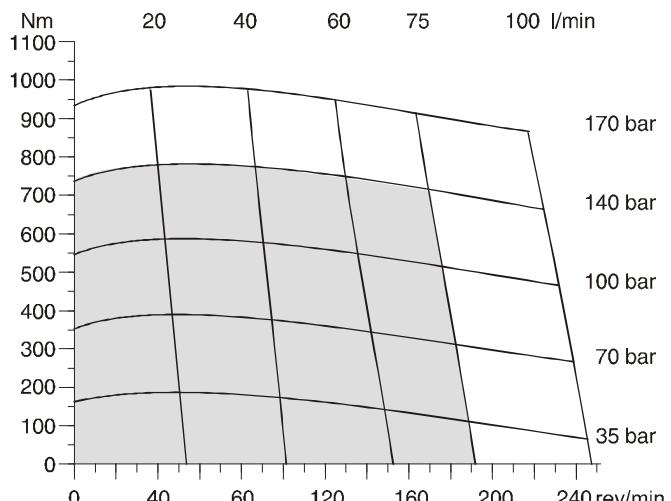
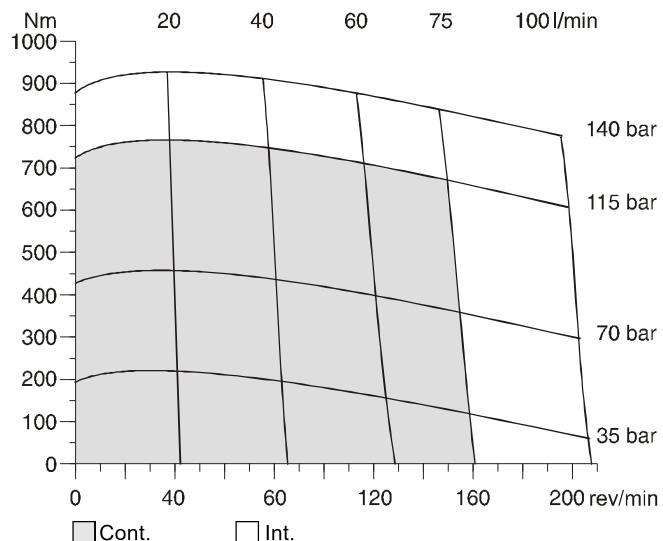
int. = Intermittierende Werte maximal: 10% von jeder Betriebsminute.

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.

**Torqmotor  
Series TF**

**TF 240****TF 280****TF 360****TF 405****TF 475**

int. =

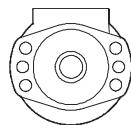
Intermittierende Werte maximal: 10% von jeder Betriebsminute.

Intermittent operation rating applies to 10% of every minute.

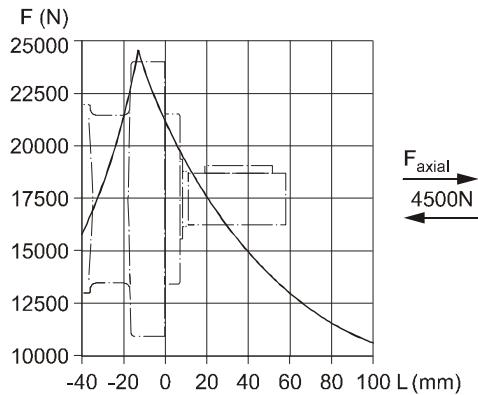
Fonctionnement interm.: 10% max. de chaque minute d'utilisation.

