Parker Hydraulics

Torqlink™ Series

Small and Large Frame
Low Speed High Torque
Hydraulic Motors

Catalog No. 1510-20-002/USA
November, 1997

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PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Torqlink™ Series Small and Large Frame

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Warning

This Catalog is not a Controlled Document. All Dimensions listed herein are for reference only. Consult a Sales engineer for detailed information.

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Excellence of Design

The producers of Parker Hannifin's **Torqlink™** Series motors have a history of manufacturing reliable, precision parts that stretches back over ninety years. Milestones include the first patent on roller vane rotor sets for low speed, high torque hydraulic motors. That was thirty years ago. Today the technological advances continue.

In the Development Laboratory, engineers continuously measure and analyze motor data to move existing products to even higher levels of performance and to develop new products to serve the ever changing needs of our customers. Design integrity is assured by exhaustive testing on endurance stands. To be sure that this translates into superior performance, advanced manufacturing techniques are employed as well.

Excellence of Manufacturing

Central to manufacturing excellence is the understanding that quality parts make quality motors. The instrumentation in our Quality Assurance laboratory includes devices such as coordinate measuring machines, to accurately measure the parts that we manufacture as well as those that we purchase. Quality cannot be inspected in, however. It must be manufactured. Each machine operator is responsible for the quality of the part that comes off that machine. Efficiency is enhanced by our cellular manufacturing techniques. Accuracy is assured by statistical process control methods. Micrometers and specialized gages are at the disposal of the operator. As a final check, every motor is tested before shipment to our customer. Parker understands that our customers cannot produce quality products unless we do.

Quick Reference Data Chart			
Series	**TA**	**TB**	**TD**
Displacement cc/rev (cu in/rev)	45 - 392 (2.7 - 24.0)	45 - 392 (2.7 - 24.0)	45 - 392 (2.7 - 24.0)
Max Continuous Pressure bar (psi)	86.2 (1250)	124.1 (1800)	137.9 (2000)
Max Intermittent Pressure bar (psi)	120.7 (1750)	165.5 (2400)	172.4 (2500)
Max Continuous Torque nm (lb in)	215.2 (1905)	428.4 (3792)	444.6 (3935)
Max Intermittent Torque nm (lb in)	306.1 (2709)	524.5 (4642)	538.7 (4768)
Max Continuous Flow LPM (GPM)	45 (12)	45 (12)	57 (15)
Max Intermittent Flow LPM (GPM)	57 (15)	57 (15)	76 (20)
Max Speed RPM	810	785	835
Max Radial Load daN (lb)	625 (1405)	704 (1582)	1100 (2473)

Compact Power In An Economical Package

Use of a shaft speed disc valve allows Parker's TA Series motors to pack 2700 lb ins of torque into less than six inches of length. These low cost motors contain many features not normally found in motors of this type. When used within their ratings, they assure long trouble free life.

Options

- All Common 1 inch Shafts
- SAE A 2 Bolt or 4 Bolt Mounting
- SAE O-Ring, NPTF or Manifold Porting
- External Crossover Relief Valve Package
- Free Running Rotor Set

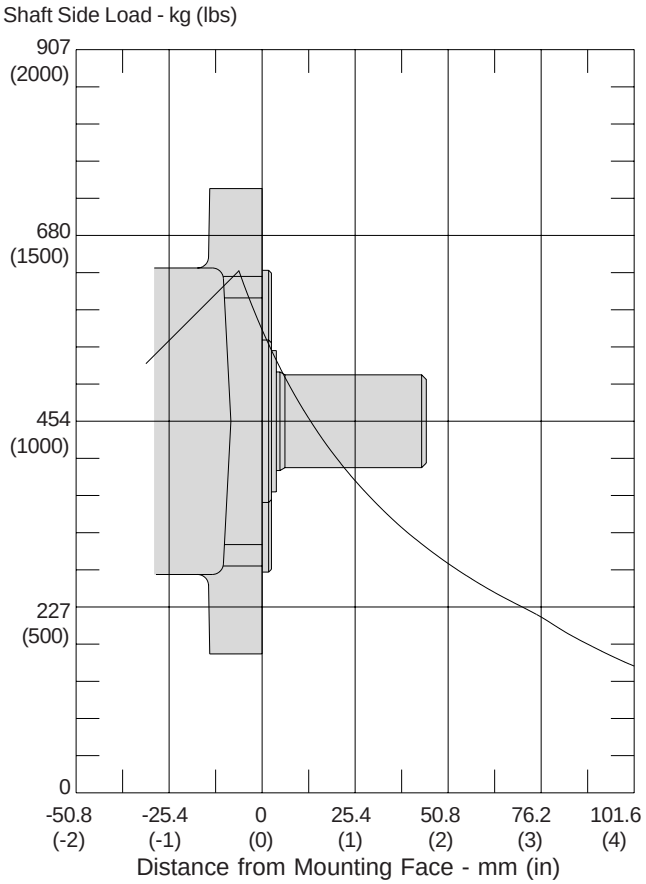
Features

- **Roller Vane Power Element** — For High Volumetric Efficiency and Long Life
- **High Pressure Shaft Seal** — For High Back Pressure Operation Without External Drains
- **High Flow Shaft Seal Cooling** — For Long Seal Life
- **60:40 Spline Geometry** — For Superior Powertrain Strength, Long Life

TA Specifications

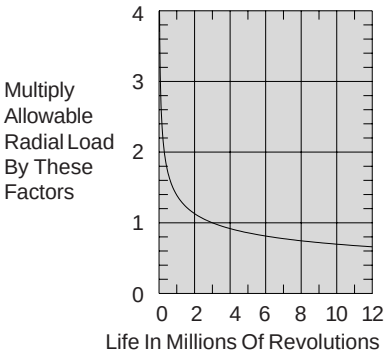
Code		0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Displacement	cc/rev	43	49	66	82	98	131	164	197	229	262	295	328	370	393
	(cu in/rev)	(2.7)	(3.0)	(4.0)	(5.0)	(6.0)	(8.0)	(10.0)	(12.0)	(14.0)	(16.0)	(18.0)	(20.0)	(22.6)	(24.0)
Maximum Speed (rpm) @ Maximum Continuous Flow		810	688	517	413	460	346	278	231	198	174	154	138	121	115
Pressure Differential															
Maximum Continuous	bar	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	75.9	65.5	58.6	51.7	44.8	44.8
	(psid)	(1250)	(1250)	(1250)	(1250)	(1250)	(1250)	(1250)	(1250)	(1100)	(950)	(850)	(750)	(650)	(650)
Maximum Intermittent	bar	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	106.9	96.6	86.2	75.9	65.5	65.5
	(psid)	(1750)	(1750)	(1750)	(1750)	(1750)	(1750)	(1750)	(1750)	(1550)	(1400)	(1250)	(1100)	(950)	(950)
Max. Torque @ Max. Continuous Pressure	nm	39.8	47.8	65.8	85.1	100.3	137.6	172.7	205.1	215.2	211.3	208.2	205.5	198.5	207.0
	(lb-in)	(352)	(423)	(582)	(753)	(888)	(1218)	(1529)	(1815)	(1905)	(1870)	(1843)	(1819)	(1757)	(1832)
Max. Torque @ Max. Intermittent Pressure	nm	56.0	66.5	91.5	118.6	140.1	191.7	238.4	286.1	297.9	306.1	300.2	296.1	290.4	296.2
	(lb-in)	(496)	(589)	(810)	(1050)	(1240)	(1697)	(2110)	(2532)	(2637)	(2709)	(2657)	(2621)	(2570)	(2622)

Maximum Side Load Capacity



Application of the above uni-directional radial loads will result in a B-10 life of 2.5 million revolutions. For B-10 life at other radial loads, apply the factors from the curve below.

B-10 Life Factors



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% of each minute.*

Performance data based on testing using 15W40 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.

Code 0045

45 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	6.3 **36**	14.2 **23**	21.8 **14**	29.1 **7**			
3.8	6.7 **81**	14.8 **68**	22.7 **58**	30.3 **52**	37.5 **38**	44.4 **26**	51.1 **8**
7.6	6.6 **171**	14.9 **158**	23.2 **149**	31.2 **142**	39.1 **128**	46.8 **113**	54.0 **94**
11.4	6.3 **263**	14.7 **249**	23.2 **239**	31.3 **231**	39.3 **218**	47.0 **202**	54.5 **182**
15.1	5.9 **354**	14.3 **340**	22.9 **330**	31.5 **321**	39.8 **307**	47.9 **292**	55.6 **272**
18.9	5.3 **445**	13.9 **431**	22.5 **421**	31.3 **411**	39.7 **397**	48.0 **381**	56.0 **360**
26.5	3.6 **628**	12.2 **612**	20.9 **602**	29.8 **591**	38.5 **577**	47.0 **559**	55.2 **537**
34.1	1.6 **810**	10.4 **794**	19.1 **783**	28.1 **771**	36.7 **756**	45.1 **737**	53.2 **714**

Flow (LPM)

TORQUE (nm) 45.1
SPEED (RPM) 737

Code 0050

50 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	7.1 **29**	15.6 **15**	23.6 **5**				
3.8	7.7 **68**	16.5 **54**	25.0 **43**	33.2 **32**	41.0 **18**		
7.6	7.9 **145**	17.7 **131**	27.0 **120**	35.9 **108**	44.5 **93**	52.4 **74**	59.9 **50**
11.4	7.6 **222**	17.5 **209**	27.2 **197**	36.4 **186**	45.3 **170**	53.7 **151**	61.9 **125**
15.1	6.9 **300**	17.4 **286**	27.9 **275**	37.8 **263**	47.2 **247**	56.0 **228**	64.2 **202**
18.9	6.3 **378**	17.1 **364**	27.7 **352**	38.0 **340**	47.8 **324**	57.2 **305**	65.8 **278**
26.5	4.6 **533**	15.5 **518**	26.3 **507**	37.1 **494**	47.5 **478**	57.3 **458**	66.5 **432**
34.1	2.7 **688**	13.8 **673**	24.6 **661**	35.4 **648**	45.8 **632**	55.6 **612**	65.2 **585**

Flow (LPM)

2.7 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	56 **36**	126 **23**	193 **14**	258 **7**			
1	59 **81**	131 **68**	201 **58**	268 **52**	332 **38**	393 **26**	452 **8**
2	58 **171**	132 **158**	205 **149**	276 **142**	346 **128**	414 **113**	478 **94**
3	56 **263**	130 **249**	205 **239**	277 **231**	348 **218**	416 **202**	482 **182**
4	52 **354**	127 **340**	203 **330**	279 **321**	352 **307**	424 **292**	492 **272**
5	47 **445**	123 **431**	199 **421**	277 **411**	351 **397**	425 **381**	496 **360**
7	32 **628**	108 **612**	185 **602**	264 **591**	341 **577**	416 **559**	489 **537**
9	14 **810**	92 **794**	169 **783**	249 **771**	325 **756**	399 **737**	471 **714**

Flow (GPM)

TORQUE (LB IN) 399
SPEED (RPM) 737

3.0 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	63 **29**	138 **15**	209 **5**				
1	68 **68**	146 **54**	221 **43**	294 **32**	363 **18**		
2	70 **145**	157 **131**	239 **120**	318 **108**	394 **93**	464 **74**	530 **50**
3	67 **222**	155 **209**	241 **197**	322 **186**	401 **170**	475 **151**	548 **125**
4	61 **300**	154 **286**	247 **275**	335 **263**	418 **247**	496 **228**	568 **202**
5	56 **378**	151 **364**	245 **352**	336 **340**	423 **324**	506 **305**	582 **278**
7	41 **533**	137 **518**	233 **507**	328 **494**	420 **478**	507 **458**	589 **432**
9	24 **688**	122 **673**	218 **661**	313 **648**	405 **632**	492 **612**	577 **585**

Flow (GPM)

Performance data is typical.
Actual data may vary slightly from one production motor to another.

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Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0065

65 cc / rev

PRESSURE (BAR)

Flow (LPM)	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	11.3 **22**	23.7 **15**	36.4 **10**	48.8 **3**			
3.8	11.7 **51**	24.5 **44**	37.4 **38**	50.2 **31**	62.7 **21**	75.2 **12**	
7.6	12.2 **109**	25.5 **102**	38.9 **95**	52.0 **88**	64.9 **78**	77.6 **67**	89.8 **53**
11.4	11.5 **167**	25.1 **159**	38.8 **153**	52.1 **145**	65.1 **136**	77.8 **124**	90.4 **110**
15.1	10.5 **226**	24.6 **217**	38.6 **210**	52.4 **202**	65.8 **193**	78.7 **181**	91.3 **166**
18.9	9.7 **284**	24.0 **274**	38.1 **268**	52.1 **260**	65.6 **250**	78.7 **238**	91.5 **223**
26.5	7.6 **400**	21.9 **390**	36.2 **383**	50.4 **374**	64.3 **365**	77.7 **352**	90.7 **336**
34.1	5.4 **517**	20.2 **505**	34.7 **497**	49.0 **489**	62.8 **479**	76.4 **466**	89.5 **449**

TORQUE (nm) 76.4
SPEED (RPM) 466

Code 0080

80 cc / rev

PRESSURE (BAR)

Flow (LPM)	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	14.9 **19**	31.0 **15**	47.1 **11**	63.0 **8**	78.7 **3**		
3.8	15.6 **43**	32.3 **38**	48.9 **34**	65.4 **30**	81.5 **25**	97.0 **18**	112.3 **12**
7.6	15.8 **89**	33.2 **84**	50.6 **80**	67.8 **75**	84.6 **70**	101.1 **62**	116.9 **54**
11.4	15.1 **135**	32.8 **130**	50.3 **126**	67.7 **121**	84.6 **115**	101.2 **108**	117.3 **99**
15.1	13.9 **182**	32.1 **176**	50.1 **172**	67.8 **167**	85.1 **161**	102.1 **153**	118.6 **144**
18.9	12.8 **228**	31.1 **223**	49.3 **218**	67.0 **213**	84.5 **207**	101.8 **199**	118.5 **189**
26.5	9.9 **321**	28.2 **315**	46.4 **310**	64.3 **304**	82.0 **298**	99.3 **290**	116.4 **279**
34.1	7.5 **413**	25.9 **407**	44.1 **402**	62.0 **396**	79.5 **389**	96.9 **381**	113.8 **369**

4.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	250	500	750	1000	1250	1500	1750
.5	100 **22**	210 **15**	322 **10**	432 **3**			
1	104 **51**	217 **44**	331 **38**	444 **31**	555 **21**	666 **12**	
2	108 **109**	226 **102**	344 **95**	460 **88**	574 **78**	687 **67**	795 **53**
3	102 **167**	222 **159**	343 **153**	461 **145**	576 **136**	689 **124**	800 **110**
4	93 **226**	218 **217**	342 **210**	464 **202**	582 **193**	697 **181**	808 **166**
5	86 **284**	212 **274**	337 **268**	461 **260**	581 **250**	697 **238**	810 **223**
7	67 **400**	194 **390**	320 **383**	446 **374**	569 **365**	688 **352**	803 **336**
9	48 **517**	179 **505**	307 **497**	434 **489**	556 **479**	676 **466**	792 **449**

TORQUE (LB IN) 676
SPEED (RPM) 466

5.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	250	500	750	1000	1250	1500	1750
.5	132 **19**	274 **15**	417 **11**	558 **8**	697 **3**		
1	138 **43**	286 **38**	433 **34**	579 **30**	721 **25**	859 **18**	994 **12**
2	140 **89**	294 **84**	448 **80**	600 **75**	749 **70**	895 **62**	1035 **54**
3	134 **135**	290 **130**	445 **126**	599 **121**	749 **115**	896 **108**	1038 **99**
4	123 **182**	284 **176**	443 **172**	600 **167**	753 **161**	904 **153**	1050 **144**
5	113 **228**	275 **223**	436 **218**	593 **213**	748 **207**	901 **199**	1049 **189**
7	88 **321**	250 **315**	411 **310**	569 **304**	726 **298**	879 **290**	1030 **279**
9	66 **413**	229 **407**	390 **402**	549 **396**	704 **389**	858 **381**	1007 **369**

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Hydraulic Pump/Motor Division
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Code 0100

100 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	17.2 **14**	36.0 **8**	54.8 **3**				
3.8	18.1 **34**	37.6 **27**	57.1 **22**	76.3 **17**	95.2 **12**	113.5 **7**	
7.6	19.0 **72**	39.4 **65**	60.0 **60**	80.0 **56**	99.8 **50**	119.2 **43**	137.6 **33**
11.4	18.1 **111**	38.8 **104**	59.3 **99**	79.7 **94**	99.6 **89**	119.2 **81**	138.4 **71**
15.1	16.5 **150**	37.8 **143**	59.1 **138**	79.9 **133**	100.3 **128**	120.4 **120**	140.1 **109**
18.9	15.4 **189**	36.8 **182**	58.1 **176**	79.2 **172**	99.8 **166**	120.1 **159**	140.0 **148**
26.5	12.5 **266**	33.9 **259**	55.0 **254**	76.3 **249**	97.2 **244**	117.7 **236**	138.1 **225**
34.1	8.1 **344**	29.3 **337**	50.5 **331**	72.0 **327**	93.1 **322**	113.9 **313**	134.4 **301**
45.4	1.6 **460**	22.8 **453**	43.8 **448**	65.3 **443**	86.2 **438**	106.7 **430**	126.9 **417**

Flow (LPM)

TORQUE (nm) 106.7
SPEED (RPM) 430

Code 0130

130 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	24.2 **12**	51.3 **9**	78.4 **7**	105.6 **5**	132.4 **2**		
3.8	25.2 **27**	52.9 **24**	80.4 **22**	107.7 **19**	134.8 **16**	162.0 **13**	188.9 **8**
7.6	26.1 **56**	54.1 **53**	82.4 **51**	110.2 **48**	137.6 **44**	164.8 **41**	191.7 **35**
11.4	25.2 **85**	53.3 **82**	81.6 **80**	109.4 **77**	136.8 **74**	164.2 **69**	190.9 **64**
15.1	23.3 **114**	52.0 **111**	80.4 **109**	108.6 **106**	136.1 **102**	163.6 **98**	190.5 **93**
18.9	21.4 **143**	50.2 **140**	78.7 **138**	107.1 **135**	134.9 **131**	162.4 **127**	189.2 **122**
26.5	17.7 **201**	46.2 **198**	74.3 **195**	102.9 **193**	130.9 **189**	158.5 **185**	185.7 **179**
34.1	11.4 **259**	39.9 **255**	68.1 **253**	96.6 **250**	124.7 **247**	152.5 **243**	179.9 **237**
45.4	2.6 **346**	29.6 **342**	56.9 **340**	85.1 **337**	112.8 **334**	140.5 **329**	168.1 **323**
56.8		20.9 **429**	48.6 **426**	76.3 **423**	103.6 **420**	130.5 **416**	156.9 **410**

Flow (LPM)

6.0 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	152 **14**	319 **8**	485 **3**				
1	160 **34**	333 **27**	505 **22**	675 **17**	843 **12**	1005 **7**	
2	168 **72**	349 **65**	531 **60**	708 **56**	883 **50**	1055 **43**	1218 **33**
3	160 **111**	343 **104**	525 **99**	705 **94**	882 **89**	1055 **81**	1225 **71**
4	146 **150**	335 **143**	523 **138**	707 **133**	888 **128**	1066 **120**	1240 **109**
5	136 **189**	326 **182**	514 **176**	701 **172**	883 **166**	1063 **159**	1239 **148**
7	111 **266**	300 **259**	487 **254**	675 **249**	860 **244**	1042 **236**	1222 **225**
9	72 **344**	259 **337**	447 **331**	637 **327**	824 **322**	1008 **313**	1190 **301**
12	14 **460**	202 **453**	388 **448**	578 **443**	763 **438**	944 **430**	1123 **417**

Flow (GPM)

TORQUE (LB IN) 944
SPEED (RPM) 430

8.0 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	214 **12**	454 **9**	694 **7**	935 **5**	1172 **2**		
1	223 **27**	468 **24**	712 **22**	953 **19**	1193 **16**	1434 **13**	1672 **8**
2	231 **56**	479 **53**	729 **51**	975 **48**	1218 **44**	1459 **41**	1697 **35**
3	223 **85**	472 **82**	722 **80**	968 **77**	1211 **74**	1453 **69**	1690 **64**
4	206 **114**	460 **111**	712 **109**	961 **106**	1205 **102**	1448 **98**	1686 **93**
5	189 **143**	444 **140**	697 **138**	948 **135**	1194 **131**	1437 **127**	1675 **122**
7	157 **201**	409 **198**	658 **195**	911 **193**	1159 **189**	1403 **185**	1644 **179**
9	101 **259**	353 **255**	603 **253**	855 **250**	1104 **247**	1350 **243**	1592 **237**
12	23 **346**	262 **342**	504 **340**	753 **337**	998 **334**	1244 **329**	1488 **323**
15		185 **429**	430 **426**	675 **423**	917 **420**	1155 **416**	1389 **410**

Flow (GPM)

Performance data is typical.
Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0165

165 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	30.4 **10**	63.5 **8**	96.3 **6**	129.6 **4**	162.4 **2**		
3.8	32.3 **21**	66.4 **19**	100.3 **18**	133.8 **16**	166.8 **14**	199.3 **11**	231.6 **8**
7.6	33.6 **45**	68.8 **43**	104.1 **41**	138.6 **39**	172.7 **37**	206.1 **34**	238.4 **30**
11.4	32.4 **68**	67.7 **66**	102.8 **65**	137.7 **63**	171.8 **61**	205.3 **58**	237.8 **54**
15.1	29.6 **91**	65.9 **89**	101.7 **88**	136.9 **86**	171.6 **84**	205.4 **81**	238.3 **77**
18.9	27.2 **115**	63.4 **113**	99.1 **111**	134.6 **110**	169.4 **108**	203.3 **105**	236.4 **100**
26.5	22.1 **161**	57.3 **159**	92.6 **158**	128.2 **156**	163.3 **154**	197.2 **151**	230.3 **147**
34.1	14.6 **208**	49.4 **206**	84.5 **204**	119.9 **203**	154.6 **201**	188.6 **198**	221.3 **194**
45.4	1.8 **278**	35.5 **276**	69.6 **274**	104.3 **273**	138.5 **271**	172.3 **269**	205.1 **264**
56.8		24.4 **346**	58.7 **343**	93.0 **342**	126.9 **341**	159.9 **338**	191.8 **334**

Flow (LPM)

TORQUE (nm) 159.9
SPEED (RPM) 338

Code 0195

195 cc / rev

PRESSURE (BAR)

	17.2	34.5	51.7	69.0	86.2	103.4	120.7
1.9	36.5 **8**	77.8 **6**	119.0 **5**	160.8 **3**			
3.8	37.7 **18**	79.2 **16**	120.5 **14**	162.1 **13**	203.5 **11**	244.5 **8**	286.1 **6**
7.6	38.4 **37**	80.4 **35**	122.1 **34**	163.9 **32**	205.1 **30**	245.1 **27**	285.2 **24**
11.4	37.3 **57**	79.2 **55**	121.0 **54**	162.7 **52**	203.8 **50**	243.9 **47**	283.6 **43**
15.1	34.5 **76**	77.1 **74**	119.2 **73**	160.9 **72**	201.7 **70**	241.8 **67**	281.4 **62**
18.9	31.9 **95**	74.3 **94**	116.5 **93**	157.9 **91**	198.7 **89**	239.0 **86**	277.9 **82**
26.5	26.3 **134**	68.0 **132**	109.5 **132**	151.2 **130**	191.8 **128**	231.7 **125**	270.5 **121**
34.1	17.4 **173**	58.9 **171**	100.1 **170**	141.7 **169**	182.0 **167**	221.9 **164**	260.9 **159**
45.4	4.0 **231**	43.4 **229**	83.3 **228**	124.1 **228**	164.4 **226**	203.9 **223**	242.5 **218**
56.8		30.7 **287**	70.2 **286**	109.9 **286**	149.2 **284**	187.3 **281**	224.8 **276**

Flow (LPM)

10.0 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	269 **10**	562 **8**	852 **6**	1147 **4**	1437 **2**		
1	286 **21**	588 **19**	888 **18**	1184 **16**	1476 **14**	1764 **11**	2050 **8**
2	297 **45**	609 **43**	921 **41**	1227 **39**	1529 **37**	1824 **34**	2110 **30**
3	287 **68**	599 **66**	910 **65**	1219 **63**	1521 **61**	1817 **58**	2105 **54**
4	262 **91**	583 **89**	900 **88**	1212 **86**	1519 **84**	1818 **81**	2109 **77**
5	241 **115**	561 **113**	877 **111**	1191 **110**	1499 **108**	1799 **105**	2092 **100**
7	196 **161**	507 **159**	820 **158**	1135 **156**	1445 **154**	1745 **151**	2038 **147**
9	129 **208**	437 **206**	748 **204**	1061 **203**	1368 **201**	1669 **198**	1959 **194**
12	16 **278**	314 **276**	616 **274**	923 **273**	1226 **271**	1525 **269**	1815 **264**
15		216 **346**	520 **343**	823 **342**	1123 **341**	1415 **338**	1698 **334**

Flow (GPM)

TORQUE (LB IN) 1415
SPEED (RPM) 338

12.0 cu in / rev

PRESSURE (PSI)

	250	500	750	1000	1250	1500	1750
.5	323 **8**	689 **6**	1053 **5**	1423 **3**			
1	334 **18**	701 **16**	1067 **14**	1435 **13**	1801 **11**	2164 **8**	2532 **6**
2	340 **37**	712 **35**	1081 **34**	1451 **32**	1815 **30**	2169 **27**	2524 **24**
3	330 **57**	701 **55**	1071 **54**	1440 **52**	1804 **50**	2159 **47**	2510 **43**
4	305 **76**	682 **74**	1055 **73**	1424 **72**	1785 **70**	2140 **67**	2491 **62**
5	282 **95**	658 **94**	1031 **93**	1398 **91**	1759 **89**	2115 **86**	2460 **82**
7	233 **134**	602 **132**	969 **132**	1338 **130**	1698 **128**	2051 **125**	2394 **121**
9	154 **173**	521 **171**	886 **170**	1254 **169**	1611 **167**	1964 **164**	2309 **159**
12	35 **231**	384 **229**	737 **228**	1098 **228**	1455 **226**	1805 **223**	2146 **218**
15		272 **287**	621 **286**	973 **286**	1321 **284**	1658 **281**	1990 **276**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0230

