15 Displacements	(2.2 – 24.0 in³/rev)
15 Schluckvolumen	**36 . . . 390 cm³/rev**
15 Cylindrée	
15 Despazamientos	

	Cont	**Int**
Maximum Pressure	(1800 psid)	(2400 psid)
Eingangsdruck	**. . .125 bar**	**. . .165 bar**
Chaute de pression max.		
Presion Maxima		

Maximum Oil Flow	(15 gpm)
Schluckstrom	**. . . 57 lpm**
Débit d'huile	
Caudal Maximo de Aceite	

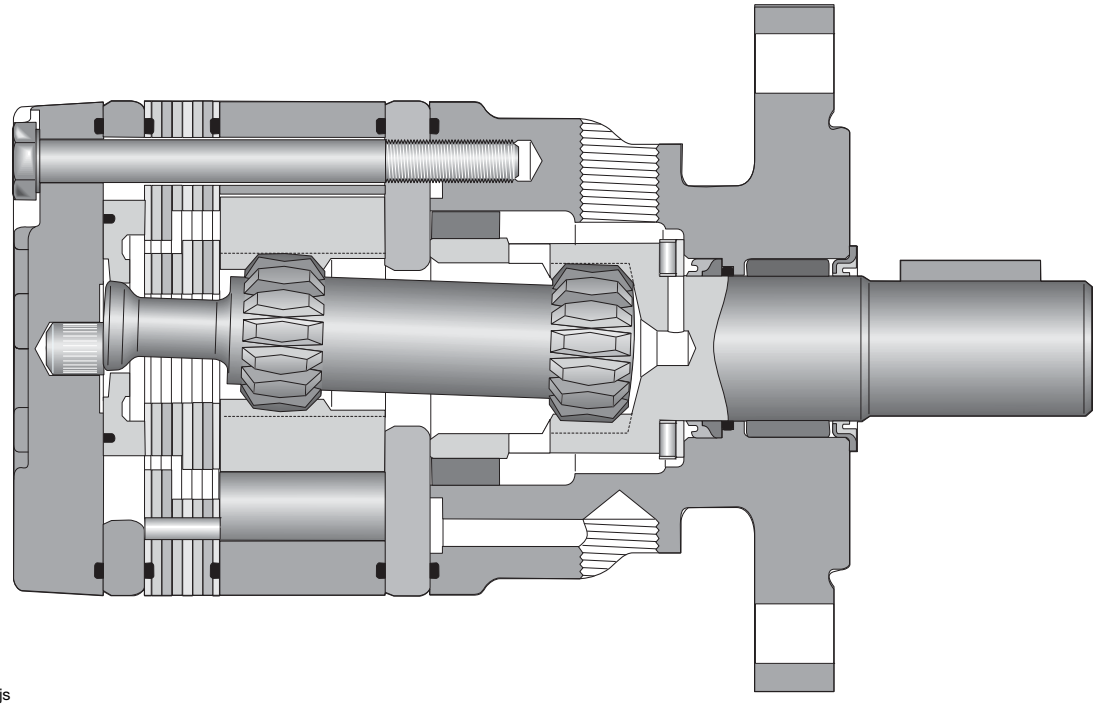
Maximum Speed	(932 rpm)
Drehzahl	**932 rpm**
Vitesse de rotation	
Velocidad Maxima	

	Cont	**Int**
Maximum Torque	(3897 lb in)	(4783 lb in)
Max Drehmoment	**440 Nm**	**540 Nm**
Couple Maxi		
Torque Maximo		

Maximum Side Load at Key	(1100 lb)
Seitenlast	**. . . 4900 N**
Charges latèrales	
Carga Maxima Lateral	

A Light to Medium Duty Low Speed, High Torque Motor

This light to medium duty motor incorporates all the features of heavy duty motors. Design features include a high pressure shaft seal so external drains are never required, roller vane technology for automatic wear compensation, and full flow internal cooling and flushing. This is a very economical motor for most light to medium duty applications.



002 TB.indd, js

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

TB

Series

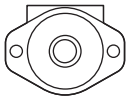
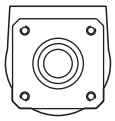
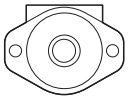
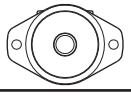
XXXX

Displacement
Schluckvolumen
Cylindrée
Desplazamiento

Code	cm^3/U cm^3/tr $cm^3/giro$	in^3/rev
0036	36 /	2.2
0045	41 /	2.5
0050	49 /	3.0
0065	65 /	4.0
0080	82 /	5.0
0100	98 /	6.0
0130	130 /	8.0
0165	163 /	10.0
0195	195 /	11.9
0230	228 /	13.9
0260	260 /	15.9
0295	293 /	17.9
0330	328 /	20.0
0365	370 /	22.6
0390	392 /	24.0

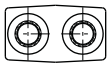
X

Mounting
Gehäuse
Carter
Montaje

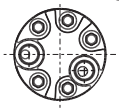
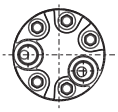
Code	Mounting
A	SAE "A" 2 Bolt 
F	4 Bolt w/3/8-16 UNC 
M	Magneto 
C	SAE "A" 2 Bolt, Long Pilot 
B	SAE "B" 2 Bolt 

X

Ports
Anschluß
Plan de raccordement
Lumbreras

Code	Ports
M	5/16-18 UNC Manifold 
P	1/2-14 NPTF 
S	7/8-14 SAE 
W	G 1/2 BSPP 

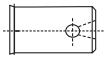
Rear Ports
Endanschluß
Alimentazione Laterale
Orifices arriér

Code	Rear Ports
R	3/4-16 SAE O-ring Axial 
Y	G 1/2 BSPP Axial 

For other available options, see pages 102–103.

XX

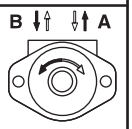
Shaft
Welle
Arbre
Eje

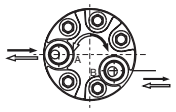
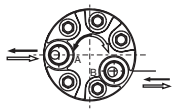
Code	Shaft
09	1" Straight w/0.38" Crosshole 
10	1" Keyed 
11	1" 6B Spline 
13	Long 1" Keyed 
21	1" Keyed; Corrosion Resistant 
25	1" Tapered 
26	25mm Keyed w/ 8mm Key 
28	7/8" 13 Tooth Spline 
59*	7/8" 13 Tooth Spline SAE 

* Conforms to SAE B recommended length

0

Rotation
Drehrichtung
Direction de rotation
Rotacion

Code	Rotation
0	Standard 
1	Reverse Timed Manifold 

Code	Rear Port Rotation
0	Standard 
1	Reverse Timed Manifold 

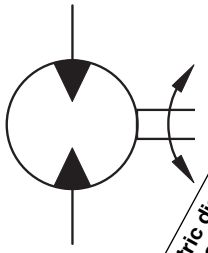
Rotation viewed from shaft end.

XXXX

Options
Opciones

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAAF	Castle Nut, Black Paint
AABP	Castle Nut, No Paint
AAAG	Fluorocarbon Seals, Black Paint
AAAH	Fluorocarbon Seals, No Paint
AAAJ	High Temperature Commutator Seal, Black Paint
AAFG	High Temperature Commutator Seal, No Paint
AABJ*	Free Running Rotorset, Black Paint
AABK*	Free Running Rotorset, No Paint

*Not applicable to TB0365 or TB0390 displacements



Motor Series TB	Geometric displacement Geom. Schluckvolumen Cylindrée Despazamientos	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 Caudal Maximo de Aceite	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 redinmiento	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** psid	***max*** **bar** psig	***cont / int**** **Nm** lb-in	***max*** **KW** HP	***cont / int**** **Nm** lb-in
TB 0036	**36** 2.2	932	34 9 / 34 9	**125** 1800 / **165** 2400	**190** 2750	**48** 427 / **67** 596	**6.6** 8.8	**44** 385 / **50** 440
TB 0045	**41** 2.5	805	34 9 / 34 9	**125** 1800 / **165** 2400	**190** 2750	**64** 526 / **88** 731	**7.2** 9.7	**39** 341 / **52** 461
TB 0050	**49** 3.0	678	34 9 / 34 9	**125** 1800 / **165** 2400	**190** 2750	**78** 693 / **107** 946	**7.5** 10.1	**36** 319 / **70** 619
TB 0065	**65** 4.0	511	34 9 / 34 9	**125** 1800 / **165** 2400	**190** 2750	**107** 946 / **145** 1284	**7.8** 10.4	**66** 582 / **99** 977
TB 0080	**82** 5.0	409	34 9 / 34 9	**125** 1800 / **165** 2400	**190** 2750	**135** 1193 / **184** 1624	**7.8** 10.5	**92** 816 / **139** 1226
TB 0100	**98** 6.0	454	45 12 / 45 12	**125** 1800 / **165** 2400	**190** 2750	**159** 1411 / **217** 1917	**10.2** 13.8	**119** 1050 / **158** 1400
TB 0130	**130** 8.0	430	45 12 / 57 15	**125** 1800 / **165** 2400	**190** 2750	**220** 1951 / **297** 2632	**13.4** 18.0	**167** 1482 / **229** 2024
TB 0165	**163** 10.0	343	45 12 / 57 15	**125** 1800 / **155** 2250	**190** 2750	**273** 2418 / **346** 3062	**12.4** 16.7	**199** 1760 / **263** 2331
TB 0195	**195** 11.9	287	45 12 / 57 15	**125** 1800 / **145** 2100	**190** 2750	**340** 3011 / **400** 3537	**12.0** 16.1	**270** 2388 / **325** 2872
TB 0230	**228** 13.9	246	45 12 / 57 15	**103** 1500 / **138** 2000	**190** 2750	**316** 2797 / **427** 3782	**11.0** 14.8	**261** 2354 / **353** 3121
TB 0260	**260** 15.9	216	45 12 / 57 15	**100** 1450 / **131** 1900	**190** 2750	**350** 3096 / **465** 4117	**10.5** 14.1	**291** 2573 / **395** 3498
TB 0295	**293** 17.9	191	45 12 / 57 15	**97** 1400 / **125** 1800	**190** 2750	**383** 3391 / **499** 4415	**10.0** 13.4	**308** 2724 / **400** 3544
TB 0330	**328** 20.0	171	45 12 / 57 15	**93** 1350 / **114** 1650	**190** 2750	**413** 3657 / **509** 4505	**9.1** 12.2	**332** 2942 / **406** 3590
TB 0365	**370** 22.6	151	45 12 / 57 15	**86** 1250 / **105** 1525	**190** 2750	**440** 3897 / **540** 4783	**8.7** 11.6	**372** 3296 / **454** 4021
TB 0390	**392** 24.0	143	45 12 / 57 15	**83** 1200 / **100** 1450	**190** 2750	**428** 3792 / **525** 4642	**7.8** 10.5	**339** 3003 / **434** 3845

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 donnees 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 donnees 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.

002 TB.indd, js

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

TB 0036

2.2 cu in / rev

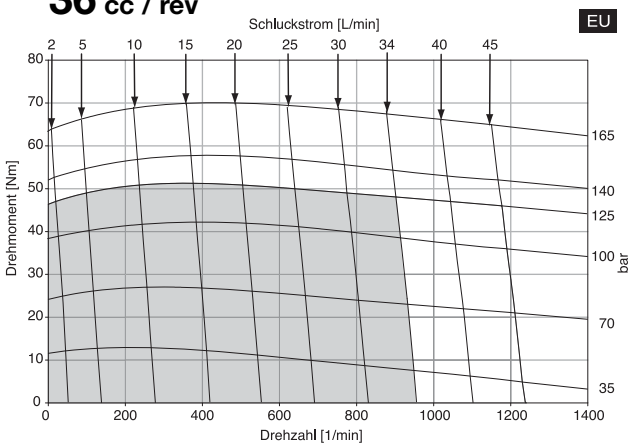
PRESSURE (PSID)

	500	1000	1500	1800	2000	2400
.5	108 **45**	223 **37**	343 **26**	418 **19**	468 **15**	570 **8**
1	114 **97**	234 **88**	357 **77**	431 **70**	481 **66**	581 **57**
2	112 **202**	235 **191**	361 **179**	440 **172**	492 **168**	598 **158**
3	113 **307**	241 **295**	370 **282**	450 **274**	503 **269**	610 **258**
4	109 **411**	241 **398**	373 **384**	455 **376**	509 **370**	620 **358**
5	104 **515**	237 **501**	371 **486**	453 **477**	509 **471**	621 **459**
7	87 **724**	225 **708**	360 **691**	443 **681**	498 **674**	613 **660**
9	71 **932**	208 **915**	344 **896**	427 **884**	483 **876**	598 **860**

Flow (GPM)

TORQUE (LB IN) 427
SPEED (RPM) 884

36 cc / rev



TB 0045

2.5 cu in / rev

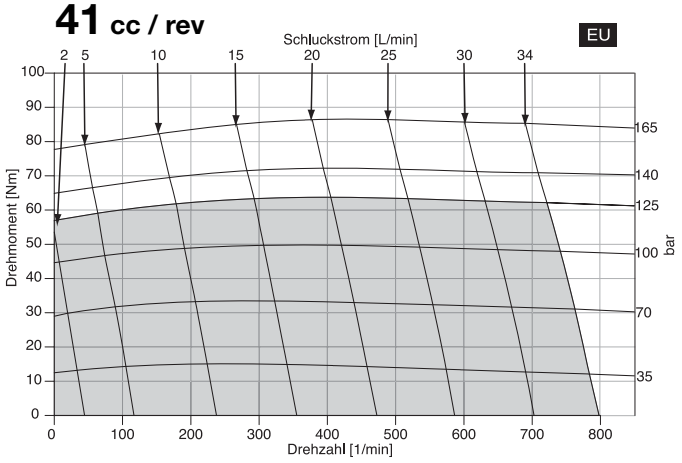
PRESSURE (PSID)

	500	1000	1500	1800	2000	2400
.5	116 **31**	263 **17**				
1	124 **76**	276 **61**	427 **43**	518 **36**	579 **29**	706 **18**
2	134 **167**	294 **149**	453 **131**	547 **121**	609 **113**	723 **97**
3	132 **256**	293 **239**	455 **220**	553 **210**	617 **200**	746 **183**
4	132 **344**	296 **326**	465 **307**	567 **295**	635 **285**	769 **268**
5	128 **433**	294 **414**	465 **393**	569 **380**	639 **370**	779 **352**
7	117 **609**	284 **589**	458 **566**	564 **551**	635 **540**	779 **520**
9	107 **785**	275 **764**	449 **739**	555 **722**	627 **710**	770 **689**

Flow (GPM)

TORQUE (LB IN) 555
SPEED (RPM) 722

41 cc / rev



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TB 0050

3.0 cu in / rev

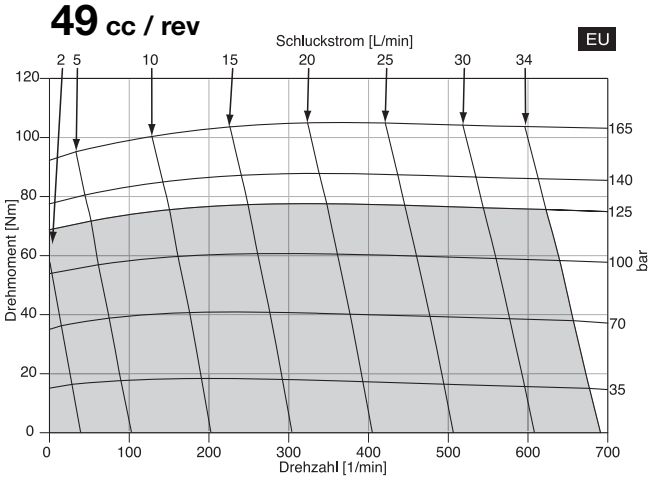
PRESSURE (PSID)

	500	1000	1500	1800	2000	2400
.5	144 **26**	319 **13**				
1	154 **65**	338 **50**	518 **35**	625 **28**	697 **21**	840 **9**
2	163 **141**	360 **127**	555 **110**	671 **102**	746 **94**	875 **80**
3	161 **218**	358 **203**	557 **186**	675 **177**	753 **169**	907 **153**
4	160 **295**	361 **279**	567 **261**	691 **251**	774 **243**	931 **227**
5	155 **371**	358 **355**	566 **337**	693 **326**	777 **317**	946 **301**
7	143 **525**	346 **507**	558 **487**	686 **474**	772 **466**	946 **448**
9	133 **678**	336 **658**	546 **638**	675 **623**	761 **614**	936 **595**

Flow (GPM)

TORQUE (LB IN) 675
SPEED (RPM) 623

49 cc / rev



TB 0065

4.0 cu in / rev

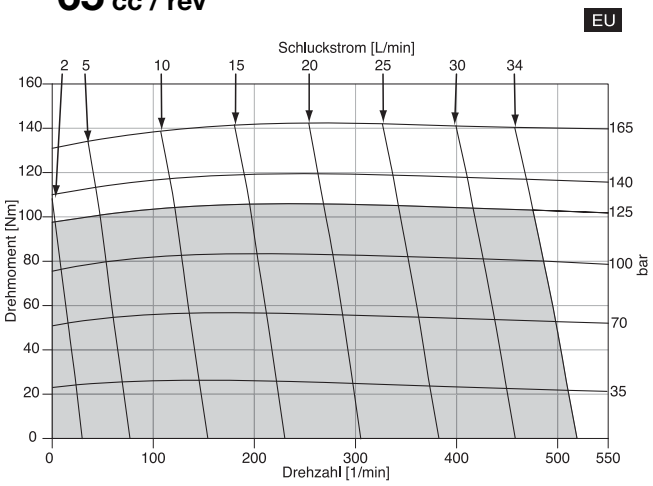
PRESSURE (PSID)

	500	1000	1500	1800	2000	2400
.5	213 **22**	459 **14**	709 **6**			
1	224 **51**	479 **42**	734 **34**	887 **29**	989 **25**	1193 **17**
2	233 **108**	500 **99**	767 **90**	926 **85**	1033 **81**	1228 **71**
3	231 **166**	498 **156**	769 **147**	932 **141**	1039 **136**	1252 **126**
4	229 **224**	501 **214**	778 **203**	945 **197**	1056 **192**	1272 **181**
5	223 **281**	497 **271**	777 **260**	946 **252**	1058 **247**	1284 **237**
7	206 **396**	481 **385**	764 **372**	936 **364**	1050 **359**	1280 **347**
9	192 **511**	467 **499**	749 **485**	920 **476**	1035 **470**	1267 **457**

Flow (GPM)

TORQUE (LB IN) 920
SPEED (RPM) 476

65 cc / rev



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TB 0080

5.0 cu in / rev

PRESSURE (PSID)

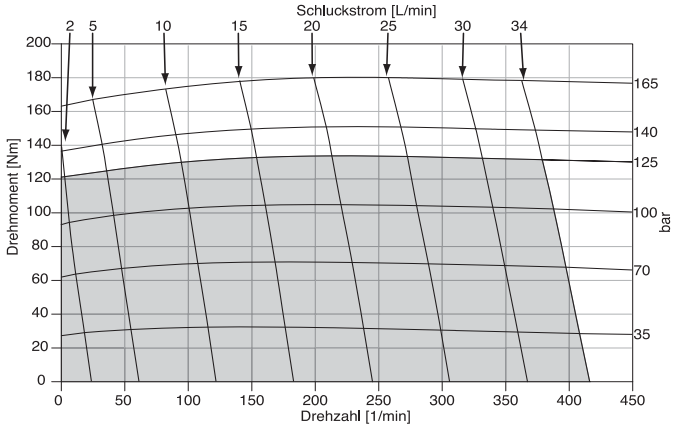
	500	1000	1500	1800	2000	2400
.5	256 **17**	562 **10**	877 **4**			
1	269 **40**	585 **33**	905 **26**	1097 **21**	1226 **18**	1487 **10**
2	285 **86**	616 **78**	950 **70**	1150 **66**	1283 **62**	1527 **53**
3	285 **132**	619 **124**	959 **116**	1163 **110**	1298 **106**	1566 **97**
4	286 **178**	628 **170**	976 **161**	1187 **155**	1327 **151**	1600 **141**
5	282 **225**	627 **216**	979 **206**	1193 **200**	1335 **196**	1621 **185**
7	267 **317**	615 **307**	972 **296**	1189 **290**	1333 **285**	1624 **274**
9	252 **409**	600 **398**	956 **387**	1173 **379**	1318 **374**	1609 **362**

Flow (GPM)

TORQUE (LB IN) 1173
SPEED (RPM) 379

82 cc / rev

EU



TB 0100

6.0 cu in / rev

PRESSURE (PSID)

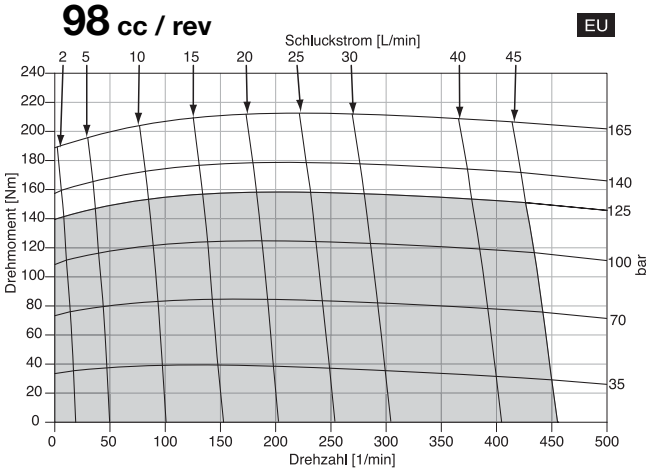
	500	1000	1500	1800	2000	2400
.5	310 **16**	669 **13**	1035 **9**	1258 **7**	1408 **5**	
1	330 **35**	697 **32**	1073 **27**	1298 **25**	1448 **23**	1737 **18**
2	346 **73**	732 **69**	1121 **64**	1353 **61**	1509 **59**	1800 **53**
3	345 **111**	735 **107**	1134 **102**	1371 **98**	1530 **95**	1844 **89**
4	347 **149**	747 **144**	1158 **139**	1403 **135**	1569 **132**	1885 **126**
5	343 **187**	750 **182**	1164 **176**	1411 **172**	1578 **169**	1909 **162**
7	327 **264**	738 **257**	1159 **250**	1411 **246**	1580 **242**	1917 **235**
9	301 **340**	715 **333**	1139 **325**	1395 **319**	1566 **316**	1909 **307**
12	257 **454**	669 **446**	1091 **437**	1347 **430**	1518 **426**	1863 **417**

Flow (GPM)

TORQUE (LB IN) 1347
SPEED (RPM) 430

98 cc / rev

EU



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TB 0130

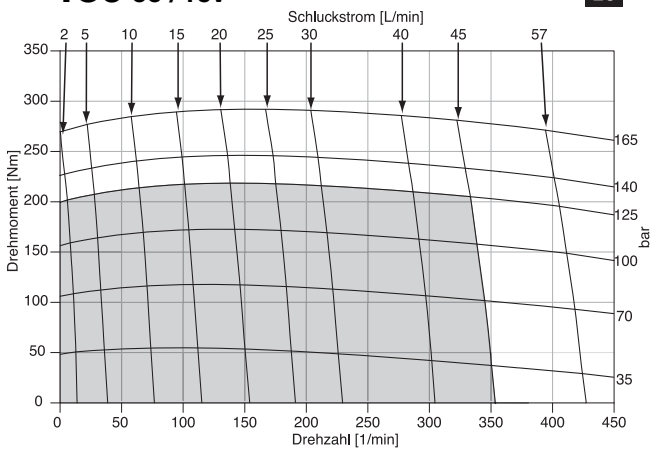
8.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2000	2400
.5	446 **12**	955 **10**	1479 **7**	1797 **5**	2011 **3**	
1	465 **27**	989 **24**	1515 **21**	1831 **19**	2043 **17**	2469 **13**
2	481 **55**	1023 **52**	1571 **49**	1901 **46**	2120 **44**	2520 **40**
3	482 **84**	1029 **81**	1581 **77**	1912 **74**	2133 **72**	2570 **67**
4	483 **113**	1042 **109**	1605 **105**	1940 **102**	2164 **100**	2608 **95**
5	478 **142**	1041 **138**	1610 **133**	1951 **130**	2179 **128**	2628 **122**
7	450 **199**	1019 **195**	1597 **190**	1943 **186**	2174 **184**	2632 **177**
9	414 **257**	984 **252**	1563 **246**	1911 **242**	2145 **239**	2612 **233**
12	335 **343**	907 **338**	1489 **331**	1842 **327**	2076 **323**	2550 **316**
15	253 **430**	818 **424**	1393 **416**	1740 **411**	1974 **407**	2443 **399**