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

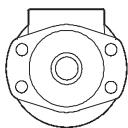
**Code E**



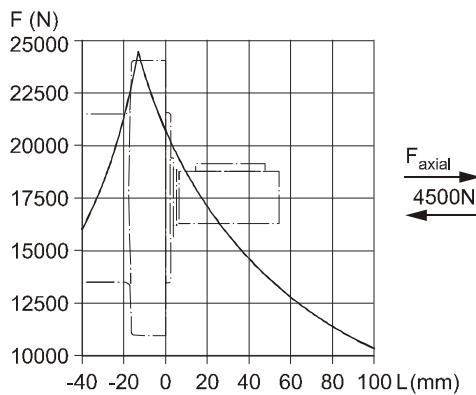
$$L_h = \frac{\left( \frac{670000}{F_R \cdot (1.10 + \frac{L}{88mm})} \right)^{3.3}}{n}$$



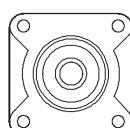
**Code M**



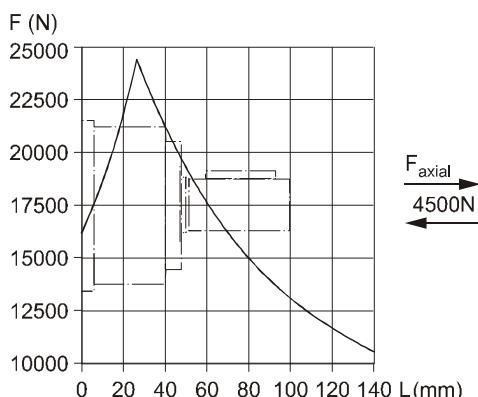
$$L_h = \frac{\left( \frac{670000}{F_R \cdot (1.16 + \frac{L}{88mm})} \right)^{3.3}}{n}$$



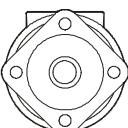
**Code H**



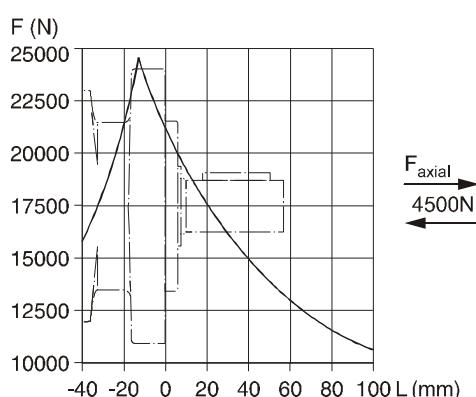
$$L_h = \frac{\left( \frac{670000}{F_R \cdot (0.56 + \frac{L}{88mm})} \right)^{3.3}}{n}$$



**Code V**



$$L_h = \frac{\left( \frac{670000}{F_R \cdot (1.11 + \frac{L}{88mm})} \right)^{3.3}}{n}$$



Die Lebensdauer der Radiallager ( $L_h$  in Stunden) lässt sich nach folgender Formel berechnen. Die Größe  $F_R$  ist durch die mechanische Festigkeit der Abtriebswelle begrenzt (siehe Diagramm). Das Maß "L" ist das Längenmaß vom Gehäuseflansch bis zum Angriffspunkt der Radialkraft  $F_R$ .

Life time ( $L_h$  in hours) of the radial bearings can be calculated with the following formula. The value  $F_R$  is limited by the mechanical strength of the shaft (see diagram). The measurement "L" is the length from the housing flange up to the point of impact of the radial force  $F_R$ .

Vorstehende Formeln gelten für eine B10-Lebensdauer.

The preceding formulas are valid for a B10 duration of life.

Les formules précédentes sont valables pour une durée de vie B10.

Le formule precedenti sono valide per una durata della vita B10.

La durée de vie des roulements radiaux ( $L_h$  en heures) peut être calculée par les formules suivantes. La grandeur  $F_R$  est limitée par les résistances mécaniques de l'arbre de sortie (voir diagramme). La cote "L" est la longueur entre la bride du carter jusqu'à au point d'appui de l'effort radial  $F_R$ .

La durata dei cuscinetti ( $L_h$  in ore) può essere calcolata con la seguente formula. Il valore  $F_R$  è limitato dalla resistenza meccanica dell'albero (vedi diagramma). La quota "L" è la distanza tra la flangia del corpo ed il punto di applicazione della forza radiale  $F_R$ .

$L_h$	=	$h$
$L$	=	mm
$F_R$	=	$F$ (N)
$n$	=	rev/min