230 cc / rev

	PRESSURE (BAR) 17.2	34.5	51.7	75.9	89.7	106.9
1.9	45.4 **6**	94.3 **4**	143.4 **3**			
3.8	47.0 **14**	96.4 **13**	145.6 **11**	213.4 **9**	251.3 **7**	297.7 **5**
7.6	47.5 **31**	97.5 **29**	147.4 **28**	215.2 **26**	252.5 **23**	297.9 **20**
11.4	46.1 **48**	95.7 **46**	145.1 **45**	212.6 **43**	249.8 **40**	295.2 **37**
15.1	42.8 **64**	92.6 **63**	142.2 **62**	209.4 **59**	246.4 **57**	291.4 **54**
18.9	39.7 **81**	89.5 **79**	138.9 **78**	205.8 **76**	242.6 **74**	286.6 **71**
26.5	32.7 **114**	82.2 **113**	130.9 **112**	197.6 **110**	234.3 **108**	277.8 **104**
34.1	23.2 **148**	70.8 **146**	118.3 **145**	184.8 **143**	221.7 **141**	266.1 **137**
45.4	6.2 **198**	51.5 **196**	97.2 **195**	162.4 **193**	199.0 **192**	243.4 **187**
56.8		37.6 **246**	83.5 **244**	146.8 **243**	181.6 **242**	223.6 **237**

Flow (LPM)

TORQUE (nm) 37.6
SPEED (RPM) 246

Code 0260

260 cc / rev

	PRESSURE (BAR) 17.2	34.5	51.7	65.5	82.8	96.6
1.9	52.3 **6**	108.0 **5**	163.4 **4**	207.2 **3**	261.5 **2**	
3.8	54.2 **13**	110.3 **12**	165.9 **11**	209.6 **10**	263.4 **9**	305.2 **8**
7.6	54.7 **28**	111.2 **27**	167.4 **26**	211.3 **25**	264.8 **24**	306.1 **22**
11.4	53.2 **42**	109.5 **42**	165.5 **41**	209.2 **40**	262.7 **39**	303.9 **37**
15.1	49.5 **57**	106.2 **56**	162.5 **56**	206.2 **55**	259.3 **54**	300.4 **52**
18.9	45.5 **72**	102.0 **71**	158.2 **70**	201.8 **70**	254.8 **68**	295.7 **67**
26.5	37.4 **101**	92.5 **100**	147.0 **100**	190.4 **99**	242.8 **98**	283.4 **97**
34.1	24.4 **130**	78.6 **129**	132.5 **129**	175.5 **129**	227.2 **128**	267.4 **126**
45.4	6.7 **174**	57.7 **173**	108.5 **173**	150.2 **173**	200.7 **172**	240.2 **171**
56.8		40.0 **217**	92.9 **217**	134.1 **217**	184.3 **216**	221.9 **215**

Flow (LPM)

14.0 cu in / rev

	PRESSURE (PSI) 250	500	750	1100	1300	1550
.5	402 **6**	835 **4**	1269 **3**			
1	416 **14**	853 **13**	1289 **11**	1889 **9**	2224 **7**	2635 **5**
2	420 **31**	863 **29**	1305 **28**	1905 **26**	2235 **23**	2637 **20**
3	408 **48**	847 **46**	1284 **45**	1882 **43**	2211 **40**	2613 **37**
4	379 **64**	820 **63**	1259 **62**	1853 **59**	2181 **57**	2579 **54**
5	351 **81**	792 **79**	1229 **78**	1822 **76**	2147 **74**	2537 **71**
7	289 **114**	728 **113**	1159 **112**	1749 **110**	2074 **108**	2459 **104**
9	205 **148**	627 **146**	1047 **145**	1636 **143**	1962 **141**	2355 **137**
12	55 **198**	456 **196**	860 **195**	1437 **193**	1761 **192**	2154 **187**
15		333 **246**	739 **244**	1299 **243**	1607 **242**	1979 **237**

Flow (GPM)

TORQUE (LB IN) 333
SPEED (RPM) 246

16.0 cu in / rev

	PRESSURE (PSI) 250	500	750	950	1200	1400
.5	463 **6**	956 **5**	1446 **4**	1834 **3**	2315 **2**	
1	480 **13**	976 **12**	1468 **11**	1855 **10**	2331 **9**	2701 **8**
2	484 **28**	984 **27**	1482 **26**	1870 **25**	2344 **24**	2709 **22**
3	471 **42**	969 **42**	1465 **41**	1852 **40**	2325 **39**	2690 **37**
4	438 **57**	940 **56**	1438 **56**	1825 **55**	2295 **54**	2659 **52**
5	403 **72**	903 **71**	1400 **70**	1786 **70**	2255 **68**	2617 **67**
7	331 **101**	819 **100**	1301 **100**	1685 **99**	2149 **98**	2508 **97**
9	216 **130**	696 **129**	1173 **129**	1553 **129**	2011 **128**	2367 **126**
12	59 **174**	511 **173**	960 **173**	1329 **173**	1776 **172**	2126 **171**
15		354 **217**	822 **217**	1187 **217**	1631 **216**	1964 **215**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0295

295 cc / rev

Flow (LPM)	PRESSURE (BAR) 17.2	34.5	58.6	69.0	86.2
1.9	57.2 **5**	119.0 **4**	204.6 **2**		
3.8	59.2 **11**	121.1 **10**	206.6 **9**	242.1 **8**	300.1 **6**
7.6	60.2 **24**	122.6 **23**	208.2 **22**	243.2 **21**	300.2 **20**
11.4	58.0 **37**	120.2 **36**	205.6 **35**	240.8 **34**	297.7 **33**
15.1	53.3 **50**	116.1 **49**	201.7 **48**	236.6 **47**	293.4 **46**
18.9	49.3 **63**	112.2 **62**	197.6 **62**	232.4 **61**	288.8 **60**
26.5	40.0 **89**	101.2 **89**	185.3 **88**	220.4 **87**	276.5 **86**
34.1	26.8 **115**	87.2 **115**	170.1 **114**	205.2 **114**	260.8 **113**
45.4	7.7 **154**	63.5 **154**	142.4 **153**	176.5 **153**	231.4 **152**
56.8		43.7 **193**	123.1 **192**	155.8 **192**	208.7 **192**

TORQUE (nm) 43.7
SPEED (RPM) 193

Code 0330

330 cc / rev

Flow (LPM)	PRESSURE (BAR) 17.2	34.5	51.7	75.9
1.9	65.1 **4**	133.7 **3**	201.1 **2**	
3.8	67.4 **10**	135.7 **9**	203.0 **8**	294.2 **6**
7.6	68.9 **22**	137.9 **21**	205.5 **20**	296.1 **18**
11.4	66.4 **33**	135.0 **32**	202.3 **31**	293.0 **30**
15.1	61.9 **45**	130.8 **44**	198.4 **43**	288.4 **42**
18.9	56.9 **57**	125.7 **56**	193.3 **55**	283.2 **54**
26.5	47.0 **80**	114.3 **79**	180.4 **78**	269.5 **78**
34.1	31.1 **103**	96.4 **102**	161.3 **102**	249.9 **102**
45.4	8.8 **138**	69.5 **137**	130.0 **137**	216.2 **137**
56.8		47.6 **172**	108.2 **172**	191.6 **172**

18.0 cu in / rev

Flow (GPM)	PRESSURE (PSI) 250	500	850	1000	1250
.5	506 **5**	1053 **4**	1811 **2**		
1	524 **11**	1072 **10**	1829 **9**	2143 **8**	2656 **6**
2	533 **24**	1085 **23**	1843 **22**	2153 **21**	2657 **20**
3	513 **37**	1064 **36**	1820 **35**	2131 **34**	2635 **33**
4	472 **50**	1028 **49**	1785 **48**	2094 **47**	2597 **46**
5	436 **63**	993 **62**	1749 **62**	2057 **61**	2556 **60**
7	354 **89**	896 **89**	1640 **88**	1951 **87**	2447 **86**
9	237 **115**	772 **115**	1506 **114**	1816 **114**	2308 **113**
12	68 **154**	562 **154**	1260 **153**	1562 **153**	2048 **152**
15		387 **198**	1090 **192**	1379 **192**	1847 **192**

TORQUE (LB IN) 387
SPEED (RPM) 193

Performance data is typical. Actual data may vary slightly from one production motor to another.

20.0 cu in / rev

Flow (GPM)	PRESSURE (PSI) 250	500	750	1100
.5	576 **4**	1183 **3**	1780 **2**	
1	597 **10**	1201 **9**	1797 **8**	2604 **6**
2	610 **22**	1221 **21**	1819 **20**	2621 **18**
3	588 **33**	1195 **32**	1791 **31**	2593 **30**
4	548 **45**	1158 **44**	1756 **43**	2553 **42**
5	504 **57**	1113 **56**	1711 **55**	2507 **54**
7	416 **80**	1012 **79**	1597 **78**	2385 **78**
9	275 **103**	853 **102**	1428 **102**	2212 **102**
12	78 **138**	615 **137**	1151 **137**	1914 **137**
15		421 **172**	958 **172**	1696 **172**

Code 0365

370 cc / rev

Flow (LPM)	PRESSURE (BAR) 17.2	34.5	44.8	65.5
1.9	66.9 **4**	144.5 **3**	191.6 **2**	283.6 **1**
3.8	69.9 **9**	148.0 **8**	194.6 **7**	285.4 **6**
7.6	72.5 **19**	151.2 **18**	198.5 **18**	290.4 **17**
11.4	69.7 **30**	148.8 **29**	195.9 **28**	286.4 **27**
15.1	64.1 **40**	143.3 **39**	190.5 **39**	280.6 **38**
18.9	60.3 **50**	138.7 **49**	185.9 **49**	274.7 **49**
26.5	48.8 **71**	125.7 **70**	172.3 **70**	260.8 **69**
34.1	35.5 **91**	110.5 **90**	156.7 **90**	243.9 **90**
45.4	9.0 **122**	82.8 **121**	130.2 **121**	216.8 **121**
56.8	**152**	68.6 **607**	119.6 **1059**	207.8 **1839**

TORQUE (nm) 119.6
SPEED (RPM) 1059

Code 0390

390 cc / rev

Flow (LPM)	PRESSURE (BAR) 17.2	34.5	44.8	65.5
1.9	75.1 **3**	155.6 **2**		
3.8	77.8 **8**	157.9 **7**	205.3 **6**	296.2 **5**
7.6	80.0 **18**	159.9 **17**	207.0 **16**	295.9 **15**
11.4	77.2 **27**	156.9 **26**	203.8 **26**	293.0 **25**
15.1	71.9 **37**	151.4 **36**	198.3 **36**	286.9 **35**
18.9	66.2 **47**	145.3 **46**	191.8 **46**	279.7 **45**
26.5	54.8 **66**	132.2 **66**	177.3 **65**	264.5 **65**
34.1	38.8 **86**	115.0 **85**	159.5 **85**	246.4 **85**
45.4	11.6 **115**	84.3 **114**	127.0 **114**	211.6 **115**
56.8		60.6 **144**	103.0 **143**	184.5 **144**

22.6 cu in / rev

Flow (GPM)	PRESSURE (PSI) 250	500	650	950
.5	592 **4**	1279 **3**	1696 **2**	2510 **1**
1	619 **9**	1310 **8**	1722 **7**	2526 **6**
2	642 **19**	1338 **18**	1757 **18**	2570 **17**
3	617 **30**	1317 **29**	1734 **28**	2535 **27**
4	567 **40**	1268 **39**	1686 **39**	2484 **38**
5	534 **50**	1228 **49**	1645 **49**	2431 **49**
7	432 **71**	1113 **70**	1525 **70**	2308 **69**
9	314 **91**	978 **90**	1387 **90**	2159 **90**
12	80 **122**	733 **121**	1152 **121**	1919 **121**
15	**152**	607 **152**	1059 **152**	1839 **152**

TORQUE (LB IN) 1059
SPEED (RPM) 152

Performance data is typical. Actual data may vary slightly from one production motor to another.

24.0 cu in / rev

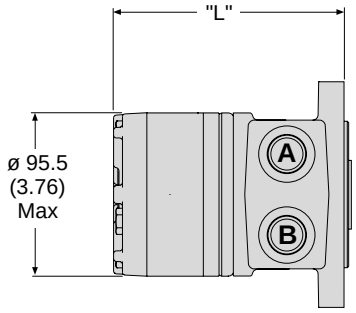
Flow (GPM)	PRESSURE (PSI) 250	500	650	950
.5	665 **3**	1377 **2**		
1	689 **8**	1398 **7**	1817 **6**	2622 **5**
2	708 **18**	1415 **17**	1832 **16**	2619 **15**
3	683 **27**	1389 **26**	1804 **26**	2593 **25**
4	636 **37**	1340 **36**	1755 **36**	2539 **35**
5	586 **47**	1286 **46**	1698 **46**	2476 **45**
7	485 **66**	1170 **66**	1569 **65**	2341 **65**
9	343 **86**	1018 **85**	1412 **85**	2181 **85**
12	103 **115**	746 **114**	1124 **114**	1873 **115**
15		536 **144**	912 **143**	1633 **144**

PSLGC.PM6, dg, ki

Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Dimensions

Inch equivalents for metric dimensions are shown in (**)



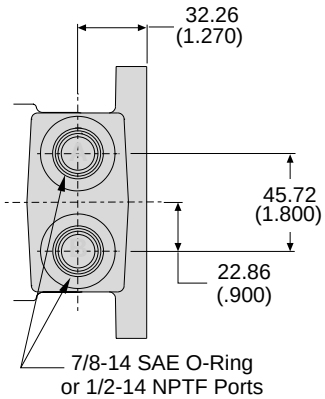
Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**

Length "L" and Weight

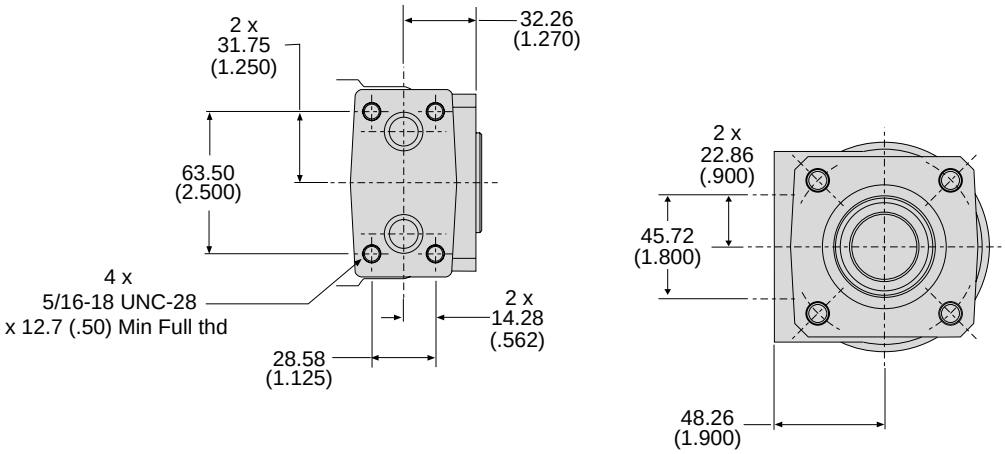
Displacement Code		0045	0050	0065	0080	0100	0130	0160	0195	0230	0260	0295	0330	0365	0390
SAE "A" Mount															
Length "L"	mm	106	108	111	114	117	124	130	136	143	149	155	162	170	174
	(inches)	(4.18)	(4.24)	(4.36)	(4.49)	(4.61)	(4.86)	(5.11)	(5.36)	(5.61)	(5.86)	(6.11)	(6.36)	(6.70)	(6.86)
Weight	kg	4.89	4.98	5.12	5.26	5.31	5.67	5.92	6.19	6.41	6.69	6.93	7.22	7.58	7.69
	(lb)	(10.8)	(11.0)	(11.3)	(11.6)	(11.7)	(12.5)	(13.1)	(13.6)	(14.1)	(14.7)	(15.3)	(15.9)	(16.7)	(17.0)
4 Bolt															
Length "L"	mm	106	108	111	114	117	124	130	136	143	149	155	162	170	174
	(inches)	(4.18)	(4.24)	(4.36)	(4.49)	(4.61)	(4.86)	(5.11)	(5.36)	(5.61)	(5.86)	(6.11)	(6.36)	(6.70)	(6.86)
Weight	kg	4.59	4.68	4.82	4.96	5.01	5.37	5.63	5.89	6.11	6.39	6.63	6.92	7.26	7.39
	(lb)	(10.1)	(10.3)	(10.6)	(10.9)	(11.1)	(11.8)	(12.4)	(13.0)	(13.5)	(14.1)	(14.6)	(15.3)	(16.0)	(16.3)

Porting

SAE O-Ring & NPTF



Manifold



Consult Factory for
ISO6149 Porting

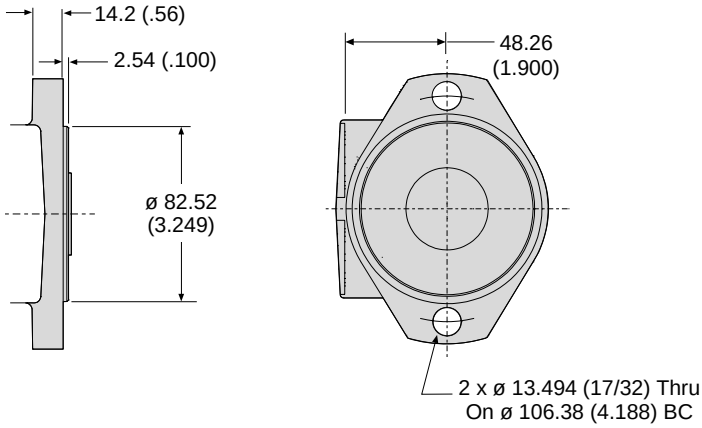
PSLGC.PM6, dg, ki

Parker Hydraulics

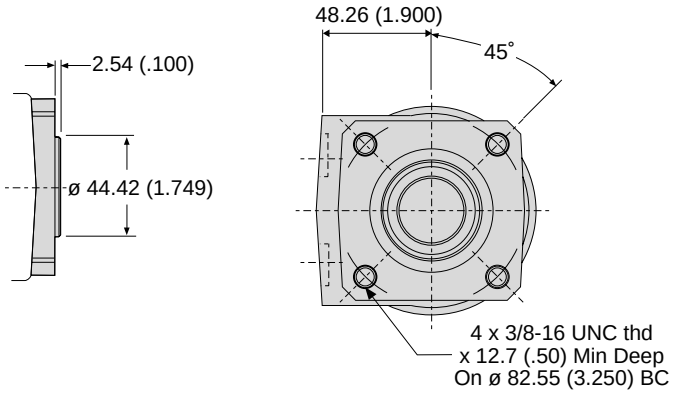
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Mounting

Inch equivalents for metric dimensions are shown in (**)

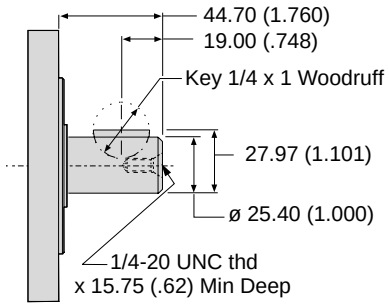


SAE A 2 Bolt

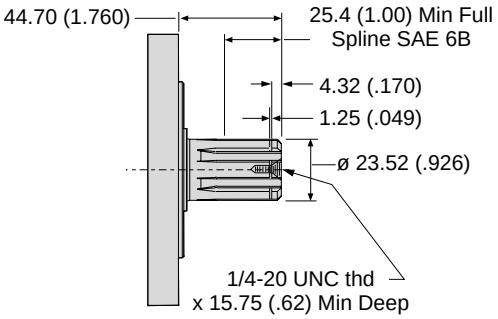


4 Bolt

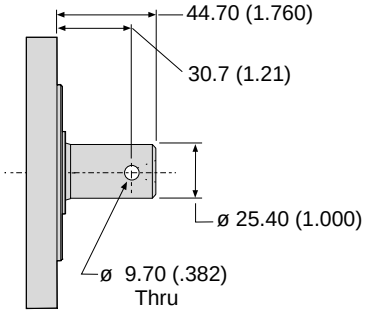
Shaft



1" Key



1" 6B Spline



1" Straight Shaft w/ .38 Cross Hole

TA	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Mounting
A	SAE "A" 2 Bolt
F	4 Bolt

Code	Rotation
0	Standard

Code	Shaft
09	1" Straight w/ 0.38" Crosshole
10	1" Keyed
11	1" 6B Spline

Code	Porting
P	1/2"-14 NPTF
M	Manifold
S	7/8"-14 SAE O-Ring

Code	Displacement
0045	2.7 cu in/rev
0050	3.0 cu in/rev
0065	4.0 cu in/rev
0080	5.0 cu in/rev
0100	6.0 cu in/rev
0130	8.0 cu in/rev
0165	10.0 cu in/rev
0195	12.0 cu in/rev
0230	14.0 cu in/rev
0260	16.0 cu in/rev
0295	18.0 cu in/rev
0330	20.0 cu in/rev
0365	22.6 cu in/rev
0390	24.0 cu in/rev

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AABJ*	Free Running Rotorset, Black Paint
AABK*	Free Running Rotorset, No Paint
AAFC	White Epoxy Paint
AAHD	White Epoxy Paint, Viton Seals
HAAA**	External Relief Valve (1894-1), Black Paint
HAAB**	External Relief Valve (1894-1), No Paint
HAAC**	External Relief Valve (1894-1), No Paint, Viton Seals

* Not applicable to TA0365 or TA0390 displacements

** Available only with porting code "M"

A General Purpose Motor With Advanced Technology

Features are built into this multi-purposed motor that assure long, trouble free life. The power element contains roller vanes. Splines and seals are cooled. The drivetrain utilizes patented spline geometry. This all adds up to a TB Series motor that provides real value.

Options

- All Common 1 inch, 25mm or 7/8 inch 13 Tooth Shafts
- SAE A 2 Bolt, 4 Bolt Magneto or 4 Bolt Mounting
- SAE O-Ring, NPTF, Manifold or BSPF Porting
- Front or Rear Porting
- External Cross - Over Relief Valve Package
- Free Running Rotor Set
- Reverse Timed Manifold
- Corrosion Resistance

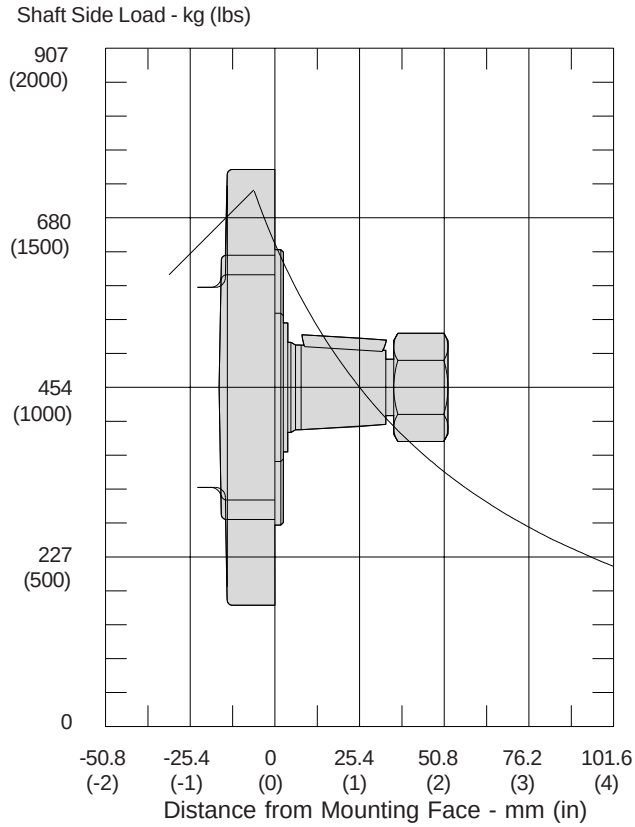
Features

- **Roller Vane Power Element** — For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** — For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** — For Extended Spline Life
- **High Pressure Shaft Seal** — For High Back Pressure Operation Without External Drain Lines
- **High Flow Shaft seal Cooling** — For Long Seal Life
- **60:40 Spline Geometry** — For Superior Powertrain Strength, Long Life

TB Specifications

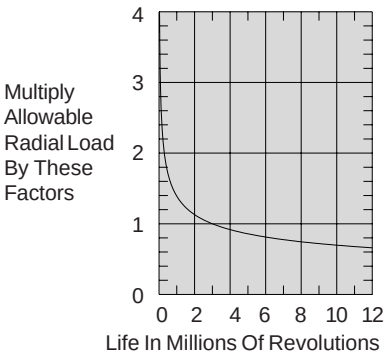
Code		0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Displacement	cc/rev	45	49	65	82	99	130	163	195	228	260	293	328	370	392
	(cu in/rev)	(2.7)	(3.0)	(4.0)	(5.0)	(6.0)	(8.0)	(9.9)	(11.9)	(13.9)	(15.9)	(17.9)	(20.0)	(22.6)	(24.0)
Maximum Speed (rpm) @ Maximum Continuous Flow		785	678	511	409	454	343	274	230	197	172	153	137	117	114
Pressure Differential															
Maximum Continuous	bar	124.1	124.1	124.1	124.1	124.1	124.1	124.1	124.1	103.4	100.0	96.6	93.1	86.2	82.8
	(psid)	(1800)	(1800)	(1800)	(1800)	(1800)	(1800)	(1800)	(1800)	(1500)	(1450)	(1400)	(1350)	(1250)	(1200)
Maximum Intermittent	bar	165.5	165.5	165.5	165.5	165.5	165.5	155.2	144.8	137.9	131.0	124.1	113.8	105.2	100.0
	(psid)	(2400)	(2400)	(2400)	(2400)	(2400)	(2400)	(2250)	(2100)	(2000)	(1900)	(1800)	(1650)	(1525)	(1450)
Max. Torque @ Max. Continuous Pressure	nm	64.3	78.3	106.9	134.8	159.4	220.4	273.2	340.2	316.0	349.8	383.1	413.2	440.3	428.4
	(lb-in)	(569)	(693)	(946)	(1193)	(1411)	(1951)	(2418)	(3011)	(2797)	(3096)	(3391)	(3657)	(3897)	(3792)
Max. Torque @ Max. Intermittent Pressure	nm	88.0	106.9	145.1	183.5	216.6	297.4	345.9	399.6	427.3	465.1	498.8	509.0	540.4	524.5
	(lb-in)	(779)	(946)	(1284)	(1624)	(1917)	(2632)	(3062)	(3537)	(3782)	(4117)	(4415)	(4505)	(4783)	(4642)

Maximum Side Load Capacity



Application of the above uni-directional radial loads will result in a B-10 life of 2.5 million revolutions. For B-10 life at other radial loads, apply the factors from the curve below.

B-10 Life Factors



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% of each minute.*

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.