TORQUE (LB IN) 2612
SPEED (RPM) 233

130 cc / rev

EU



TB 0165

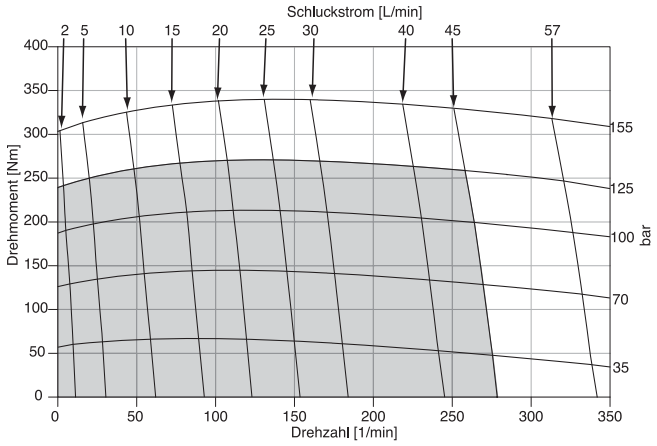
10.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2250
.5	529 **9**	1137 **7**	1769 **4**	2149 **3**	
1	556 **21**	1181 **18**	1819 **15**	2201 **13**	2776 **9**
2	580 **44**	1238 **40**	1909 **37**	2314 **34**	2876 **29**
3	584 **67**	1248 **63**	1926 **59**	2332 **56**	2934 **51**
4	592 **90**	1276 **86**	1968 **82**	2382 **78**	3000 **73**
5	588 **113**	1283 **109**	1988 **104**	2412 **101**	3046 **95**
7	560 **159**	1268 **154**	1987 **149**	2418 **145**	3062 **139**
9	517 **205**	1230 **200**	1957 **194**	2393 **190**	3047 **183**
12	425 **274**	1141 **268**	1874 **262**	2317 **257**	2980 **250**
15	321 **343**	1033 **337**	1759 **330**	2197 **325**	2859 **317**

TORQUE (LB IN) 3047
SPEED (RPM) 183

163 cc / rev

EU



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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

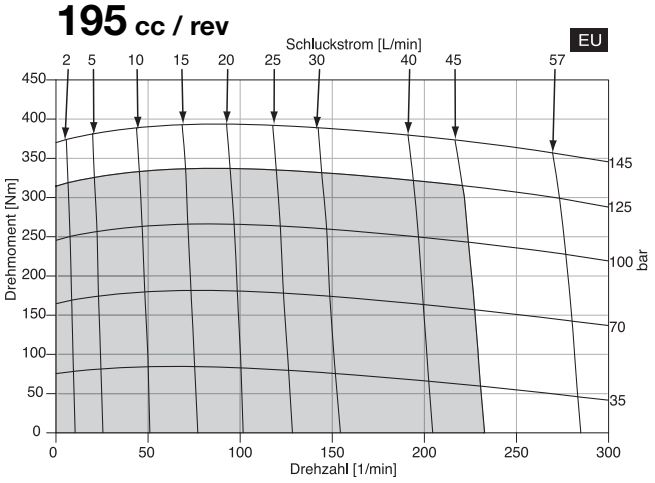
TB 0195

11.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1800	2100
.5	688 **9**	1490 **8**	2329 **7**	2841 **6**	3353 **5**
1	718 **18**	1537 **17**	2380 **16**	2890 **15**	3373 **14**
2	746 **38**	1580 **36**	2443 **35**	2962 **33**	3442 **32**
3	745 **57**	1592 **55**	2452 **53**	2973 **52**	3494 **50**
4	746 **76**	1607 **74**	2482 **72**	3008 **71**	3528 **69**
5	737 **95**	1601 **93**	2480 **91**	3011 **89**	3537 **87**
7	697 **134**	1572 **131**	2455 **129**	2986 **127**	3514 **125**
9	641 **172**	1510 **169**	2398 **167**	2934 **164**	3472 **162**
12	530 **230**	1391 **227**	2283 **223**	2821 **221**	3360 **217**
15	399 **287**	1252 **284**	2130 **280**	2662 **277**	3200 **273**

TORQUE (LB IN) 3472
SPEED (RPM) 162

195 cc / rev



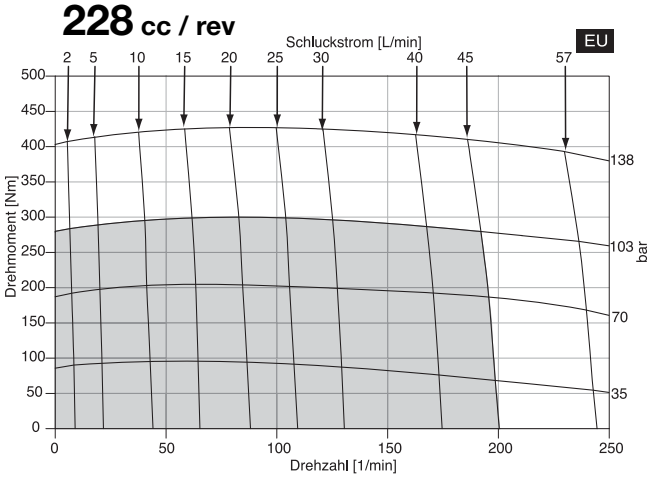
TB 0230

13.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000
.5	796 **8**	1704 **7**	2640 **6**	3597 **5**
1	818 **16**	1733 **15**	2681 **14**	3623 **13**
2	840 **32**	1775 **31**	2732 **30**	3700 **28**
3	845 **49**	1789 **47**	2750 **46**	3725 **43**
4	848 **65**	1815 **64**	2789 **62**	3762 **59**
5	840 **82**	1813 **80**	2797 **78**	3782 **74**
7	799 **114**	1790 **112**	2785 **110**	3776 **106**
9	741 **147**	1738 **145**	2738 **142**	3741 **138**
12	613 **197**	1615 **194**	2626 **190**	3645 **185**
15	473 **246**	1531 **243**	2457 **239**	3467 **233**

TORQUE (LB IN) 3776
SPEED (RPM) 106

228 cc / rev



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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TB 0260

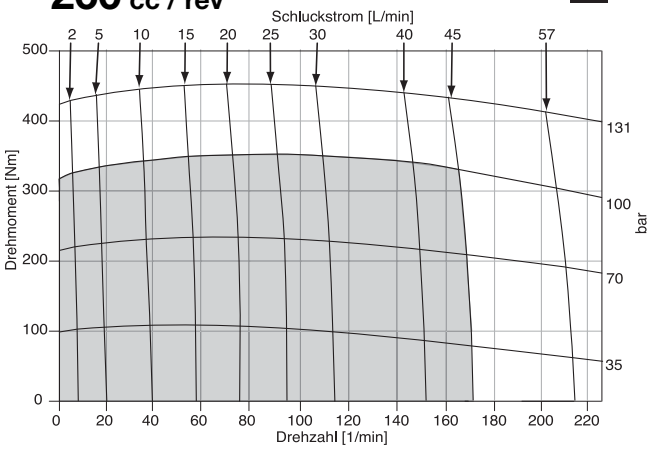
15.9 cu in / rev PRESSURE (PSID)

	500	1000	1450	1900
.5	906 **7**	1947 **6**	2910 **5**	3896 **4**
1	932 **14**	1984 **13**	2964 **12**	3919 **11**
2	958 **28**	2032 **27**	3025 **26**	4000 **24**
3	961 **43**	2047 **41**	3045 **40**	4052 **38**
4	963 **57**	2074 **56**	3086 **54**	4098 **52**
5	954 **71**	2074 **70**	3096 **68**	4117 **65**
7	909 **100**	2049 **99**	3084 **96**	4112 **93**
9	844 **129**	1991 **127**	3032 **125**	4070 **121**
12	696 **172**	1851 **170**	2903 **167**	3953 **162**
15	540 **216**	1683 **213**	2711 **209**	3753 **204**

Flow (GPM)

TORQUE (LB IN) 4112
SPEED (RPM) 93

260 cc / rev EU



TB 0295

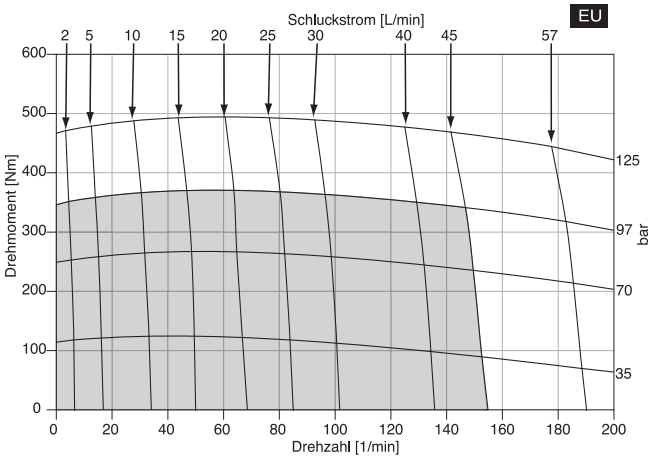
17.9 cu in / rev PRESSURE (PSID)

	500	1000	1400	1800
.5	1039 **6**	2229 **5**	3208 **4**	4200 **3**
1	1069 **12**	2281 **11**	3265 **10**	4248 **9**
2	1098 **25**	2332 **24**	3337 **22**	4290 **20**
3	1100 **38**	2344 **36**	3353 **35**	4356 **32**
4	1098 **50**	2366 **49**	3386 **47**	4398 **44**
5	1086 **63**	2361 **61**	3391 **60**	4415 **57**
7	1034 **89**	2325 **87**	3361 **85**	4394 **81**
9	955 **114**	2250 **112**	3295 **109**	4337 **106**
12	792 **153**	2085 **150**	3141 **147**	4194 **142**
15	606 **191**	1879 **188**	2908 **185**	3955 **180**

Flow (GPM)

TORQUE (LB IN) 4337
SPEED (RPM) 106

293 cc / rev EU



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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TB 0330

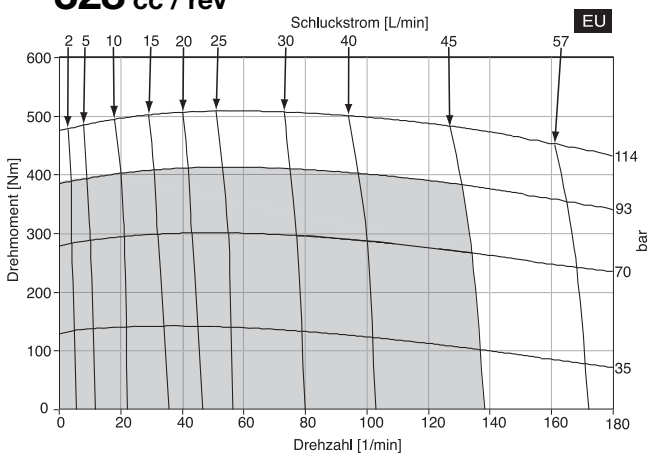
20.0 cu in / rev PRESSURE (PSID)

	500	1000	1350	1650
.5	1192 **5**	2498 **4**	3425 **4**	4227 **3**
1	1224 **11**	2555 **10**	3495 **9**	4250 **8**
2	1255 **22**	2620 **21**	3581 **20**	4350 **18**
3	1259 **34**	2633 **32**	3597 **31**	4424 **29**
4	1258 **45**	2666 **43**	3645 **42**	4480 **40**
5	1243 **56**	2665 **55**	3657 **53**	4505 **51**
7	1186 **79**	2627 **77**	3634 **75**	4492 **73**
9	1092 **102**	2544 **100**	3563 **97**	4431 **94**
12	905 **137**	2363 **134**	3391 **131**	4269 **127**
15	692 **171**	2129 **168**	3136 **165**	4001 **161**

Flow (GPM)

TORQUE (LB IN) 4431
SPEED (RPM) 94

328 cc / rev



TB 0365

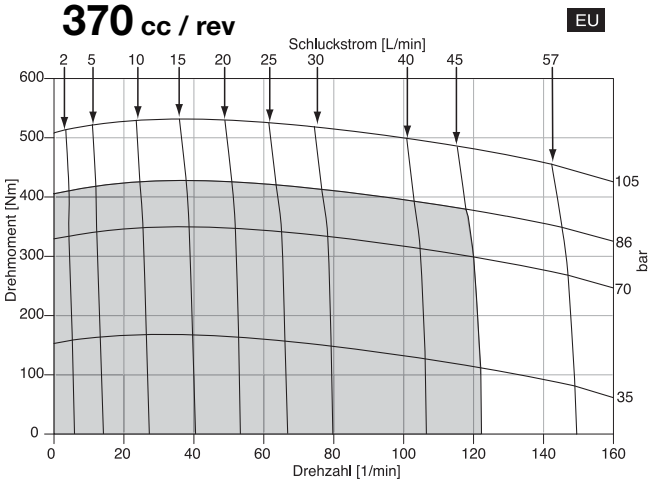
22.6 cu in / rev PRESSURE (PSID)

	500	1000	1250	1525
.5	1393 **5**	2942 **4**	3734 **4**	4617 **3**
1	1444 **10**	3005 **9**	3796 **9**	4672 **8**
2	1494 **20**	3090 **19**	3890 **18**	4710 **17**
3	1485 **30**	3082 **29**	3883 **28**	4765 **27**
4	1477 **40**	3089 **39**	3897 **38**	4783 **36**
5	1452 **50**	3075 **49**	3887 **48**	4775 **46**
7	1371 **70**	3009 **69**	3826 **67**	4719 **65**
9	1260 **90**	2899 **89**	3721 **87**	4621 **85**
12	1002 **121**	2658 **119**	3488 **117**	4393 **115**
15	700 **151**	2355 **149**	3190 **147**	4095 **144**

Flow (GPM)

TORQUE (LB IN) 4621
SPEED (RPM) 85

370 cc / rev



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

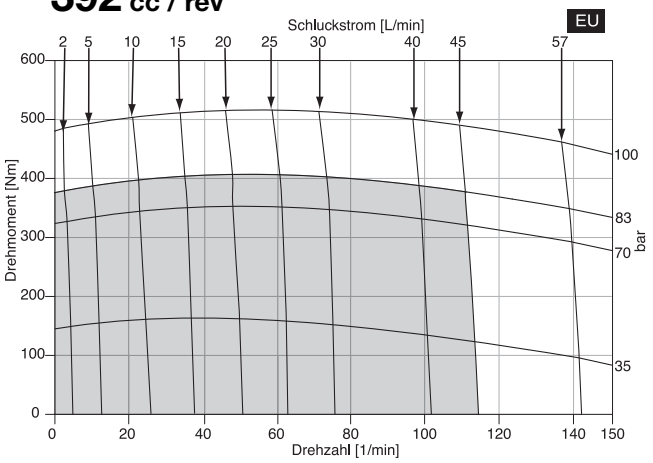
TB 0390

24.0 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1200	1450
.5	1309 **4**	2885 **3**	3534 **2**	4359 **2**
1	1368 **9**	2948 **8**	3589 **7**	4394 **6**
2	1417 **18**	3028 **17**	3683 **16**	4460 **15**
3	1427 **28**	3058 **26**	3714 **26**	4540 **24**
4	1443 **37**	3102 **36**	3764 **35**	4595 **34**
5	1439 **47**	3120 **45**	3790 **45**	4630 **43**
7	1392 **66**	3110 **65**	3792 **64**	4642 **62**
9	1297 **85**	3040 **84**	3732 **83**	4597 **81**
12	1087 **114**	2835 **112**	3541 **111**	4418 **110**
15	831 **143**	2571 **141**	3272 **140**	4145 **138**

TORQUE (LB IN) 4597
SPEED (RPM) 81

392 cc / rev



☐ 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.

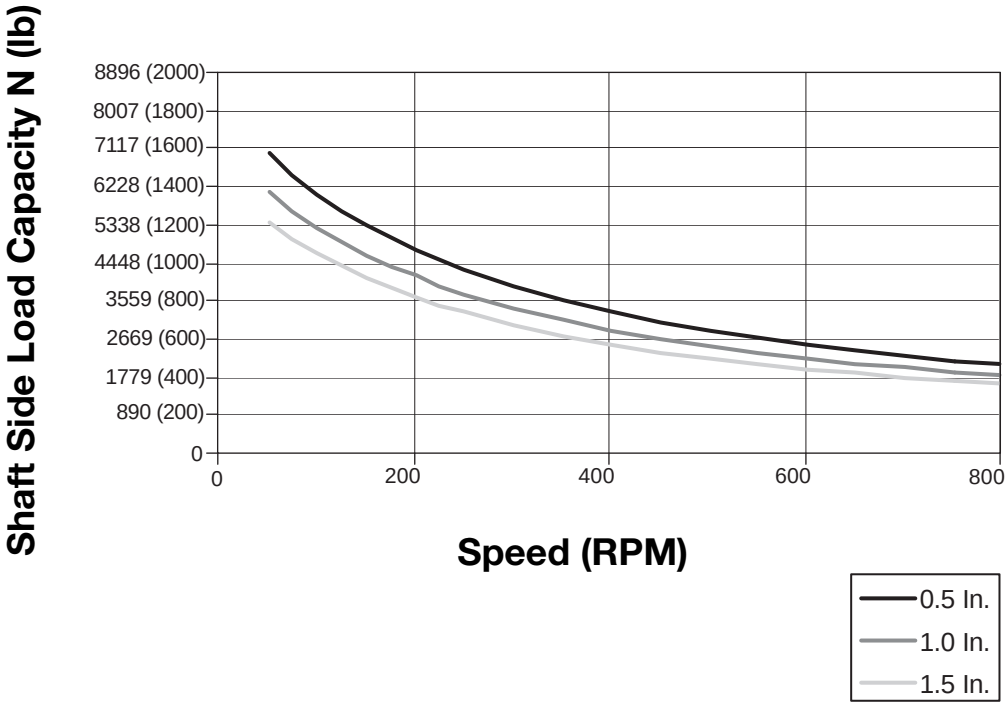
Les donnees sur les performances sont basees sur des tests utilisant de l'huile 10W40 d'une viscosite de 200 SUS a 54°C (130°F). Ces donnees correspondent a des situations typiques. Les donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

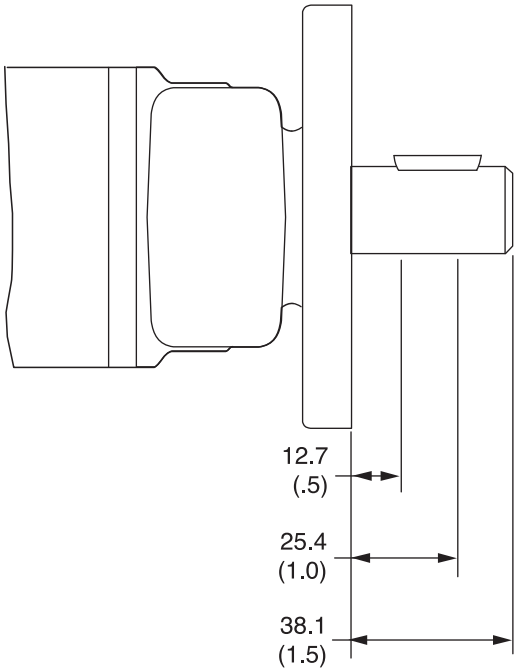
Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.



The allowable side load curve is based on bushing life of 2.5 x 10^6 revolutions.
Die zulaessige radiale Wellenbelastung bezieht sich auf die Lager-Lebensdauer 2,5 x 10^6 Umdrehungen.
L'effort radial admissible sur l'arbre depend a une duree de vie 2,5 x 10^6 de rotation.
La curva de carga lateral admisible se basa en vida util de cojinete de 2.5 x 10 revoluciones.



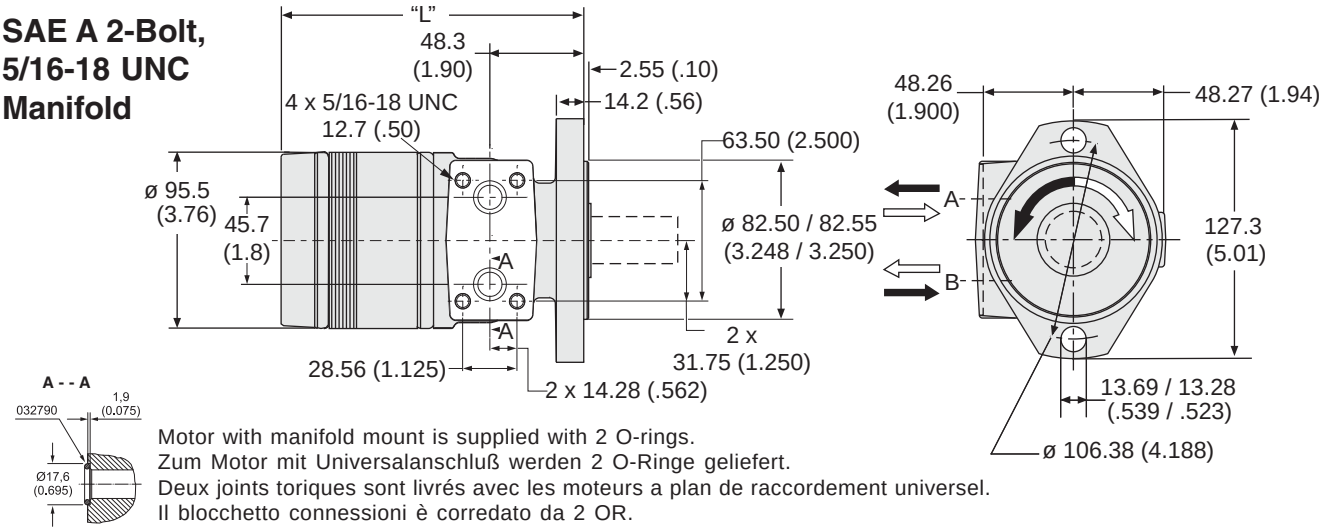
English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

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

Code: AM

SAE A 2-Bolt, 5/16-18 UNC Manifold

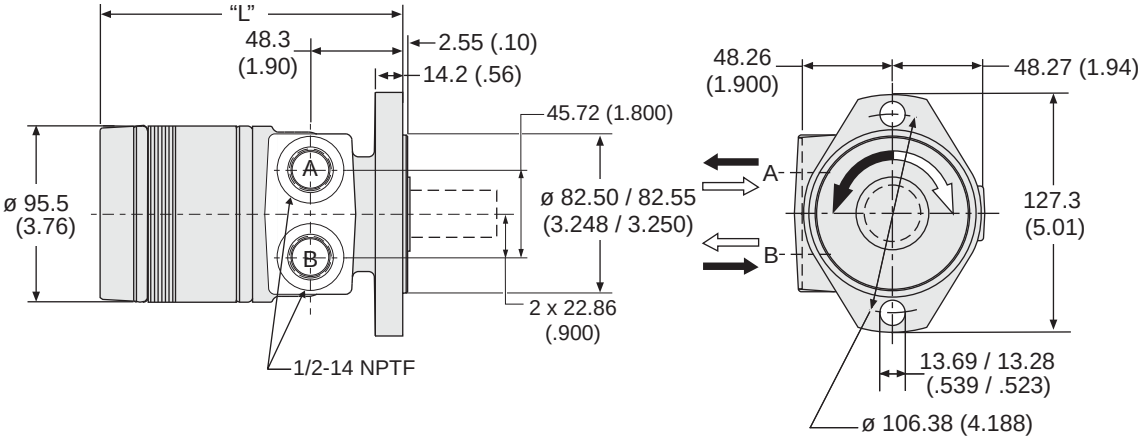


Motor with manifold mount is supplied with 2 O-rings.
Zum Motor mit Universalanschluß werden 2 O-Ringe geliefert.
Deux joints toriques sont livrés avec les moteurs a plan de raccordement universel.
Il blocchetto connessioni è corredato da 2 OR.

Code AM disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**5.87**	**6.03**	**6.12**	**6.26**	**6.35**	**6.49**	**6.76**	**7.03**	**7.35**	**7.58**	**7.80**	**8.07**	**8.35**	**8.66**	**8.80**
Poids/Peso (lb)	(12.9)	(13.3)	(13.5)	(13.8)	(14.0)	(14.3)	(14.9)	(15.5)	(16.2)	(16.7)	(17.2)	(17.8)	(18.4)	(19.1)	(19.4)
Length"L" mm	**132.4**	**136**	**138**	**141**	**144**	**147**	**154**	**160**	**166**	**173**	**179**	**185**	**192**	**200**	**205**
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	6.79	7.04	7.29	7.54	7.88	8.04

Code: AP

SAE A 2-Bolt, 1/2-14 NPTF



Code AP disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**5.87**	**6.03**	**6.12**	**6.26**	**6.35**	**6.49**	**6.76**	**7.03**	**7.35**	**7.58**	**7.80**	**8.07**	**8.35**	**8.66**	**8.80**
Poids/Peso (lb)	(12.9)	(13.3)	(13.5)	(13.8)	(14.0)	(14.3)	(14.9)	(15.5)	(16.2)	(16.7)	(17.2)	(17.8)	(18.4)	(19.1)	(19.4)
Length"L" mm	**132.4**	**136**	**138**	**141**	**144**	**147**	**154**	**160**	**166**	**173**	**179**	**185**	**192**	**200**	**205**
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	6.79	7.04	7.29	7.54	7.88	8.04

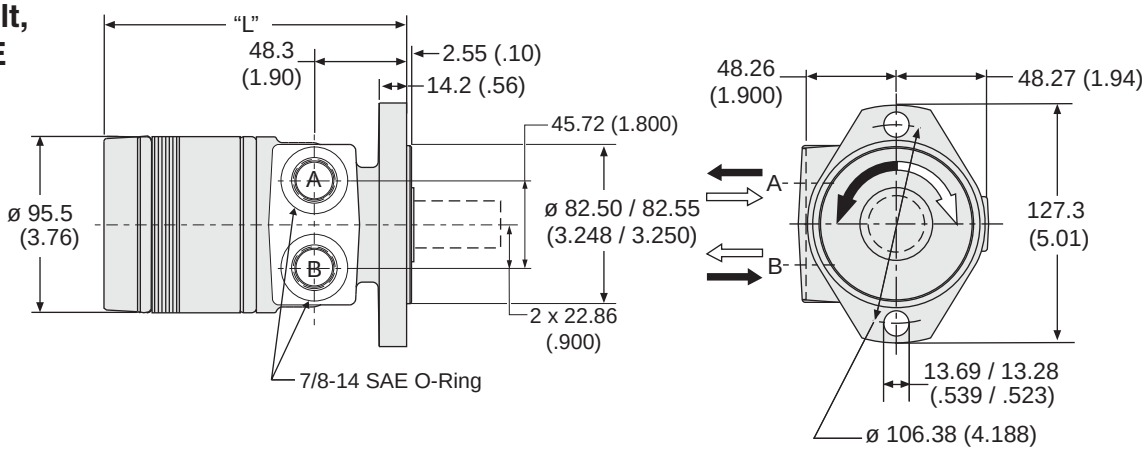
English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

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

Code: AS

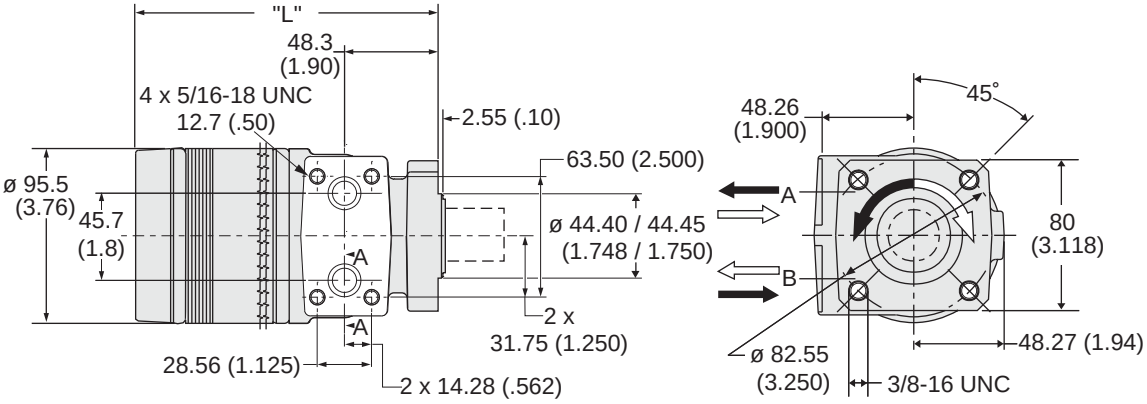
SAE A 2-Bolt, 7/8"-14 SAE O-Ring

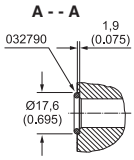


Code AS disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	5.87	6.03	6.12	6.26	6.35	6.49	6.76	7.03	7.35	7.58	7.80	8.07	8.35	8.66	8.80
Poids/Peso (lb)	(12.9)	(13.3)	(13.5)	(13.8)	(14.0)	(14.3)	(14.9)	(15.5)	(16.2)	(16.7)	(17.2)	(17.8)	(18.4)	(19.1)	(19.4)
Length"L" mm	132.4	136	138	141	144	147	154	160	166	173	179	185	192	200	205
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	6.79	7.04	7.29	7.54	7.88	8.04

Code: FM

4-Bolt, 5/16-18 UNC 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 è corredato da 2 OR.

Code FM disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	5.58	5.62	5.67	5.80	5.94	6.08	6.31	6.62	7.03	7.17	7.39	7.62	7.94	8.26	8.39
Poids/Peso (lb)	(12.3)	(12.4)	(12.5)	(12.8)	(13.1)	(13.4)	(13.9)	(14.6)	(15.5)	(15.8)	(16.3)	(16.8)	(17.5)	(18.2)	(18.5)
Length"L" mm	132.4	136	138	141	144	147	154	160	166	173	179	185	192	200	205
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

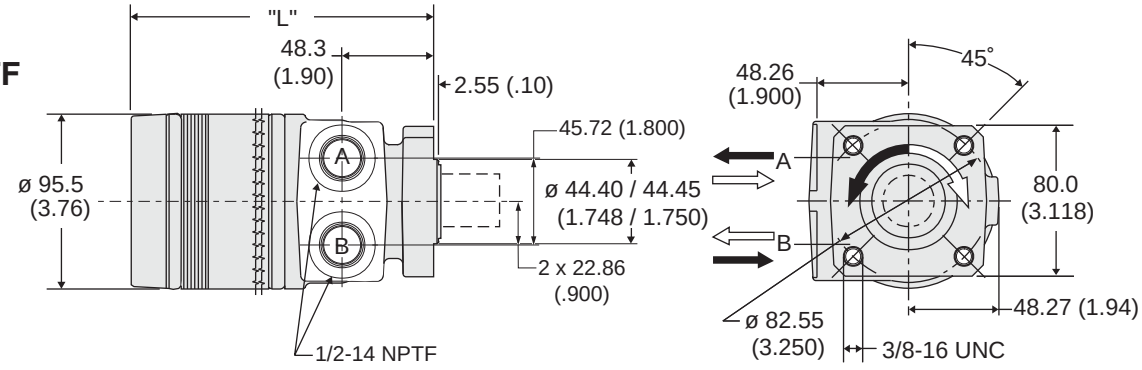
English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

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

Code: FP

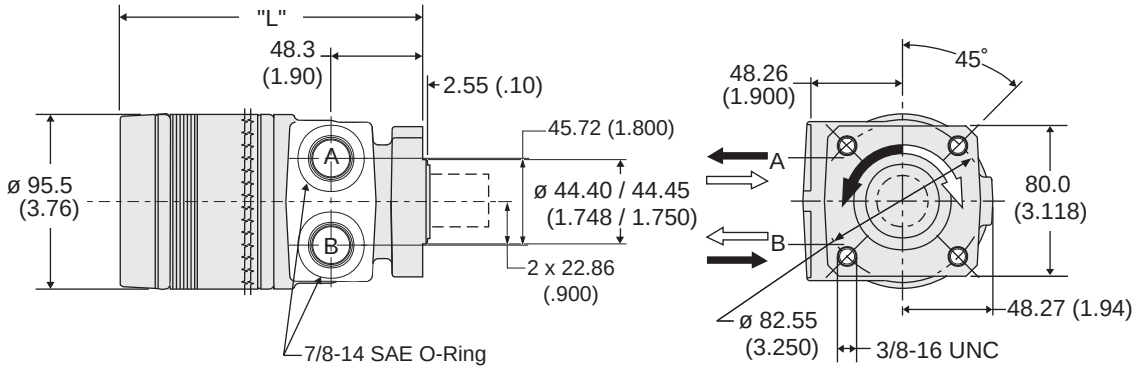
4 Bolt, 1/2-14 NPTF



Code FP disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**5.58**	**5.62**	**5.67**	**5.80**	**5.94**	**6.08**	**6.31**	**6.62**	**7.03**	**7.17**	**7.39**	**7.62**	**7.94**	**8.26**	**8.39**
Poids/Peso (lb)	(12.3)	(12.4)	(12.5)	(12.8)	(13.1)	(13.4)	(13.9)	(14.6)	(15.5)	(15.8)	(16.3)	(16.8)	(17.5)	(18.2)	(18.5)
Length"L" mm	**132.4**	**136**	**138**	**141**	**144**	**147**	**154**	**160**	**166**	**173**	**179**	**185**	**192**	**200**	**205**
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

Code: FS

4 Bolt, 7/8"-14 SAE O-Ring



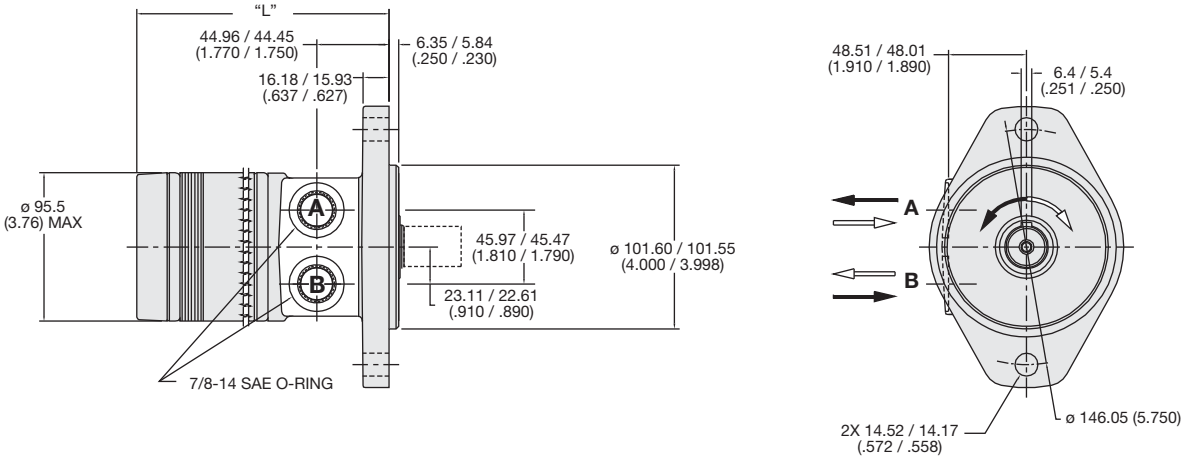
Code FS disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**5.58**	**5.62**	**5.67**	**5.80**	**5.94**	**6.08**	**6.31**	**6.62**	**7.03**	**7.17**	**7.39**	**7.62**	**7.94**	**8.26**	**8.39**
Poids/Peso (lb)	(12.3)	(12.4)	(12.5)	(12.8)	(13.1)	(13.4)	(13.9)	(14.6)	(15.5)	(15.8)	(16.3)	(16.8)	(17.5)	(18.2)	(18.5)
Length"L" mm	**132.4**	**136**	**138**	**141**	**144**	**147**	**154**	**160**	**166**	**173**	**179**	**185**	**192**	**200**	**205**
"L" (in)	(5.22)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

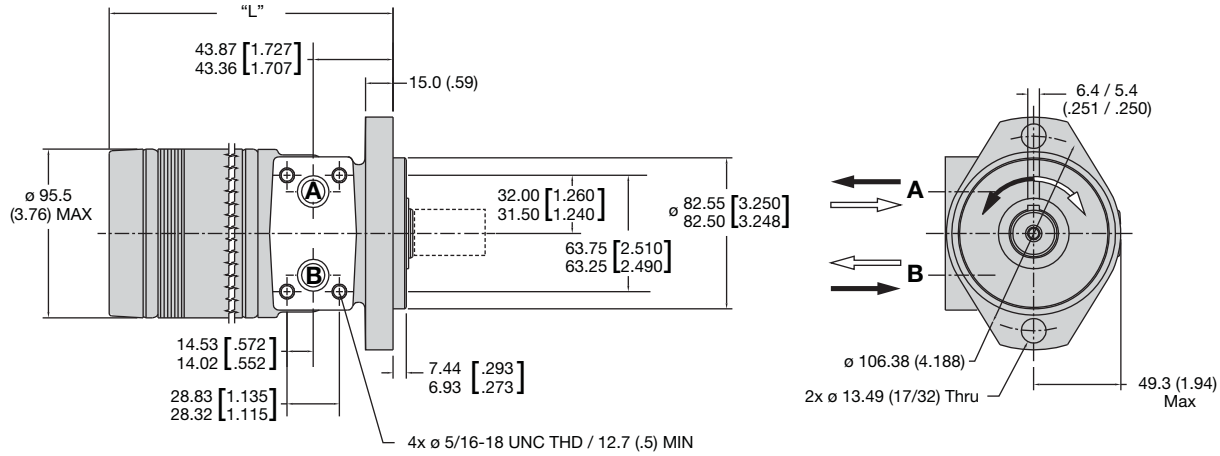
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: BS
SAE B 2-Bolt
7/8-14 SAE



Code BS disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**7.27**	**7.34**	**7.48**	**7.62**	**7.71**	**7.84**	**8.11**	**8.39**	**8.70**	**8.93**	**9.16**	**9.43**	**9.70**	**9.97**	**10.1**
Poids/Peso (lb)	(15.9)	(16.3)	(16.5)	(16.8)	(17.0)	(17.3)	(17.9)	(18.5)	(19.2)	(19.7)	(20.2)	(20.8)	(21.4)	(22.0)	(22.4)
Length"L" mm	**131.5**	**132.5**	**134.1**	**137.1**	**140.4**	**143.5**	**149.8**	**156.2**	**162.5**	**168.9**	**175.2**	**181.6**	**187.9**	**196.5**	**200.9**
"L" (in)	(5.18)	(5.22)	(5.28)	(5.40)	(5.53)	(5.65)	(5.90)	(6.15)	(6.40)	(6.65)	(6.90)	(7.15)	(7.40)	(7.74)	(7.91)

Code: CM
SAE A 2 Bolt, Long Pilot
5/16-18 UNC Manifold



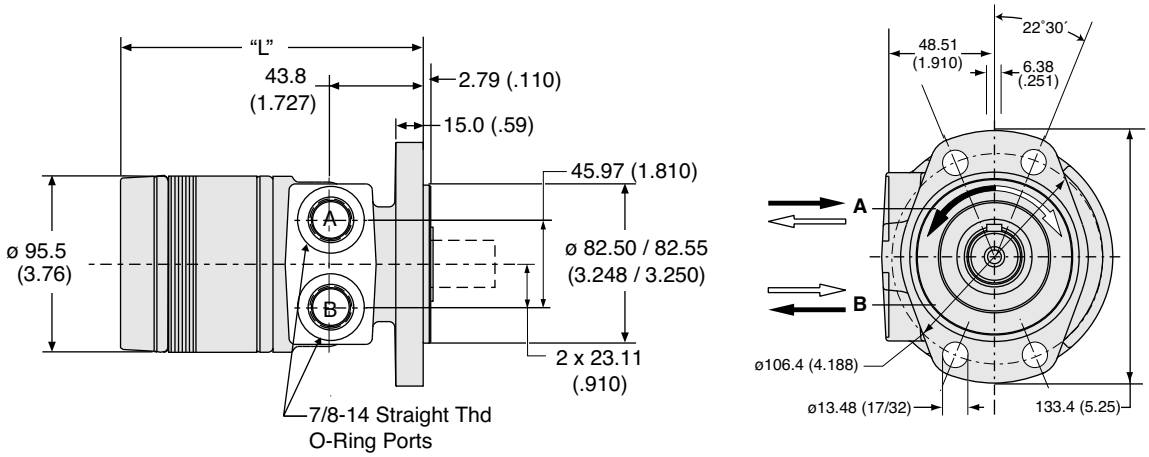
Code CM disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**6.17**	**6.35**	**6.44**	**6.58**	**6.67**	**6.80**	**7.07**	**7.35**	**7.66**	**7.84**	**8.11**	**8.39**	**8.66**	**8.94**	**9.11**
Poids/Peso (lb)	(13.6)	(14.0)	(14.2)	(14.5)	(14.7)	(15.0)	(15.6)	(16.2)	(16.9)	(17.4)	(17.9)	(18.5)	(19.1)	(19.7)	(20.1)
Length "L" mm	**130.4**	**131.5**	**132.9**	**136.1**	**139.3**	**142.5**	**148.8**	**155.2**	**161.5**	**167.9**	**174.2**	**180.6**	**186.9**	**195.6**	**199.7**
"L" (in)	(5.13)	(5.18)	(5.23)	(5.36)	(5.48)	(5.61)	(5.86)	(6.11)	(6.36)	(6.61)	(6.86)	(7.11)	(7.36)	(7.70)	(7.86)

English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

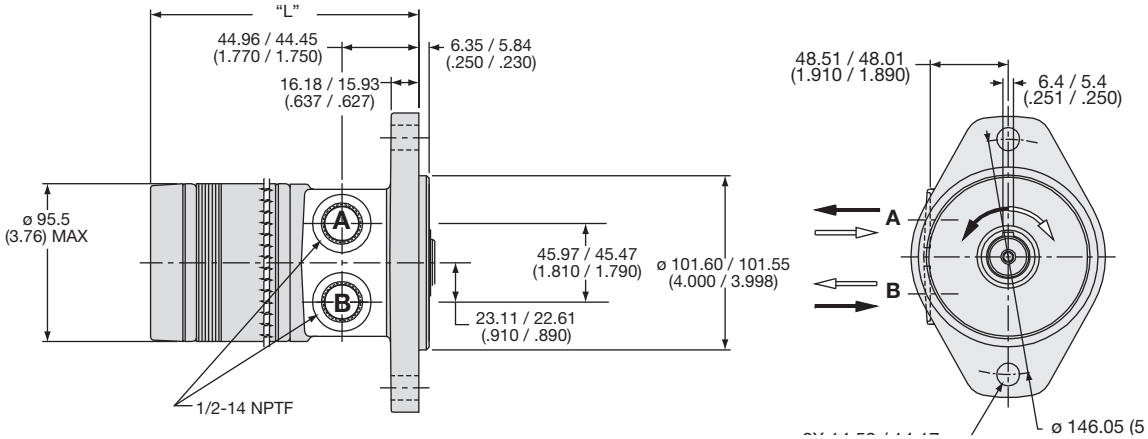
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: MS
Magneto
7/8-14 SAE



Code MS	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**6.16**	**6.30**	**6.40**	**6.53**	**6.62**	**6.76**	**7.03**	**7.30**	**7.62**	**7.85**	**8.12**	**8.35**	**8.62**	**8.94**	**9.07**
Poids/Peso	(lb)	(13.6)	(13.9)	(14.1)	(14.4)	(14.6)	(14.9)	(15.5)	(16.1)	(16.8)	(17.3)	(17.9)	(18.4)	(19.0)	(19.7)	(20.0)
Length	**"L" mm**	**135.1**	**136.1**	**137.6**	**140.8**	**144.0**	**147.1**	**153.5**	**159.8**	**166.2**	**172.5**	**178.9**	**185.2**	**191.6**	**200.2**	**204.3**
	"L" (in)	(5.32)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

Code: BP
SAE B 2-Bolt
1/2-14 NPTF



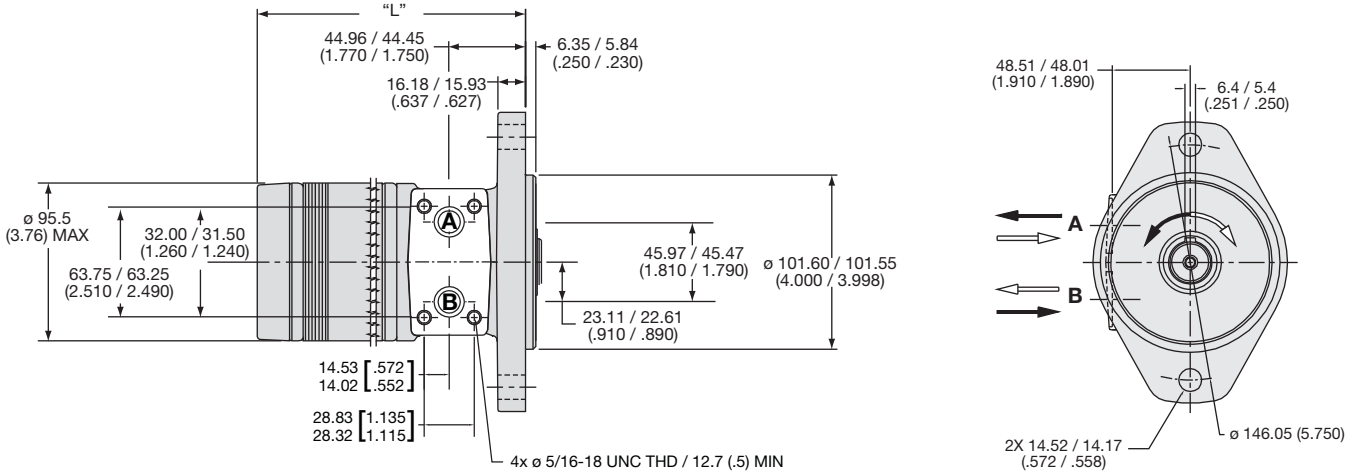
Code BP	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**7.27**	**7.34**	**7.48**	**7.62**	**7.71**	**7.84**	**8.11**	**8.39**	**8.70**	**8.93**	**9.16**	**9.43**	**9.70**	**9.97**	**10.1**
Poids/Peso	(lb)	(15.9)	(16.3)	(16.5)	(16.8)	(17.0)	(17.3)	(17.9)	(18.5)	(19.2)	(19.7)	(20.2)	(20.8)	(21.4)	(22.0)	(22.4)
Length	**"L" mm**	**131.4**	**132.5**	**134.0**	**137.2**	**140.4**	**143.6**	**149.9**	**156.3**	**162.6**	**169.0**	**175.3**	**181.7**	**188.0**	**196.7**	**200.8**
	"L" (in)	(5.18)	(5.22)	(5.28)	(5.40)	(5.53)	(5.65)	(5.90)	(6.15)	(6.40)	(6.65)	(6.90)	(7.15)	(7.40)	(7.74)	(7.90)