TB SERIES

Code 0045

45 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	124.1	137.9	165.5
1.9	13.1 **31**	29.7 **17**				
3.8	14.0 **76**	31.2 **61**	48.2 **43**	58.5 **36**	65.4 **29**	79.8 **18**
7.6	15.1 **167**	33.2 **149**	51.2 **131**	61.8 **121**	68.8 **113**	82.6 **97**
11.4	14.9 **256**	33.1 **239**	51.4 **220**	62.5 **210**	69.7 **200**	84.3 **183**
15.1	14.9 **344**	33.4 **326**	52.5 **307**	64.1 **295**	71.7 **285**	86.9 **268**
18.9	14.5 **433**	33.2 **414**	52.5 **393**	64.3 **380**	72.2 **370**	88.0 **352**
26.5	13.2 **609**	32.1 **589**	51.7 **566**	63.7 **551**	71.7 **540**	88.0 **520**
34.1	12.1 **785**	31.1 **764**	50.7 **739**	62.7 **722**	70.8 **710**	87.0 **689**

Flow (LPM)

TORQUE (nm) 62.7
SPEED (RPM) 722

Code 0050

50 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	124.1	137.9	165.5
1.9	16.3 **26**	36.0 **13**				
3.8	17.4 **65**	38.2 **50**	58.5 **35**	70.6 **28**	78.7 **21**	94.9 **9**
7.6	18.4 **141**	40.7 **127**	62.7 **110**	75.8 **102**	84.3 **94**	101.2 **80**
11.4	18.2 **218**	40.4 **203**	62.9 **186**	76.3 **177**	85.1 **169**	102.5 **153**
15.1	18.1 **295**	40.8 **279**	64.1 **261**	78.1 **251**	87.4 **243**	105.9 **227**
18.9	17.5 **371**	40.4 **355**	63.9 **337**	78.3 **326**	87.8 **317**	106.9 **301**
26.5	16.2 **525**	39.1 **507**	63.0 **487**	77.5 **474**	87.2 **466**	106.9 **448**
34.1	15.0 **678**	38.0 **658**	61.7 **638**	76.3 **623**	86.0 **614**	105.7 **595**

Flow (LPM)

2.7 cu in / rev

	PRESSURE (PSI) 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**	731 **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

3.0 cu in / rev

	PRESSURE (PSI) 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**	896 **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**	937 **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)

Performance data is typical. Actual data may vary slightly from one production motor to another.

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0065

65 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	124.1	137.9	165.5
1.9	24.1 **22**	51.9 **14**	80.1 **6**			
3.8	25.3 **51**	54.1 **42**	82.9 **34**	100.2 **29**	111.7 **25**	134.8 **17**
7.6	26.3 **108**	56.5 **99**	86.7 **90**	104.6 **85**	116.7 **81**	140.5 **71**
11.4	26.1 **166**	56.3 **156**	86.9 **147**	105.3 **141**	117.4 **136**	141.5 **126**
15.1	25.9 **224**	56.6 **214**	87.9 **203**	106.8 **197**	119.3 **192**	144.4 **181**
18.9	25.2 **281**	56.2 **271**	87.8 **260**	106.9 **252**	119.5 **247**	145.1 **237**
26.5	23.3 **396**	54.3 **385**	86.3 **372**	105.7 **364**	118.6 **359**	144.6 **347**
34.1	21.7 **511**	52.8 **499**	84.6 **485**	103.9 **476**	116.9 **470**	143.1 **457**

Flow (LPM)

TORQUE (nm) 116.9
SPEED (RPM) 470

Code 0080

80 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	124.1	137.9	165.5
1.9	28.9 **17**	63.5 **10**	99.1 **4**			
3.8	30.4 **40**	66.1 **33**	102.2 **26**	123.9 **21**	138.5 **18**	168.0 **10**
7.6	32.2 **86**	69.6 **78**	107.3 **70**	129.9 **66**	145.0 **62**	175.1 **53**
11.4	32.2 **132**	69.9 **124**	108.3 **116**	131.4 **110**	146.6 **106**	176.9 **97**
15.1	32.3 **178**	71.0 **170**	110.3 **161**	134.1 **155**	149.9 **151**	181.7 **141**
18.9	31.9 **225**	70.8 **216**	110.6 **206**	134.8 **200**	150.8 **196**	183.1 **185**
26.5	30.2 **317**	69.5 **307**	109.8 **296**	134.3 **290**	150.6 **285**	183.5 **274**
34.1	28.5 **409**	67.8 **398**	108.0 **387**	132.5 **379**	148.9 **374**	181.8 **362**

Flow (LPM)

4.0 cu in / rev

PRESSURE (PSI)

	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**	1244 **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**	1278 **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) 1035
SPEED (RPM) 470

5.0 cu in / rev

PRESSURE (PSI)

	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**	1550 **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**	1608 **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)

Performance data is typical. Actual data may vary slightly from one production motor to another.

TB SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TB SERIES

Code 0100

100 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	124.1	137.9	165.5
1.9	35.0 **16**	75.6 **13**	116.9 **9**	142.1 **7**	159.1 **5**	
3.8	37.3 **35**	78.7 **32**	121.2 **27**	146.6 **25**	163.6 **23**	196.2 **18**
7.6	39.1 **73**	82.7 **69**	126.7 **64**	152.9 **61**	170.5 **59**	205.8 **53**
11.4	39.0 **111**	83.0 **107**	128.1 **102**	154.9 **98**	172.9 **95**	208.3 **89**
15.1	39.2 **149**	84.4 **144**	130.8 **139**	158.5 **135**	177.3 **132**	213.8 **126**
18.9	38.8 **187**	84.7 **182**	131.5 **176**	159.4 **172**	178.3 **169**	215.7 **162**
26.5	36.9 **264**	83.4 **257**	130.9 **250**	159.4 **246**	178.5 **242**	216.6 **235**
34.1	34.0 **340**	80.8 **333**	128.7 **325**	157.6 **319**	176.9 **316**	215.7 **307**
45.4	29.0 **454**	75.6 **446**	123.3 **437**	152.2 **430**	171.5 **426**	210.5 **417**

Flow (LPM)

TORQUE (nm) 171.5
SPEED (RPM) 426

Code 0130

130 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	124.1	137.9	165.5
1.9	50.4 **12**	107.9 **10**	167.1 **7**	203.0 **5**	227.2 **3**	
3.8	52.5 **27**	111.7 **24**	171.2 **21**	206.9 **19**	230.8 **17**	278.9 **13**
7.6	54.3 **55**	115.6 **52**	177.5 **49**	214.8 **46**	239.5 **44**	289.0 **40**
11.4	54.5 **84**	116.3 **81**	178.6 **77**	216.0 **74**	241.0 **72**	290.4 **67**
15.1	54.6 **113**	117.7 **109**	181.3 **105**	219.2 **102**	244.5 **100**	294.7 **95**
18.9	54.0 **142**	117.6 **138**	181.9 **133**	220.4 **130**	246.2 **128**	297.4 **122**
26.5	50.8 **199**	115.1 **195**	180.4 **190**	219.5 **186**	245.6 **184**	297.4 **177**
34.1	46.8 **257**	111.2 **252**	176.6 **246**	215.9 **242**	242.3 **239**	295.1 **233**
45.4	37.8 **343**	102.5 **338**	168.2 **331**	208.1 **327**	234.5 **323**	288.1 **316**
56.8	28.6 **430**	92.4 **424**	157.4 **416**	196.6 **411**	223.0 **407**	276.0 **399**

Flow (LPM)

6.0 cu in / rev

	PRESSURE (PSI) 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**	1822 **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**	1892 **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) 1518
SPEED (RPM) 426

8.0 cu in / rev

	PRESSURE (PSI) 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**	2558 **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**	2632 **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**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0165

165 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	124.1	155.2
1.9	59.8 **9**	128.5 **7**	199.9 **4**	242.8 **3**	
3.8	62.8 **21**	133.4 **18**	205.5 **15**	248.7 **13**	313.6 **9**
7.6	65.5 **44**	139.9 **40**	215.7 **37**	261.4 **34**	329.0 **29**
11.4	66.0 **67**	141.0 **63**	217.6 **59**	263.5 **56**	331.5 **51**
15.1	66.9 **90**	144.2 **86**	222.3 **82**	269.1 **78**	338.9 **73**
18.9	66.4 **113**	145.0 **109**	224.6 **104**	272.5 **101**	344.1 **95**
26.5	63.3 **159**	143.3 **154**	224.5 **149**	273.2 **145**	345.9 **139**
34.1	58.4 **205**	139.0 **200**	221.1 **194**	270.4 **190**	344.3 **183**
45.4	48.0 **274**	128.9 **268**	211.7 **262**	261.8 **257**	336.7 **250**
56.8	36.3 **343**	116.7 **337**	198.7 **330**	248.2 **325**	323.0 **317**

TORQUE (nm) 248.2
SPEED (RPM) 325

Code 0195

195 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	124.1	144.8
1.9	77.7 **9**	168.3 **8**	263.1 **7**	321.0 **6**	378.8 **5**
3.8	81.1 **18**	173.7 **17**	268.9 **16**	326.5 **15**	384.4 **14**
7.6	84.3 **38**	178.5 **36**	276.0 **35**	334.6 **33**	393.2 **32**
11.4	84.2 **57**	179.9 **55**	277.0 **53**	335.9 **52**	394.8 **50**
15.1	84.3 **76**	181.6 **74**	280.4 **72**	339.8 **71**	398.6 **69**
18.9	83.3 **95**	180.9 **93**	280.2 **91**	340.2 **89**	399.6 **87**
26.5	78.7 **134**	177.6 **131**	277.4 **129**	337.4 **127**	397.0 **125**
34.1	72.4 **172**	170.6 **169**	270.9 **167**	331.5 **164**	392.3 **162**
45.4	59.9 **230**	157.2 **227**	257.9 **223**	318.7 **221**	379.6 **217**
56.8	45.1 **287**	141.5 **284**	240.6 **280**	300.8 **277**	361.5 **273**

Flow (LPM)

9.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	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**	2912 **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) 1759
SPEED (RPM) 330

Performance data is typical. Actual data may vary slightly from one production motor to another.

11.9 cu in / rev

PRESSURE (PSI)

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**	3402 **14**
2	746 **38**	1580 **36**	2443 **35**	2962 **33**	3480 **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**

Flow (GPM)

TB SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TB SERIES

Code 0230

230 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9
1.9	89.9 **8**	192.5 **7**	298.3 **6**	406.4 **5**
3.8	92.4 **16**	195.8 **15**	302.9 **14**	412.3 **13**
7.6	94.9 **32**	200.5 **31**	308.7 **30**	418.0 **28**
11.4	95.5 **49**	202.1 **47**	310.7 **46**	420.9 **43**
15.1	95.8 **65**	205.1 **64**	315.1 **62**	425.0 **59**
18.9	94.9 **82**	204.8 **80**	316.0 **78**	427.3 **74**
26.5	90.3 **114**	202.2 **112**	314.6 **110**	426.6 **106**
34.1	83.7 **147**	196.4 **145**	309.3 **142**	422.7 **138**
45.4	69.3 **197**	182.5 **194**	296.7 **190**	411.8 **185**
56.8	53.4 **246**	185.6 **243**	277.6 **239**	391.7 **233**

TORQUE (nm) 277.6
SPEED (RPM) 239

Code 0260

260 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	100.0	131.0
1.9	102.4 **7**	220.0 **6**	328.8 **5**	440.2 **4**
3.8	105.3 **14**	224.2 **13**	334.9 **12**	447.1 **11**
7.6	108.2 **28**	229.6 **27**	341.8 **26**	455.5 **24**
11.4	108.6 **43**	231.3 **41**	344.0 **40**	457.8 **38**
15.1	108.8 **57**	234.3 **56**	348.7 **54**	463.0 **52**
18.9	107.8 **71**	234.3 **70**	349.8 **68**	465.1 **65**
26.5	102.7 **100**	231.5 **99**	348.4 **96**	464.6 **93**
34.1	95.4 **129**	224.9 **127**	342.6 **125**	459.8 **121**
45.4	78.6 **172**	209.1 **170**	328.0 **167**	446.6 **162**
56.8	61.0 **216**	190.1 **213**	306.3 **209**	424.0 **204**

Code 0295

295 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	96.6	124.1
1.9	117.4 **6**	251.8 **5**	362.4 **4**	474.5 **3**
3.8	120.8 **12**	257.7 **11**	368.9 **10**	479.9 **9**
7.6	124.1 **25**	263.5 **24**	377.0 **22**	490.7 **20**
11.4	124.3 **38**	264.8 **36**	378.8 **35**	492.1 **32**
15.1	124.1 **50**	267.3 **49**	382.6 **47**	496.9 **44**
18.9	122.7 **63**	266.7 **61**	383.1 **60**	498.8 **57**
26.5	116.8 **89**	262.7 **87**	379.7 **85**	496.4 **81**
34.1	107.9 **114**	254.2 **112**	372.3 **109**	490.0 **106**
45.4	89.5 **153**	235.6 **150**	354.9 **147**	473.8 **142**
56.8	68.5 **191**	212.3 **188**	328.5 **185**	446.8 **180**

13.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000
.5	796 **8**	1704 **7**	2640 **6**	3597 **5**
1	818 **16**	1733 **15**	2681 **14**	3649 **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**	1643 **243**	2457 **239**	3467 **233**

TORQUE (LB IN) 2457
SPEED (RPM) 239

15.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1450	1900
.5	906 **7**	1947 **6**	2910 **5**	3896 **4**
1	932 **14**	1984 **13**	2964 **12**	3957 **11**
2	958 **28**	2032 **27**	3025 **26**	4032 **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**

17.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	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**	4343 **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**

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0330

330 cc / rev

PRESSURE (BAR)

	34.5	69.0	93.1	113.8
1.9	134.7 **5**	282.2 **4**	387.0 **4**	477.6 **3**
3.8	138.3 **11**	288.7 **10**	394.9 **9**	485.7 **8**
7.6	141.8 **22**	296.0 **21**	404.6 **20**	497.8 **18**
11.4	142.2 **34**	297.5 **32**	406.4 **31**	499.8 **29**
15.1	142.1 **45**	301.2 **43**	411.8 **42**	506.2 **40**
18.9	140.4 **56**	301.1 **55**	413.2 **53**	509.0 **51**
26.5	134.0 **79**	296.8 **77**	410.6 **75**	507.5 **73**
34.1	123.4 **102**	287.4 **100**	402.5 **97**	500.6 **94**
45.4	102.2 **137**	267.0 **134**	383.1 **131**	482.3 **127**
56.8	78.2 **171**	240.5 **168**	354.3 **165**	452.0 **161**

Flow (LPM)

TORQUE (nm) 354.3
SPEED (RPM) 165

Code 0365

370 cc / rev

PRESSURE (BAR)

	34.5	69.0	86.2	105.2
1.9	157.4 **5**	332.4 **4**	421.9 **4**	521.6 **3**
3.8	163.1 **10**	339.5 **9**	428.9 **9**	527.8 **8**
7.6	168.8 **20**	349.1 **19**	439.5 **18**	538.8 **17**
11.4	167.8 **30**	348.2 **29**	438.7 **28**	538.3 **27**
15.1	166.9 **40**	349.0 **39**	440.3 **38**	540.4 **36**
18.9	164.0 **50**	347.4 **49**	439.2 **48**	539.5 **46**
26.5	154.9 **70**	340.0 **69**	432.3 **67**	533.2 **65**
34.1	142.4 **90**	327.5 **89**	420.4 **87**	522.1 **85**
45.4	113.2 **121**	300.3 **119**	394.1 **117**	496.3 **115**
56.8	79.1 **151**	266.1 **149**	360.4 **147**	462.7 **144**

Flow (LPM)

Code 0390

390 cc / rev

PRESSURE (BAR)

	34.5	69.0	82.8	100.0
1.9	147.9 **4**	325.9 **3**	399.3 **2**	492.5 **2**
3.8	154.6 **9**	333.1 **8**	405.5 **7**	496.4 **6**
7.6	160.1 **18**	342.1 **17**	416.1 **16**	510.2 **15**
11.4	161.2 **28**	345.5 **26**	419.6 **26**	512.9 **24**
15.1	163.0 **37**	350.5 **36**	425.3 **35**	519.1 **34**
18.9	162.6 **47**	352.5 **45**	428.2 **45**	523.1 **43**
26.5	157.3 **66**	351.4 **65**	428.4 **64**	524.5 **62**
34.1	146.5 **85**	343.5 **84**	421.6 **83**	519.4 **81**
45.4	122.8 **114**	320.3 **112**	400.1 **111**	499.1 **110**
56.8	93.9 **143**	290.5 **141**	369.7 **140**	468.3 **138**

Flow (LPM)

20.0 cu in / rev

PRESSURE (PSI)

	500	1000	1350	1650
.5	1192 **5**	2498 **4**	3425 **4**	4227 **3**
1	1224 **11**	2555 **10**	3495 **9**	4299 **8**
2	1255 **22**	2620 **21**	3581 **20**	4406 **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) 3136
SPEED (RPM) 165

22.6 cu in / rev

PRESSURE (PSI)

	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**	4769 **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)

24.0 cu in / rev

PRESSURE (PSI)

	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**	4516 **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**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

TB SERIES

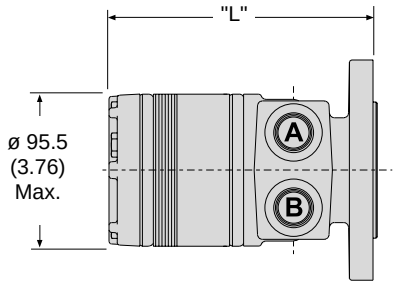
PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Dimensions

Inch equivalents for metric dimensions are shown in (**)



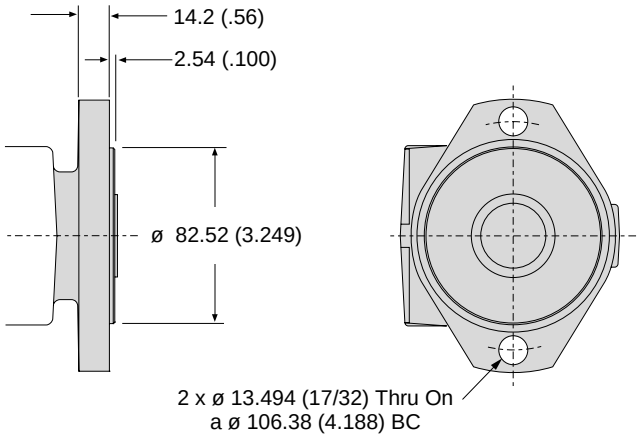
Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**
Rear Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**

Length "L" and Weight

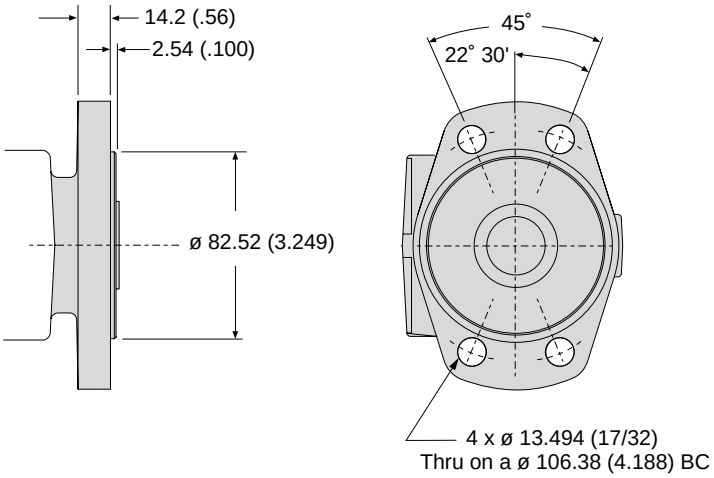
Displacement Code		0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
SAE "A" Mount															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	192	200	205
	(inches)	(5.36)	(5.42)	(5.54)	(5.67)	(5.79)	(6.04)	(6.29)	(6.54)	(6.79)	(7.04)	(7.29)	(7.54)	(7.88)	(8.04)
Weight	kg	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
	(lb)	(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)
4 Bolt															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	192	200	205
	(inches)	(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)	(8.05)
Weight	kg	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
	(lb)	(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)
Magneto Mount															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	192	200	205
	(inches)	(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	8.05
Weight	kg	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
	(lb)	(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)

Mounting

SAE A 2 Bolt



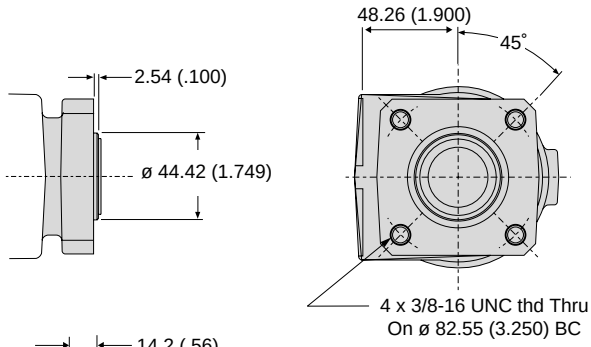
Magneto



Mounting

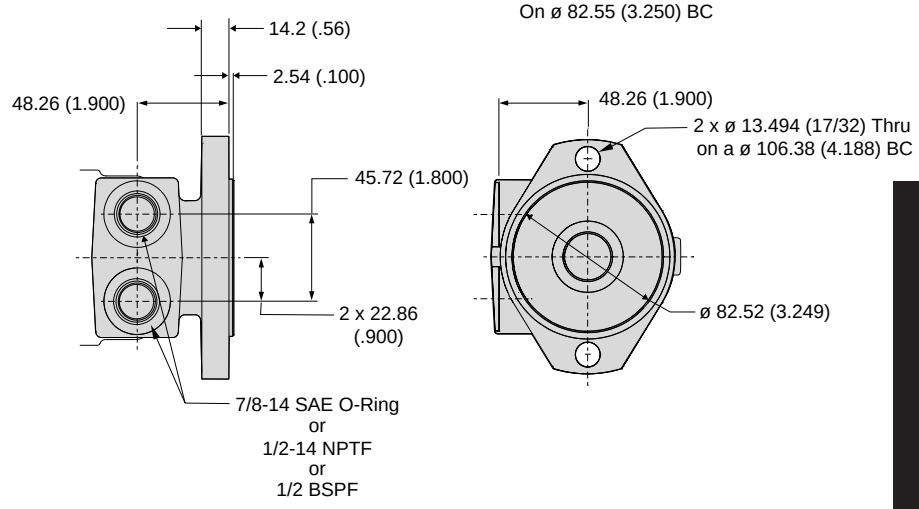
Inch equivalents for metric dimensions are shown in (**)

4 Bolt

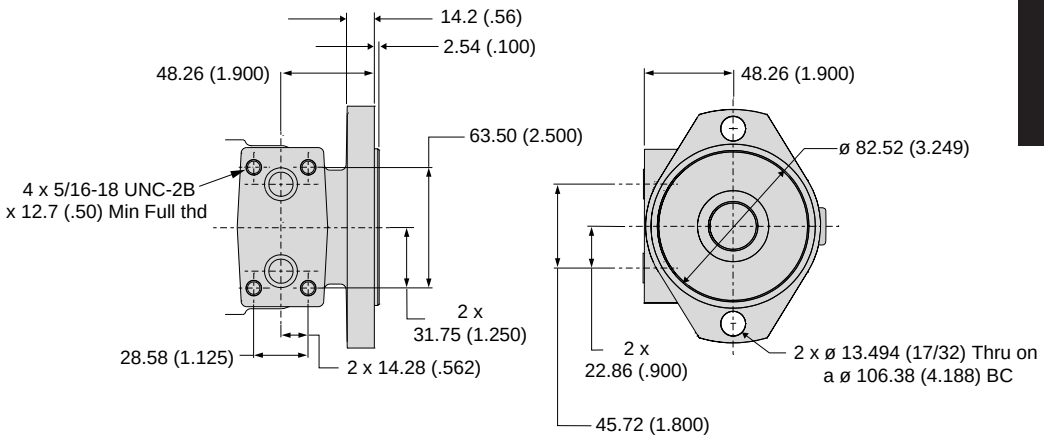


Porting

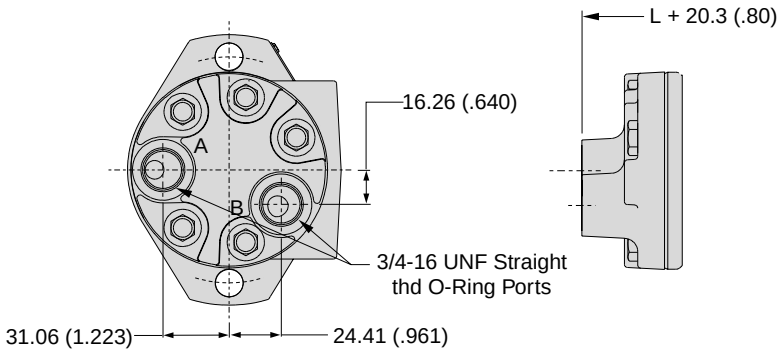
SAE O-Ring, NPTF, BSPF



Manifold



Rear, SAE O-Ring

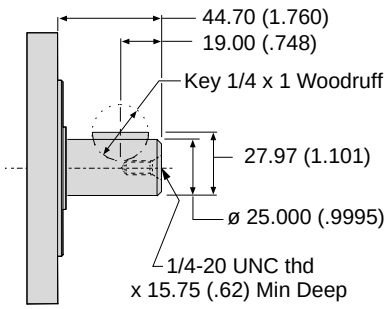


Consult Factory for
ISO6149 Porting

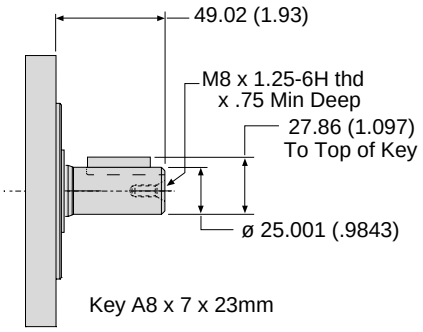
TB SERIES

Shaft

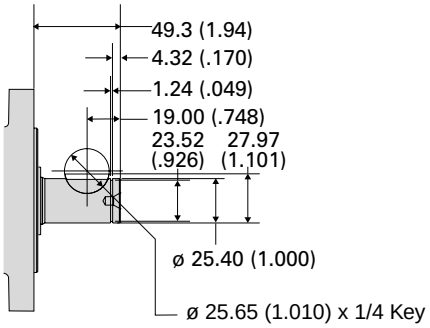
Inch equivalents for metric dimensions are shown in (**)



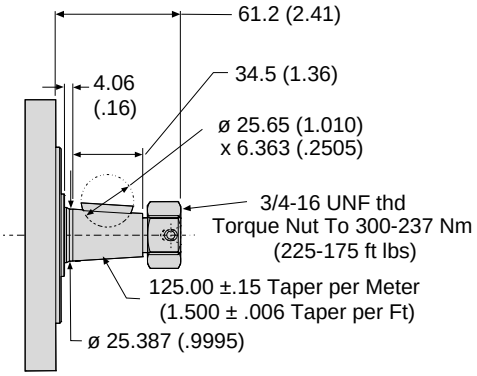
1" Key



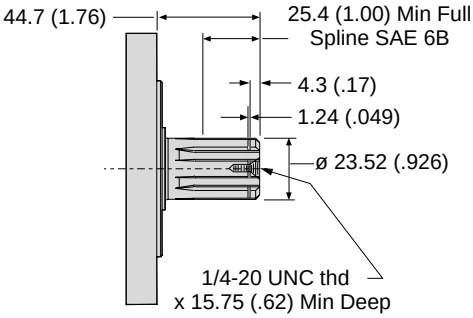
25mm Keyed



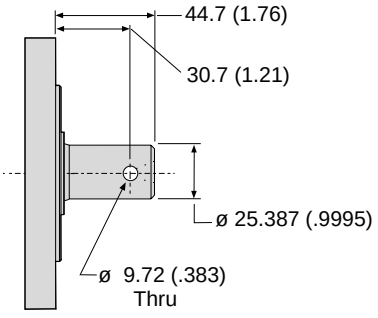
Long 1" Key



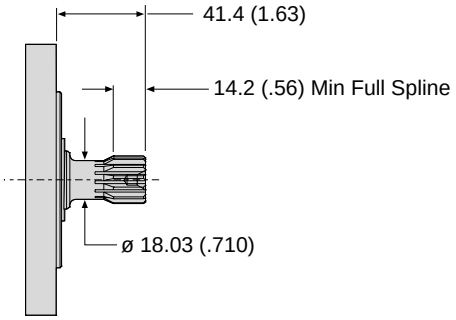
1" Tapered



1" 6B Spline



1" Straight Shaft w/ .38 Cross Hole



7/8" 13 Tooth Spline

PSLGC.PM6, dg, ki

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TB	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Mounting
A	SAE "A" 2 Bolt
F	4 Bolt
M	Magneto

Code	Rotation
0	Standard
1	Reverse Timed Manifold

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

Code	Displacement
0045	2.7 cu in/rev
0050	3.0 cu in/rev
0065	4.0 cu in/rev
0080	5.0 cu in/rev
0100	6.0 cu in/rev
0130	8.0 cu in/rev
0165	9.9 cu in/rev
0195	11.9 cu in/rev
0230	13.9 cu in/rev
0260	15.9 cu in/rev
0295	17.9 cu in/rev
0330	20.0 cu in/rev
0365	22.6 cu in/rev
0390	24.0 cu in/rev

Code	Porting
M	Manifold
P*	1/2"-14 NPTF
R	Rear; 3/4-16 SAE O-Ring
S	7/8"-14 SAE O-Ring
T**	1/2" BSPF

* Available on A & F mounting only
** Available on A & M mounting only

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAAF	Castle Nut, Black Paint
AABP	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AABJ*	Free Running Rotorset, Black Paint
AABK*	Free Running Rotorset, No Paint
AABL*	Free Running Rotorset, No Commutator Seal, Black Paint
AABM*	Free Running Rotorset, No Commutator Seal, No Paint
AAFC	White Epoxy Paint
AAHD	White Epoxy Paint, Viton Seals
AAJV	Bidirectional Shuttle (3:30), Black Paint
HAAA**	External Relief Valve (1894-1), Black Paint
HAAB**	External Relief Valve (1894-1), No Paint
HAAC**	External Relief Valve (1894-1), No Paint, Viton Seals

* Not applicable to TB0365 or TB0390 displacements
** Available only with porting code "M"

The Ultimate In Performance From A Small Frame Motor

Parker's TD Series motor provides all that could be expected of a general purpose motor and more. Patented 60:40 spline geometry provides drivetrain strength for severe applications. Roller vanes and sealed orbit commutation assure high volumetric efficiency and smooth low speed operation. Cooling fluid flow across splines and seals mean long, trouble free life.

Options

- All Common 1 inch, 25mm or 7/8 inch 13 Tooth Shafts
- SAE A 2 Bolt, 4 Bolt Magneto or 4 Bolt Mounting
- Wheel Mount
- SAE O-Ring, NPTF, Manifold or BSPF Porting
- Front or Rear Porting
- Speed Sensor
- External Cross - Over Relief Valve Package
- Free Running Rotor Set
- Reverse Timed Manifold
- Corrosion Resistance

Features

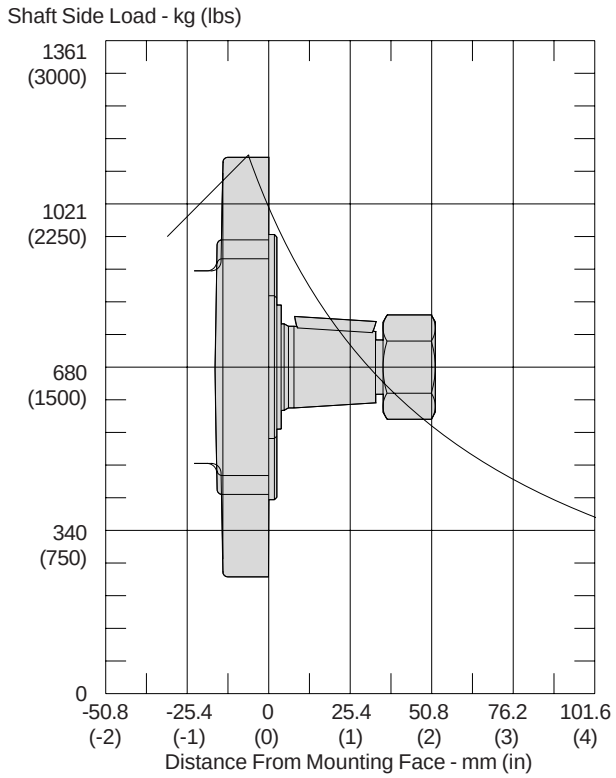
- **Roller Vane Power Element** — For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** — For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** — For Extended Spline Life
- **High Pressure Shaft Seal** — For High Back Pressure Operation Without External Drain Lines
- **High Flow Shaft Seal Cooling** — For Long Seal Life
- **60:40 Spline Geometry** — For Superior Powertrain Strength, Long Life

TD Specifications

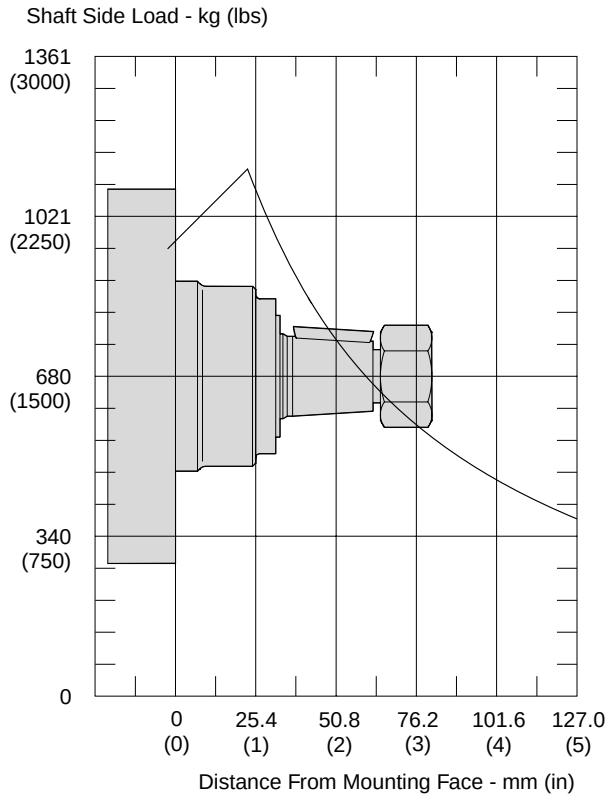
Code		0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Displacement	cc/rev	45	50	66	82	98	130	163	196	228	261	293	326	370	392
	(cu in/rev)	(2.7)	(3.0)	(4.0)	(5.0)	(6.0)	(8.0)	(10.0)	(11.9)	(13.9)	(15.9)	(17.9)	(20.0)	(22.6)	(24.0)
Maximum Speed (rpm) @ Maximum Continuous Flow		805	640	654	546	456	344	274	230	247	215	192	171	146	143
Pressure Differential															
Maximum Continuous	bar	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	120.7	113.8	106.9	100.0	91.4	86.2
	(psid)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(1750)	(1650)	(1550)	(1450)	(1325)	(1250)
Maximum Intermittent	bar	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	148.3	137.9	127.6	117.2	108.6	103.4
	(psid)	(2500)	(2500)	(2500)	(2500)	(2500)	(2500)	(2500)	(2500)	(2150)	(2000)	(1850)	(1700)	(1575)	(1500)
Max. Torque @ Max. Continuous Pressure	nm	70.5	88.7	122.0	153.5	183.5	248.7	308.7	379.6	370.2	402.3	427.5	443.6	467.6	444.6
	(lb-in)	(624)	(785)	(1080)	(1359)	(1624)	(2201)	(2732)	(3360)	(3277)	(3561)	(3784)	(3926)	(4139)	(3935)
Max. Torque @ Max. Intermittent Pressure	nm	90.0	112.8	154.2	194.1	231.9	313.6	389.4	476.9	461.0	492.9	515.6	523.2	558.6	538.7
	(lb-in)	(797)	(998)	(1365)	(1718)	(2053)	(2776)	(3447)	(4221)	(4080)	(4363)	(4564)	(4631)	(4944)	(4768)

PSLGC.PM6, dg, ki

Maximum Side Load Capacity Flange Mount

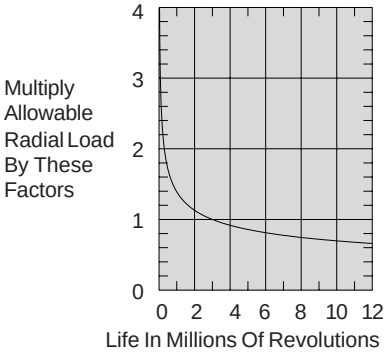


Wheel Mount



Application of the above uni-directional radial loads will result in a B-10 life of 3 million revolutions. For B-10 life at other radial loads, apply the factors from the curve at top of next column.

B-10 Life Factors



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% of each minute.*

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.

TD SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0045

45 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	13.7 **41**	30.7 **35**	48.0 **28**	65.4 **22**	83.0 **14**
3.8	14.2 **86**	31.9 **79**	49.7 **72**	67.7 **65**	85.5 **56**
7.6	14.5 **176**	32.5 **168**	51.1 **161**	69.9 **152**	89.0 **141**
11.4	14.2 **266**	32.4 **257**	51.2 **249**	70.0 **239**	89.1 **227**
15.1	13.9 **356**	32.2 **346**	51.3 **337**	70.5 **326**	89.9 **313**
18.9	13.4 **446**	31.7 **435**	51.0 **425**	70.5 **413**	90.0 **398**
26.5	11.9 **625**	30.5 **613**	49.7 **601**	69.5 **587**	89.6 **570**
34.1	10.6 **805**	29.3 **791**	48.6 **777**	68.4 **761**	88.6 **742**

Flow (LPM)

TORQUE (nm) 68.4
SPEED (RPM) 761

Code 0050

50 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	16.5 **32**	36.9 **23**	58.3 **13**	79.7 **6**	
3.8	18.0 **69**	39.0 **60**	60.7 **50**	82.1 **41**	103.3 **25**
7.6	19.2 **146**	41.1 **136**	63.6 **124**	86.3 **113**	108.6 **94**
11.4	18.9 **225**	41.0 **214**	63.8 **203**	86.8 **191**	109.5 **172**
15.1	19.1 **294**	41.5 **282**	64.9 **271**	88.6 **260**	112.2 **241**
18.9	18.6 **363**	41.2 **349**	64.9 **339**	88.7 **327**	112.8 **307**
26.5	17.6 **501**	40.3 **485**	64.2 **474**	88.4 **460**	112.6 **440**
34.1	15.9 **640**	38.6 **621**	62.7 **609**	87.1 **594**	111.6 **572**
45.4	12.9 **835**	35.8 **813**	60.0 **802**	84.5 **786**	109.1 **766**

Flow (LPM)

Code 0065

65 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	24.9 **24**	54.3 **17**	83.9 **11**	113.4 **3**	
3.8	26.2 **52**	56.3 **45**	86.2 **38**	115.8 **31**	145.0 **23**
7.6	27.0 **109**	57.8 **102**	89.1 **94**	120.4 **85**	150.9 **75**
11.4	26.9 **167**	57.8 **159**	89.3 **151**	120.7 **141**	151.4 **130**
15.1	26.8 **224**	58.1 **215**	89.8 **207**	121.8 **197**	153.3 **185**
18.9	26.3 **279**	57.7 **271**	89.7 **262**	122.0 **252**	154.2 **240**
26.5	24.4 **386**	56.2 **376**	88.5 **366**	121.1 **356**	153.8 **343**
34.1	22.0 **494**	53.9 **483**	86.3 **472**	119.1 **460**	152.2 **446**
45.4	17.2 **654**	49.1 **641**	81.8 **629**	114.9 **617**	148.5 **601**
56.8	11.5 **802**	43.8 **789**	87.7 **676**	109.5 **763**	142.9 **748**

Flow (LPM)

2.7 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	121 **41**	272 **35**	425 **28**	579 **22**	735 **14**
1	126 **86**	282 **79**	440 **72**	599 **65**	757 **56**
2	128 **176**	288 **168**	452 **161**	619 **152**	788 **141**
3	126 **266**	287 **257**	453 **249**	620 **239**	789 **227**
4	123 **356**	285 **346**	454 **337**	624 **326**	796 **313**
5	119 **446**	281 **435**	451 **425**	624 **413**	797 **398**
7	105 **625**	270 **613**	440 **601**	615 **587**	793 **570**
9	94 **805**	259 **791**	430 **777**	605 **761**	784 **742**

Flow (GPM)

TORQUE (LB IN) 605
SPEED (RPM) 761

3.0 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	146 **32**	327 **23**	516 **13**	705 **6**	
1	159 **69**	345 **60**	537 **50**	727 **41**	914 **25**
2	170 **146**	364 **136**	563 **124**	764 **113**	961 **94**
3	167 **225**	363 **214**	565 **203**	768 **191**	969 **172**
4	169 **294**	367 **282**	574 **271**	784 **260**	993 **241**
5	165 **363**	365 **349**	574 **339**	785 **327**	998 **307**
7	156 **501**	357 **485**	568 **474**	782 **460**	997 **440**
9	141 **640**	342 **621**	555 **609**	771 **594**	988 **572**
12	114 **835**	317 **813**	531 **802**	748 **786**	966 **766**

Flow (GPM)

4.0 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	220 **24**	481 **17**	743 **11**	1004 **3**	
1	232 **52**	498 **45**	763 **38**	1025 **31**	1283 **23**
2	239 **109**	512 **102**	789 **94**	1066 **85**	1336 **75**
3	238 **167**	512 **159**	790 **151**	1068 **141**	1340 **130**
4	237 **224**	514 **215**	795 **207**	1078 **197**	1357 **185**
5	233 **279**	511 **271**	794 **262**	1080 **252**	1365 **240**
7	216 **386**	497 **376**	783 **366**	1072 **356**	1361 **343**
9	195 **494**	477 **483**	764 **472**	1054 **460**	1347 **446**
12	152 **654**	435 **641**	724 **629**	1017 **617**	1314 **601**
15	102 **802**	388 **789**	776 **676**	969 **763**	1265 **748**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

TD SERIES

Code 0080

80 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	29.5 **17**	65.0 **8**			
3.8	31.2 **39**	67.3 **30**	103.7 **23**	140.7 **13**	178.8 **2**
7.6	32.8 **85**	71.3 **76**	110.0 **68**	148.0 **56**	183.3 **42**
11.4	32.9 **131**	71.5 **122**	110.5 **113**	149.0 **101**	186.9 **86**
15.1	33.1 **177**	72.5 **167**	112.4 **158**	152.2 **146**	190.5 **130**
18.9	32.8 **223**	72.4 **213**	112.9 **203**	153.5 **191**	193.5 **174**
26.5	30.8 **316**	71.0 **304**	111.7 **293**	152.9 **280**	194.1 **262**
34.1	28.1 **408**	68.1 **396**	109.1 **384**	150.7 **370**	192.4 **350**
45.4	22.3 **546**	62.3 **533**	103.5 **519**	145.4 **504**	187.7 **483**
56.8	15.4 **686**	55.8 **670**	96.8 **655**	138.5 **638**	181.0 **615**

Flow (LPM)

TORQUE (nm) 138.5
SPEED (RPM) 638

Code 0100

100 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	35.6 **14**	77.6 **7**			
3.8	37.5 **33**	80.2 **26**	122.4 **18**	165.0 **9**	
7.6	39.3 **71**	84.8 **64**	130.2 **55**	174.1 **45**	214.5 **33**
11.4	39.5 **109**	85.4 **102**	131.1 **92**	175.8 **83**	219.6 **69**
15.1	39.9 **147**	86.8 **140**	133.9 **130**	180.3 **120**	224.8 **106**
18.9	39.4 **186**	87.1 **178**	135.2 **168**	183.3 **158**	229.6 **143**
26.5	37.3 **263**	85.8 **254**	134.6 **244**	183.5 **232**	231.9 **217**
34.1	34.1 **340**	82.6 **330**	131.8 **319**	181.4 **307**	230.7 **292**
45.4	27.5 **456**	75.8 **444**	125.5 **433**	175.7 **420**	225.7 **403**
56.8	19.9 **572**	68.5 **558**	117.7 **546**	167.7 **533**	217.8 **514**

Flow (LPM)

5.0 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	261 **17**	575 **8**			
1	276 **39**	596 **30**	918 **23**	1245 **13**	1583 **2**
2	290 **85**	631 **76**	974 **68**	1310 **56**	1622 **42**
3	291 **131**	633 **122**	978 **113**	1319 **101**	1654 **86**
4	293 **177**	642 **167**	995 **158**	1347 **146**	1686 **130**
5	290 **223**	641 **213**	999 **203**	1359 **191**	1713 **174**
7	273 **316**	628 **304**	989 **293**	1353 **280**	1718 **262**
9	249 **408**	603 **396**	966 **384**	1334 **370**	1703 **350**
12	197 **546**	551 **533**	916 **519**	1287 **504**	1661 **483**
15	136 **686**	494 **670**	857 **655**	1226 **638**	1602 **615**

Flow (GPM)

TORQUE (LB IN) 1226
SPEED (RPM) 638

Performance data is typical. Actual data may vary slightly from one production motor to another.

6.0 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	315 **14**	687 **7**			
1	332 **33**	710 **26**	1083 **18**	1460 **9**	
2	348 **71**	751 **64**	1152 **55**	1541 **45**	1899 **33**
3	350 **109**	756 **102**	1160 **92**	1556 **83**	1944 **69**
4	353 **147**	768 **140**	1185 **130**	1596 **120**	1990 **106**
5	349 **186**	771 **178**	1197 **168**	1622 **158**	2032 **143**
7	330 **263**	759 **254**	1191 **244**	1624 **232**	2053 **217**
9	302 **340**	731 **330**	1167 **319**	1606 **307**	2042 **292**
12	243 **456**	671 **444**	1111 **433**	1555 **420**	1998 **403**
15	176 **572**	606 **558**	1042 **546**	1484 **533**	1928 **514**

Flow (GPM)

TD SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0130

130 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4
1.9	50.3 **12**	108.7 **10**	168.1 **7**	228.0 **3**	
3.8	52.4 **27**	112.5 **24**	172.3 **21**	231.7 **17**	291.1 **10**
7.6	54.5 **55**	116.6 **53**	179.0 **49**	241.3 **44**	302.0 **36**
11.4	54.6 **84**	117.2 **81**	180.1 **77**	242.9 **72**	304.1 **64**
15.1	54.6 **113**	118.7 **110**	182.9 **105**	246.7 **100**	309.7 **91**
18.9	54.0 **142**	118.6 **138**	183.6 **133**	248.7 **128**	313.3 **119**
26.5	50.8 **200**	116.3 **195**	182.2 **190**	248.0 **183**	313.6 **174**
34.1	46.8 **257**	112.2 **252**	178.4 **247**	244.7 **239**	311.3 **229**
45.4	38.2 **344**	103.4 **338**	169.8 **331**	236.8 **323**	304.1 **312**
56.8	28.5 **431**	93.4 **424**	159.1 **416**	225.5 **407**	292.8 **395**

Flow (LPM)

TORQUE (nm) 225.5
SPEED (RPM) 407

Code 0165

165 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4
1.9	62.4 **9**	132.8 **7**	204.8 **4**	277.6 **3**	
3.8	64.9 **21**	137.0 **18**	209.7 **16**	282.3 **12**	355.9 **8**
7.6	67.4 **44**	142.7 **41**	219.0 **38**	295.3 **33**	370.1 **28**
11.4	67.8 **67**	143.8 **64**	220.9 **60**	297.6 **55**	372.7 **49**
15.1	68.1 **90**	146.8 **87**	225.6 **83**	304.0 **78**	380.5 **71**
18.9	67.4 **113**	147.1 **109**	227.7 **105**	308.1 **100**	387.1 **93**
26.5	64.3 **159**	145.3 **155**	227.0 **150**	308.7 **144**	389.4 **137**
34.1	59.1 **205**	140.5 **201**	223.2 **195**	305.8 **189**	387.5 **181**
45.4	48.5 **274**	130.2 **269**	213.5 **263**	297.1 **256**	380.2 **247**
56.8	35.7 **344**	117.4 **338**	199.9 **331**	282.5 **323**	366.5 **313**

Flow (LPM)

8.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500
.5	445 **12**	962 **10**	1488 **7**	2018 **3**	
1	464 **27**	996 **24**	1525 **21**	2051 **17**	2577 **10**
2	482 **55**	1032 **53**	1584 **49**	2136 **44**	2673 **36**
3	483 **84**	1037 **81**	1594 **77**	2150 **72**	2692 **64**
4	483 **113**	1051 **110**	1619 **105**	2184 **100**	2741 **91**
5	478 **142**	1050 **138**	1625 **133**	2201 **128**	2773 **119**
7	450 **200**	1029 **195**	1613 **190**	2195 **183**	2776 **174**
9	414 **257**	993 **252**	1579 **247**	2166 **239**	2755 **229**
12	338 **344**	915 **338**	1503 **331**	2096 **323**	2692 **312**
15	252 **431**	827 **424**	1408 **416**	1996 **407**	2592 **395**

Flow (GPM)

TORQUE (LB IN) 1996
SPEED (RPM) 407

Performance data is typical. Actual data may vary slightly from one production motor to another.

10.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500
.5	552 **9**	1175 **7**	1813 **4**	2457 **3**	
1	574 **21**	1213 **18**	1856 **16**	2499 **12**	3150 **8**
2	597 **44**	1263 **41**	1938 **38**	2614 **33**	3276 **28**
3	600 **67**	1273 **64**	1955 **60**	2634 **55**	3299 **49**
4	603 **90**	1299 **87**	1997 **83**	2691 **78**	3368 **71**
5	597 **113**	1302 **109**	2015 **105**	2727 **100**	3426 **93**
7	569 **159**	1286 **155**	2009 **150**	2732 **144**	3447 **137**
9	523 **205**	1244 **201**	1976 **195**	2707 **189**	3430 **181**
12	429 **274**	1152 **269**	1890 **263**	2630 **256**	3365 **247**
15	316 **344**	1039 **338**	1769 **331**	2500 **323**	3244 **313**

Flow (GPM)

TD SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0195

195 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4
1.9	80.2 **8**	171.6 **7**	264.8 **5**	359.5 **3**	
3.8	83.2 **18**	176.0 **16**	269.7 **14**	363.9 **12**	457.8 **8**
7.6	85.6 **37**	180.3 **35**	276.2 **33**	373.1 **30**	468.2 **25**
11.4	85.6 **56**	181.2 **54**	277.8 **51**	374.5 **48**	470.0 **42**
15.1	85.5 **75**	182.8 **73**	280.4 **70**	378.0 **67**	474.4 **60**
18.9	84.4 **95**	182.5 **92**	281.1 **89**	379.6 **85**	476.9 **78**
26.5	79.7 **133**	179.2 **130**	278.7 **127**	377.7 **122**	475.6 **115**
34.1	73.0 **172**	172.6 **169**	272.8 **165**	372.8 **160**	471.5 **151**
45.4	59.9 **230**	159.1 **226**	260.2 **221**	361.2 **215**	461.6 **206**
56.8	44.5 **288**	143.8 **283**	242.6 **278**	342.0 **272**	442.4 **261**

Flow (LPM)

TORQUE (nm) 342.0
SPEED (RPM) 272

Code 0230

230 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	120.7	137.9	148.3
1.9	86.0 **7**	189.0 **6**	295.3 **5**	349.6 **4**	404.9 **3**	438.2 **3**
3.8	89.4 **15**	193.4 **14**	299.4 **13**	353.4 **12**	408.4 **11**	441.9 **10**
7.6	92.5 **32**	199.3 **30**	308.0 **29**	362.4 **28**	417.1 **26**	450.2 **25**
11.4	92.5 **48**	200.1 **47**	309.2 **45**	364.5 **44**	420.1 **42**	453.7 **41**
15.1	92.8 **65**	201.9 **63**	312.4 **61**	367.9 **60**	423.7 **58**	457.5 **57**
18.9	91.3 **81**	201.8 **79**	313.7 **77**	370.2 **76**	426.8 **74**	461.0 **73**
26.5	87.0 **114**	198.4 **112**	311.3 **109**	367.7 **108**	424.8 **106**	459.0 **105**
34.1	79.7 **147**	192.0 **145**	306.2 **142**	363.3 **140**	420.7 **138**	455.1 **137**
45.4	65.6 **197**	178.7 **194**	293.2 **191**	350.6 **189**	408.6 **186**	443.6 **185**
56.8	45.2 **247**	159.2 **243**	275.3 **239**	333.2 **237**	391.6 **235**	426.7 **233**
75.7	7.2 **329**	118.9 **325**	233.5 **321**	291.5 **319**	350.2 **316**	386.1 **314**

Flow (LPM)

11.9 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500
.5	710 **8**	1519 **7**	2344 **5**	3182 **3**	
1	736 **18**	1558 **16**	2387 **14**	3221 **12**	4052 **8**
2	758 **37**	1596 **35**	2445 **33**	3302 **30**	4144 **25**
3	758 **56**	1604 **54**	2459 **51**	3315 **48**	4160 **42**
4	757 **75**	1618 **73**	2482 **70**	3346 **67**	4199 **60**
5	747 **95**	1615 **92**	2488 **89**	3360 **85**	4221 **78**
7	705 **133**	1586 **130**	2467 **127**	3343 **122**	4210 **115**
9	646 **172**	1528 **169**	2415 **165**	3300 **160**	4173 **151**
12	530 **230**	1408 **226**	2303 **221**	3197 **215**	4086 **206**
15	394 **288**	1273 **283**	2147 **278**	3027 **272**	3916 **261**

Flow (GPM)

TORQUE (LB IN) 3027
SPEED (RPM) 272

Performance data is typical. Actual data may vary slightly from one production motor to another.