English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

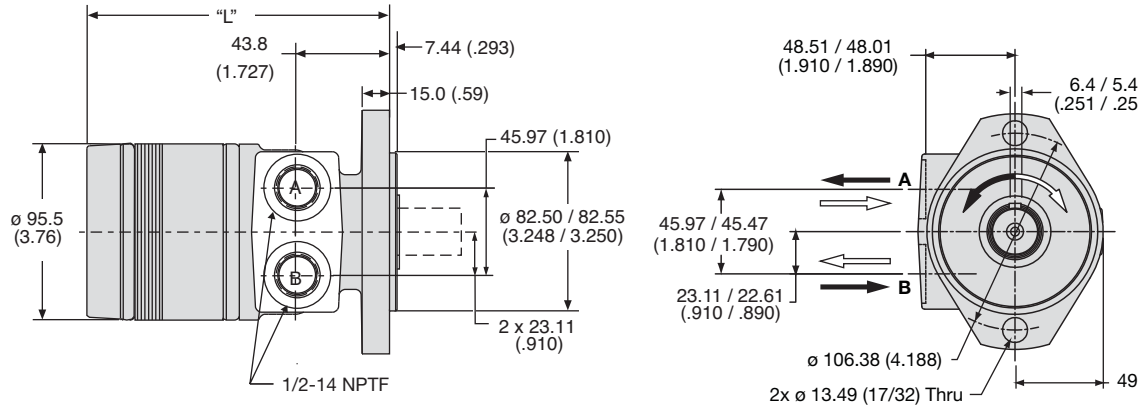
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: BM
SAE B 2-Bolt
5/16-18 UNC Manifold



Code BM	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**7.27**	**7.34**	**7.48**	**7.62**	**7.71**	**7.84**	**8.11**	**8.39**	**8.70**	**8.93**	**9.16**	**9.43**	**9.70**	**9.97**	**10.1**
Poids/Peso	(lb)	(15.9)	(16.3)	(16.5)	(16.8)	(17.0)	(17.3)	(17.9)	(18.5)	(19.2)	(19.7)	(20.2)	(20.8)	(21.4)	(22.0)	(22.4)
Length	**"L" mm**	**131.4**	**132.5**	**134.0**	**137.2**	**140.4**	**143.6**	**149.9**	**156.3**	**162.6**	**169.0**	**175.3**	**181.7**	**188.0**	**196.7**	**200.8**
	"L" (in)	(5.18)	(5.22)	(5.28)	(5.40)	(5.53)	(5.65)	(5.90)	(6.15)	(6.40)	(6.65)	(6.90)	(7.15)	(7.40)	(7.74)	(7.90)

Code: CP
SAE A 2 Bolt, Long Pilot
1/2-14 NPTF



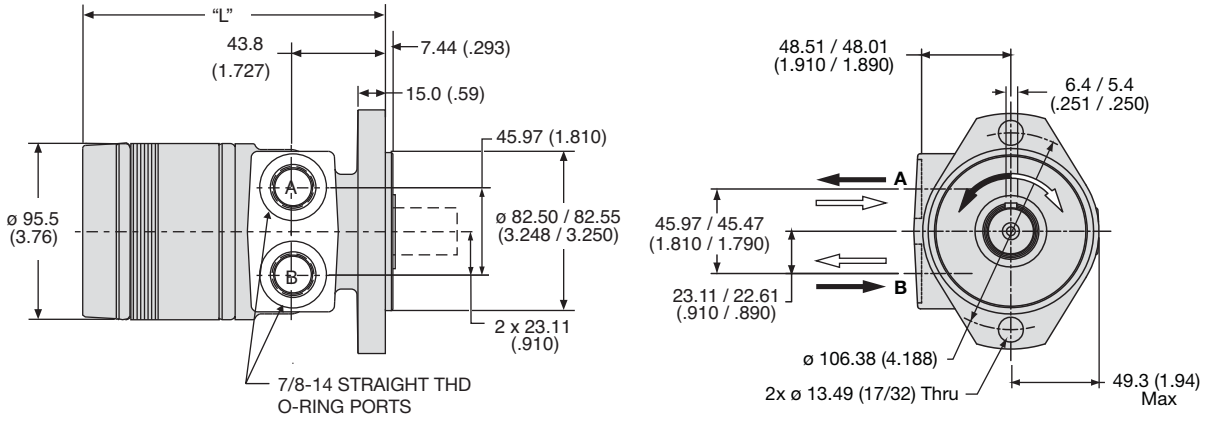
Code CP	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**6.17**	**6.35**	**6.44**	**6.58**	**6.67**	**6.80**	**7.07**	**7.35**	**7.66**	**7.84**	**8.11**	**8.39**	**8.66**	**8.94**	**9.11**
Poids/Peso	(lb)	(13.6)	(14.0)	(14.2)	(14.5)	(14.7)	(15.0)	(15.6)	(16.2)	(16.9)	(17.4)	(17.9)	(18.5)	(19.1)	(19.7)	(20.1)
Length	**"L" mm**	**130.4**	**131.5**	**132.9**	**136.1**	**139.3**	**142.5**	**148.8**	**155.2**	**161.5**	**167.9**	**174.2**	**180.6**	**186.9**	**195.6**	**199.7**
	"L" (in)	(5.13)	(5.18)	(5.23)	(5.36)	(5.48)	(5.61)	(5.86)	(6.11)	(6.36)	(6.61)	(6.86)	(7.11)	(7.36)	(7.70)	(7.86)

English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

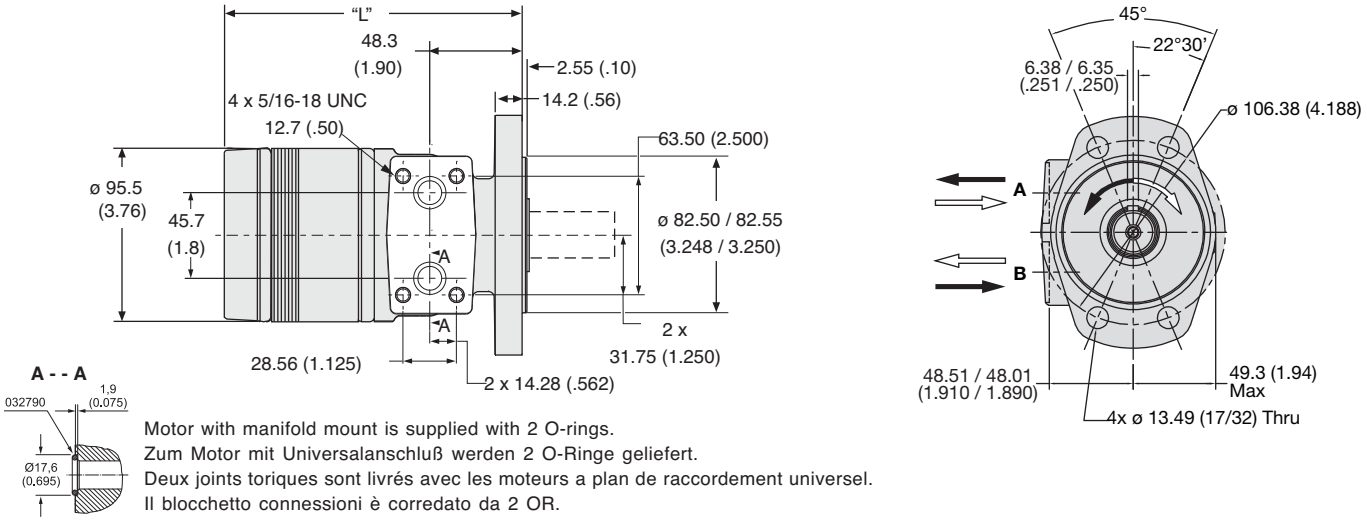
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, Tennessee, USA

Code: CS
SAE A 2 Bolt, Long Pilot
7/8-14 SAE



Code CS	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**6.17**	**6.35**	**6.44**	**6.58**	**6.67**	**6.80**	**7.07**	**7.35**	**7.66**	**7.84**	**8.11**	**8.39**	**8.66**	**8.94**	**9.11**
Poids/Peso	(lb)	(13.6)	(14.0)	(14.2)	(14.5)	(14.7)	(15.0)	(15.6)	(16.2)	(16.9)	(17.4)	(17.9)	(18.5)	(19.1)	(19.7)	(20.1)
Length	**"L" mm**	**130.4**	**131.5**	**132.9**	**136.1**	**139.3**	**142.5**	**148.8**	**155.2**	**161.5**	**167.9**	**174.2**	**180.6**	**186.9**	**195.6**	**199.7**
	"L" (in)	(5.13)	(5.18)	(5.23)	(5.36)	(5.48)	(5.61)	(5.86)	(6.11)	(6.36)	(6.61)	(6.86)	(7.11)	(7.36)	(7.70)	(7.86)

Code: MM
Magneto
5/16-18 UNC 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 è corredato da 2 OR.

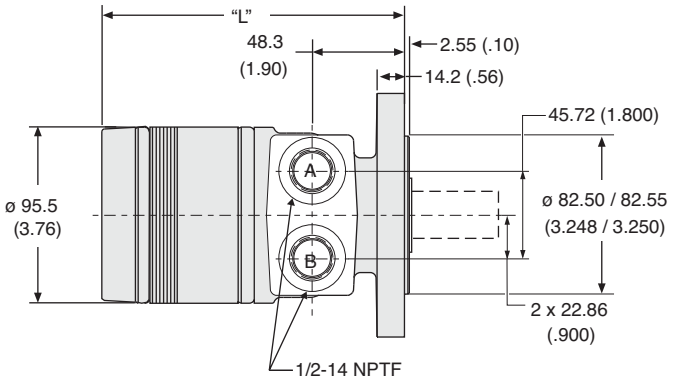
Code MM	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**6.16**	**6.30**	**6.40**	**6.53**	**6.62**	**6.76**	**7.03**	**7.30**	**7.62**	**7.85**	**8.12**	**8.35**	**8.62**	**8.94**	**9.07**
Poids/Peso	(lb)	(13.6)	(13.9)	(14.1)	(14.4)	(14.6)	(14.9)	(15.5)	(16.1)	(16.8)	(17.3)	(17.9)	(18.4)	(19.0)	(19.7)	(20.0)
Length	**"L" mm**	**135.0**	**136.1**	**137.6**	**140.8**	**144.0**	**147.1**	**153.5**	**159.8**	**166.2**	**172.5**	**178.9**	**185.2**	**191.6**	**200.2**	**204.3**
	"L" (in)	(5.32)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

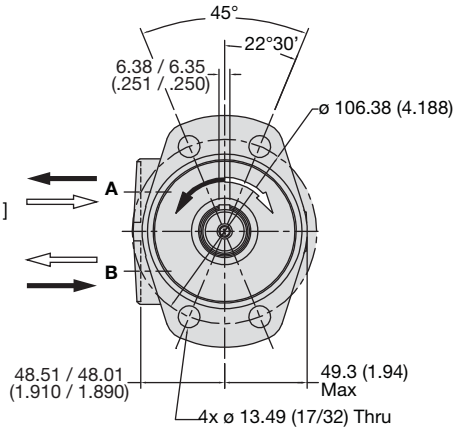
English equivalents for metric specifications are shown in ( ).

002 TB.indd, js

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

Code: MP
Magneto
1/2-14 NPTF





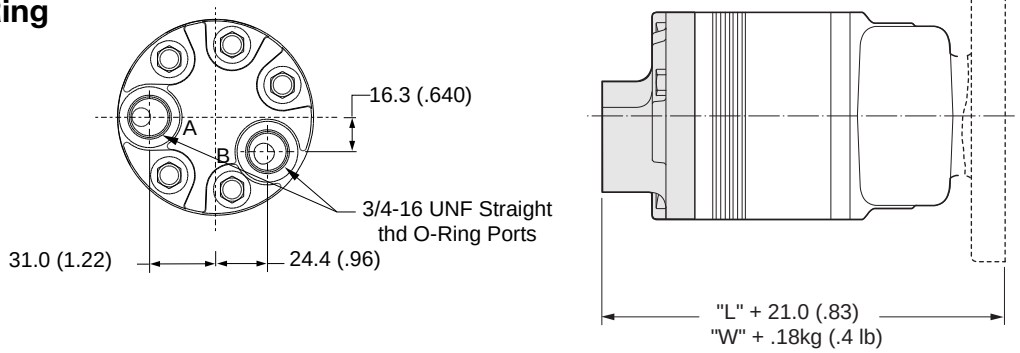
Code MP	disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht	**kg**	**6.16**	**6.30**	**6.40**	**6.53**	**6.62**	**6.76**	**7.03**	**7.30**	**7.62**	**7.85**	**8.12**	**8.35**	**8.62**	**8.94**	**9.07**
Poids/Peso	(lb)	(13.6)	(13.9)	(14.1)	(14.4)	(14.6)	(14.9)	(15.5)	(16.1)	(16.8)	(17.3)	(17.9)	(18.4)	(19.0)	(19.7)	(20.0)
Length	**"L" mm**	**135.1**	**136.1**	**137.6**	**140.8**	**144.0**	**147.1**	**153.5**	**159.8**	**166.2**	**172.5**	**178.9**	**185.2**	**191.6**	**200.2**	**204.3**
	"L" (in)	(5.32)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)

English equivalents for metric specifications are shown in ( ).

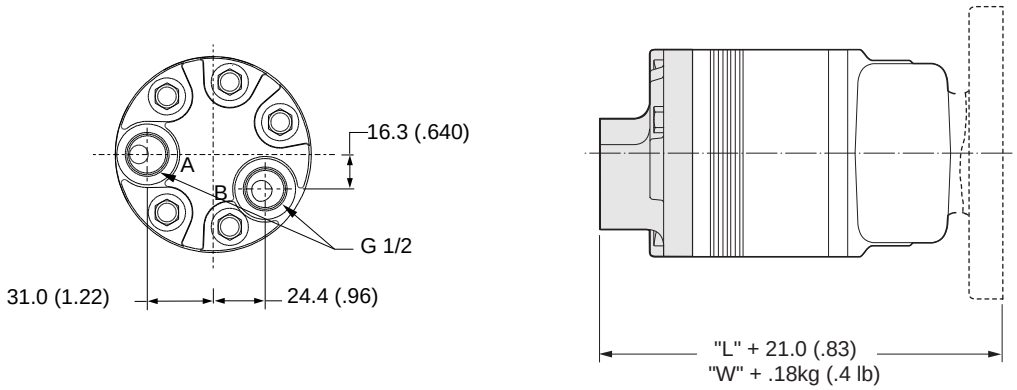
002 TB.indd, js

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

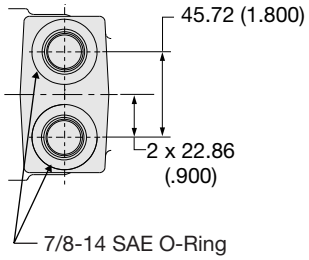
Code: R
Rear Port
3/4"-16 SAE O-Ring



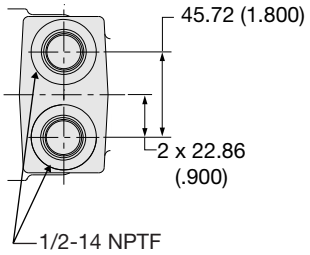
Code: Y
Rear Port
G 1/2 BSPP



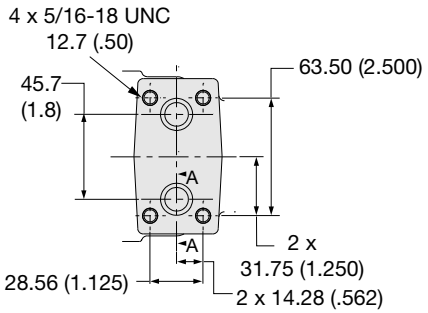
Code: S
7/8"-14 SAE O-Ring



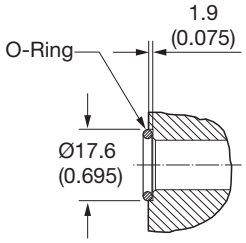
Code: P
1/2"-14 NPTF



Code: M
Manifold



A - - A



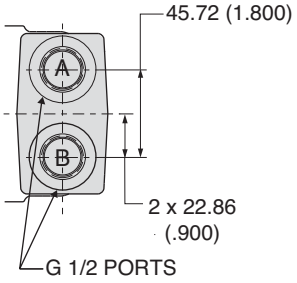
Motor with manifold mount is supplied with 2 o-rings (P/N 032790).

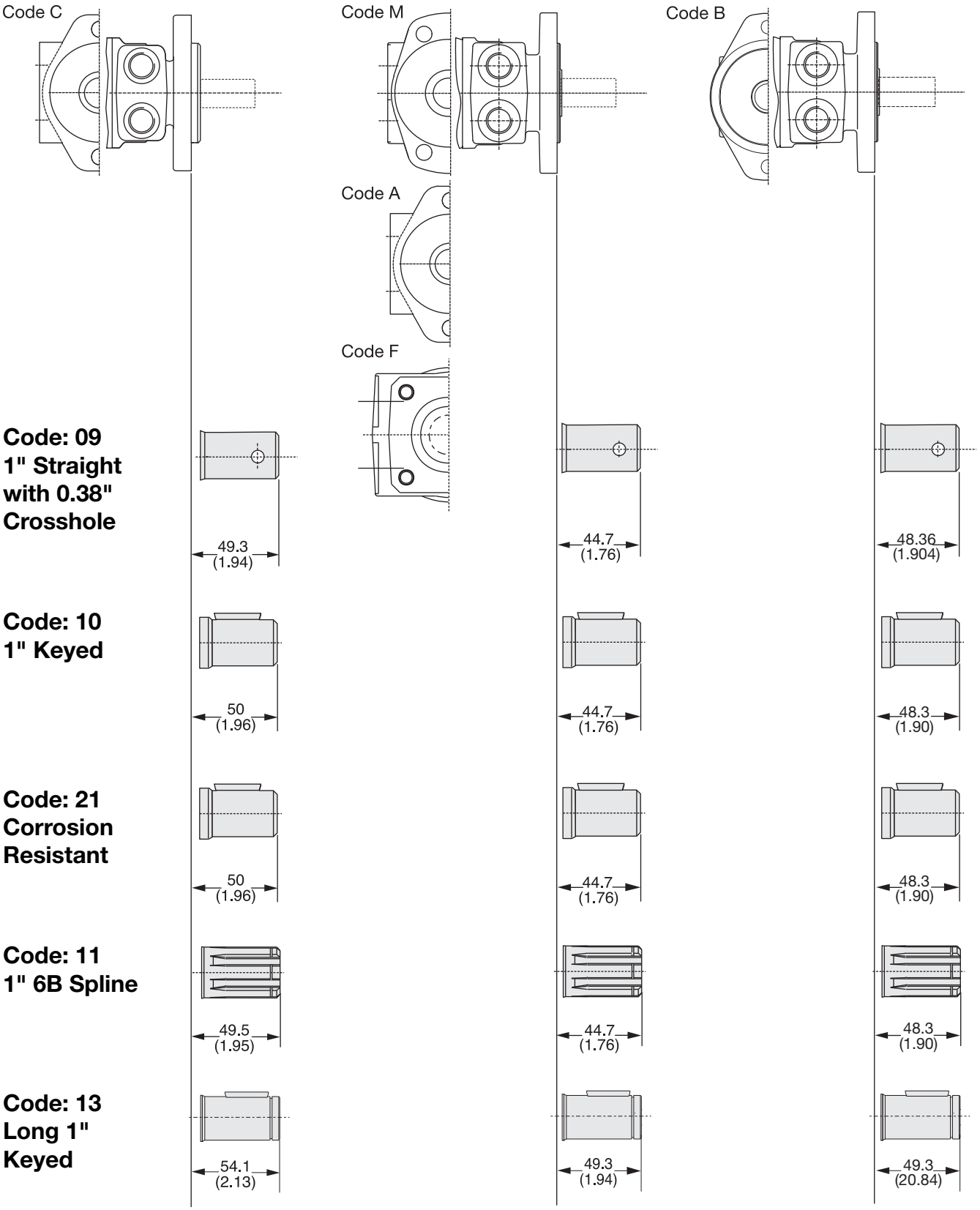
Zum Motor mit Universalanschluß werden 2 o-ringe geliefert.

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

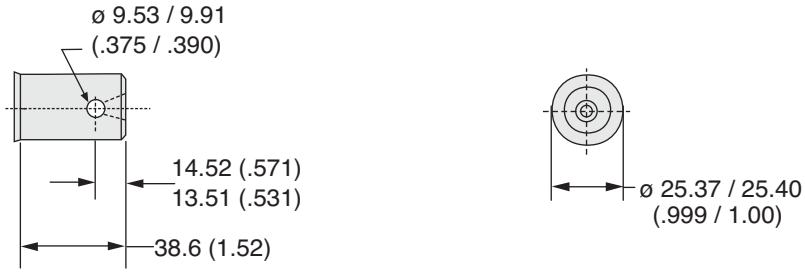
Il blocchetto connessioni è corredato da 2 OR.