13.9 cu in / rev

PRESSURE (PSI)

	500	1000	1500	1750	2000	2150
.5	761 **7**	1673 **6**	2614 **5**	3094 **4**	3584 **3**	3879 **3**
1	791 **15**	1712 **14**	2650 **13**	3128 **12**	3615 **11**	3911 **10**
2	819 **32**	1764 **30**	2726 **29**	3208 **28**	3692 **26**	3985 **25**
3	819 **48**	1771 **47**	2737 **45**	3226 **44**	3718 **42**	4016 **41**
4	821 **65**	1787 **63**	2765 **61**	3256 **60**	3750 **58**	4049 **57**
5	808 **81**	1786 **79**	2777 **77**	3277 **76**	3778 **74**	4080 **73**
7	770 **114**	1756 **112**	2755 **109**	3255 **108**	3760 **106**	4063 **105**
9	705 **147**	1699 **145**	2710 **142**	3216 **140**	3724 **138**	4028 **137**
12	581 **197**	1582 **194**	2595 **191**	3103 **189**	3617 **186**	3926 **185**
15	400 **247**	1409 **243**	2437 **239**	2949 **237**	3466 **235**	3777 **233**
20	64 **329**	1052 **325**	2067 **321**	2580 **319**	3100 **316**	3417 **314**

Flow (GPM)

TD SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0260

260 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	113.8	137.9
1.9	102.6 **7**	221.6 **6**	344.4 **6**	381.9 **6**	468.8 **5**
3.8	106.0 **14**	226.6 **13**	350.1 **13**	387.9 **12**	474.9 **12**
7.6	109.7 **28**	232.6 **27**	357.6 **26**	395.5 **26**	483.7 **24**
11.4	109.4 **43**	233.3 **42**	358.9 **40**	397.0 **39**	485.6 **38**
15.1	109.6 **57**	235.1 **56**	361.9 **54**	400.1 **53**	489.5 **51**
18.9	108.1 **71**	235.5 **70**	363.7 **68**	402.3 **67**	492.9 **65**
26.5	102.5 **100**	231.5 **98**	361.3 **96**	400.2 **95**	491.5 **92**
34.1	94.6 **129**	224.3 **127**	355.1 **124**	394.2 **123**	485.7 **119**
45.4	78.2 **172**	208.3 **169**	340.7 **166**	380.4 **164**	473.4 **160**
56.8	55.2 **215**	186.1 **212**	319.7 **208**	360.2 **206**	454.9 **202**
75.7	14.6 **287**	141.8 **283**	273.2 **279**	313.3 **277**	408.0 **272**

TORQUE (nm) 313.3
SPEED (RPM) 277

15.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	1650	2000
.5	908 **7**	1961 **6**	3048 **6**	3380 **6**	4149 **5**
1	938 **14**	2006 **13**	3099 **13**	3433 **12**	4203 **12**
2	971 **28**	2059 **27**	3165 **26**	3501 **26**	4281 **24**
3	968 **43**	2065 **42**	3177 **40**	3514 **39**	4298 **38**
4	970 **57**	2081 **56**	3203 **54**	3541 **53**	4333 **51**
5	957 **71**	2084 **70**	3219 **68**	3561 **67**	4363 **65**
7	907 **100**	2049 **98**	3198 **96**	3542 **95**	4350 **92**
9	837 **129**	1985 **127**	3143 **124**	3489 **123**	4299 **119**
12	692 **172**	1844 **169**	3016 **166**	3367 **164**	4190 **160**
15	489 **215**	1647 **212**	2830 **208**	3188 **206**	4026 **202**
20	129 **287**	1255 **283**	2418 **279**	2773 **277**	3611 **272**

TORQUE (LB IN) 2773
SPEED (RPM) 277

Performance data is typical. Actual data may vary slightly from one production motor to another.

Code 0295

295 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	106.9	127.6
1.9	114.6 **6**	250.4 **5**	390.1 **4**	404.0 **4**	487.8 **3**
3.8	118.7 **12**	256.5 **11**	396.4 **10**	410.5 **10**	493.9 **9**
7.6	122.9 **25**	263.7 **24**	406.7 **22**	421.1 **22**	506.8 **21**
11.4	122.6 **38**	264.1 **36**	408.0 **35**	422.4 **34**	508.5 **33**
15.1	122.6 **50**	265.8 **49**	411.1 **47**	425.8 **47**	512.8 **45**
18.9	121.1 **63**	265.7 **62**	412.8 **60**	427.5 **59**	515.6 **58**
26.5	115.1 **89**	261.1 **87**	409.4 **85**	424.2 **84**	513.5 **82**
34.1	106.1 **115**	252.7 **113**	402.3 **110**	417.2 **110**	507.4 **107**
45.4	87.7 **153**	234.3 **151**	384.5 **148**	399.6 **147**	490.8 **145**
56.8	61.6 **192**	209.4 **189**	359.7 **186**	375.0 **185**	466.7 **182**
75.7	14.2 **256**	159.1 **253**	304.7 **249**	319.3 **249**	408.0 **246**

17.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	1550	1850
.5	1014 **6**	2216 **5**	3453 **4**	3576 **4**	4318 **3**
1	1051 **12**	2270 **11**	3509 **10**	3633 **10**	4372 **9**
2	1088 **25**	2334 **24**	3600 **22**	3727 **22**	4486 **21**
3	1085 **38**	2338 **36**	3611 **35**	3739 **34**	4501 **33**
4	1085 **50**	2353 **49**	3639 **47**	3769 **47**	4539 **45**
5	1072 **63**	2352 **62**	3654 **60**	3784 **59**	4564 **58**
7	1019 **89**	2311 **87**	3624 **85**	3755 **84**	4545 **82**
9	939 **115**	2237 **113**	3561 **110**	3693 **110**	4491 **107**
12	776 **153**	2074 **151**	3403 **148**	3537 **147**	4344 **145**
15	545 **192**	1853 **189**	3184 **186**	3319 **185**	4131 **182**
20	126 **256**	1408 **253**	2697 **249**	2826 **249**	3611 **246**

TD SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0330

330 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	100.0	117.2
1.9	133.8 **5**	283.2 **5**	420.5 **4**	496.4 **4**
3.8	137.6 **11**	289.0 **10**	426.2 **9**	501.6 **9**
7.6	142.1 **22**	297.4 **21**	436.9 **20**	514.6 **19**
11.4	141.3 **34**	297.5 **32**	438.2 **31**	516.3 **30**
15.1	141.1 **45**	299.3 **44**	441.6 **42**	520.7 **41**
18.9	138.9 **57**	299.2 **55**	443.6 **53**	523.2 **51**
26.5	131.3 **80**	293.7 **78**	440.4 **75**	521.3 **73**
34.1	120.2 **103**	284.5 **100**	432.6 **98**	514.1 **95**
45.4	98.9 **137**	263.6 **135**	413.2 **131**	495.1 **129**
56.8	70.2 **171**	235.1 **169**	386.4 **165**	469.9 **162**
75.7	18.4 **229**	178.1 **226**	324.8 **222**	406.7 **218**

TORQUE (nm) 324.8
SPEED (RPM) 222

19.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1450	1700
.5	1184 **5**	2507 **5**	3722 **4**	4394 **4**
1	1218 **11**	2558 **10**	3772 **9**	4440 **9**
2	1258 **22**	2632 **21**	3867 **20**	4555 **19**
3	1251 **34**	2633 **32**	3879 **31**	4570 **30**
4	1249 **45**	2649 **44**	3909 **42**	4609 **41**
5	1229 **57**	2648 **55**	3926 **53**	4631 **51**
7	1162 **80**	2600 **78**	3898 **75**	4614 **73**
9	1064 **103**	2518 **100**	3829 **98**	4550 **95**
12	875 **137**	2333 **135**	3657 **131**	4382 **129**
15	621 **171**	2081 **169**	3420 **165**	4159 **162**
20	163 **229**	1576 **226**	2875 **222**	3600 **218**

TORQUE (LB IN) 2875
SPEED (RPM) 222

Code 0365

370 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	91.4	108.6
1.9	157.4 **5**	332.4 **4**	449.0 **4**	540.2 **3**
3.8	163.1 **10**	339.5 **9**	456.0 **8**	545.9 **8**
7.6	168.8 **20**	349.1 **19**	466.7 **18**	557.1 **17**
11.4	167.8 **30**	348.2 **29**	466.0 **28**	556.7 **27**
15.1	166.9 **40**	349.0 **39**	467.6 **37**	558.6 **36**
18.9	164.0 **50**	347.4 **49**	466.6 **47**	557.7 **46**
26.5	154.9 **70**	340.0 **69**	459.9 **67**	551.3 **65**
34.1	142.4 **90**	327.5 **89**	414.5 **87**	540.5 **85**
45.4	113.2 **121**	300.3 **119**	422.2 **117**	515.2 **114**
56.8	79.1 **151**	266.1 **149**	387.7 **146**	481.4 **144**
75.7	17.2 **201**	200.7 **199**	320.6 **196**	412.3 **193**

22.6 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1325	1575
.5	1393 **5**	2942 **4**	3974 **4**	4781 **3**
1	1444 **10**	3005 **9**	4036 **8**	4832 **8**
2	1494 **20**	3090 **19**	4131 **18**	4931 **17**
3	1485 **30**	3082 **29**	4125 **28**	4927 **27**
4	1477 **40**	3089 **39**	4139 **37**	4944 **36**
5	1452 **50**	3075 **49**	4130 **47**	4936 **46**
7	1371 **70**	3009 **69**	4071 **67**	4880 **65**
9	1260 **90**	2899 **89**	3669 **87**	4784 **85**
12	1002 **121**	2658 **119**	3737 **117**	4560 **114**
15	700 **151**	2355 **149**	3432 **146**	4261 **144**
20	152 **201**	1776 **199**	2838 **196**	3649 **193**

Performance data is typical. Actual data may vary slightly from one production motor to another.

Code 0390

390 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	86.2	103.4
1.9	149.8 **4**	326.4 **3**	416.0 **2**	507.8 **2**
3.8	155.9 **9**	331.5 **7**	420.7 **7**	511.7 **6**
7.6	163.0 **18**	342.8 **17**	433.8 **15**	525.6 **14**
11.4	162.9 **28**	344.5 **26**	436.2 **25**	528.6 **23**
15.1	164.3 **37**	348.4 **36**	441.2 **34**	534.4 **33**
30.3	163.5 **47**	350.7 **45**	444.6 **44**	538.7 **42**
26.5	157.4 **66**	348.0 **64**	443.2 **62**	538.3 **61**
34.1	146.5 **85**	340.4 **83**	437.0 **81**	533.3 **80**
45.4	122.9 **114**	318.4 **112**	416.4 **110**	514.1 **108**
56.8	90.0 **143**	286.9 **140**	385.7 **138**	484.5 **136**
75.7	29.8 **191**	226.6 **188**	325.4 **186**	423.6 **184**

24.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1250	1500
.5	1326 **4**	2889 **3**	3682 **2**	4495 **2**
1	1380 **9**	2934 **7**	3724 **7**	4529 **6**
2	1443 **18**	3034 **17**	3840 **15**	4652 **14**
3	1442 **28**	3049 **26**	3861 **25**	4679 **23**
4	1454 **37**	3084 **36**	3905 **34**	4730 **33**
5	1447 **47**	3104 **45**	3935 **44**	4768 **42**
7	1393 **66**	3080 **64**	3923 **62**	4765 **61**
9	1297 **85**	3013 **83**	3868 **81**	4720 **80**
12	1088 **114**	2818 **112**	3686 **110**	4550 **108**
15	797 **143**	2539 **140**	3414 **138**	4288 **136**
20	264 **191**	2006 **188**	2880 **186**	3749 **184**

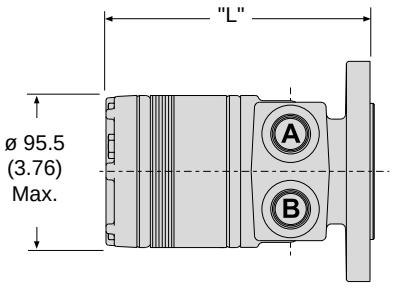
TD SERIES

PSLGC.PM6, dg, ki

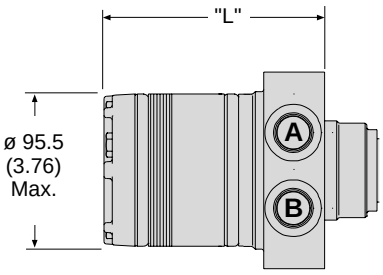
Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Dimensions

Inch equivalents for metric dimensions are shown in (**)



Flange Mount



Wheel Mount

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**
Rear Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**

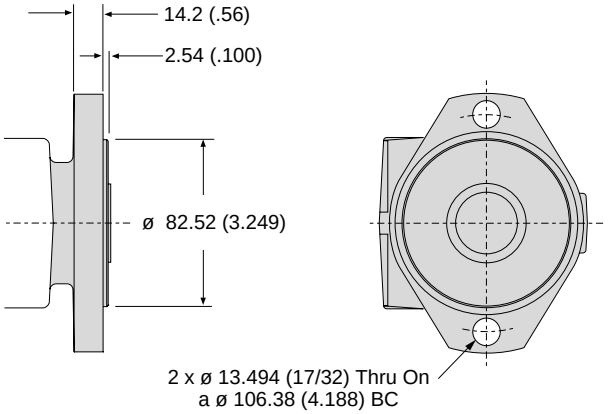
Length "L" and Weight

Displacement, Code		0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
SAE "A" Mount															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	195	200	205
	(inches)	(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)
Weight	kg	6.09	6.17	6.30	6.44	6.51	6.82	7.08	7.37	7.56	7.86	8.02	8.34	8.71	8.84
	(lb)	(13.4)	(13.6)	(13.9)	(14.2)	(14.4)	(15.0)	(15.6)	(16.2)	(16.7)	(17.3)	(17.7)	(18.4)	(19.2)	(19.5)
4 Bolt															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	195	200	205
	(inches)	(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)	(8.05)
Weight	kg	5.66	5.74	5.88	6.01	6.08	6.40	6.65	6.94	7.14	7.43	7.60	7.92	8.30	8.42
	(lb)	(12.5)	(12.7)	(13.0)	(13.3)	(13.4)	(14.1)	(14.7)	(15.3)	(15.7)	(16.4)	(16.7)	(17.5)	(18.3)	(18.6)
Magneto Mount															
Length "L"	mm	136	138	141	144	147	154	160	166	173	179	185	195	200	205
	(inches)	(5.36)	(5.42)	(5.55)	(5.67)	(5.80)	(6.05)	(6.30)	(6.55)	(6.80)	(7.05)	(7.30)	(7.55)	(7.88)	(8.05)
Weight	kg	6.35	6.44	6.58	6.71	6.80	7.08	7.35	7.62	7.85	8.12	8.30	8.62	8.98	9.12
	(lb)	(14.0)	(14.2)	(14.5)	(14.8)	(15.0)	(15.6)	(16.2)	(16.8)	(17.3)	(17.9)	(18.3)	(19.0)	(19.8)	(20.1)
Wheel Mount															
Length "L"	mm	107	109	112	115	118	124	131	137	143	150	156	162	171	175
	(inches)	(4.21)	(4.27)	(4.39)	(4.52)	(4.64)	(4.89)	(5.14)	(5.39)	(5.64)	(5.89)	(6.14)	(6.39)	(6.73)	(6.89)
Weight	kg	6.80	6.87	7.01	7.14	7.22	7.53	7.79	8.07	8.27	8.57	8.73	9.05	9.43	9.55
	(lb)	(15.0)	(15.2)	(15.5)	(15.8)	(15.9)	(16.6)	(17.2)	(17.8)	(18.2)	(18.9)	(19.2)	(20.0)	(20.8)	(21.1)

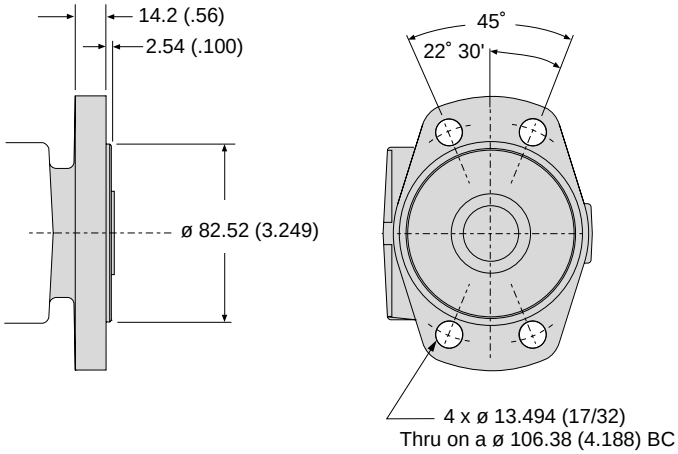
Mounting

Inch equivalents for metric dimensions are shown in (**)

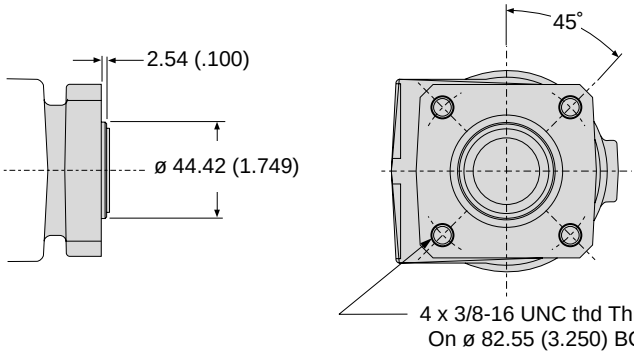
SAE A 2 Bolt



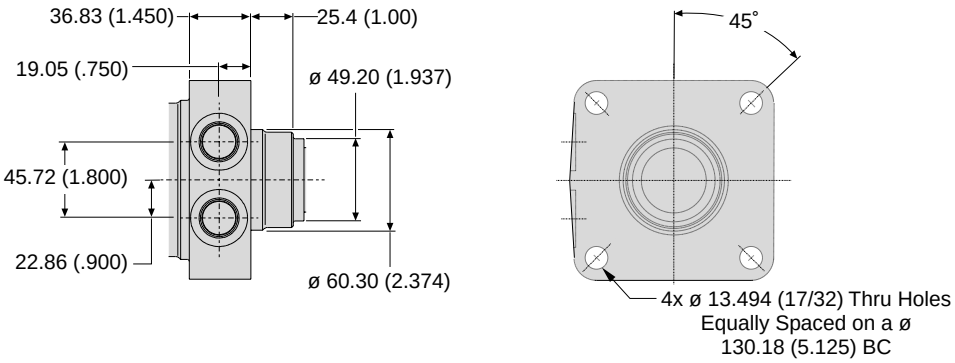
Magneto



4 Bolt



Wheel Mount

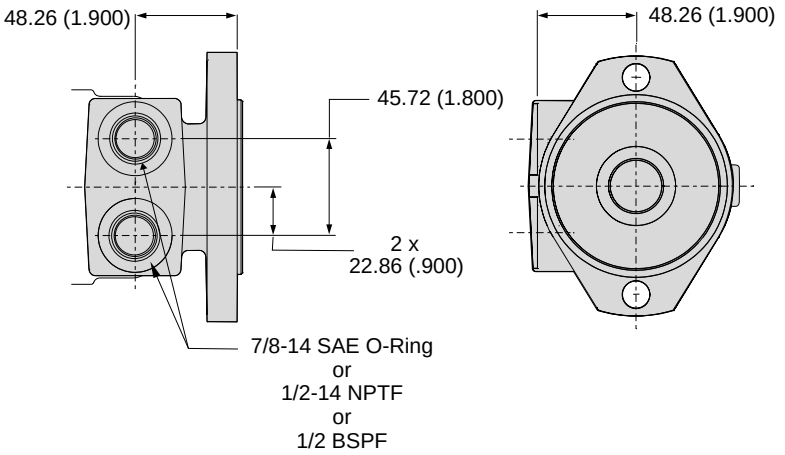


TD SERIES

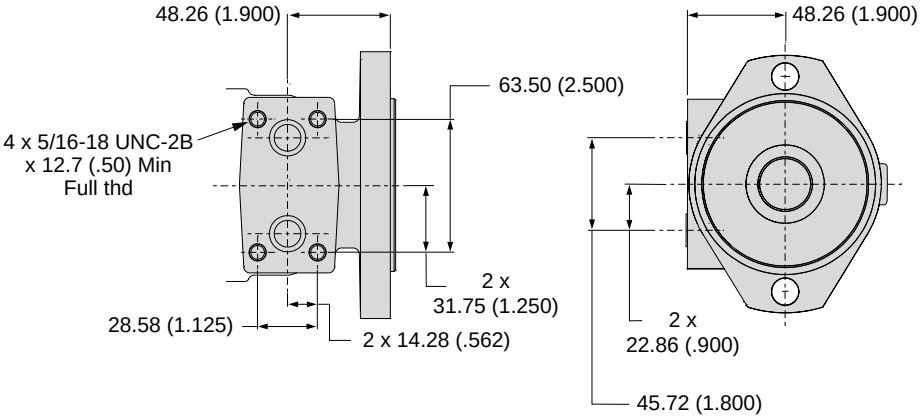
Porting

Inch equivalents for metric dimensions are shown in (**)

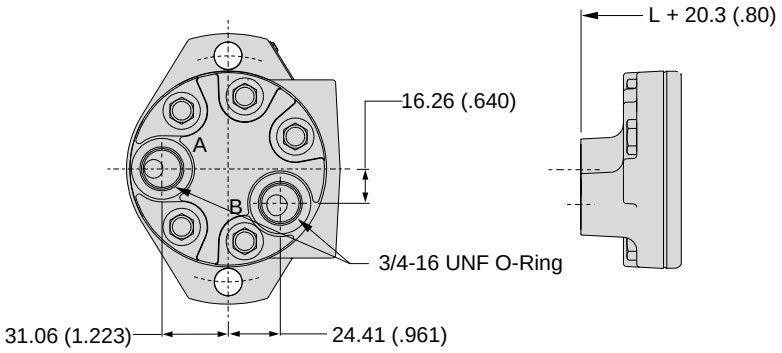
SAE O-Ring, NPTF, BSPF



Manifold



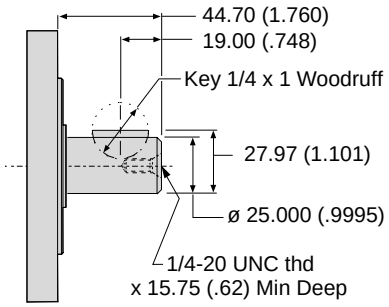
Rear, SAE O-Ring



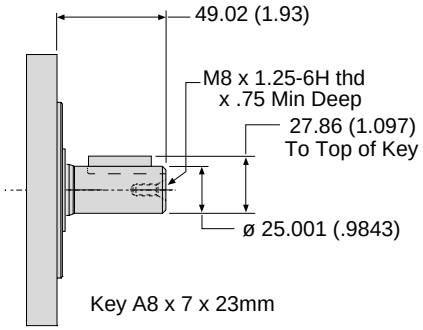
T D S E R I E S

Shaft

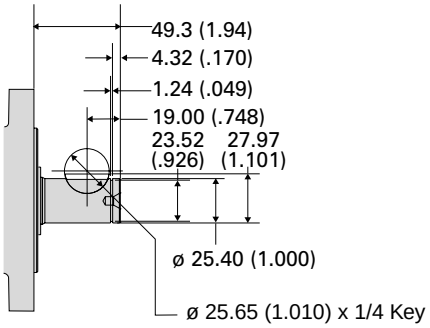
Inch equivalents for metric dimensions are shown in (**)



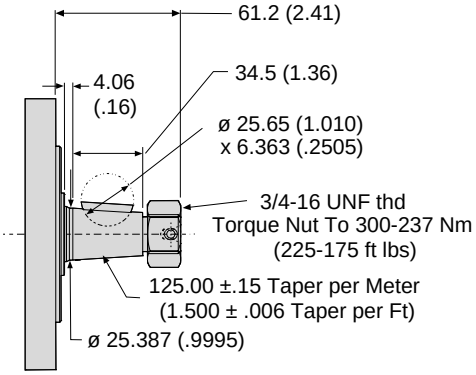
1" Key



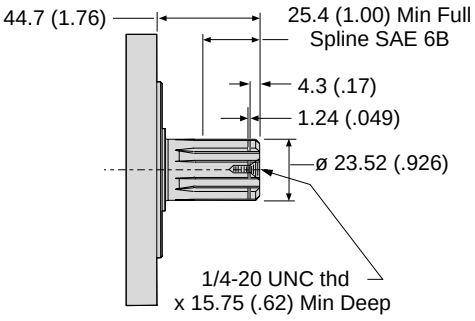
25mm Keyed



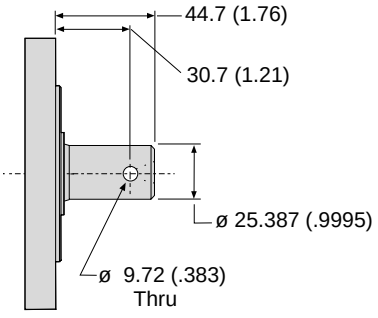
Long 1" Key



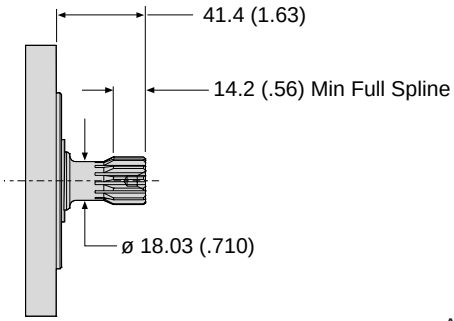
1" Tapered



1" 6B Spline



1" Straight Shaft w/ .38 Cross Hole



7/8" 13 Tooth Spline

Add 1.05" to Shaft Length for Wheel Mount Option

TD SERIES

TD	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0045	2.7 cu in/rev
0050	3.0 cu in/rev
0065	4.0 cu in/rev
0080	5.0 cu in/rev
0100	6.0 cu in/rev
0130	8.0 cu in/rev
0165	10.0 cu in/rev
0195	11.9 cu in/rev
0230	13.9 cu in/rev
0260	15.9 cu in/rev
0295	17.9 cu in/rev
0330	19.9 cu in/rev
0365	22.6 cu in/rev
0390	24.0 cu in/rev

Code	Porting
M***	Manifold
P*	1/2"-14 NPTF
R	Rear; 3/4-16 SAE O-Ring
S	7/8"-14 SAE O-Ring
T**	1/2" BSPF

* Available on A & F mounting only
** Available on A & M mounting only
*** Available on A, F & M mounting only

Code	Rotation
0	Standard
1	Reverse Timed Manifold

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

Code	Mounting
A	SAE "A" 2 Bolt
F	4 Bolt
M	Magneto
N	Midmount
U	Wheel

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAAF	Castle Nut, Black Paint
AABP	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AABJ*	Free Running Rotorset, Black Paint
AABK*	Free Running Rotorset, No Paint
AABL*	Free Running Rotorset, No Commutator Seal, Black Paint
AABM*	Free Running Rotorset, No Commutator Seal, No Paint
AAFC	White Epoxy Paint
AAHD	White Epoxy Paint, Viton Seals
AAJV	Bidirectional Shuttle (3:30), Black Paint
FFAB	Internal Speed Sensor, No Paint
FFAA	Internal Speed Sensor, Black Paint
HAAA**	External Relief Valve (1894-1), Black Paint
HAAB**	External Relief Valve (1894-1), No Paint
HAAC**	External Relief Valve (1894-1), No Paint, Viton Seals

* Not applicable to TD0365 or TD0390 displacements
** Available only with porting code "M"

Quick Reference Data Chart			
Series	**TF**	**TG**	**TH**
Displacement cc/rev (cu in/rev)	81-477 (4.9-29.1)	140-958 (8.6-58.5)	140-958 (8.6-58.5)
Max Continuous Pressure bar (psi)	206.8 (3000)	206.8 (3000)	206.8 (3000)
Max Intermittent Pressure bar (psi)	275.8 (4000)	275.8 (4000)	275.8 (4000)
Max Continuous Torque nm (lb in)	680.9 (6027)	1142.1 (9239)	1142.1 (9239)
Max Intermittent Torque nm (lb in)	917.5 (8121)	1489.7 (12636)	1489.7 (12636)
Max Continuous Flow LPM (GPM)	76 (20)	76 (20)	76 (20)
Max Intermittent Flow LPM (GPM)	95 (25)	114 (30)	114 (30)
Max Speed RPM	749	660	660
Max Radial Load daN (lb)	3008 (6762)	3008 (6762)	3093 (6953)

A Tough Motor for Tough Applications

Sturdy construction throughout makes Parker's TF Series motors suitable for the most severe applications. The powertrain uses patented 60:40 spline geometry for strength. All splines are constantly flushed with cool fluid for durability. Roller vanes and sealed commutation assure high volumetric efficiency, smooth low speed operation and extended life. Shaft seals can withstand full system pressure and are washed in cool fluid for long life.

Options

- 1 inch Keyed or Splined, 1 1/4 inch Keyed, Splined or Tapered, 25mm Shafts
- SAE A 2 Bolt, SAE B 2 Bolt or 4 Bolt Magneto Mounting
- Wheel Mount
- SAE O-Ring, Manifold or BSPF Porting
- Front or Rear Porting
- Brake Motor
- Clutch Motor
- Speed Sensor
- Internal Cross - Over Relief Valves
- Hot Oil Shuttle
- Free Running Rotor Set
- Reverse Timed Manifold
- Corrosion Resistance

Features

- **Roller Bearings —** For Heavy Radial Loads
- **Roller Vane Power Element —** For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** — For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** — For Extended Spline Life
- **High Pressure Shaft Seal** — For High Back Pressure Operation Without External Drain Lines
- **High Flow Shaft Seal Cooling** — For Long Seal Life
- **60:40 Spline Geometry —** For Superior Powertrain Strength, Long Life
- **Robust Construction** — For Quiet operation

TF Specifications

Code		0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Displacement	cc/rev	81	100	128	141	169	197	238	280	364	405	477
	(cu in/rev)	(4.9)	(6.1)	(7.8)	(8.6)	(10.3)	(12.0)	(14.5)	(17.1)	(22.2)	(24.7)	(29.1)
Maximum Speed (rpm) @ Maximum Continuous Flow		553	562	436	397	332	285	315	267	204	185	156
Pressure Differential Maximum Continuous	bar	206.9	155.2	137.9	137.9	137.9	137.9	137.9	137.9	127.6	127.6	113.4
	(psid)	(3000)	(2250)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(1400)	(1850)	(1645)
Maximum Intermittent	(bar)	275.9	241.4	206.9	206.9	206.9	206.9	206.9	206.9	189.7	172.4	137.9
	psid	(4000)	(3500)	(3000)	(3000)	(3000)	(3000)	(3000)	(3000)	(2200)	(2500)	(2000)
Max. Torque @ Max. Continuous Pressure	nm	221.4	202.0	236.6	261.4	328.9	376.1	456.0	545.4	658.8	722.3	767.1
	(lb-in)	(1957)	(1788)	(2094)	(2314)	(2911)	(3329)	(4036)	(4827)	(5831)	(6393)	(6790)
Max. Torque @ Max. Intermittent Pressure	nm	296.9	319.2	359.7	396.6	495.4	568.7	689.3	820.9	976.3	1072.5	933.0
	(lb-in)	(2628)	(2825)	(3184)	(3510)	(4385)	(5034)	(6101)	(7266)	(8641)	(8638)	(8258)

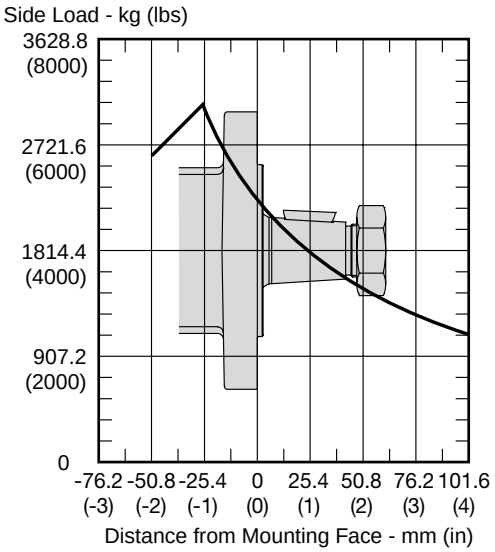
PSLGC.PM6, dg, ki

Parker Hydraulics

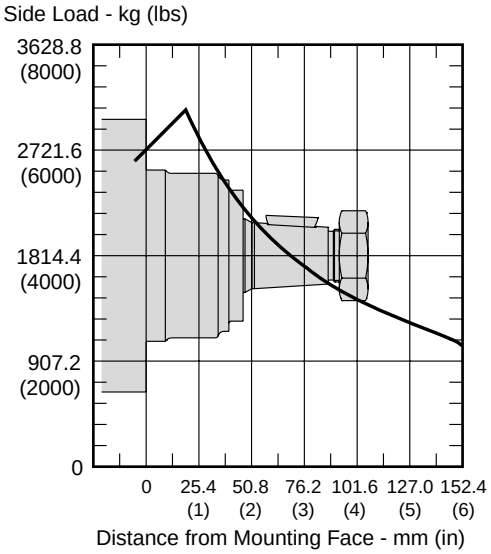
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Maximum Side Load Capacity

Flange Mount



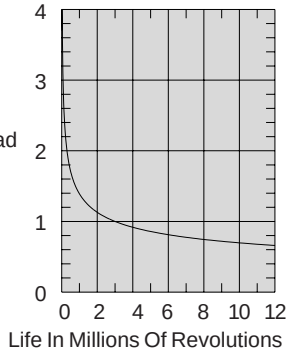
Wheel Mount



B-10 Life Factors

Application of the above uni-directional radial loads will result in a B-10 life of 3 million revolutions. For B-10 life at other radial loads, apply the factors from the curve to the right.

Multiply Allowable Radial Load By These Factors



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% per minute.*

Performance data based on testing using 10W40 oil with a viscosity of 200 SUS at 54° C (130° F.)

Code 0080

80 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	28.9 **19**	61.7 **14**	94.3 **8**	126.3 **1**				
3.8	30.5 **42**	65.0 **37**	98.0 **31**	130.0 **24**	162.0 **17**	193.5 **13**	226.2 **12**	258.6 **13**
7.6	31.7 **89**	67.6 **83**	103.6 **76**	139.3 **68**	173.7 **60**	205.7 **53**	236.1 **46**	265.7 **40**
11.4	31.9 **135**	67.9 **128**	104.2 **121**	139.9 **113**	174.8 **104**	208.4 **96**	241.6 **86**	274.3 **78**
15.1	32.1 **182**	68.9 **174**	106.0 **166**	142.8 **158**	179.2 **149**	214.5 **139**	248.8 **129**	281.4 **120**
18.9	31.9 **228**	69.1 **219**	106.7 **211**	144.4 **202**	181.6 **193**	218.3 **183**	254.2 **172**	289.2 **163**
26.5	31.0 **321**	68.6 **311**	106.8 **301**	145.2 **291**	183.3 **281**	221.1 **270**	258.5 **258**	295.1 **247**
34.1	29.6 **414**	67.4 **402**	105.9 **391**	144.5 **380**	183.3 **369**	221.4 **357**	259.3 **344**	296.9 **331**
45.4	27.0 **553**	64.9 **540**	103.5 **526**	142.4 **514**	181.3 **501**	220.1 **488**	258.4 **472**	296.1 **456**
56.8	24.3 **693**	61.7 **677**	100.1 **661**	139.1 **646**	178.4 **633**	217.7 **619**	256.4 **601**	294.3 **582**

Flow (LPM)

TORQUE (nm) 178.4
SPEED (RPM) 633

Code 0100

100 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	155.2	172.4	206.9	241.4
1.9	35.9 **14**	76.7 **9**	117.6 **4**					
3.8	37.8 **33**	79.4 **28**	120.4 **22**	161.6 **17**	182.0 **14**	202.3 **12**	244.3 **9**	287.3 **6**
7.6	39.7 **71**	83.9 **65**	127.9 **58**	171.1 **52**	192.1 **48**	212.6 **45**	253.2 **39**	294.0 **34**
11.4	39.5 **109**	84.3 **102**	128.6 **95**	172.3 **88**	194.0 **84**	215.5 **80**	258.5 **72**	301.8 **64**
15.1	39.9 **147**	85.2 **139**	130.6 **132**	175.6 **124**	197.9 **120**	220.1 **116**	263.7 **107**	306.9 **98**
18.9	39.8 **184**	85.8 **177**	131.8 **169**	177.6 **161**	200.4 **156**	223.0 **152**	267.8 **143**	312.1 **133**
26.5	38.8 **260**	85.1 **252**	131.7 **243**	178.6 **233**	202.0 **229**	225.3 **224**	271.3 **213**	317.5 **202**
34.1	37.2 **336**	83.7 **327**	130.9 **316**	178.4 **306**	202.0 **301**	225.6 **296**	272.4 **284**	319.1 **272**
45.4	33.8 **449**	80.8 **438**	128.5 **426**	176.4 **415**	200.3 **409**	224.3 **403**	271.8 **391**	319.2 **377**
56.8	29.3 **562**	76.7 **549**	125.0 **536**	173.1 **523**	197.3 **517**	221.3 **510**	269.7 **496**	317.8 **480**
75.7	21.0 **749**	68.6 **734**	116.8 **718**	165.3 **703**	189.7 **696**	214.2 **689**	263.4 **671**	312.2 **653**

Flow (LPM)

4.9 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000	3500	4000
.5	256 **19**	546 **14**	835 **8**	1118 **1**				
1	270 **42**	575 **37**	867 **31**	1151 **24**	1434 **17**	1713 **13**	2002 **12**	2289 **13**
2	281 **89**	598 **83**	917 **76**	1233 **68**	1537 **60**	1821 **53**	2090 **46**	2352 **40**
3	282 **135**	601 **128**	922 **121**	1238 **113**	1547 **104**	1845 **96**	2138 **86**	2428 **78**
4	284 **182**	610 **174**	938 **166**	1264 **158**	1586 **149**	1899 **139**	2202 **129**	2491 **120**
5	282 **228**	612 **219**	944 **211**	1278 **202**	1607 **193**	1932 **183**	2250 **172**	2560 **163**
7	274 **321**	607 **311**	945 **301**	1285 **291**	1622 **281**	1957 **270**	2288 **258**	2612 **247**
9	262 **414**	597 **402**	937 **391**	1279 **380**	1622 **369**	1960 **357**	2295 **344**	2628 **331**
12	239 **553**	574 **540**	916 **526**	1260 **514**	1605 **501**	1948 **488**	2287 **472**	2621 **456**
15	215 **693**	546 **677**	886 **661**	1231 **646**	1579 **633**	1927 **619**	2269 **601**	2605 **582**

Flow (GPM)

TORQUE (LB IN) 1231
SPEED (RPM) 646

6.1 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2250	2500	3000	3500
.5	318 **14**	679 **9**	1041 **4**					
1	335 **33**	703 **28**	1066 **22**	1430 **17**	1611 **14**	1791 **12**	2162 **9**	2543 **6**
2	351 **71**	743 **65**	1132 **58**	1514 **52**	1700 **48**	1882 **45**	2241 **39**	2602 **34**
3	350 **109**	746 **102**	1138 **95**	1525 **88**	1717 **84**	1907 **80**	2288 **72**	2671 **64**
4	353 **147**	754 **139**	1156 **132**	1554 **124**	1752 **120**	1948 **116**	2334 **107**	2716 **98**
5	352 **184**	759 **177**	1167 **169**	1572 **161**	1774 **156**	1974 **152**	2370 **143**	2762 **133**
7	343 **260**	753 **252**	1166 **243**	1581 **233**	1788 **229**	1994 **224**	2401 **213**	2810 **202**
9	329 **336**	741 **327**	1159 **316**	1579 **306**	1788 **301**	1997 **296**	2411 **284**	2824 **272**
12	299 **449**	715 **438**	1137 **426**	1561 **415**	1773 **409**	1985 **403**	2406 **391**	2825 **377**
15	259 **562**	679 **549**	1106 **536**	1532 **523**	1746 **517**	1959 **510**	2387 **496**	2813 **480**
20	186 **749**	607 **734**	1034 **718**	1463 **703**	1679 **696**	1896 **689**	2331 **671**	2763 **653**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Code 0130

130 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9
1.9	49.8 **10**	104.7 **7**	159.6 **3**			
3.8	51.5 **24**	107.1 **21**	162.7 **17**	218.6 **13**	273.6 **9**	328.7 **5**
7.6	54.0 **52**	112.0 **47**	168.9 **42**	226.4 **36**	283.4 **32**	340.0 **29**
11.4	53.7 **82**	112.2 **76**	170.6 **70**	228.6 **63**	286.2 **57**	343.7 **52**
15.1	54.1 **112**	113.7 **105**	172.7 **98**	231.4 **91**	290.1 **85**	348.4 **79**
18.9	54.0 **141**	114.6 **134**	174.9 **127**	234.5 **119**	293.7 **113**	351.9 **106**
26.5	52.8 **200**	114.1 **192**	175.5 **184**	236.6 **176**	297.4 **169**	357.7 **161**
34.1	50.5 **259**	112.5 **251**	174.7 **242**	236.6 **233**	298.3 **225**	359.7 **216**
45.4	46.3 **348**	108.6 **338**	171.5 **328**	234.2 **318**	296.7 **309**	358.9 **299**
56.8	41.2 **436**	103.3 **426**	166.5 **415**	229.5 **404**	292.5 **394**	355.7 **382**
75.7	29.7 **583**	91.7 **572**	154.9 **559**	218.4 **547**	282.2 **535**	345.6 **522**

Flow (LPM)

TORQUE (nm) 345.6
SPEED (RPM) 522

Code 0140

140 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9
1.9	54.8 **11**	115.8 **8**	176.2 **4**			
3.8	57.3 **24**	119.3 **20**	180.1 **16**	241.4 **12**	303.0 **8**	364.2 **5**
7.6	59.4 **50**	124.4 **46**	188.7 **42**	252.7 **37**	315.9 **33**	376.9 **28**
11.4	59.3 **77**	124.6 **72**	189.4 **68**	253.8 **63**	317.9 **57**	380.7 **52**
15.1	59.7 **103**	125.9 **98**	191.6 **93**	257.3 **88**	322.8 **82**	386.7 **77**
18.9	59.7 **130**	126.5 **125**	193.4 **119**	260.0 **113**	325.9 **107**	390.5 **101**
26.5	58.3 **184**	126.0 **177**	193.9 **170**	261.4 **164**	328.5 **158**	395.1 **151**
34.1	56.0 **237**	124.3 **230**	192.9 **222**	261.1 **215**	329.0 **208**	396.6 **200**
45.4	51.3 **317**	120.1 **309**	189.5 **300**	258.7 **292**	327.8 **284**	396.1 **275**
56.8	45.5 **397**	114.2 **388**	184.0 **378**	254.0 **368**	323.8 **359**	392.8 **349**
75.7	33.7 **530**	102.6 **520**	172.3 **508**	242.8 **497**	313.5 **485**	384.2 **473**

Flow (LPM)

7.8 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000
.5	441 **10**	927 **7**	1413 **3**			
1	456 **24**	948 **21**	1440 **17**	1935 **13**	2422 **9**	2909 **5**
2	478 **52**	991 **47**	1495 **42**	2004 **36**	2508 **32**	3009 **29**
3	475 **82**	993 **76**	1510 **70**	2023 **63**	2533 **57**	3042 **52**
4	479 **112**	1006 **105**	1529 **98**	2048 **91**	2568 **85**	3084 **79**
5	478 **141**	1014 **134**	1548 **127**	2076 **119**	2600 **113**	3115 **106**
7	467 **200**	1010 **192**	1553 **184**	2094 **176**	2632 **169**	3166 **161**
9	447 **259**	996 **251**	1546 **242**	2094 **233**	2640 **225**	3184 **216**
12	410 **348**	961 **338**	1518 **328**	2073 **318**	2626 **309**	3177 **299**
15	365 **436**	914 **426**	1474 **415**	2031 **404**	2589 **394**	3148 **382**
20	263 **583**	812 **572**	1371 **559**	1933 **547**	2498 **535**	3059 **522**

Flow (GPM)

TORQUE (LB IN) 1933
SPEED (RPM) 547

Performance data is typical. Actual data may vary slightly from one production motor to another.

8.6 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000
.5	485 **11**	1025 **8**	1560 **4**			
1	507 **24**	1056 **20**	1594 **16**	2137 **12**	2682 **8**	3224 **5**
2	526 **50**	1101 **46**	1670 **42**	2237 **37**	2796 **33**	3336 **28**
3	525 **77**	1103 **72**	1676 **68**	2246 **63**	2814 **57**	3370 **52**
4	528 **103**	1114 **98**	1696 **93**	2277 **88**	2857 **82**	3423 **77**
5	528 **130**	1120 **125**	1712 **119**	2301 **113**	2885 **107**	3456 **101**
7	516 **184**	1115 **177**	1716 **170**	2314 **164**	2908 **158**	3497 **151**
9	496 **237**	1100 **230**	1707 **222**	2311 **215**	2912 **208**	3510 **200**
12	454 **317**	1063 **309**	1677 **300**	2290 **292**	2901 **284**	3506 **275**
15	403 **397**	1011 **388**	1629 **378**	2248 **368**	2866 **359**	3477 **349**
20	298 **530**	908 **520**	1525 **508**	2149 **497**	2775 **485**	3401 **473**

Flow (GPM)

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0170

170 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9
1.9	70.8 **8**	147.3 **6**	223.7 **2**			
3.8	74.2 **19**	151.5 **16**	228.3 **12**	306.6 **9**	384.6 **4**	463.3 **1**
7.6	77.6 **42**	159.2 **38**	239.9 **34**	319.6 **29**	397.7 **25**	474.2 **21**
11.4	76.9 **64**	159.0 **60**	240.3 **56**	321.0 **51**	401.3 **45**	481.6 **40**
15.1	76.9 **86**	160.3 **82**	243.2 **77**	325.3 **72**	407.2 **67**	488.2 **61**
18.9	76.3 **109**	160.8 **104**	244.6 **99**	327.3 **94**	409.9 **88**	492.0 **82**
26.5	73.9 **153**	158.8 **148**	244.1 **143**	328.9 **137**	412.6 **130**	495.4 **123**
34.1	70.5 **198**	155.9 **193**	242.1 **186**	327.6 **180**	411.8 **173**	495.3 **165**
45.4	64.6 **265**	150.4 **259**	237.4 **252**	323.5 **244**	408.8 **236**	493.0 **228**
56.8	58.1 **332**	143.1 **325**	230.5 **317**	317.2 **309**	403.3 **300**	488.5 **291**
75.7	43.7 **444**	128.6 **436**	215.0 **427**	301.3 **417**	388.1 **407**	474.6 **396**

Flow (LPM)

TORQUE (nm) 301.3
SPEED (RPM) 417

Code 0195

195 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9
1.9	80.2 **8**	168.8 **7**	258.3 **5**	348.5 **3**		
3.8	83.3 **18**	173.7 **16**	263.7 **14**	354.0 **12**	445.8 **9**	538.6 **7**
7.6	85.5 **37**	179.3 **35**	273.1 **32**	366.3 **29**	459.5 **26**	552.1 **23**
11.4	85.6 **56**	179.8 **53**	273.9 **51**	367.6 **47**	461.6 **44**	555.2 **40**
15.1	85.8 **75**	181.2 **72**	276.8 **69**	371.9 **66**	466.7 **62**	560.9 **58**
30.3	85.3 **94**	181.9 **91**	278.9 **88**	375.2 **84**	470.3 **80**	564.9 **75**
26.5	83.3 **132**	180.7 **129**	278.7 **125**	376.1 **120**	472.8 **116**	568.7 **110**
34.1	80.1 **170**	178.2 **166**	276.9 **162**	375.0 **157**	472.4 **152**	568.7 **146**
45.4	73.7 **228**	172.1 **223**	271.7 **218**	370.9 **212**	469.3 **206**	566.9 **199**
56.8	66.2 **285**	163.9 **280**	264.1 **273**	364.0 **267**	463.2 **260**	561.6 **252**
75.7	43.0 **445**	42.4 **1303**	41.5 **2174**	40.6 **3056**	39.5 **3939**	38.5 **4822**

Flow (LPM)

10.3 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000
.5	627 **8**	1304 **6**	1980 **2**			
1	657 **19**	1341 **16**	2021 **12**	2714 **9**	3404 **4**	4101 **1**
2	687 **42**	1409 **38**	2123 **34**	2829 **29**	3520 **25**	4197 **21**
3	681 **64**	1407 **60**	2127 **56**	2841 **51**	3552 **45**	4263 **40**
4	681 **86**	1419 **82**	2153 **77**	2879 **72**	3604 **67**	4321 **61**
5	675 **109**	1423 **104**	2165 **99**	2897 **94**	3628 **88**	4355 **82**
7	654 **153**	1406 **148**	2161 **143**	2911 **137**	3652 **130**	4385 **123**
9	624 **198**	1380 **193**	2143 **186**	2900 **180**	3645 **173**	4384 **165**
12	572 **265**	1331 **259**	2101 **252**	2863 **244**	3618 **236**	4364 **228**
15	514 **332**	1267 **325**	2040 **317**	2808 **309**	3570 **300**	4324 **291**
20	387 **444**	1138 **436**	1903 **427**	2667 **417**	3435 **407**	4201 **396**

Flow (GPM)

TORQUE (LB IN) 4201
SPEED (RPM) 396

12.0 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000
.5	710 **8**	1494 **7**	2286 **5**	3085 **3**		
1	737 **18**	1537 **16**	2334 **14**	3133 **12**	3946 **9**	4767 **7**
2	757 **37**	1587 **35**	2417 **32**	3242 **29**	4067 **26**	4887 **23**
3	758 **56**	1591 **53**	2424 **51**	3254 **47**	4086 **44**	4914 **40**
4	759 **75**	1604 **72**	2450 **69**	3292 **66**	4131 **62**	4965 **58**
5	755 **94**	1610 **91**	2469 **88**	3321 **84**	4163 **80**	5000 **75**
7	737 **132**	1599 **129**	2467 **125**	3329 **120**	4185 **116**	5034 **110**
9	709 **170**	1577 **166**	2451 **162**	3319 **157**	4181 **152**	5034 **146**
12	652 **228**	1523 **223**	2405 **218**	3283 **212**	4154 **206**	5018 **199**
15	586 **285**	1451 **280**	2338 **273**	3222 **267**	4100 **260**	4971 **252**
20	381 **445**	375 **1303**	367 **2174**	359 **3056**	350 **3939**	341 **4822**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0240

240 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9
1.9	96.7 **7**	202.9 **5**	311.6 **3**	422.4 **1**		
3.8	99.8 **15**	207.7 **13**	316.5 **11**	427.1 **8**	537.3 **5**	648.6 **3**
7.6	103.9 **30**	216.0 **28**	328.8 **26**	440.1 **23**	551.3 **20**	662.5 **17**
11.4	103.8 **46**	216.9 **44**	330.7 **41**	444.1 **38**	556.3 **35**	668.7 **31**
15.1	104.4 **62**	219.3 **60**	334.2 **57**	448.2 **54**	562.4 **50**	676.2 **45**
18.9	103.8 **78**	220.1 **75**	336.1 **72**	451.7 **69**	566.8 **64**	680.7 **60**
26.5	102.1 **109**	220.0 **106**	338.4 **103**	456.0 **99**	572.4 **94**	688.0 **89**
34.1	98.1 **141**	217.1 **137**	336.9 **134**	455.6 **130**	573.0 **124**	689.3 **119**
45.4	92.1 **188**	210.8 **184**	331.0 **180**	451.7 **175**	570.9 **169**	688.0 **162**
56.8	82.0 **235**	202.3 **231**	323.7 **227**	444.5 **221**	565.1 **214**	684.0 **206**
75.7	60.9 **315**	182.6 **310**	304.9 **304**	427.3 **297**	549.4 **289**	669.7 **280**
94.6	37.8 **394**	158.6 **389**	278.4 **382**	400.2 **374**	523.5 **365**	646.0 **354**

TORQUE (nm) 646.0
SPEED (RPM) 354

Flow (LPM)

14.5 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000
.5	856 **7**	1796 **5**	2758 **3**	3739 **1**		
1	883 **15**	1838 **13**	2801 **11**	3780 **8**	4756 **5**	5741 **3**
2	920 **30**	1912 **28**	2910 **26**	3895 **23**	4880 **20**	5864 **17**
3	919 **46**	1920 **44**	2927 **41**	3931 **38**	4924 **35**	5919 **31**
4	924 **62**	1941 **60**	2958 **57**	3967 **54**	4978 **50**	5985 **45**
5	919 **78**	1948 **75**	2975 **72**	3998 **69**	5017 **64**	6025 **60**
7	904 **109**	1947 **106**	2995 **103**	4036 **99**	5066 **94**	6090 **89**
9	868 **141**	1922 **137**	2982 **134**	4033 **130**	5072 **124**	6101 **119**
12	815 **188**	1866 **184**	2930 **180**	3998 **175**	5053 **169**	6090 **162**
15	726 **235**	1791 **231**	2865 **227**	3934 **221**	5002 **214**	6054 **206**
20	539 **315**	1616 **310**	2699 **304**	3782 **297**	4863 **289**	5928 **280**
25	335 **394**	1404 **389**	2464 **382**	3542 **374**	4634 **365**	5718 **354**