Code: W
G 1/2 BSPP
Milled Front



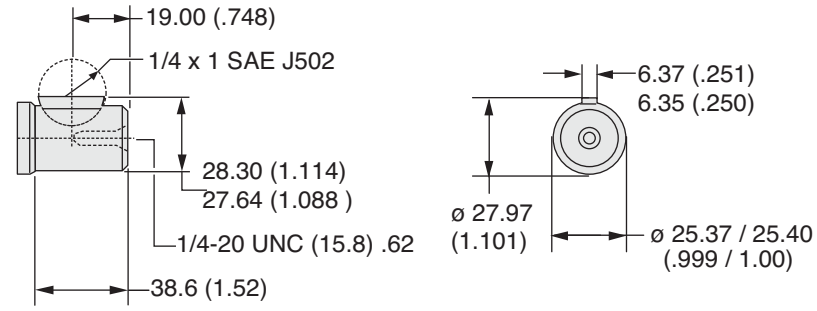

Code C
Code M
Code B
Code A
Code F
Code: 09
1" Straight
with 0.38"
Crosshole
49.3
(1.94)
44.7
(1.76)
48.36
(1.904)
Code: 10
1" Keyed
50
(1.96)
44.7
(1.76)
48.3
(1.90)
Code: 21
Corrosion
Resistant
50
(1.96)
44.7
(1.76)
48.3
(1.90)
Code: 11
1" 6B Spline
49.5
(1.95)
44.7
(1.76)
48.3
(1.90)
Code: 13
Long 1"
Keyed
54.1
(2.13)
49.3
(1.94)
49.3
(20.84)

Code: 09
1" Straight with 0.38" Crosshole

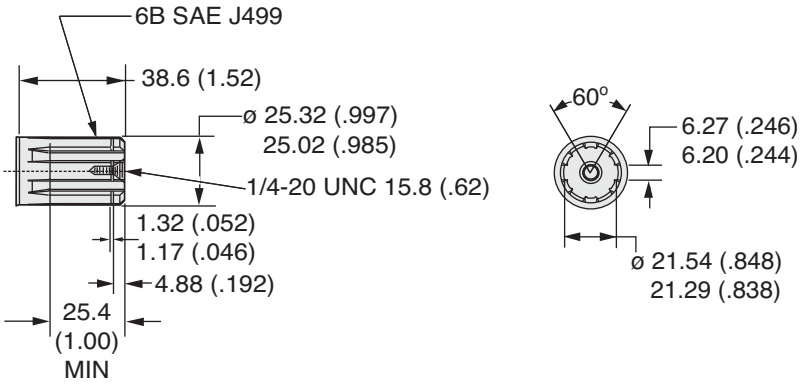


Code: 10
1" Keyed

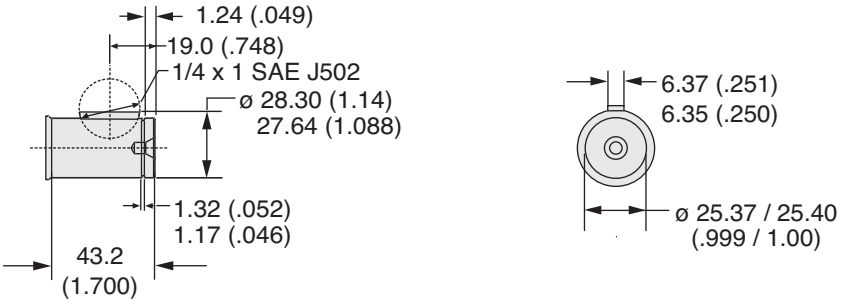
Code: 21
Corrosion Resistant

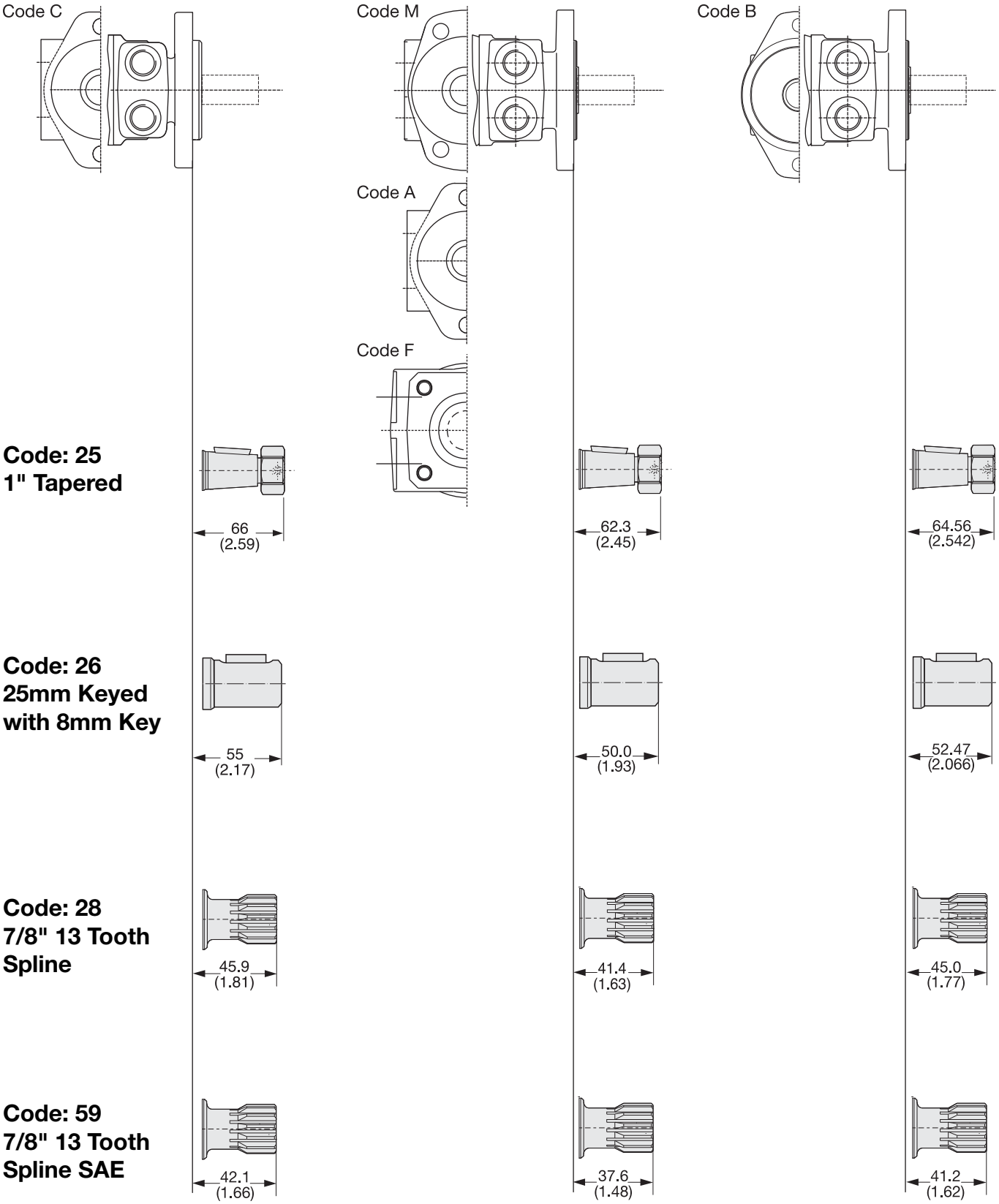


Code: 11
1" 6B Spline

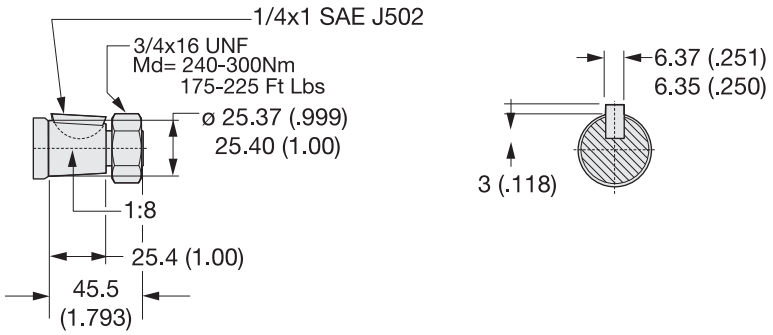


Code: 13
Long 1" Keyed

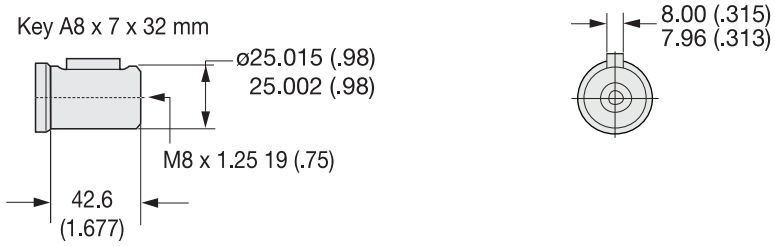



Code C
Code M
Code B
Code A
Code F
Code: 25
1" Tapered
66
(2.59)
62.3
(2.45)
64.56
(2.542)
Code: 26
25mm Keyed
with 8mm Key
55
(2.17)
50.0
(1.93)
52.47
(2.066)
Code: 28
7/8" 13 Tooth
Spline
45.9
(1.81)
41.4
(1.63)
45.0
(1.77)
Code: 59
7/8" 13 Tooth
Spline SAE
42.1
(1.66)
37.6
(1.48)
41.2
(1.62)

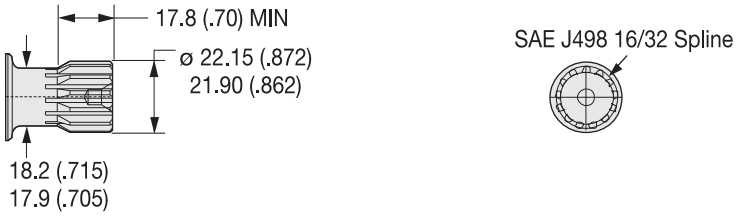
Code: 25
1" Tapered



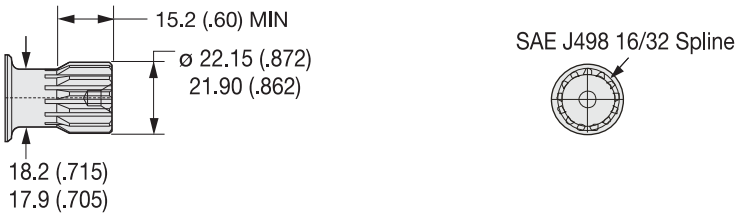
Code: 26
25mm Keyed
with 8mm Key



Code: 28
7/8" 13 Tooth
Spline



Code: 59
7/8" 13 Tooth
Spline SAE



15 Displacements	(2.2 – 24.0 in³/rev)
15 Schluckvolumen	**36 . . . 390 cm³/rev**
15 Cylindrée	
15 Despazamientos	

	Cont	Int
Maximum Pressure	(1800 psid)	(2400 psid)
Eingangsdruck	**. . .125 bar**	**. . .165 bar**
Chaute de pression max.		
Presion Maxima		

Maximum Oil Flow	(15 gpm)
Schluckstrom	**. . . 57 lpm**
Débit d'huile	
Caudal Maximo de Aceite	

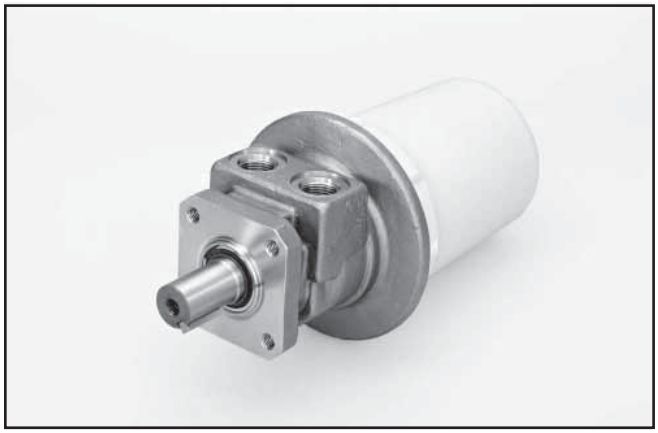
Maximum Speed	(932 rpm)
Drehzahl	**932 rpm**
Vitesse de rotation	
Velocidad Maxima	

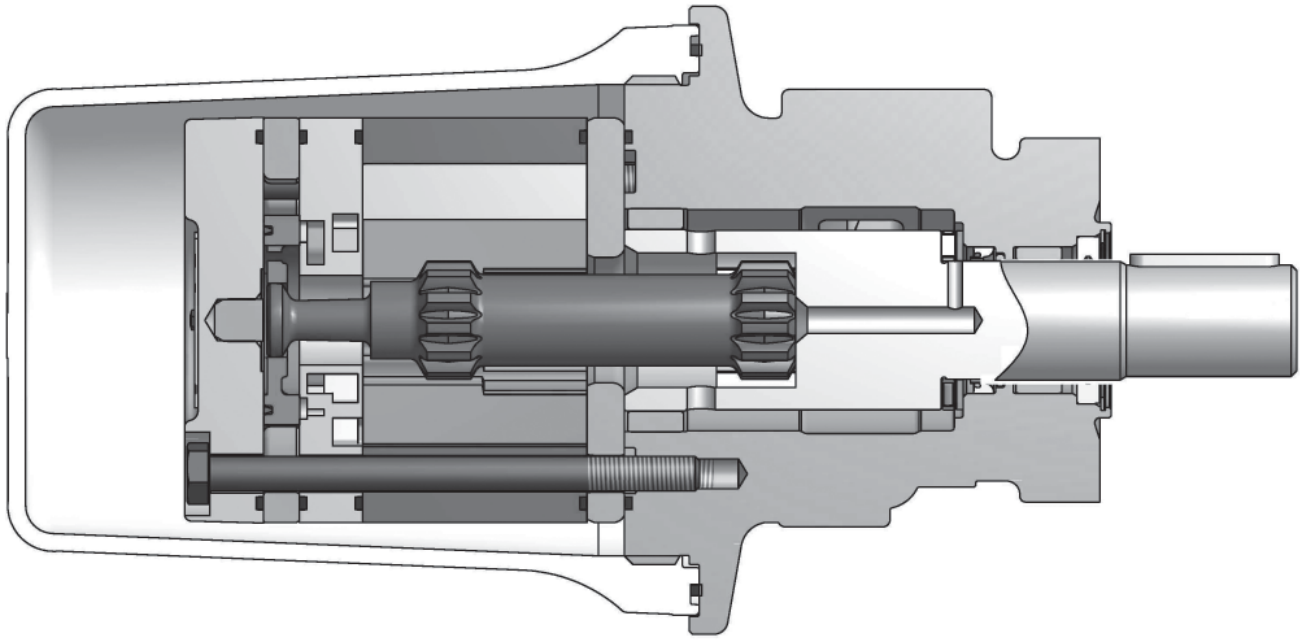
	Cont	Int
Maximum Torque	(2000 lb in)	(2000 lb in)
Max Drehmoment	**226 Nm**	**226 Nm**
Couple Maxi		
Torque Maximo		

Maximum Side Load at Key	(300 lb)
Seitenlast	**. . . 1340 N**
Charges latèrales	
Carga Maxima Lateral	

A Stainless Steel Low Speed, High Torque Motor

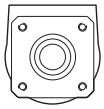
This motor utilizes a stainless steel front housing and output shaft, with a glass filled polypropylene rear cover for the ultimate in corrosion protection. It is designed for use under water or in harsh environments where it will be exposed to water or corrosive chemicals. Features such as roller vanes, high pressure shaft seal and full flow spline lubrication are standard.

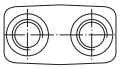


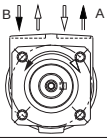
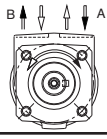


TS	XXXX	X	X	XX	0	XXXX
Series	Displacement Schluckvolumen Cylindrée Desplazamiento	Mounting Gehäuse Carter Montaje	Ports Anschluß Plan de raccordement Lumbreras	Shaft Welle Arbre Eje	Rotation Drehrichtung Direction de rotation Rotacion	Options Opciones

Code	cm^3/U cm^3/tr $cm^3/giro$ in^3/rev
0036	36 / 2.2
0045	41 / 2.5
0050	49 / 3.0
0065	65 / 4.0
0080	82 / 5.0
0100	98 / 6.0
0130	130 / 8.0
0165	163 / 10.0
0195	195 / 11.9
0230	228 / 13.9
0260	260 / 15.9
0295	293 / 17.9
0330	238 / 20.0
0365	370 / 22.6
0390	392 / 24.0

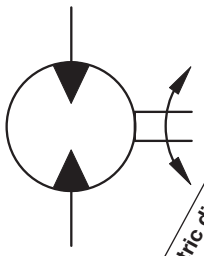
Code	Mounting
F	4 Bolt, 3/8-16 UNC 

Code	Ports
S	7/8-14 SAE 

Code	Rotation
0	Standard 
1	Reverse Timed Manifold 

Code	Shaft
77	1" Square Keyed Stainless Steel 

Code	Options
AAXH	Fluorocarbon Body, Shaft, Dirt & Water Seals. High Temperature Commutator Seals.



Motor Series TS	Geometric displacement cm³/rev in³/rev	Max. speed @ Max. intermittent flow Max. Drehzahl Intermittierender Betrieb: Vitesse de rotation maxi Velocidad maxima a caudal intermitente maximo rev/min	Max. oil flow cont / int* l/min g/min	Max. Schluckstrom cont / int* Débit d'huile maxi cont / int* Caudal Maximo de Aceite bar psid	Max. Differential Pressure max Max. Druckgefälle Chute de pression maxi Presion diferencial maxima bar psig	Max. supply pressure cont / int* Max. Eingangsdruck Pression maxi entrée Presion maxima de alimentacion Nm lb-in	Max. torque max Max. Drehmoment Couple maxi Torque Maximo KW HP	Max. performance cont / int* Max. Leistungabgabe Puissance de sortie maxi Maximo redinmiento Nm lb-in	Min. starting torque Min. Anlaufmoment Couple min. fourni au dé manrage Torque minimo de arranque
TS 0036	**36** 2.2	932	**34** 9 **34** 9	**125** 1800 165 2400	**190** 2750	**48** 427 **67** 596	**6.6** 8.8	**44** 385 **50** 440	
TS 0045	**41** 2.5	805	**34** 9 **34** 9	**125** 1800 **165** 2400	**190** 2750	**64** 526 **88** 731	**7.2** 9.7	**39** 341 **52** 461	
TS 0050	**49** 3.0	678	**34** 9 **34** 9	**125** 1800 **165** 2400	**190** 2750	**78** 693 **107** 946	**7.5** 10.1	**36** 319 **70** 619	
TS 0065	**65** 4.0	511	**34** 9 **34** 9	**125** 1800 **165** 2400	**190** 2750	**107** 946 **145** 1284	**7.8** 10.4	**66** 582 **99** 977	
TS 0080	**82** 5.0	409	**34** 9 **34** 9	**125** 1800 **165** 2400	**190** 2750	**135** 1193 **184** 1624	**7.8** 10.5	**92** 816 **139** 1226	
TS 0100	**98** 6.0	454	**45** 12 **45** 12	**125** 1800 **165** 2400	**190** 2750	**160** 1411 **217** 1917	**10.2** 13.8	**119** 1050 **158** 1400	
TS 0130	**130** 8.0	430	**45** 12 **57** 15	**131** 1900 **131** 1900	**190** 2750	**226** 2000 **226** 2000	**10.1** 13.6	**172** 1520 **172** 1520	
TS 0165	**163** 10.0	343	**45** 12 **57** 15	**103** 1500 **103** 1500	**190** 2750	**226** 2000 **226** 2000	**8.1** 10.9	**165** 1460 **165** 1460	
TS 0195	**195** 11.9	287	**45** 12 **57** 15	**83** 1200 **83** 1200	**190** 2750	**226** 2000 **226** 2000	**6.8** 9.1	**179** 1586 **179** 1586	
TS 0230	**228** 13.9	246	**45** 12 **57** 15	**76** 1100 **76** 1100	**190** 2750	**226** 2000 **226** 2000	**5.8** 7.8	**190** 1680 **190** 1680	
TS 0260	**260** 15.9	216	**45** 12 **57** 15	**69** 1000 **69** 1000	**190** 2750	**226** 2000 **226** 2000	**5.1** 6.9	**188** 1660 **188** 1660	
TS 0295	**293** 17.9	191	**45** 12 **57** 15	**62** 900 **62** 900	**190** 2750	**226** 2000 **226** 2000	**4.6** 6.1	**181** 1600 **181** 1600	
TS 0330	**328** 20.0	171	**45** 12 **57** 15	**41** 600 **41** 600	**190** 2750	**226** 2000 **226** 2000	**4.0** 5.4	**181** 1600 **181** 1600	
TS 0365	**370** 22.6	151	**45** 12 **57** 15	**41** 600 **41** 600	**190** 2750	**226** 2000 **226** 2000	**3.6** 4.8	**191** 1690 **191** 1690	
TS 0390	**392** 24.0	143	**45** 12 **57** 15	**41** 600 **41** 600	**190** 2750	**226** 2000 **226** 2000	**3.4** 4.5	**179** 1580 **179** 1580	

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 donnees 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 donnees 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.

003 TS.indd, js

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

TS 0036

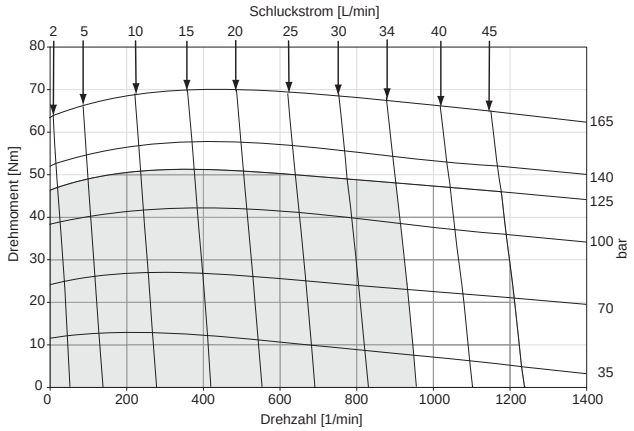
2.2 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2000	2400
.5	109	225	344	419	470	567
	46	**37**	**26**	**20**	**15**	**7**
1	111	230	351	429	478	579
	99	**89**	**78**	**71**	**68**	**58**
2	112	236	363	442	493	598
	203	**192**	**179**	**172**	**170**	**159**
3	112	241	369	449	503	609
	307	**296**	**283**	**276**	**270**	**259**
4	108	241	372	452	508	619
	413	**398**	**383**	**376**	**371**	**360**
5	104	238	370	454	507	621
	517	**502**	**487**	**478**	**473**	**460**
7	88	225	360	444	500	615
	725	**710**	**694**	**681**	**674**	**661**
9	71	207	344	425	483	599
	933	**916**	**896**	**885**	**876**	**862**
12	48	184	321	405	459	572
	1245	**1225**	**1203**	**1192**	**1181**	**1163**

TORQUE (LB IN) 599
SPEED (RPM) 862

36 cc / rev

EU



TS 0045

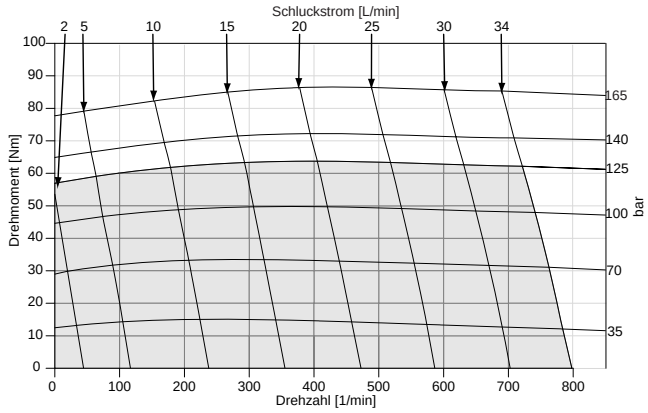
2.5 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2000	2400
.5	119	263	413			
	32	**18**	**3**			
1	123	277	425	518	581	705
	77	**61**	**44**	**37**	**28**	**18**
2	132	290	450	542	606	719
	168	**150**	**131**	**122**	**113**	**97**
3	136	296	462	557	623	748
	256	**239**	**220**	**211**	**199**	**184**
4	132	296	464	567	635	768
	344	**326**	**307**	**296**	**286**	**269**
5	129	290	464	567	639	779
	433	**416**	**394**	**381**	**371**	**352**
7	119	284	460	565	635	779
	610	**590**	**567**	**551**	**541**	**521**
9	109	277	450	555	625	768
	785	**765**	**740**	**723**	**710**	**690**

TORQUE (LB IN) 779
SPEED (RPM) 521

41 cc / rev

EU



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

TS 0050

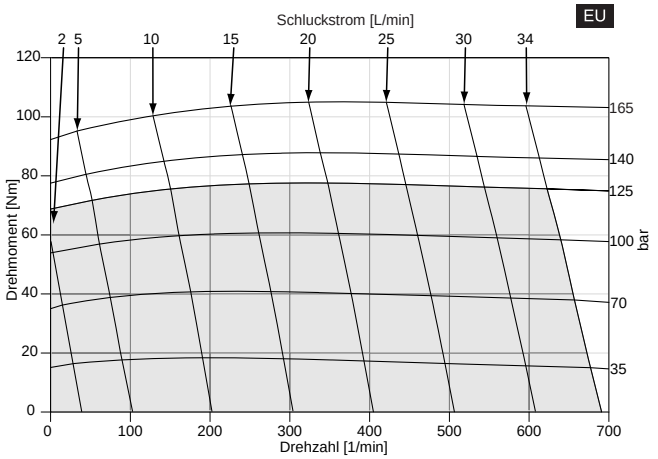
3.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2000	2400
.5	146	324	506			
	25	**13**	**0**			
1	156	338	521	631	701	842
	66	**50**	**35**	**28**	**20**	**9**
2	166	359	555	666	742	877
	141	**127**	**110**	**102**	**94**	**80**
3	162	365	566	688	764	912
	218	**203**	**186**	**176**	**168**	**153**
4	164	361	570	693	775	936
	295	**279**	**261**	**251**	**242**	**227**
5	156	359	568	691	779	947
	372	**355**	**337**	**327**	**317**	**302**
7	146	350	561	691	775	949
	525	**506**	**486**	**474**	**466**	**448**
9	135	338	551	680	766	939
	678	**659**	**638**	**623**	**615**	**596**

TORQUE (LB IN) 939
SPEED (RPM) 596

49 cc / rev

EU



TS 0065

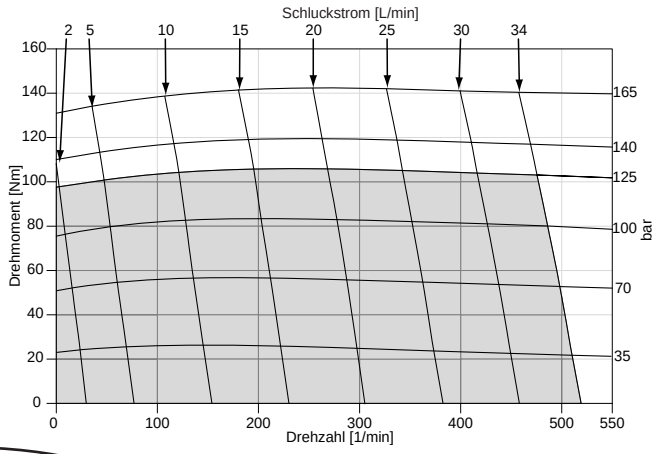
4.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1800	2000	2400
.5	217	459	707	862		
	22	**14**	**6**	**1**		
1	225	479	735	887	992	1194
	51	**42**	**34**	**29**	**24**	**17**
2	237	496	761	921	1028	1225
	108	**98**	**90**	**85**	**81**	**70**
3	237	504	777	941	1045	1251
	166	**156**	**147**	**140**	**136**	**126**
4	228	501	777	946	1054	1273
	224	**214**	**203**	**197**	**192**	**181**
5	225	496	775	946	1059	1282
	281	**271**	**260**	**252**	**247**	**237**
7	208	485	763	938	1051	1282
	396	**385**	**373**	**364**	**359**	**347**
9	194	468	749	924	1037	1265
	511	**499**	**485**	**476**	**470**	**457**

TORQUE (LB IN) 1282
SPEED (RPM) 347

65 cc / rev

EU



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

TS 0080

5.0 cu in / rev

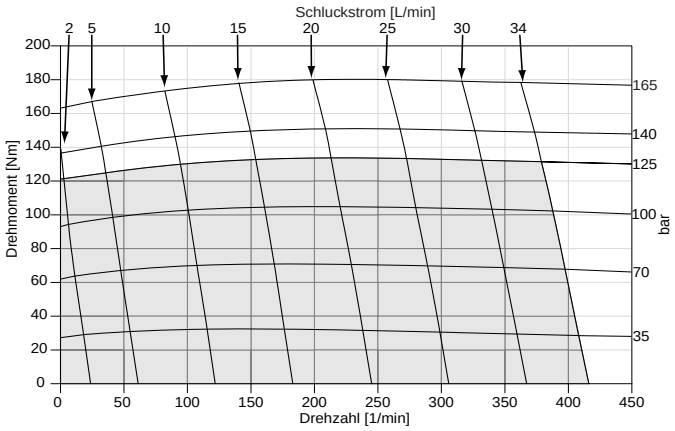
PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1800	2000	2400
.5	259 **18**	563 **10**	881 **5**	1078 **1**		
1	274 **40**	589 **33**	911 **26**	1100 **22**	1230 **19**	1489 **11**
2	285 **86**	615 **78**	952 **70**	1144 **67**	1281 **63**	1530 **53**
3	293 **132**	630 **124**	970 **116**	1174 **110**	1311 **106**	1570 **98**
4	285 **179**	630 **171**	978 **161**	1185 **155**	1330 **152**	1604 **142**
5	285 **226**	626 **216**	978 **206**	1196 **200**	1341 **196**	1626 **185**
7	267 **317**	622 **307**	974 **296**	1189 **290**	1337 **285**	1626 **275**
9	256 **410**	604 **398**	959 **387**	1178 **379**	1322 **375**	1611 **362**

TORQUE (LB IN) 1611
SPEED (RPM) 362

82 cc / rev

EU



TS 0100

6.0 cu in / rev

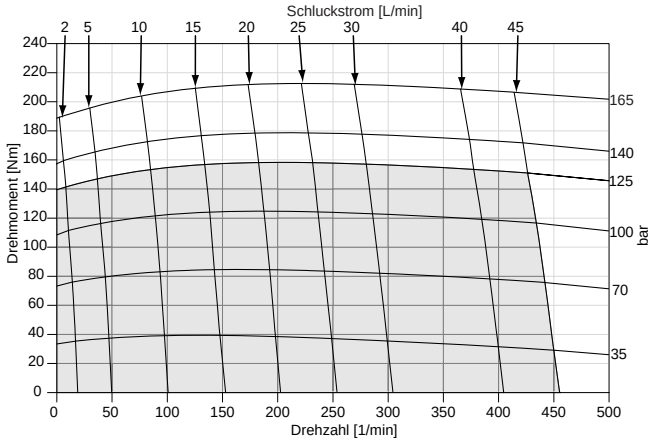
PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1800	2000	2400
.5	316 **16**	674 **13**	1045 **9**	1267 **7**	1411 **4**	1708 **0**
1	327 **34**	698 **32**	1072 **27**	1298 **25**	1454 **23**	1743 **18**
2	339 **74**	725 **69**	1111 **64**	1353 **61**	1509 **58**	1805 **53**
3	351 **111**	741 **107**	1146 **102**	1388 **98**	1544 **95**	1852 **89**
4	351 **148**	752 **143**	1162 **139**	1404 **135**	1571 **132**	1887 **126**
5	347 **187**	749 **183**	1170 **176**	1415 **172**	1583 **169**	1910 **162**
7	320 **264**	737 **257**	1162 **250**	1415 **246**	1587 **242**	1926 **235**
9	308 **339**	721 **333**	1142 **325**	1400 **319**	1571 **316**	1910 **307**
12	257 **454**	674 **446**	1096 **437**	1474 **430**	1524 **426**	1864 **418**

TORQUE (LB IN) 1910
SPEED (RPM) 307

98 cc / rev

EU



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

TS 0130

8.0 cu in / rev

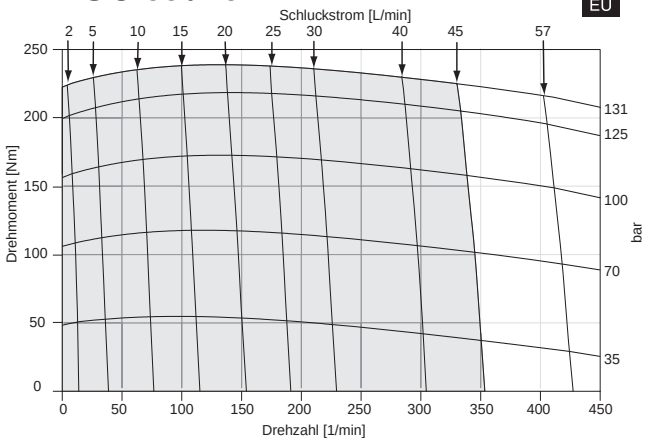
PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1800	1900
.5	455 **11**	966 **10**	1485 **7**	1802 **5**	1897 **4**
1	463 **27**	983 **24**	1511 **21**	1836 **19**	1931 **18**
2	476 **55**	1018 **52**	1563 **49**	1893 **46**	1988 **45**
3	485 **84**	1039 **81**	1594 **77**	1927 **73**	2027 **73**
4	489 **113**	1048 **109**	1611 **105**	1944 **103**	2044 **101**
5	481 **142**	1044 **138**	1615 **133**	1953 **130**	2057 **129**
7	459 **199**	1026 **195**	1598 **190**	1944 **186**	2044 **185**
9	411 **257**	983 **252**	1568 **246**	1914 **242**	2022 **241**
12	342 **343**	914 **338**	1494 **331**	1874 **327**	1953 **325**
15	260 **430**	823 **424**	1394 **416**	1745 **411**	1849 **410**

TORQUE (LB IN) 1953
SPEED (RPM) 325

130 cc / rev

EU



TS 0165

10.0 cu in / rev

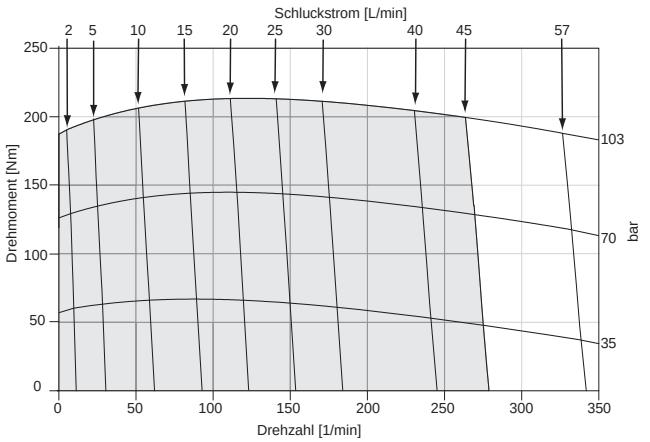
PRESSURE (PSID)

Flow (GPM)	250	500	1000	1250	1500
.5	227 **12**	537 **9**	1148 **7**	1461 **6**	1772 **4**
1	237 **23**	554 **21**	1177 **18**	1496 **16**	1813 **15**
2	247 **46**	578 **44**	1226 **40**	1560 **38**	1891 **37**
3	254 **69**	591 **67**	1263 **63**	1600 **61**	1936 **59**
4	251 **91**	595 **89**	1276 **86**	1621 **84**	1965 **82**
5	239 **115**	587 **113**	1288 **109**	1634 **107**	1981 **104**
7	204 **162**	562 **159**	1267 **154**	1627 **151**	1985 **149**
9	155 **208**	517 **205**	1230 **200**	1594 **197**	1956 **194**
12	61 **277**	427 **274**	1140 **268**	1509 **265**	1874 **261**
15		324 **343**	1029 **337**	1394 **334**	1755 **331**

TORQUE (LB IN) 1956
SPEED (RPM) 194

163 cc / rev

EU



☐ Cont. ☐ Int.

Intermittent operation rating applies to 10% of every minute.

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

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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 donnees 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 donnees 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.

003 TS.indd, js

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

TS 0195

11.9 cu in / rev

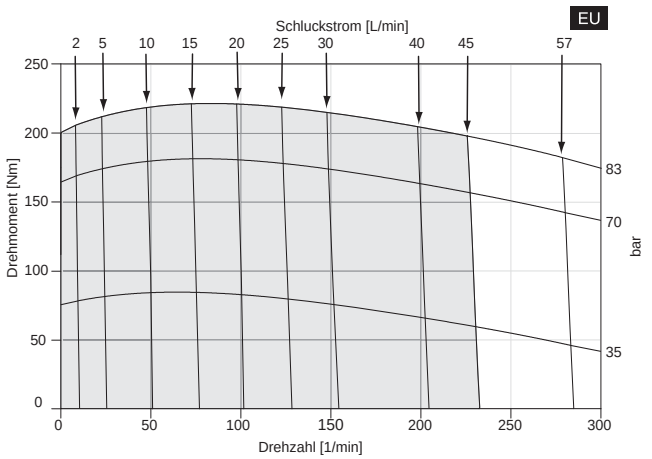
PRESSURE (PSID)

	250	500	750	1000	1200
.5	318 **9.4**	701 **8.9**	1095 **8.5**	1504 **7.7**	1780 **6.8**
1	336 **19**	720 **18**	1119 **17**	1535 **17**	1807 **17**
2	351 **38**	744 **38**	1152 **37**	1579 **36**	1854 **36**
3	363 **58**	760 **57**	1172 **56**	1602 **55**	1882 **54**
4	355 **76**	756 **76**	1173 **75**	1610 **74**	1890 **73**
5	341 **95**	744 **95**	1166 **94**	1610 **93**	1886 **92**
7	300 **135**	705 **134**	1128 **132**	1575 **131**	1850 **130**
9	241 **173**	646 **172**	1069 **170**	1516 **169**	1791 **168**
12	142 **232**	543 **230**	961 **229**	1398 **227**	1677 **226**
15	9 **288**	409 **287**	824 **286**	1256 **284**	1539 **283**

Flow (GPM)

TORQUE (LB IN) 1677
SPEED (RPM) 226

195 cc / rev



TS 0230

13.9 cu in / rev

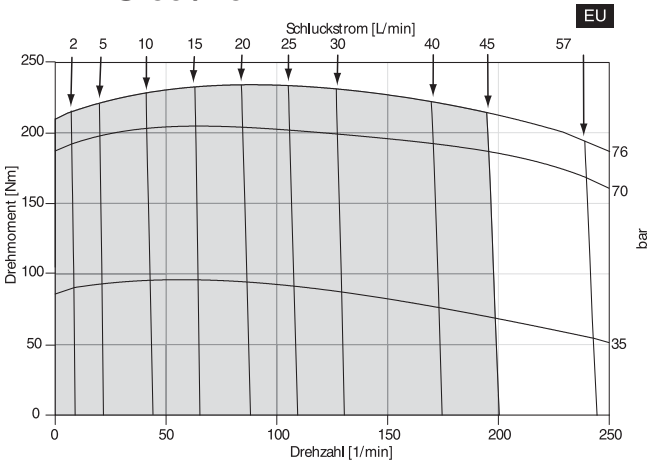
PRESSURE (PSID)

	250	500	750	1000	1100
.5	373 **8.3**	806 **8.2**	1248 **7.8**	1714 **7.2**	1836 **6.9**
1	382 **16.6**	820 **16.4**	1267 **15.8**	1733 **15.1**	1865 **14.8**
2	409 **33**	850 **32**	1298 **32**	1768 **31**	1899 **31**
3	414 **49**	859 **49**	1316 **48**	1802 **47**	1919 **47**
4	408 **66**	854 **65**	1323 **65**	1816 **64**	1938 **64**
5	383 **83**	845 **82**	1318 **81**	1821 **80**	1943 **79**
7	338 **113**	811 **114**	1292 **113**	1797 **112**	1938 **111**
9	261 **147**	747 **147**	1237 **146**	1738 **145**	1899 **144**
12	111 **199**	615 **199**	1120 **197**	1626 **194**	1800 **193**
15		479 **246**	987 **244**	1473 **241**	1650 **240**

Flow (GPM)

TORQUE (LB IN) 1899
SPEED (RPM) 144

228 cc / rev



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

003 TS.indd, js

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

TS 0260

15.9 cu in / rev

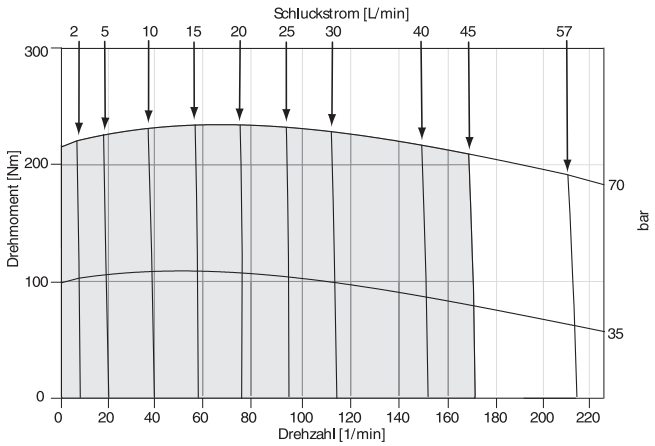
PRESSURE (PSID)

Flow (GPM)	250	500	750	1000
.5	399 **7.2**	915 **6.9**	1431 **6.4**	1948 **6.0**
1	412 **14.5**	936 **14.0**	1460 **13.6**	1984 **13.1**
2	419 **29.0**	956 **28.3**	1493 **27.6**	2030 **26.8**
3	427 **43**	971 **43**	1516 **42**	2060 **41**
4	412 **58**	966 **57**	1521 **57**	2076 **56**
5	401 **71**	961 **71**	1521 **71**	2081 **70**
7	348 **101**	915 **100**	1483 **100**	2050 **99**
9	271 **130**	844 **129**	1416 **128**	1989 **128**
12	133 **174**	706 **173**	1278 **172**	1851 **171**
15		547 **216**	1117 **215**	1687 **214**

TORQUE (LB IN) 1851
SPEED (RPM) 171

260 cc / rev

EU



TS 0295

17.9 cu in / rev

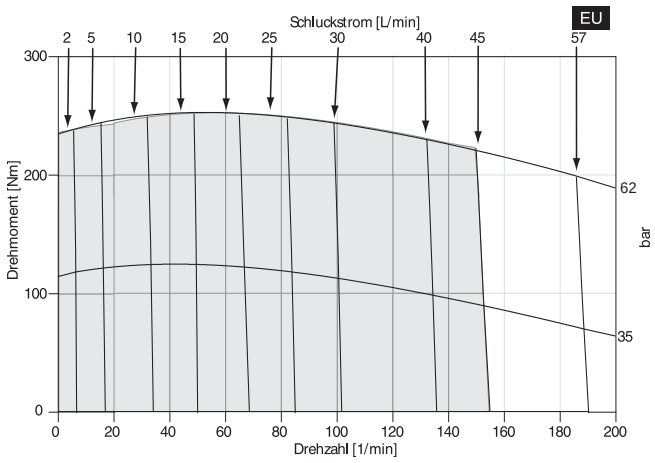
PRESSURE (PSID)

Flow (GPM)	250	500	750	900
.5	384 **6.4**	1048 **6.0**	1713 **5.3**	2111 **4.9**
1	394 **12.6**	1068 **12.2**	1742 **11.7**	2146 **11.4**
2	397 **25.6**	1093 **25.1**	1788 **24.6**	2205 **24.3**
3	406 **39**	1107 **38**	1809 **37**	2229 **36**
4	397 **50**	1107 **50**	1818 **49**	2244 **49**
5	365 **64**	1088 **63**	1810 **62**	2244 **61**
7	316 **90**	1038 **89**	1761 **88**	2195 **87**
9	223 **115**	955 **114**	1687 **113**	2126 **112**
12	60 **154**	792 **153**	1524 **151**	1964 **150**
15		605 **191**	1325 **189**	1757 **188**

TORQUE (LB IN) 2126
SPEED (RPM) 112

293 cc / rev

EU



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

003 TS.indd, js

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

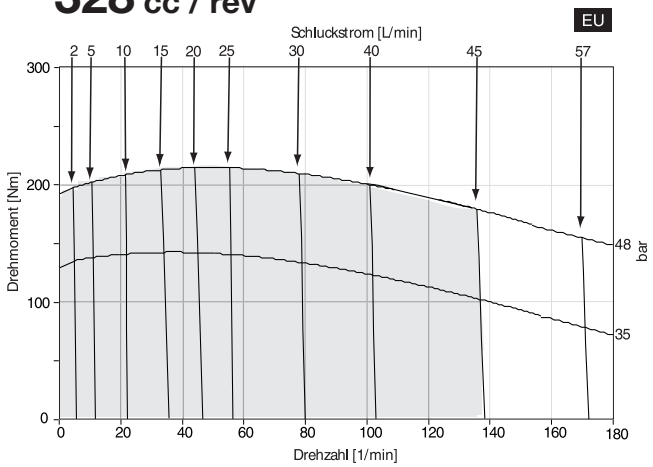
TS 0330

20.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 250	500	600
.5	481 **5.7**	1201 **5.1**	1489 **4.6**
1	469 **11.4**	1229 **11.1**	1533 **10.6**
2	416 **22.8**	1258 **22.5**	1594 **21.7**
3	377 **35**	1270 **34**	1627 **33**
4	323 **46**	1266 **45**	1643 **44**
5	252 **57**	1245 **56**	1643 **56**
7	154 **80**	1189 **79**	1602 **78**
9	55 **103**	1099 **102**	1517 **102**
12		913 **137**	1331 **136**
15		706 **171**	1087 **170**

TORQUE (LB IN) 1517
SPEED (RPM) 102

328 cc / rev



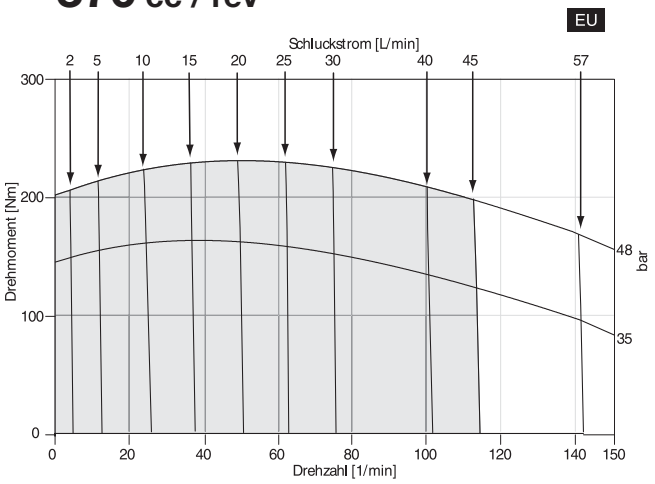
TS 0365

22.6 cu in / rev

Flow (GPM)	PRESSURE (PSID) 250	500	600
.5	680 **5.1**	1405 **4.9**	1650 **4.6**
1	688 **10.2**	1438 **9.8**	1703 **9.7**
2	686 **20.4**	1479 **19.8**	1756 **19.6**
3	692 **30.3**	1495 **30.2**	1784 **30.0**
4	720 **40.2**	1487 **39.9**	1796 **39.8**
5	703 **50.6**	1466 **50.0**	1772 **49.8**
7	572 **70.6**	1373 **70.1**	1695 **69.9**
9	440 **91.4**	1251 **90.3**	1572 **89.9**
12	189 **121.5**	1014 **120.9**	1344 **120.7**
15		701 **151.1**	1022 **150.9**

TORQUE (LB IN) 1695
SPEED (RPM) 69.9

370 cc / rev



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

003 TS.indd, js

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

TS 0390

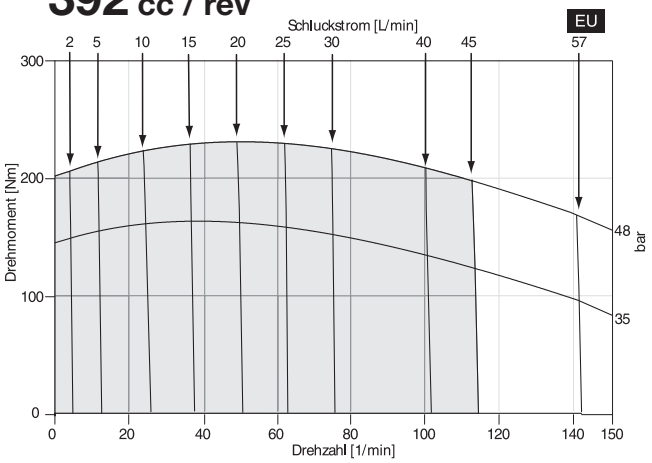
24.0 cu in / rev

PRESSURE (PSID)

Flow (GPM)	250	500	600
.5	604 **4.5**	1324 **4.0**	1492 **3.8**
1	640 **9.3**	1356 **9.2**	1540 **9.0**
2	690 **18.6**	1408 **18.1**	1608 **17.9**
3	700 **28.4**	1440 **28.1**	1664 **27.7**
4	705 **37.5**	1452 **37.0**	1692 **36.8**
5	715 **48.1**	1444 **47.1**	1712 **46.8**
7	642 **67.2**	1392 **66.2**	1692 **65.8**
9	496 **85.6**	1296 **85.1**	1616 **84.9**
12	292 **115.9**	1092 **114.5**	1412 **113.9**
15	62 **144.1**	832 **143.1**	1140 **142.7**

TORQUE (LB IN) 1616
SPEED (RPM) 84.9

392 cc / rev



☐ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

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

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.