TORQUE (LB IN) 5718
SPEED (RPM) 354

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Code 0280

280 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9
1.9	118.4 **6**	246.3 **5**	376.6 **4**	509.3 **3**	644.4 **2**	
3.8	122.0 **13**	252.7 **12**	384.0 **11**	517.1 **9**	651.0 **7**	782.4 **5**
7.6	126.5 **26**	261.7 **25**	397.2 **23**	533.9 **22**	668.3 **19**	801.3 **17**
11.4	126.2 **39**	262.1 **38**	398.6 **36**	535.8 **34**	672.1 **32**	806.0 **29**
15.1	126.5 **53**	264.0 **51**	402.1 **49**	539.8 **47**	676.5 **44**	812.0 **41**
18.9	125.3 **66**	264.6 **64**	403.9 **62**	542.5 **60**	680.1 **56**	815.5 **53**
26.5	122.7 **93**	263.4 **91**	404.7 **88**	545.4 **85**	684.4 **81**	820.9 **77**
34.1	117.5 **120**	259.7 **117**	402.4 **114**	543.5 **111**	683.3 **106**	820.7 **102**
45.4	110.5 **160**	251.5 **157**	394.8 **154**	537.6 **149**	678.0 **144**	815.4 **138**
56.8	100.3 **200**	242.5 **197**	386.3 **193**	529.7 **188**	671.7 **182**	810.7 **175**
75.7	76.6 **267**	219.7 **263**	364.1 **258**	508.6 **252**	652.7 **245**	794.1 **236**
94.6	49.9 **334**	190.5 **330**	331.9 **324**	475.2 **316**	619.9 **308**	763.1 **297**

Flow (LPM)

17.1 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000
.5	1048 **6**	2180 **5**	3333 **4**	4508 **3**	5704 **2**	
1	1080 **13**	2237 **12**	3399 **11**	4577 **9**	5762 **7**	6925 **5**
2	1120 **26**	2316 **25**	3516 **23**	4726 **22**	5915 **19**	7092 **17**
3	1117 **39**	2320 **38**	3528 **36**	4742 **34**	5949 **32**	7134 **29**
4	1120 **53**	2337 **51**	3559 **49**	4778 **47**	5988 **44**	7187 **41**
5	1109 **66**	2342 **64**	3575 **62**	4802 **60**	6020 **56**	7218 **53**
7	1086 **93**	2331 **91**	3582 **88**	4827 **85**	6058 **81**	7266 **77**
9	1040 **120**	2299 **117**	3562 **114**	4811 **111**	6048 **106**	7264 **102**
12	978 **160**	2226 **157**	3494 **154**	4758 **149**	6001 **144**	7217 **138**
15	888 **200**	2146 **197**	3419 **193**	4688 **188**	5945 **182**	7176 **175**
20	678 **267**	1945 **263**	3223 **258**	4502 **252**	5777 **245**	7029 **236**
25	442 **334**	1686 **330**	2938 **324**	4206 **316**	5487 **308**	6754 **297**

Flow (GPM)

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0360

365 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	127.6	137.9	172.4	189.7
1.9	162.2 **5**	333.9 **4**	508.1 **4**	630.7 **4**	683.2 **3**	859.6 **3**	948.2 **3**
3.8	168.6 **10**	343.7 **9**	518.7 **9**	640.8 **8**	693.2 **8**	866.9 **8**	954.1 **7**
7.6	173.1 **20**	351.8 **19**	530.0 **19**	653.5 **18**	706.0 **18**	881.1 **17**	968.8 **16**
11.4	172.5 **30**	351.8 **29**	530.9 **29**	654.8 **28**	707.6 **27**	882.8 **26**	970.5 **25**
15.1	172.4 **40**	353.1 **40**	533.0 **38**	657.7 **37**	710.6 **37**	886.6 **35**	974.3 **34**
18.9	169.9 **51**	351.8 **50**	533.2 **48**	658.8 **47**	712.2 **46**	888.7 **44**	976.3 **43**
26.5	166.0 **71**	349.1 **70**	530.7 **68**	656.3 **66**	709.7 **66**	886.9 **63**	975.0 **61**
34.1	157.3 **92**	340.9 **90**	524.2 **88**	651.4 **86**	705.3 **85**	883.2 **81**	971.1 **79**
45.4	144.5 **122**	327.9 **120**	511.3 **117**	638.7 **115**	692.9 **113**	871.3 **109**	959.5 **106**
56.8	125.0 **153**	309.5 **151**	495.4 **147**	623.4 **144**	677.8 **142**	856.2 **139**	943.9 **134**
75.7	94.9 **204**	278.5 **202**	464.9 **197**	593.8 **193**	647.9 **191**	828.0 **184**	917.5 **180**
94.6	58.3 **255**	241.6 **253**	424.4 **248**	550.9 **243**	605.1 **240**	788.1 **232**	879.5 **226**

TORQUE (nm) 879.5
SPEED (RPM) 226

Flow (LPM)

Code 0405

405 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	127.6	137.9	172.4
1.9	177.0 **4**	362.9 **4**	551.7 **3**	686.4 **2**	744.2 **2**	940.6 **2**
3.8	183.4 **9**	372.6 **8**	561.7 **7**	694.9 **6**	752.4 **6**	945.8 **5**
7.6	187.8 **18**	381.5 **17**	576.5 **16**	712.5 **14**	770.0 **14**	961.1 **12**
11.4	188.1 **27**	383.2 **26**	578.2 **24**	714.6 **23**	772.7 **22**	966.4 **20**
15.1	188.3 **37**	385.7 **35**	582.4 **33**	719.3 **32**	777.3 **31**	970.6 **28**
18.9	186.6 **46**	386.1 **44**	584.2 **42**	722.3 **40**	780.6 **39**	974.5 **36**
26.5	183.4 **64**	384.0 **62**	583.3 **60**	722.2 **58**	780.9 **56**	975.9 **53**
34.1	175.0 **83**	377.0 **81**	579.0 **78**	718.7 **75**	777.6 **73**	972.2 **69**
45.4	161.8 **111**	363.3 **108**	565.6 **104**	706.4 **101**	765.9 **99**	962.9 **94**
56.8	142.2 **138**	345.6 **136**	549.8 **131**	690.6 **128**	750.6 **126**	948.4 **120**
75.7	105.7 **185**	309.0 **182**	513.2 **177**	655.3 **172**	715.7 **170**	915.8 **162**
94.6	74.2 **231**	275.1 **229**	473.0 **222**	612.1 **217**	671.7 **214**	871.0 **205**

Flow (LPM)

22.2 cu in / rev

PRESSURE (PSI)

	500	1000	1500	1850	2000	2500	2750
.5	1436 **5**	2955 **4**	4497 **4**	5582 **4**	6047 **3**	7608 **3**	8393 **3**
1	1492 **10**	3042 **9**	4591 **9**	5672 **8**	6136 **8**	7673 **8**	8445 **7**
2	1532 **20**	3114 **19**	4691 **19**	5784 **18**	6249 **18**	7799 **17**	8575 **16**
3	1527 **30**	3114 **29**	4699 **29**	5796 **28**	6263 **27**	7814 **26**	8590 **25**
4	1526 **40**	3125 **40**	4718 **38**	5821 **37**	6290 **37**	7847 **35**	8624 **34**
5	1504 **51**	3114 **50**	4719 **48**	5831 **47**	6304 **46**	7866 **44**	8641 **43**
7	1469 **71**	3090 **70**	4697 **68**	5809 **66**	6282 **66**	7850 **63**	8630 **61**
9	1392 **92**	3017 **90**	4640 **88**	5766 **86**	6243 **85**	7817 **81**	8595 **79**
12	1279 **122**	2902 **120**	4526 **117**	5653 **115**	6133 **113**	7712 **109**	8493 **106**
15	1106 **153**	2739 **151**	4385 **147**	5518 **144**	5999 **142**	7578 **139**	8355 **134**
20	840 **204**	2465 **202**	4115 **197**	5256 **193**	5735 **191**	7329 **184**	8121 **180**
25	516 **255**	2138 **253**	3756 **248**	4876 **243**	5356 **240**	6976 **232**	7785 **226**

TORQUE (LB IN) 7785
SPEED (RPM) 226

Performance data is typical. Actual data may vary slightly from one production motor to another.

Flow (GPM)

24.7 cu in / rev

PRESSURE (PSI)

	500	1000	1500	1850	2000	2500
.5	1567 **4**	3212 **4**	4883 **3**	6075 **2**	6587 **2**	8325 **2**
1	1623 **9**	3298 **8**	4972 **7**	6151 **6**	6660 **6**	8371 **5**
2	1662 **18**	3377 **17**	5103 **16**	6306 **14**	6815 **14**	8507 **12**
3	1665 **27**	3392 **26**	5118 **24**	6325 **23**	6839 **22**	8554 **20**
4	1667 **37**	3414 **35**	5155 **33**	6367 **32**	6880 **31**	8591 **28**
5	1652 **46**	3417 **44**	5171 **42**	6393 **40**	6909 **39**	8625 **36**
7	1623 **64**	3399 **62**	5163 **60**	6392 **58**	6912 **56**	8638 **53**
9	1549 **83**	3337 **81**	5125 **78**	6361 **75**	6883 **73**	8605 **69**
12	1432 **111**	3216 **108**	5006 **104**	6252 **101**	6779 **99**	8523 **94**
15	1259 **138**	3059 **136**	4866 **131**	6113 **128**	6644 **126**	8394 **120**
20	936 **185**	2735 **182**	4542 **177**	5800 **172**	6335 **170**	8106 **162**
25	657 **231**	2435 **229**	4187 **222**	5418 **217**	5945 **214**	7709 **205**

Flow (GPM)

Code 0475

475 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	113.4	127.6	137.9
1.9	211.3 **4**	435.8 **3**	663.8 **3**	729.9 **3**	823.9 **2**	892.8 **2**
3.8	219.3 **8**	448.2 **7**	677.0 **7**	743.6 **6**	837.2 **6**	905.6 **6**
7.6	226.3 **15**	459.9 **15**	691.9 **14**	758.9 **14**	853.5 **13**	922.6 **13**
11.4	225.3 **23**	460.1 **23**	694.3 **22**	761.3 **21**	856.2 **20**	925.5 **20**
15.1	225.2 **31**	462.2 **30**	697.9 **29**	765.6 **28**	860.9 **27**	930.4 **27**
18.9	221.9 **39**	461.1 **38**	698.9 **37**	767.1 **36**	863.1 **35**	933.0 **34**
26.5	216.7 **55**	457.3 **54**	695.8 **52**	764.3 **51**	860.9 **50**	931.2 **48**
34.1	206.6 **70**	448.0 **59**	689.0 **67**	758.0 **66**	854.7 **64**	925.2 **63**
45.4	191.4 **94**	431.8 **92**	672.7 **89**	742.8 **89**	840.6 **87**	911.0 **85**
56.8	165.2 **117**	408.6 **116**	651.4 **112**	721.4 **111**	819.6 **109**	889.7 **107**
75.7	120.9 **156**	365.0 **154**	609.4 **151**	680.9 **149**	779.6 **147**	850.7 **145**
94.6	80.3 **195**	318.6 **194**	556.7 **190**	624.9 **188**	722.1 **185**	794.0 **183**

TORQUE (nm) 794.0
SPEED (RPM) 183

Flow (LPM)

29.1 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	1645	1850	2000
.5	1870 **4**	3857 **3**	5875 **3**	6460 **3**	7292 **2**	7902 **2**
1	1941 **8**	3967 **7**	5992 **7**	6582 **6**	7410 **6**	8016 **6**
2	2003 **15**	4071 **15**	6124 **14**	6717 **14**	7554 **13**	8166 **13**
3	1994 **23**	4072 **23**	6145 **22**	6738 **21**	7578 **20**	8192 **20**
4	1993 **31**	4091 **30**	6177 **29**	6776 **28**	7620 **27**	8235 **27**
5	1964 **39**	4081 **38**	6186 **37**	6790 **36**	7639 **35**	8258 **34**
7	1918 **55**	4048 **54**	6159 **52**	6765 **51**	7620 **50**	8242 **48**
9	1829 **70**	3965 **59**	6098 **67**	6709 **66**	7565 **64**	8189 **63**
12	1694 **94**	3822 **92**	5954 **89**	6575 **89**	7440 **87**	8063 **85**
15	1462 **117**	3617 **116**	5766 **112**	6385 **111**	7254 **109**	7875 **107**
20	1070 **156**	3231 **154**	5394 **151**	6027 **149**	6900 **147**	7530 **145**
25	711 **195**	2820 **194**	4927 **190**	5531 **188**	6391 **185**	7028 **183**

TORQUE (LB IN) 7028
SPEED (RPM) 183

Performance data is typical. Actual data may vary slightly from one production motor to another.

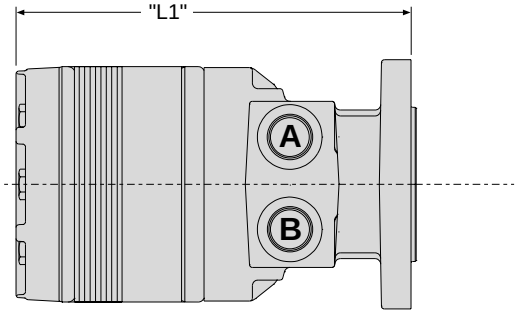
PSLGC.PM6, dg, ki

Parker Hydraulics

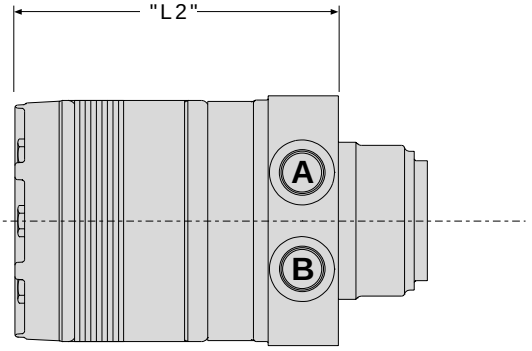
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Lengths & Weights

Inch equivalents for metric dimensions are shown in (**)



Magneto, SAE "A", SAE "B" Mounts



Wheel, Front Brake Nose Wheel, Optional Wheel Mounts

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**

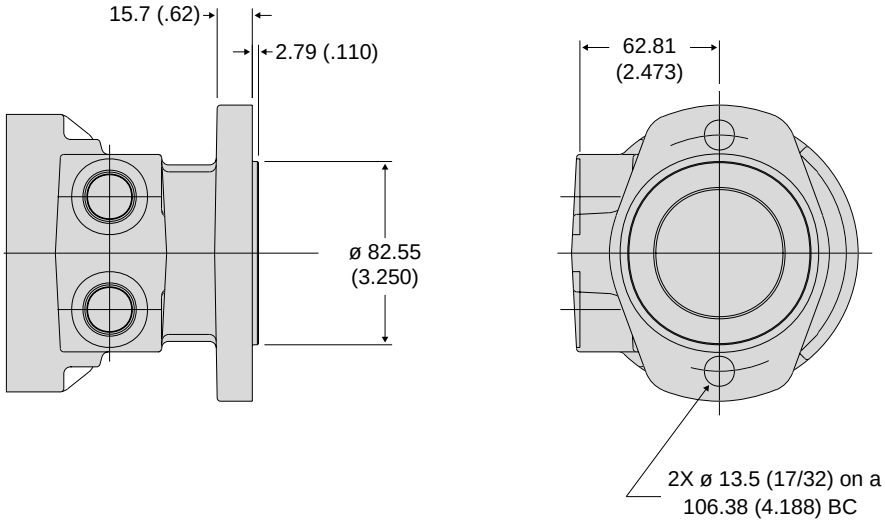
Length "L" and Weight

Displacement, Code		0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Magneto &SAE "A"												
Length "L1"	mm	191	191	194	196	199	202	207	211	221	225	234
	(inches)	(7.51)	(7.51)	(7.63)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.70)	(8.87)	(9.20)
Weight	kg	13.6	13.6	13.8	13.9	14.2	14.5	14.9	15.2	16.0	16.5	17.2
	(lb)	(29.9)	(30.0)	(30.5)	(30.7)	(31.3)	(31.9)	(32.9)	(33.5)	(35.2)	(36.4)	(37.9)
SAE "B"												
Length "L1"	mm	184	184	187	189	192	195	200	205	214	218	227
	(inches)	(7.25)	(7.25)	(7.37)	(7.44)	(7.56)	(7.69)	(7.87)	(8.06)	(8.44)	(8.60)	(8.94)
Weight	kg	14.2	14.2	14.5	14.6	14.8	15.1	15.5	15.8	16.6	17.1	17.8
	(lb)	(31.3)	(31.4)	(31.9)	(32.1)	(32.7)	(33.3)	(34.3)	(34.9)	(36.6)	(37.8)	(39.3)
Displacement, Code		**0080**	**0100**	**0130**	**0140**	**0170**	**0195**	**0240**	**0280**	**0360**	**0405**	**0475**
Wheel & Brake Mount												
Length "L2"	mm	146	146	149	150	153	157	161	166	176	180	188
	(inches)	(5.73)	(5.73)	(5.85)	(5.92)	(6.04)	(6.17)	(6.35)	(6.54)	(6.92)	(7.08)	(7.42)
Weight	kg	13.9	13.9	14.2	14.3	14.5	14.8	15.2	15.5	16.3	16.9	17.5
	(lb)	(30.6)	(30.7)	(31.2)	(31.5)	(32.0)	(32.7)	(33.6)	(34.2)	(35.9)	(37.2)	(38.6)
Optional Wheel Mount												
Length "L2"	mm	173	173	176	178	180	184	189	194	203	207	216
	(inches)	(6.80)	(6.80)	(6.93)	(6.99)	(7.11)	(7.24)	(7.43)	(7.61)	(7.99)	(8.15)	(8.49)
Weight	kg	16.9	16.9	17.2	17.3	17.5	17.8	18.2	18.5	19.3	19.8	20.5
	(lb)	(37.2)	(37.3)	(37.8)	(38.0)	(38.6)	(39.2)	(40.2)	(40.8)	(42.5)	(43.7)	(45.2)

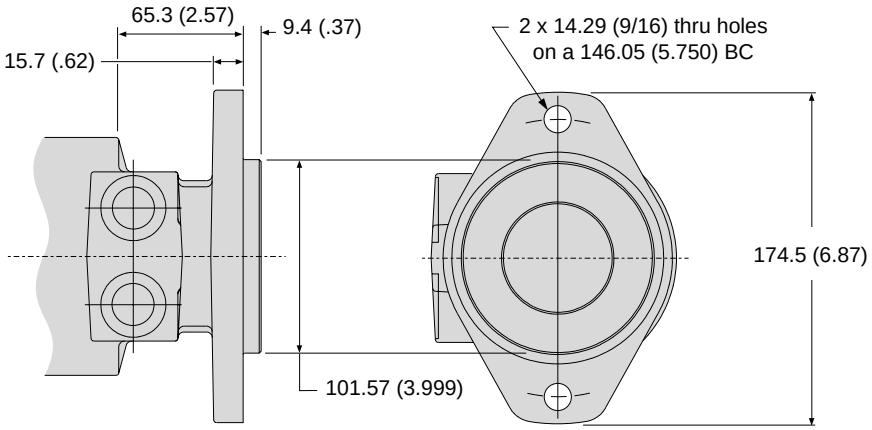
Mounting

Inch equivalents for metric dimensions are shown in (**)

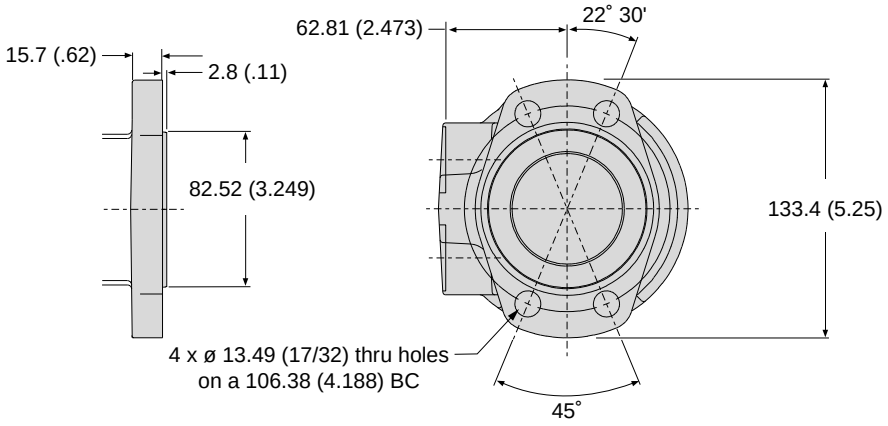
SAE "A" 2 Bolt Flange



SAE "B" 2 Bolt Flange



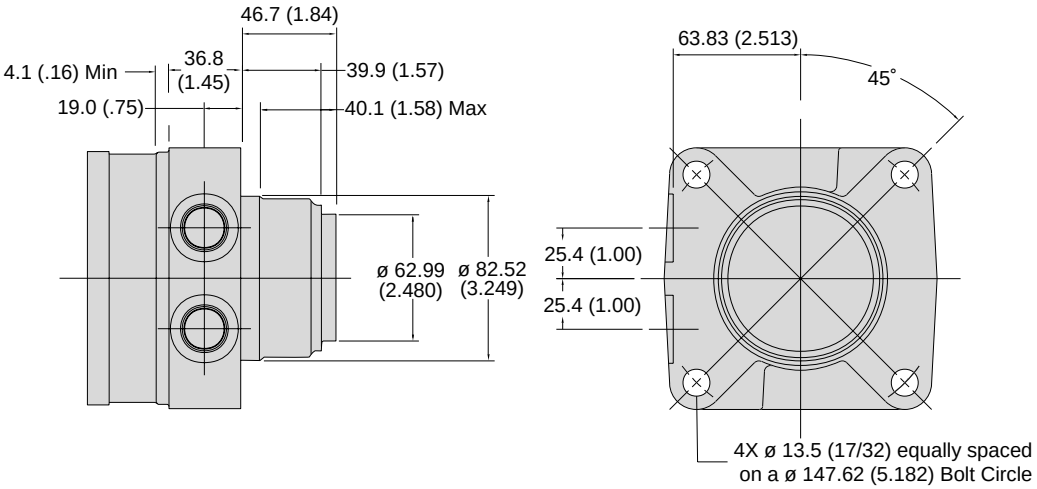
4 Bolt Magneto



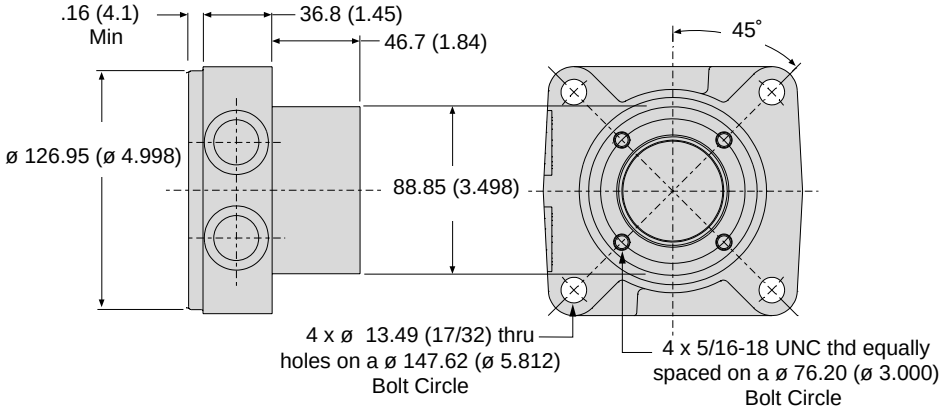
Mounting, Wheel

Inch equivalents for metric dimensions are shown in (**)

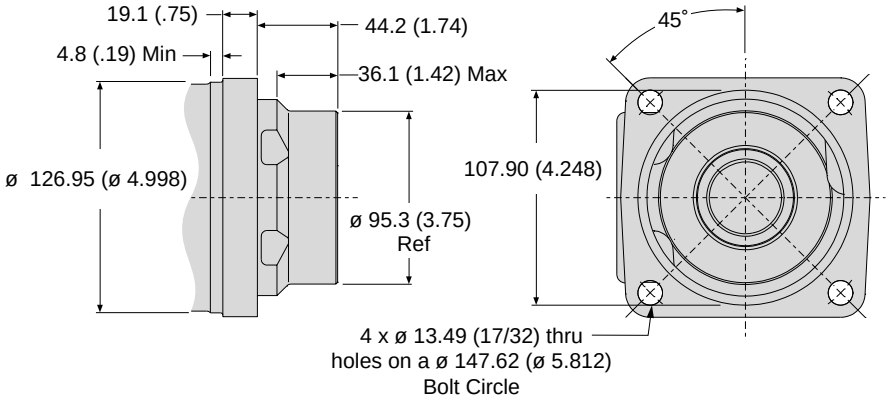
Wheel



Wheel, Front Brake Nose



Wheel, Optional

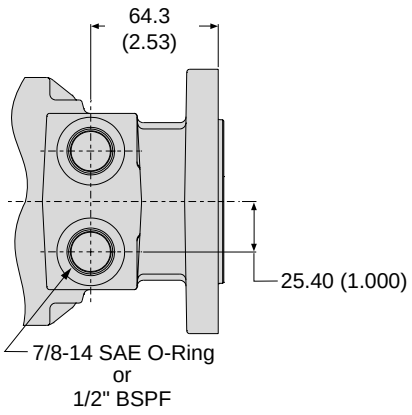


Parker Hydraulics

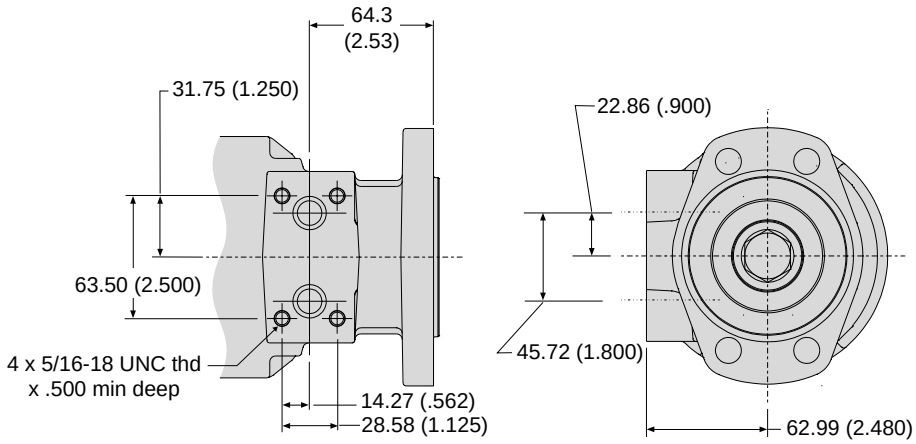
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Porting