003 TS.indd, js

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

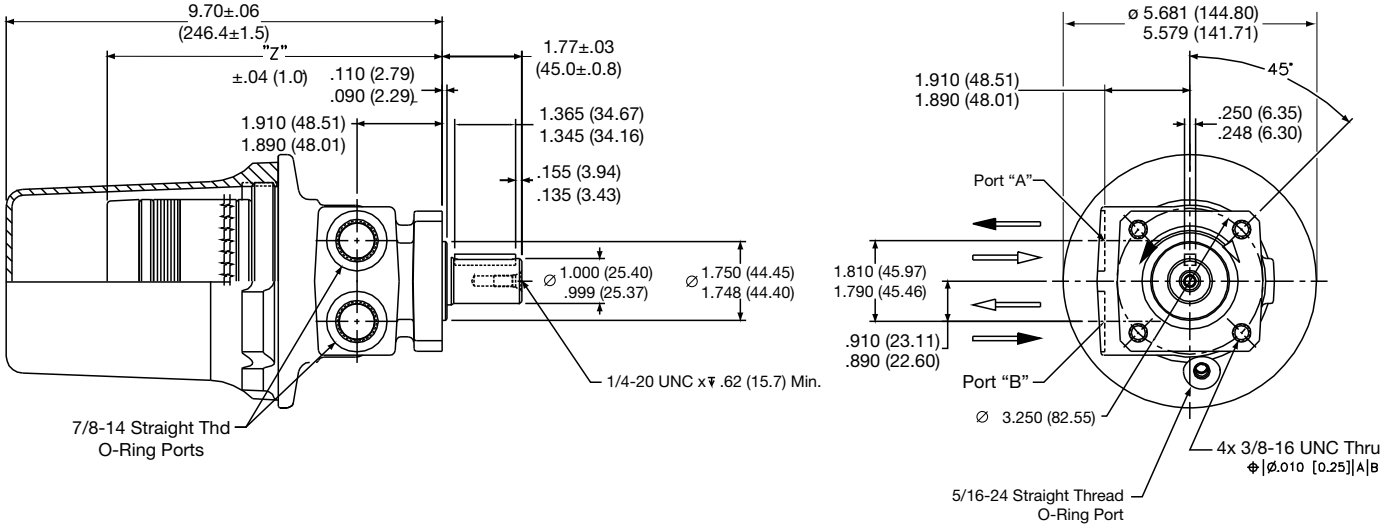
A 5/16-24 straight thread o-ring drain port is provided in the flange of the front housing. This port is to be connected to the reservoir. The purpose of this port is to relieve pressure in the polypropylene rear cover in the rare event of a motor section seal leak.

Maximum side load 300# at 1 inch from mounting face.

Shaft torque is limited to 2000 in-lbs since it is made from 316 stainless steel 1" keyed shaft. Other shaft types or shaft taper locks will increase allowable shaft torque.

Code: FS

4 Bolt,
7/8"-14 SAE
O-Ring



* Do not plug 5/16-24 drain port

Code FS disp.	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Weight/Gewicht kg	**8.3**	**8.3**	**8.4**	**8.5**	**8.7**	**8.8**	**9.0**	**9.3**	**9.8**	**9.9**	**10.1**	**10.3**	**10.7**	**11.0**	**11.1**
Poids/Peso (lb)	(18.3)	(18.4)	(18.5)	(18.8)	(19.1)	(19.4)	(19.9)	(20.6)	(21.5)	(21.8)	(22.3)	(22.8)	(23.5)	(24.2)	(24.5)
Length"Z" mm	**164.4**	**165.5**	**167.0**	**170.2**	**173.3**	**176.5**	**182.9**	**189.2**	**195.6**	**201.9**	**208.3**	**214.6**	**221.0**	**229.6**	**233.7**
"Z" (in)	(6.47)	(6.52)	(6.57)	(6.70)	(6.82)	(6.95)	(7.20)	(7.45)	(7.70)	(7.95)	(8.20)	(8.45)	(8.70)	(9.04)	(9.20)

English equivalents for metric specifications are shown in ( ).

15 Displacements	(2.2 – 24.0 in³/rev)
15 Schluckvolumen	**36 . . . 390 cm³/rev**
15 Cylindrée	
15 Despazamientos	

	Cont	**Int**
Maximum Pressure	(2030 psid)	(2750 psid)
Eingangsdruck	**. . .140 bar**	**. . .190 bar**
Chaute de pression max.		
Presion Maxima		

Maximum Oil Flow	(20 gpm)
Schluckstrom	**. . . 75 lpm**
Débit d'huile	
Caudal Maximo de Aceite	

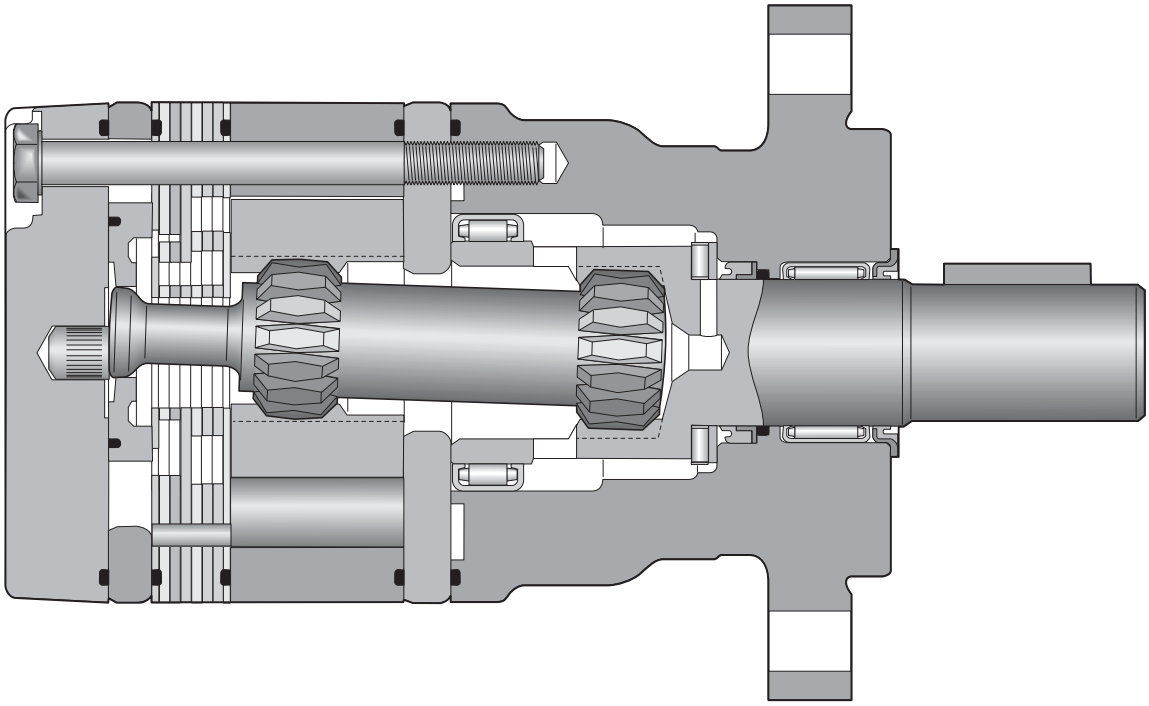
Maximum Speed	(1000 rpm)
Drehzahl	**1000 rpm**
Vitesse de rotation	
Velocidad Maxima	

	Cont	**Int**
Maximum Torque	(4139 lb in)	(5728 lb in)
Max Drehmoment	**467 Nm**	**648 Nm**
Couple Maxi		
Torque Maximo		

Maximum Side Load at Key	(1500 lb)
Seitenlast	**. . . 6650 N**
Charges latèrales	
Carga Maxima Lateral	

An Improved Medium Duty Low Speed, High Torque Motor

This medium duty motor has higher pressure ratings than the TB motor, for applications requiring higher torque. Robust roller bearings withstand higher side loads and are suitable for chain and sprocket shaft connections. It uses high pressure shaft seals, robust roller bearings and high flow shaft seal cooling.



TE

Series

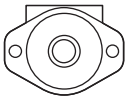
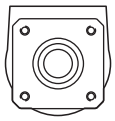
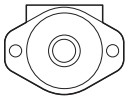
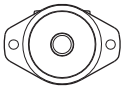
XXXX

Displacement
Schluckvolumen
Cylindrée
Desplazamiento

Code	cm³/U cm³/tr cm³/giro	in ³/rev
0036	36	2.2
0045	41	2.5
0050	49	3.0
0065	65	4.0
0080	82	5.0
0100	98	6.0
0130	130	8.0
0165	163	10.0
0195	195	11.9
0230	228	13.9
0260	260	15.9
0295	293	17.9
0330	328	20.0
0365	370	22.6
0390	392	24.0

X

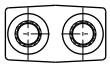
Mounting
Gehäuse
Carter
Montaje

Code	Mounting
A	SAE "A" 2 Bolt, 
F	4 Bolt w/3/8-16 UNC 
M	Magneto 
C	SAE "A" 2 Bolt, Long Pilot 
B	SAE "B" 2 Bolt 
L*	Wheel Mount 
N	Midmount 
U*	Wheel Mount 7/8-14 SAE 

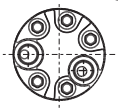
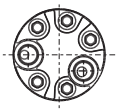
*Not available with port codes M & N

X

Ports
Anschluß
Plan de raccordement
Lumbreras

Code	Ports
M	5/16-18 UNC Manifold 
P	1/2-14 NPTF 
S	7/8-14 SAE 
W	G 1/2 BSPP 
N	M8 Manifold 

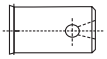
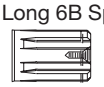
Rear Ports
Endanschluß
Alimentazione Laterale
Orifices arriér

Code	Rear Ports
R	3/4-16 SAE O-ring Axial 
Y	G 1/2 BSPP Axial 

For other available options, see pages 102–103.

XX

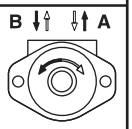
Shaft
Welle
Arbre
Eje

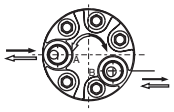
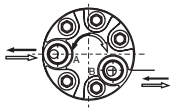
Code	Shaft
09	1" Straight w/0.38" Crosshole 
10	1" Keyed, 
11	1" 6B Spline 
12	Short 1" Tapered 
13	Long 1" Keyed 
21	1" Keyed; Corrosion Resistant 
25	1" Tapered 
26	25mm Keyed w/ 8mm Key 
28	7/8" 13 Tooth Spline 
41	Long 6B Spline 
59*	7/8" 13 Tooth Spline SAE 
70	1" Keyed; Stainless Steel 

* Conforms to SAE B recommended length

0

Rotation
Drehrichtung
Direction de rotation
Rotacion

Code	Rotation
0	Standard 
1	Reverse Timed Manifold 

Code	Rear Port Rotation
0	Standard 
1	Reverse Timed Manifold 

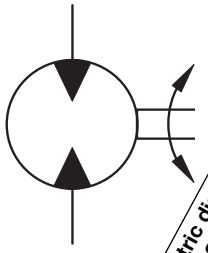
Rotation viewed from shaft end.

XXXX

Options
Opciones

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAAF	Castle Nut, Black Paint
AABP	Castle Nut, No Paint
AAAG	Fluorocarbon Seals, Black Paint
AAAH	Fluorocarbon Seals, No Paint
AAAJ	High Temperature Commutator Seal, Black Paint
AAFG	High Temperature Commutator Seal, No Paint
AABJ*	Free Running Rotorset, Black Paint
AABK*	Free Running Rotorset, No Paint

*Not applicable to TE0365 or TE0390 displacements



Motor Series TE	Geometric displacement Geom. Schluckvolumen Cylindrée Despazamientos cm³/rev in³/rev	Max. speed @ Max. intermittent flow Max. Drehzahl Intermittierender Betrieb: Vitesse de rotation maxi Velocidad maxima a caudal intermitente maximo *Int* rev/min	Max. oil flow Max. Schluckstrom Débit d'huile maxi Caudal Maximo de Aceite *cont / int** l/min g/min		Max. Differential Pressure Max. Druckgefälle Chute de pression maxi Presion diferencial maxima *cont / int** bar psid		Max. supply pressure Max. Eingangsdruck Pression maxi entrée Presion maxima de alimentacion *max* bar psig	Max. torque Max. Drehmoment Couple maxi Torque Maximo *cont / int** Nm lb-in		Max. performance Max. Leistungabgabe Puissance de sortie maxi Maximo redinmiento *max* KW HP	Min. starting torque Min. Anlaufmoment Couple min. fourni au dé manrage Torque minimo de arranque *cont / int** Nm lb-in	
TE 0036	**36** 2.2	1141	**34** 9	**42** 11	**140** 2030	**190** 2750	**200** 2900	**54.6** 483	**71.1** 630	**8.5** 11.4	**44** 389	**52** 460
TE 0045	**41** 2.5	1024	**34** 9	**42** 11	**140** 2030	**190** 2750	**200** 2900	**71** 624	**99** 876	**10.4** 13.9	**44** 411	**64** 565
TE 0050	**49** 3.0	1020	**34** 9	**50** 13	**140** 2030	**190** 2750	**200** 2900	**90** 796	**127** 1120	**12.8** 17.2	**72** 637	**98** 871
TE 0065	**65** 4.0	877	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**125** 1106	**176** 1558	**14.7** 19.8	**100** 885	**137** 1211
TE 0080	**82** 5.0	695	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**160** 1416	**220** 1947	**17.3** 23.2	**128** 1133	**171** 1515
TE 0100	**98** 6.0	582	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**190** 1682	**264** 2337	**17.4** 23.4	**152** 1345	**205** 1819
TE 0130	**130** 8.0	438	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**255** 2257	**352** 3116	**17.3** 23.2	**204** 1806	**274** 2423
TE 0165	**163** 10.0	348	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**310** 2744	**436** 3846	**17.0** 22.8	**248** 2195	**338** 2992
TE 0195	**195** 11.9	292	**45** 12	**57** 15	**140** 2030	**190** 2750	**200** 2900	**390** 3452	**528** 4673	**17.4** 23.4	**312** 2762	**411** 3637
TE 0230	**228** 13.9	328	**57** 15	**75** 20	**120** 1740	**165** 2400	**200** 2900	**380** 3363	**514** 4554	**17.7** 23.8	**304** 2691	**411** 3637
TE 0260	**260** 15.9	287	**57** 15	**75** 20	**110** 1595	**155** 2250	**200** 2900	**400** 3540	**550** 4870	**16.7** 22.4	**320** 2832	**449** 3977
TE 0295	**293** 17.9	256	**57** 15	**75** 20	**100** 1450	**145** 2100	**200** 2900	**428** 3784	**582** 5180	**15.7** 21.0	**328** 2903	**445** 3939
TE 0330	**328** 20.0	228	**57** 15	**75** 20	**100** 1450	**135** 1950	**200** 2900	**443** 3926	**600** 5312	**14.8** 19.8	**344** 3045	**453** 4014
TE 0365	**370** 22.6	203	**57** 15	**75** 20	**95** 1378	**125** 1825	**200** 2900	**467** 4133	**648** 5728	**13.6** 18.2	**373** 3301	**477** 4223
TE 0390	**392** 24.0	191	**57** 15	**75** 20	**85** 1233	**120** 1740	**200** 2900	**445** 3935	**628** 5562	**12.5** 16.8	**348** 3080	**462** 4090

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 donnees 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 donnees 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.

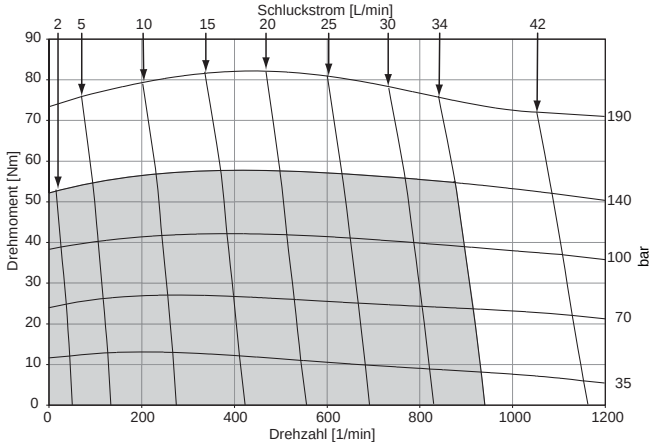
Capacidad de funcionamiento intermitente valida para 10% por cada minuto.

TE 0036

2.2 cu in / rev

Flow (GPM) \ PRESSURE (PSID)	500	1000	1500	2000	2750
.5	111 **44**	225 **37**	346 **25**	470 **15**	
1	113 **96**	231 **86**	353 **77**	480 **67**	670 **40**
2	115 **202**	239 **190**	365 **179**	495 **169**	691 **140**
3	113 **307**	241 **296**	371 **282**	505 **269**	709 **240**
4	109 **411**	241 **397**	373 **384**	509 **371**	722 **340**
5	103 **516**	237 **501**	371 **486**	509 **470**	726 **440**
7	87 **724**	225 **709**	361 **691**	501 **674**	711 **641**
9	72 **933**	208 **916**	344 **897**	482 **877**	672 **841**
11	54 **1142**	190 **1117**	326 **1096**	462 **1075**	629 **1045**

36 cc / rev EU



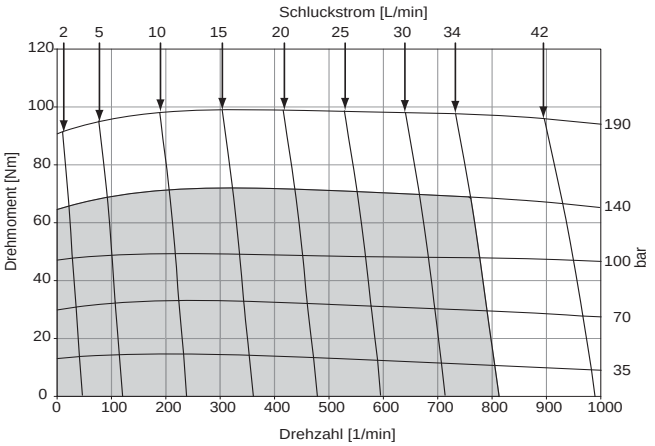
TORQUE (LB IN) 711
SPEED (RPM) 641

TE 0045

2.5 cu in / rev

Flow (GPM) \ PRESSURE (PSID)	500	1000	1500	2000	2750
.5	121 **41**	272 **35**	425 **28**	579 **22**	808 **10**
1	126 **86**	282 **79**	440 **72**	599 **65**	832 **50**
2	128 **176**	288 **168**	452 **161**	619 **152**	867 **134**
3	126 **266**	287 **257**	453 **249**	620 **239**	868 **221**
4	123 **356**	285 **346**	454 **337**	624 **326**	876 **306**
5	119 **446**	281 **435**	451 **425**	624 **413**	877 **391**
7	105 **625**	270 **613**	440 **601**	615 **587**	872 **562**
9	94 **805**	259 **791**	430 **777**	605 **761**	862 **733**
11	81 **983**	246 **967**	415 **950**	590 **930**	849 **896**

41 cc / rev EU



TORQUE (LB IN) 872
SPEED (RPM) 562

■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TE 0050

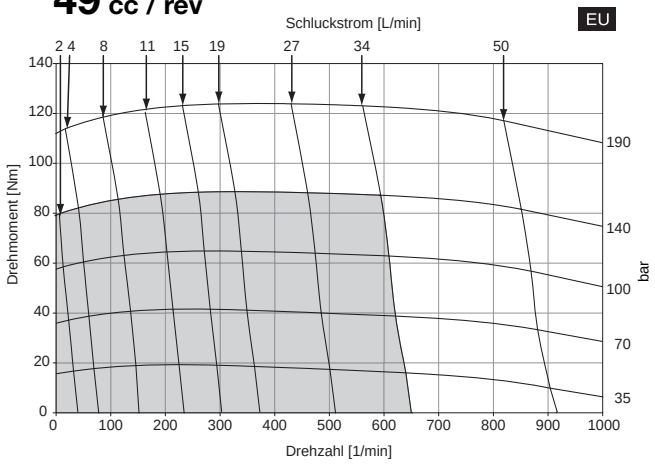
3.0 cu in / rev

PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000	2750
.5	146 **32**	327 **23**	513 **13**	705 **6**	
1	159 **69**	345 **60**	537 **50**	727 **41**	1005 **17**
2	170 **145**	364 **136**	563 **124**	764 **113**	1057 **85**
3	167 **225**	363 **214**	565 **203**	768 **191**	1066 **163**
4	169 **294**	367 **282**	574 **271**	784 **260**	1092 **231**
5	165 **363**	365 **349**	574 **339**	785 **327**	1097 **297**
7	156 **501**	357 **485**	568 **474**	782 **460**	1096 **430**
9	141 **640**	342 **621**	555 **609**	771 **594**	1087 **561**
13	88 **904**	295 **881**	503 **869**	722 **851**	1036 **819**

TORQUE (LB IN) 1096
SPEED (RPM) 430

49 cc / rev



TE 0065

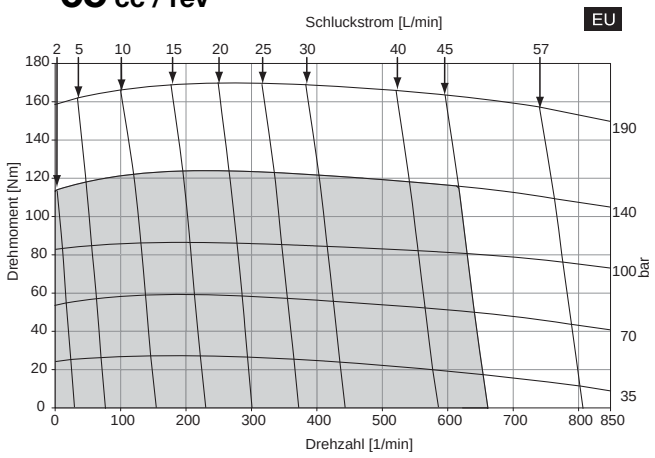
4.0 cu in / rev

PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000	2750
.5	220 **24**	481 **17**	743 **11**	1004 **3**	
1	232 **52**	498 **45**	763 **38**	1025 **31**	1411 **19**
2	239 **109**	512 **102**	789 **94**	1066 **85**	1469 **65**
3	238 **167**	512 **159**	790 **151**	1068 **141**	1474 **120**
4	237 **224**	514 **215**	795 **207**	1078 **197**	1492 **179**
5	233 **279**	511 **271**	794 **262**	1080 **252**	1502 **234**
7	216 **386**	497 **376**	783 **366**	1072 **356**	1497 **336**
9	195 **494**	477 **483**	764 **472**	1054 **460**	1481 **439**
12	152 **654**	435 **641**	724 **629**	1017 **617**	1445 **596**
15	102 **802**	388 **789**	676 **776**	969 **763**	1391 **740**

TORQUE (LB IN) 1497
SPEED (RPM) 336

65 cc / rev



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TE 0080 — 5.0 cu in / rev

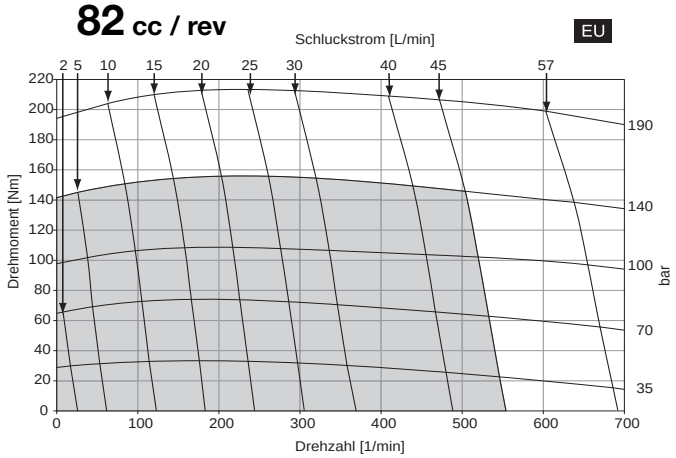
PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000	2750
.5	261 **17**	575 **8**			
1	276 **39**	596 **30**	918 **23**	1245 **13**	
2	290 **85**	631 **76**	974 **68**	1310 **56**	1784 **35**
3	291 **131**	633 **122**	978 **113**	1319 **101**	1819 **79**
4	293 **177**	642 **167**	995 **158**	1347 **146**	1854 **121**
5	290 **223**	641 **213**	999 **203**	1359 **191**	1884 **165**
7	273 **316**	628 **304**	989 **293**	1353 **280**	1890 **253**
9	249 **408**	603 **396**	966 **384**	1334 **370**	1873 **340**
12	197 **546**	551 **533**	916 **519**	1287 **504**	1827 **472**
15	136 **686**	494 **670**	857 **655**	1226 **638**	1762 **603**

Flow (GPM)

TORQUE (LB IN) 1890
SPEED (RPM) 253

82 cc / rev



TE 0100 — 6.0 cu in / rev

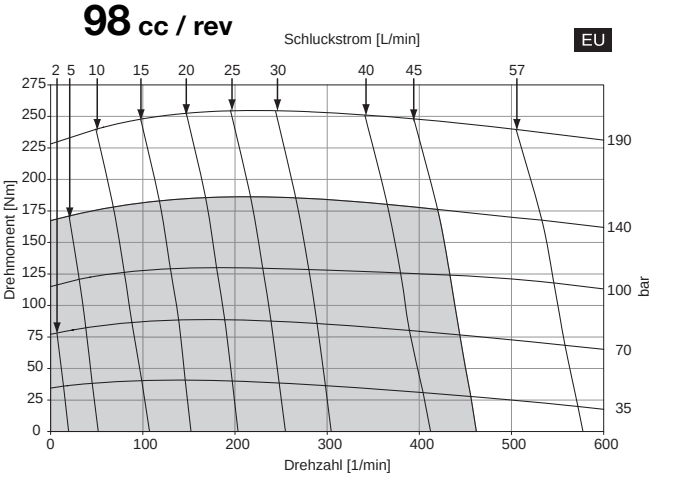
PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000	2750
.5	315 **14**	687 **7**			
1	332 **33**	710 **26**	1083 **18**	1460 **9**	
2	348 **71**	751 **64**	1152 **55**	1541 **45**	2089 **27**
3	350 **109**	756 **102**	1160 **92**	1556 **83**	2138 **62**
4	353 **147**	768 **140**	1185 **130**	1596 **120**	2189 **99**
5	349 **186**	771 **178**	1197 **168**	1622 **158**	2235 **137**
7	330 **263**	759 **254**	1191 **244**	1624 **232**	2258 **209**
9	302 **340**	731 **330**	1167 **319**	1606 **307**	2246 **284**
12	243 **456**	671 **444**	1111 **433**	1555 **420**	2198 **394**
15	176 **572**	606 **558**	1042 **546**	1484 **533**	2121 **505**

Flow (GPM)

TORQUE (LB IN) 2258
SPEED (RPM) 209

98 cc / rev



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

TE 0130

8.0 cu in / rev

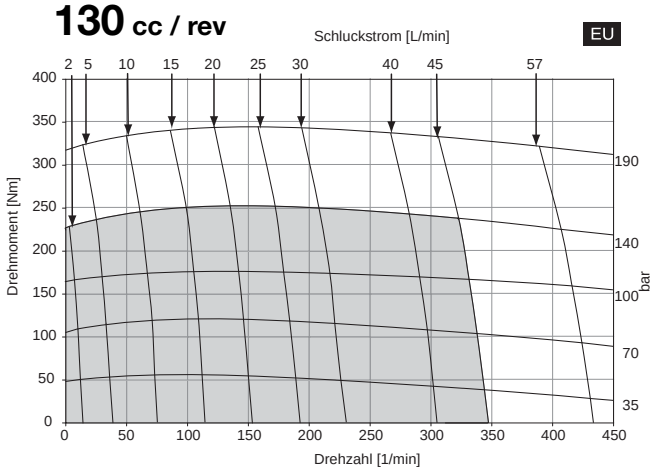
	PRESSURE (PSID) 500	1000	1500	2000	2750
.5	445 **12**	962 **10**	1488 **7**	2018 **3**	
1	464 **27**	996 **24**	1525 **21**	2051 **17**	2835 **5**
2	482 **55**	1032 **53**	1584 **49**	2136 **44**	2940 **31**
3	483 **84**	1037 **81**	1594 **77**	2150 **72**	2961 **60**
4	483 **113**	1051 **110**	1619 **105**	2184 **100**	3015 **87**
5	478 **142**	1050 **138**	1625 **133**	2201 **128**	3050 **114**
7	450 **200**	1029 **195**	1613 **190**	2195 **183**	3054 **169**
9	414 **257**	993 **252**	1579 **247**	2166 **239**	3030 **224**
12	338 **344**	915 **338**	1503 **331**	2096 **323**	2961 **306**
15	252 **431**	827 **424**	1408 **416**	1996 **407**	2851 **389**

Flow (GPM)

TORQUE (LB IN) 3054
SPEED (RPM) 169

130 cc / rev

EU



TE 0165

10.0 cu in / rev

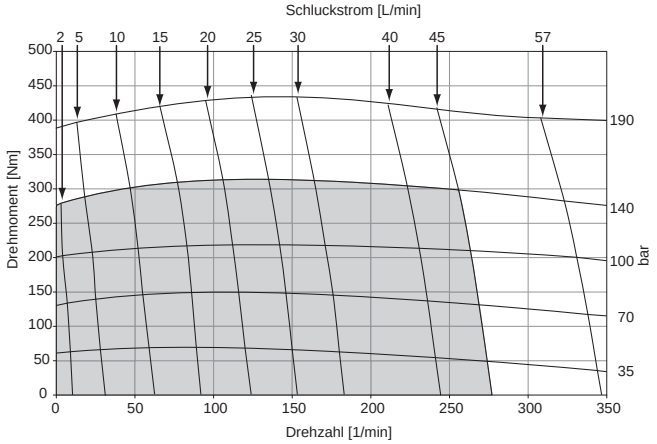
	PRESSURE (PSID) 500	1000	1500	2000	2750
.5	552 **9**	1175 **7**	1813 **4**	2457 **3**	
1	574 **21**	1213 **18**	1856 **16**	2499 **12**	3465 **7**
2	597 **44**	1263 **41**	1938 **38**	2614 **33**	3604 **25**
3	600 **67**	1273 **64**	1955 **60**	2634 **55**	3628 **46**
4	603 **90**	1299 **87**	1997 **83**	2691 **78**	3705 **67**
5	597 **113**	1302 **109**	2015 **105**	2727 **100**	3767 **89**
7	569 **159**	1286 **155**	2009 **150**	2732 **144**	3791 **133**
9	523 **205**	1244 **201**	1976 **195**	2707 **189**	3773 **177**
12	429 **274**	1152 **269**	1890 **263**	2630 **256**	3701 **242**
15	316 **344**	1039 **338**	1769 **331**	2500 **323**	3568 **308**

Flow (GPM)

TORQUE (LB IN) 3791
SPEED (RPM) 133

163 cc / rev

EU



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

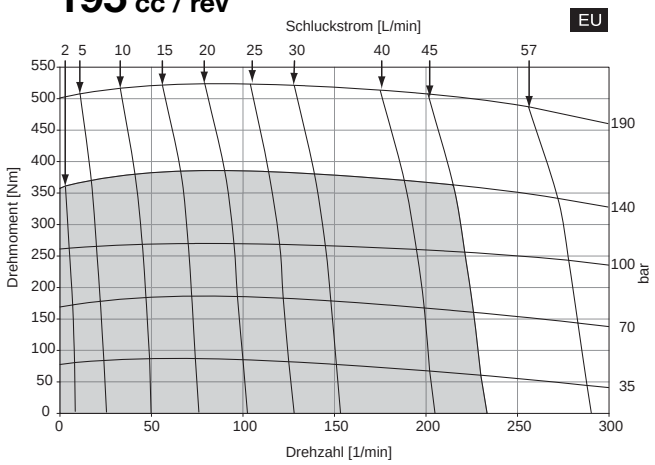
TE 0195

11.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	2000	2750
.5	710 **8**	1519 **7**	2344 **5**	3182 **3**	
1	736 **18**	1558 **16**	2387 **14**	3221 **12**	4457 **6**
2	758 **37**	1596 **35**	2445 **33**	3302 **30**	4558 **22**
3	758 **56**	1604 **54**	2459 **51**	3315 **48**	4576 **39**
4	757 **75**	1618 **73**	2482 **70**	3346 **67**	4619 **56**
5	747 **95**	1615 **92**	2488 **89**	3360 **85**	4643 **74**
7	705 **133**	1586 **130**	2467 **127**	3343 **122**	4631 **111**
9	646 **172**	1528 **169**	2415 **165**	3300 **160**	4590 **147**
12	530 **230**	1408 **226**	2303 **221**	3197 **215**	4494 **201**
15	394 **288**	1273 **283**	2147 **278**	3027 **272**	4308 **256**

Flow (GPM)

195 cc / rev



TORQUE (LB IN) 4631
SPEED (RPM) 111

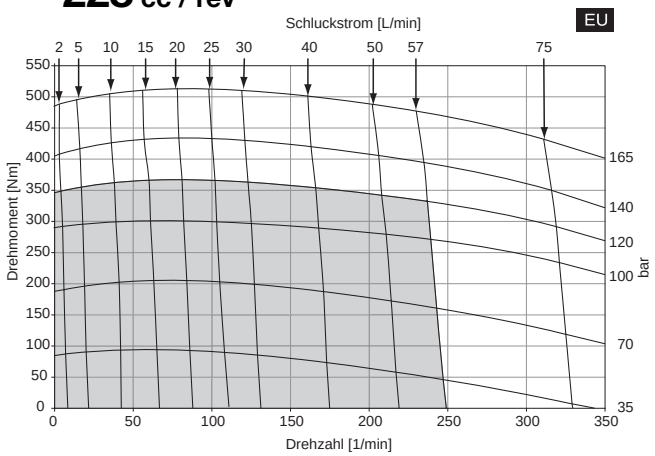
TE 0230

13.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1750	2000	2400
.5	761 **7**	1673 **6**	2614 **5**	3094 **4**	3584 **3**	4331 **3**
1	791 **15**	1712 **14**	2650 **13**	3128 **12**	3615 **11**	4366 **9**
2	819 **32**	1764 **30**	2726 **29**	3208 **28**	3692 **26**	4448 **24**
3	819 **48**	1771 **47**	2737 **45**	3226 **44**	3718 **42**	4482 **41**
4	821 **65**	1787 **63**	2765 **61**	3256 **60**	3750 **58**	4520 **56**
5	808 **81**	1786 **79**	2777 **77**	3277 **76**	3778 **74**	4554 **73**
7	770 **114**	1756 **112**	2755 **109**	3255 **108**	3760 **106**	4535 **104**
9	705 **147**	1699 **145**	2710 **142**	3216 **140**	3724 **138**	4496 **137**
12	581 **197**	1582 **194**	2595 **191**	3103 **189**	3617 **186**	4382 **183**
15	400 **247**	1409 **243**	2437 **239**	2949 **237**	3466 **235**	4216 **230**
20	64 **329**	1052 **325**	2067 **321**	2580 **319**	3100 **316**	3814 **311**

Flow (GPM)

228 cc / rev



TORQUE (LB IN) 1894
SPEED (RPM) 198

■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

004 TE.indd, js

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

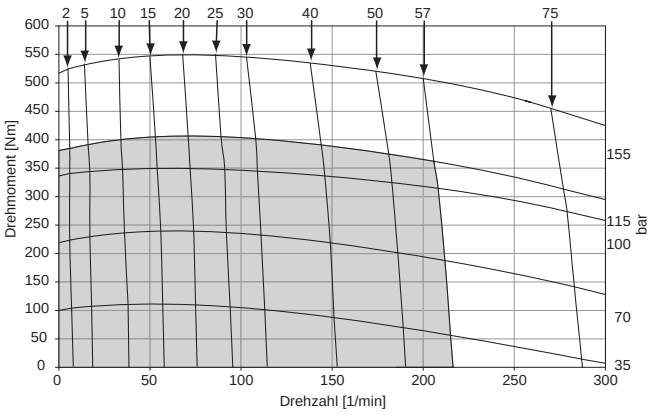
TE 0260

15.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1650	2250
.5	908 **7**	1961 **6**	3048 **6**	3380 **6**	4631 **5**
1	938 **14**	2006 **13**	3099 **13**	3433 **12**	4692 **11**
2	971 **28**	2059 **27**	3165 **26**	3501 **26**	4779 **23**
3	968 **43**	2065 **42**	3177 **40**	3514 **39**	4797 **38**
4	970 **57**	2081 **56**	3203 **54**	3541 **53**	4837 **50**
5	957 **71**	2084 **70**	3219 **68**	3561 **67**	4870 **64**
7	907 **100**	2049 **98**	3198 **96**	3542 **95**	4856 **91**
9	837 **129**	1985 **127**	3143 **124**	3489 **123**	4799 **117**
12	692 **172**	1844 **169**	3016 **166**	3367 **164**	4671 **157**
15	489 **215**	1647 **212**	2830 **208**	3188 **206**	4494 **200**
20	129 **287**	1255 **283**	2418 **279**	2773 **277**	4031 **270**

260 cc / rev

EU



TORQUE (LB IN) 4856
SPEED (RPM) 91

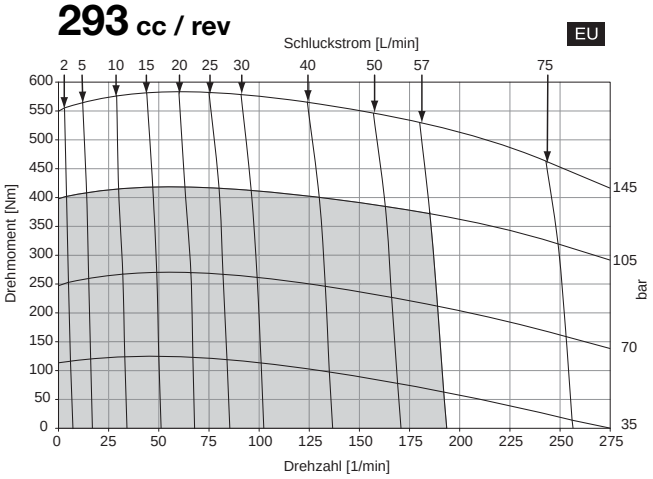
TE 0295

17.9 cu in / rev PRESSURE (PSID)

Flow (GPM)	500	1000	1500	1550	2100
.5	1014 **6**	2216 **5**	3453 **4**	3576 **4**	4900 **3**
1	1051 **12**	2270 **11**	3509 **10**	3633 **10**	4963 **8**
2	1088 **25**	2334 **24**	3600 **22**	3727 **22**	5092 **21**
3	1085 **38**	2338 **36**	3611 **35**	3739 **34**	5110 **33**
4	1085 **50**	2353 **49**	3639 **47**	3769 **47**	5152 **44**
5	1072 **63**	2352 **62**	3654 **60**	3784 **59**	5180 **57**
7	1019 **89**	2311 **87**	3624 **85**	3755 **84**	5159 **80**
9	939 **115**	2237 **113**	3561 **110**	3693 **110**	5098 **104**
12	776 **153**	2074 **151**	3403 **148**	3537 **147**	4931 **142**
15	545 **192**	1853 **189**	3184 **186**	3319 **185**	4689 **180**
20	126 **256**	1408 **253**	2697 **249**	2826 **249**	4099 **243**

293 cc / rev

EU



TORQUE (LB IN) 5159
SPEED (RPM) 80

■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

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.

004 TE.indd, js

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

TE 0330

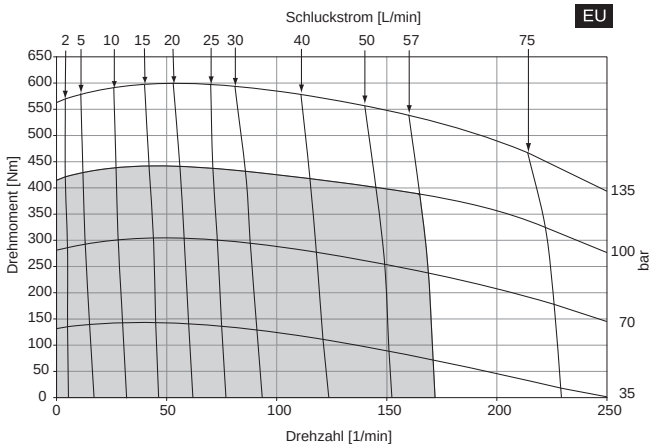
20.0 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1500	1950
.5	1184 **5**	2507 **5**	3722 **4**	5040 **3**
1	1218 **11**	2558 **10**	3772 **9**	5093 **8**
2	1258 **22**	2632 **21**	3867 **20**	5224 **19**
3	1251 **34**	2633 **32**	3879 **31**	5242 **30**
4	1249 **45**	2649 **44**	3909 **42**	5287 **40**
5	1229 **57**	2648 **55**	3926 **53**	5312 **50**
7	1162 **80**	2600 **78**	3898 **75**	5296 **71**
9	1064 **103**	2518 **100**	3829 **98**	5219 **93**
12	875 **137**	2333 **135**	3657 **131**	5026 **127**
15	621 **171**	2081 **169**	3420 **165**	4770 **160**
20	163 **229**	1576 **226**	2875 **222**	4129 **214**

TORQUE (LB IN) 5219
SPEED (RPM) 93

328 cc / rev

EU



TE 0365

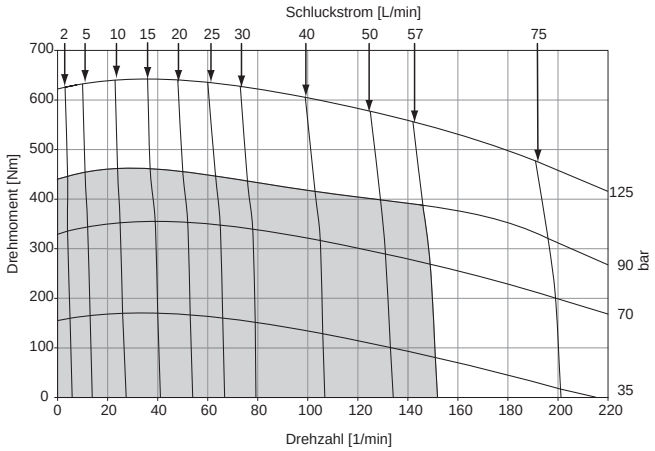
22.6 cu in / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1325	1825
.5	1393 **5**	2942 **4**	3974 **4**	5539 **3**
1	1444 **10**	3005 **9**	4036 **8**	5599 **7**
2	1494 **20**	3090 **19**	4131 **18**	5714 **17**
3	1485 **30**	3082 **29**	4125 **28**	5709 **27**
4	1477 **40**	3089 **39**	4139 **37**	5728 **36**
5	1452 **50**	3075 **49**	4130 **47**	5719 **45**
7	1371 **70**	3009 **69**	4071 **67**	5654 **63**
9	1260 **90**	2899 **89**	3669 **87**	5543 **84**
12	1002 **121**	2658 **119**	3737 **117**	5283 **113**
15	700 **151**	2355 **149**	3432 **146**	4937 **142**
20	152 **201**	1776 **199**	2838 **196**	4228 **191**

TORQUE (LB IN) 5543
SPEED (RPM) 84

370 cc / rev

EU



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

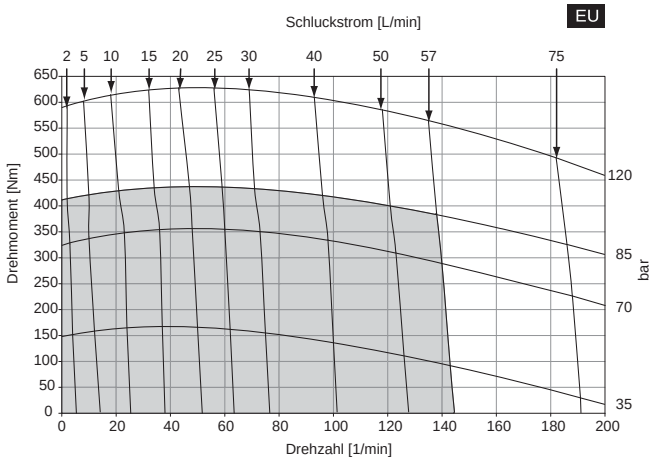
Leistungsdaten sind gemessen mit SAE 10W40 bei einer Viskositaet von 43,1 Cst bei 54°C. Geringfuegige Abweichungen von den Katalogdaten sind moeglich.

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.

TE 0390 **24.0** cu in / rev **392** cc / rev

Flow (GPM)	PRESSURE (PSID) 500	1000	1250	1750
.5	1326 **4**	2889 **3**	3682 **2**	5244 **2**
1	1380 **9**	2934 **7**	3724 **7**	5283 **6**
2	1443 **18**	3034 **17**	3840 **15**	5427 **13**
3	1442 **28**	3049 **26**	3861 **25**	5458 **22**
4	1454 **37**	3084 **36**	3905 **34**	5518 **32**
5	1447 **47**	3104 **45**	3935 **44**	5562 **40**
7	1393 **66**	3080 **64**	3923 **62**	5559 **60**
9	1297 **85**	3013 **83**	3868 **81**	5507 **79**
12	1088 **114**	2818 **112**	3686 **110**	5308 **106**
15	797 **143**	2539 **140**	3414 **138**	5002 **135**
20	264 **191**	2006 **188**	2880 **186**	4374 **182**

TORQUE (LB IN) 5559
SPEED (RPM) 60



■ 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 donnees 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 donnees reelles peuvent varier legerement d'un moteur de production a l'autre.

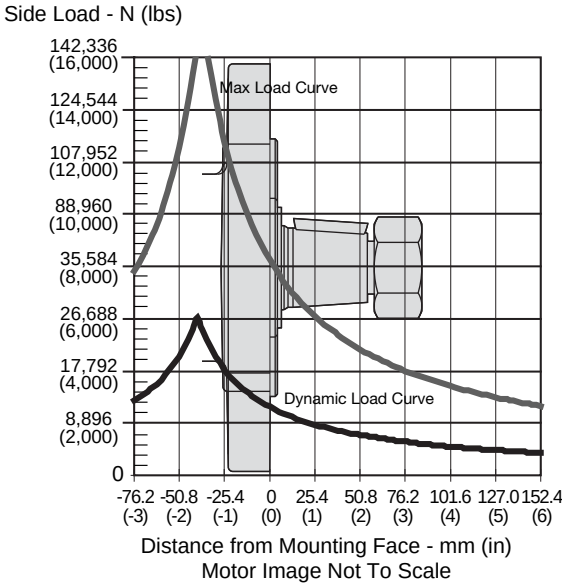
Intermittierende Werte maximal 10% von jeder Betriebsminute.

Capacidad de funcionamiento intermitente valida para 6 segundos por cada minuto.

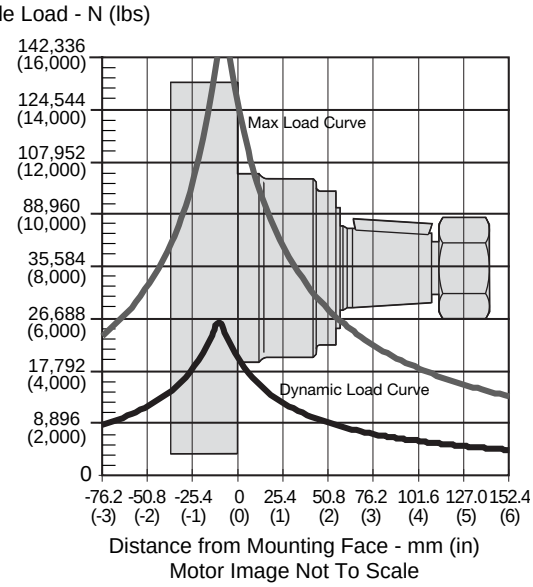
Leistungsdaten sind gemessen mit SAE 10W40 bei einer Viskositaet von 43,1 Cst bei 54°C. Geringfuegige Abweichungen von den Katalogdaten sind moeglich.

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.

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



Wheel Mount / Radnabengehaeuse
Monture à roue / Montaje de rueda



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.

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
Gelichung 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.

$$L = \frac{3.0 \times 10^6}{60 \times S} \left\{\frac{F_a}{F_b}\right\}^{3.33}$$

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} Lenbendauer nach ISO 281