SAE O-Ring & BSPF

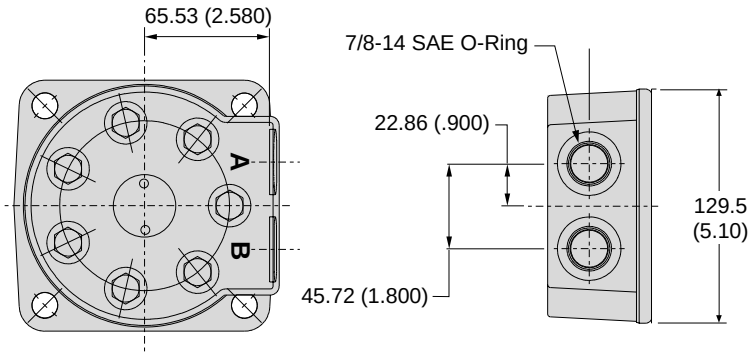


Manifold

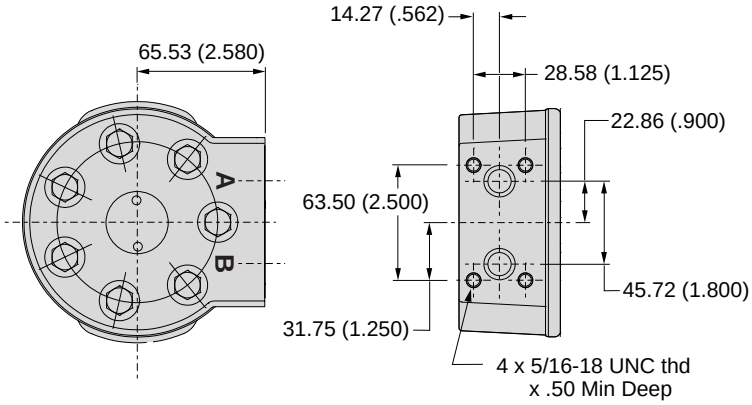


Rear Ports

7/8-14 SAE O-Ring



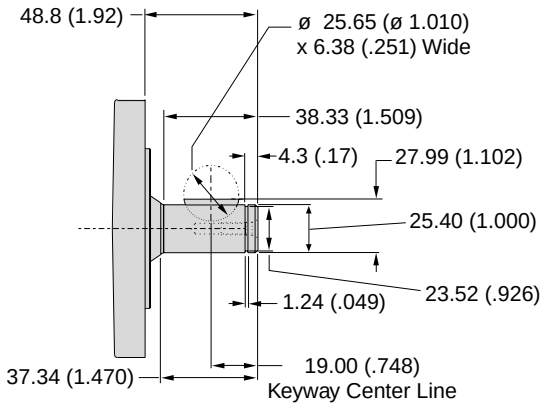
Manifold



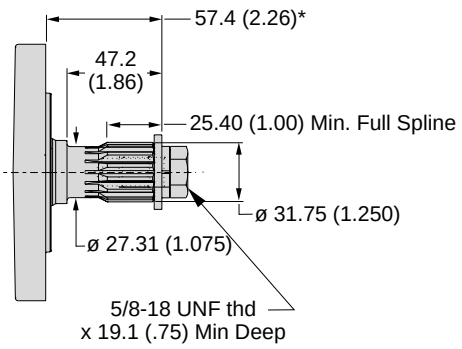
Consult Factory for
ISO 6149 Porting

Shafts

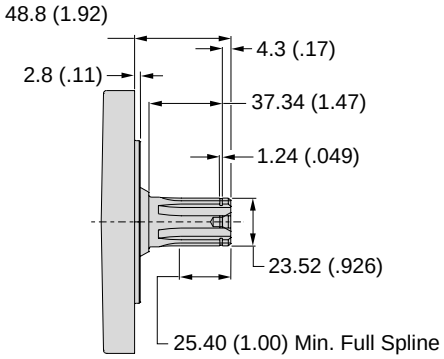
Inch equivalents for metric dimensions are shown in (**)



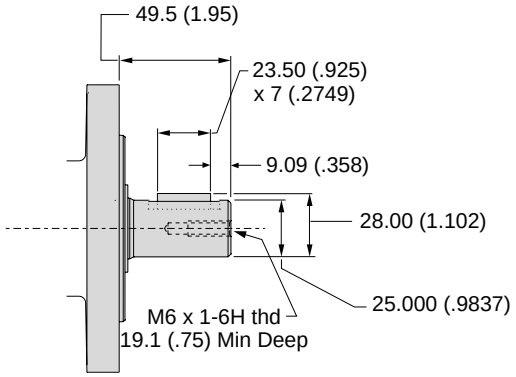
1" Keyed



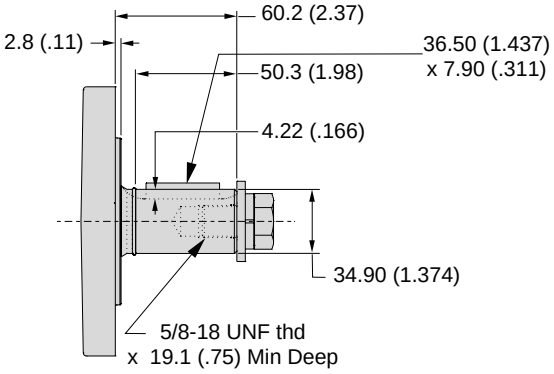
1 1/4" 14 Tooth Spline



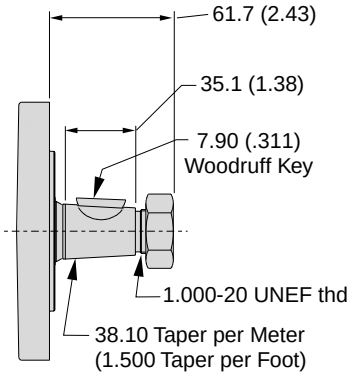
1" 6B Spline



25 mm Keyed



1 1/4" Keyed



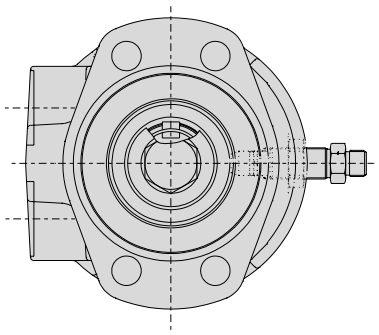
1 1/4" Taper

* Add .26" for SAE B Mount
Add 1.78" for Wheel Mount
Add 1.68" for Optional Wheel Mount

An Economical Sensor for Speed Readout

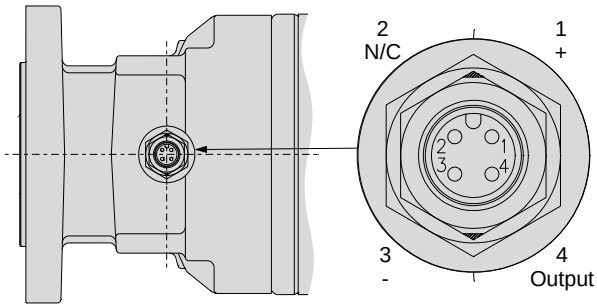
This rugged, weather resistant speed sensor is a Hall effect device. When externally powered, 30 square wave digital pulses per output shaft revolution are produced. By signal multiplication, 60 pulses per revolution can be obtained.

The installation of this economical sensor does not affect the torque or side load capability of the **Torqlink™** motor into which it is installed.



Features

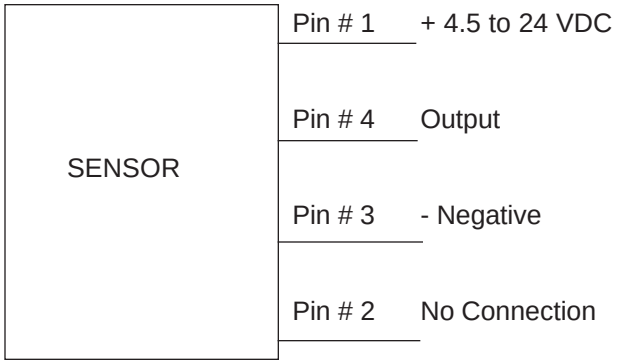
- Operating Voltage Range ..... 4.5 to 24 VDC
- Operating Temperature ..... -40° C to 93° C (-40° F to 200° F)
- Operating Frequency Range ..... 0 to 100 KHZ
- Maximum Sink Current ..... 20 mA
- Connection ..... DC Din Standard 4 Pin Micro-Mini
- Pin Diameter 12mm
- Sensor Output ..... 30 Pulses per Revolution which can be doubled electronically.

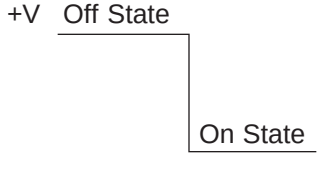


Pull-up Resistor Value Formula
(for 1/4 Watt, 5% Tolerance)

$$\frac{\text{V Supply (4.5-24 VDC)}}{\text{Desired Sink Current (0-20 mA ±20\%)}} = \text{Resistor Value (K - Ohms)}$$

On State Current: 5 mA
Higher wattage resistor will be needed for higher sink current.





Cable not included

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TF	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0080	04.9 cu in/rev
0100	06.1 cu in/rev
0130	07.8 cu in/rev
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	12.0 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0360	22.2 cu in/rev
0405	24.7 cu in/rev
0475	29.1 cu in/rev

Code	Porting
A	7/8"-14 SAE O-Ring; Rear Axial
B	7/8"-14 SAE O-Ring; Rear Radial
E	Manifold; Rear Radial
J	ISO 6149 M22x1.5
M*	Manifold
S	7/8"-14 SAE O-Ring
T**	1/2" BSPF

* Not available on L, U or W mounting

** Available on A & M mounting only

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
A	SAE "A" 2-Bolt
B	SAE "B" 2-Bolt
M	Magneto
U	Wheel; Standard
L	Wheel; Front Brake Nose
W*	Wheel, Optional

* Requires rear porting

Code	Shaft
01	1"6B Spline
02	1" Keyed
03	1 1/4" Keyed
04	10B Spline
05	1 1/4" 14 Tooth Spline
06	19 Tooth Spline
07	15 Tooth Spline
08	1 1/4" Tapered
22	25mm Keyed
28	13 Tooth Spline

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAF***	Castle Nut, Black Paint
AABP***	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT*	Bidirectional Shuttle (11:00**), Black Paint
AAFX*	Bidirectional Shuttle (11:00**), No Paint
AAAU*	Bidirectional Shuttle (11:00**), Castle Nut, Black Paint
AAGF*	Bidirectional Shuttle (11:00**), Castle Nut, No Paint
AABJ	Free Running Rotorset, Black Paint
AABK	Free Running Rotorset, No Paint
AABL	Free Running Rotorset, No Commutator Seal, Black Paint
AABM	Free Running Rotorset, No Commutator Seal, No Paint
BBBA*	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM*	1000 PSI Internal Bidirectional Relief, No Paint
BBBG*	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ*	1500 PSI Internal Bidirectional Relief, No Paint
BBBB*	2000 PSI Internal Bidirectional Relief, Black Paint
BBBN*	2000 PSI Internal Bidirectional Relief, No Paint
BBBK*	2000 PSI Internal Bidirectional Relief, Castle Nut, Black Paint
BBBC*	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF*	3000 PSI Internal Bidirectional Relief, No Paint
BBBD*	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW*	4000 PSI Internal Bidirectional Relief, No Paint
FFAA	Internal Speed Sensor, Black Paint
FFAB	Internal Speed Sensor, No Paint
FFAH	Internal Speed Sensor, Castle Nut, No Paint
FFAJ	Internal Speed Sensor, Castle Nut, Black Paint

* Not available with A, B or E porting

** Shuttle port position as viewed from shaft end of motor

*** Available only with shaft code 08

PSLGC.PM6, dg, ki

Parker Hydraulics

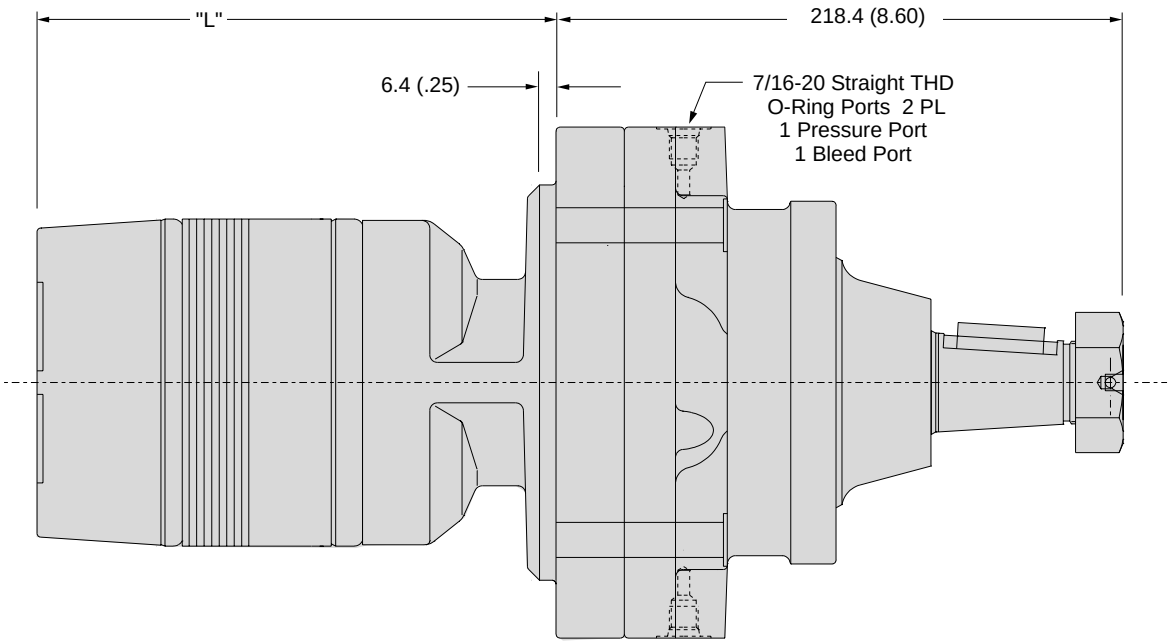
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Brake Motor

This motor/brake combination consists of a TF Series motor built into a front mounted brake. The brake is a wet disc, spring set, hydraulically released unit. When hydraulic pressure is absent at the pilot port of the brake, internal springs will hold against 6900 lb in of torque. The brake will start to release when 190 PSI is present in the brake pilot port and will be fully disengaged when that pressure reaches 260 PSI. The pilot port is capable of withstanding the maximum operating pressure of the TF Series motor.

Dimensions

Inch equivalents for metric dimensions are shown in (**)



TF	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0080	04.9 cu in/rev
0100	06.1 cu in/rev
0130	07.8 cu in/rev
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	12.0 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0360	22.2 cu in/rev
0405	24.7 cu in/rev
0475	29.1 cu in/rev

Code	Porting
A	7/8"-14 SAE O-Ring; Rear Axial
B	7/8"-14 SAE O-Ring; Rear Radial
S	7/8"-14 SAE O-Ring; Front Radial

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
8	Wheel Brake

Code	Shaft
03	1 1/4" Keyed
05	1 1/4" 14 Tooth Spline
08	1 1/4" Tapered
31	1 1/2" Tapered
32	1 1/2" Keyed
36	1 1/2" 17 Tooth Spline

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAF***	Castle Nut, Black Paint
AABP***	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT*	Bidirectional Shuttle (11:00**), Black Paint
AAFX*	Bidirectional Shuttle (11:00**), No Paint
AAAU*	Bidirectional Shuttle (11:00**), Castle Nut, Black Paint
AAGF*	Bidirectional Shuttle (11:00**), Castle Nut, No Paint
AABJ	Free Running Rotorset, Black Paint
AABK	Free Running Rotorset, No Paint
AABL	Free Running Rotorset, No Commutator Seal, Black Paint
AABM	Free Running Rotorset, No Commutator Seal, No Paint
BBBA*	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM	1000 PSI Internal Bidirectional Relief, No Paint
BBBG*	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ*	1500 PSI Internal Bidirectional Relief, No Paint
BBBB*	2000 PSI Internal Bidirectional Relief, Black Paint
BBCC	2000 PSI Internal Bidirectional Relief, No Paint
BBBK*	2000 PSI Internal Bidirectional Relief, Castle Nut, Black Paint
BBBC*	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF*	3000 PSI Internal Bidirectional Relief, No Paint
BBBD*	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW*	4000 PSI Internal Bidirectional Relief, No Paint

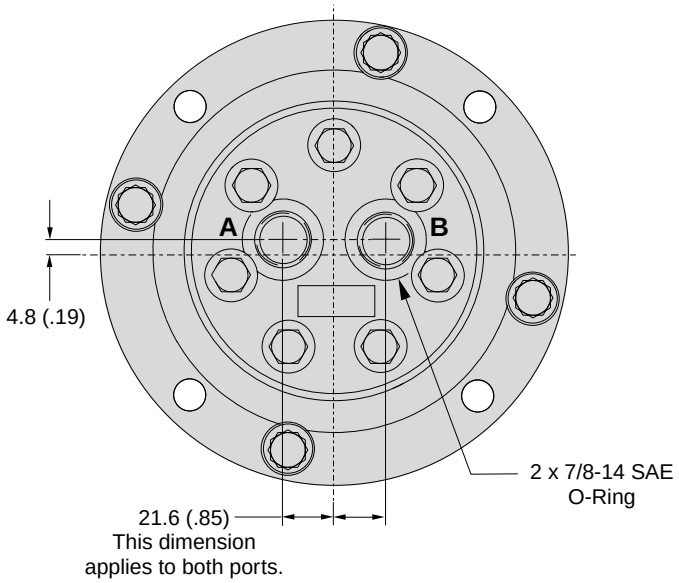
* Not available with A or B porting

** Shuttle port position as viewed from shaft end of motor

*** Available only with shaft code 08 or 31

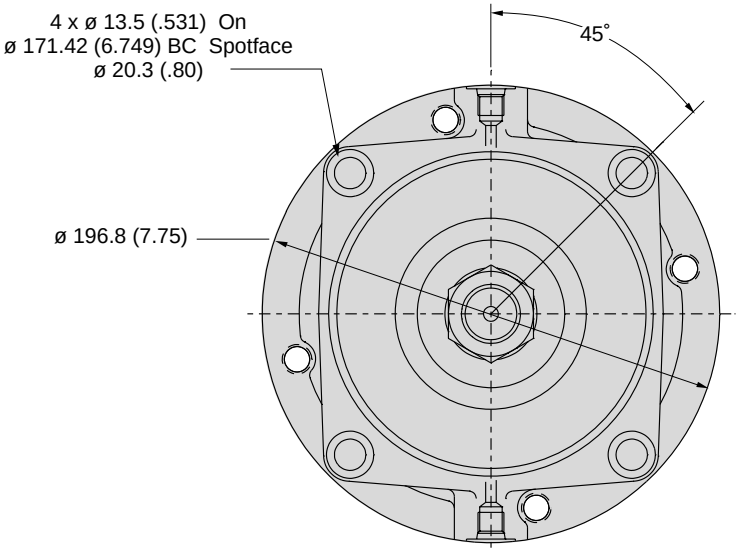
Dimensions

Inch equivalents for metric dimensions are shown in (**)



Rear View

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**



Front View

Clutch Motor

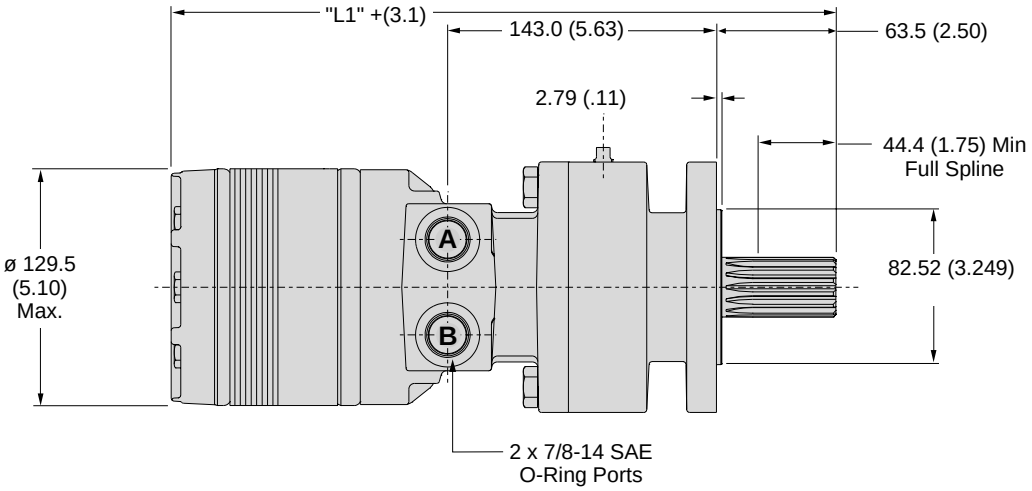
The Clutch Motor consists of a TF Series motor separated from the output shaft by a face spline coupling. The coupling is held apart by springs, disconnecting the motor from the output shaft, allowing the output shaft to freewheel. When hydraulic pressure is applied to either motor port, the springs separating the coupling are overcome and the motor is coupled to the output shaft.

Notes:

1) Consult factory if clutch is to be engaged while output shaft is rotating.
2) Clutch may not disengage if there is residual torque on output shaft when pressure is lost at motor ports.
3) Minimum pressure to engage clutch - 125 PSI.
4) To assure clutch disengagement, pressure at motor ports must be below 70 PSI.
5) Shaft will freewheel when pressure is lost at motor ports whether by design or inadvertently. The possibility of unplanned freewheeling should be considered in the design of the system.

Dimensions

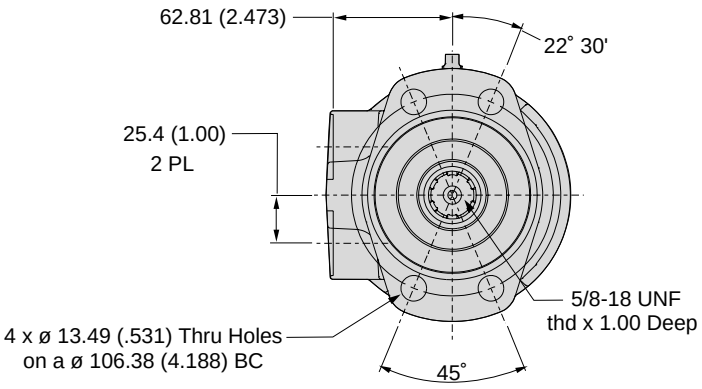
Inch equivalents for metric dimensions are shown in (**)



Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**

Dimensions

Inch equivalents for metric dimensions are shown in (**)



Clutch Motor Ordering Information

TF	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0080	04.9 cu in/rev
0100	06.1 cu in/rev
0130	07.8 cu in/rev
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	12.0 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0365	22.2 cu in/rev

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

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
G	Magneto, Clutch

Code	Shaft
03	1 1/4" Keyed
05	1 1/4" 14-Tooth Spline

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT	Bidirectional Shuttle (11:00**), Black Paint
AAFX	Bidirectional Shuttle (11:00**), No Paint
AABJ	Free Running Rotorset, Black Paint
AABK	Free Running Rotorset, No Paint
AABL	Free Running Rotorset, No Commutator Seal, Black Paint
AABM	Free Running Rotorset, No Commutator Seal, No Paint
BBBA	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM	1000 PSI Internal Bidirectional Relief, No Paint
BBBG	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ	1500 PSI Internal Bidirectional Relief, No Paint
BBBB	2000 PSI Internal Bidirectional Relief, Black Paint
BBCC	2000 PSI Internal Bidirectional Relief, No Paint
BBBC	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF	3000 PSI Internal Bidirectional Relief, No Paint
BBBD	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW	4000 PSI Internal Bidirectional Relief, No Paint

** Shuttle port position as viewed from shaft end of motor

Exceptional Strength and Durability in a High Performance Motor

The heart of Parker's TG Series powertrain, the torque link, is an extra heavy duty part that includes patented 60:40 spline geometry. Rugged construction throughout allows the transmission of over 13,000 lb in of torque. The entire powertrain is continually washed in cool, high flow fluid to assure long life. Roller vanes and sealed commutator maintain high efficiency and provide smooth low speed performance.

Options

- 1 inch Keyed or Splined, 1 1/4 inch Keyed Splined or Tapered, 1 3/8 inch Keyed or Tapered Shafts
- SAE A 2 Bolt, SAE B 2 Bolt or 4 Bolt Magneto Mounting
- Wheel Mount
- SAE O-Ring, Manifold or BSPF Porting
- Front or Rear Porting
- Brake Motor
- Speed Sensor
- Internal Cross - Over Relief Valves
- Hot Oil Shuttle
- Free Running Rotor Set
- Reverse Timed Manifold
- Corrosion Resistance

Features

- **Roller Bearings** — For Heavy Radial Loads
- **Roller Vane Power Element** — For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** — For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** — For Extended Spline Life
- **High Pressure Shaft Seal** — For High Back Pressure Operation Without External Drain Lines
- **High Flow Shaft Seal Cooling** — For Long Seal Life
- **60:40 Spline Geometry —** For Superior Powertrain Strength, Long Life
- **Robust Construction** — For Quiet operation

TG Specifications

Code		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Displacement	cc/rev	140	169	195	237	280	337	405	476	529	624	786	958
	(cu in/rev)	(8.6)	(10.3)	(11.9)	(14.5)	(17.1)	(20.6)	(24.7)	(29.1)	(32.3)	(38.0)	(48.0)	(58.5)
Maximum Speed (rpm) @ Maximum Continuous Flow		528	442	381	314	266	221	185	157	141	120	95	78
Pressure Differential Maximum Continuous	bar	206.9	206.9	206.9	206.9	206.9	206.9	172.4	137.9	137.9	120.7	103.4	69.0
	(psid)	(3000)	(3000)	(3000)	(3000)	(3000)	(3000)	(2500)	(2000)	(2000)	(1750)	(1500)	(1000)
Maximum Intermittent	bar	275.9	275.9	275.9	275.9	275.9	275.9	241.4	206.9	172.4	155.2	137.9	103.4
	(psid)	(4000)	(4000)	(4000)	(4000)	(4000)	(4000)	(3500)	(3000)	(2500)	(2250)	(2000)	(1500)
Max. Torque @ Max. Continuous Pressure	nm	406.8	494.9	576.0	704.9	824.9	1006.4	991.1	954.1	1057.7	1054.9	1142.0	923.4
	(lb-in)	(3601)	(4380)	(5098)	(6239)	(7301)	(8908)	(8772)	(8445)	(9362)	(9337)	(10108)	(8173)
Max. Torque @ Max. Intermittent Pressure	nm	541.6	659.6	765.6	937.5	1096.7	1337.0	1386.4	1424.5	1317.2	1348.4	1489.6	1385.4
	(lb-in)	(4794)	(5838)	(6776)	(8298)	(9707)	(11834)	(12271)	(12608)	(11659)	(11935)	(13185)	(12262)

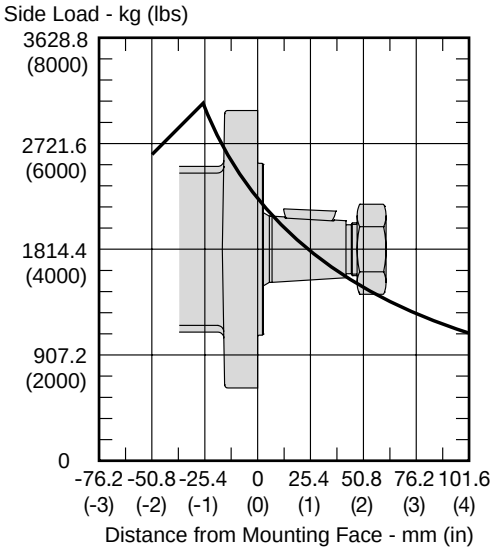
PSLGC.PM6, dg, ki

Parker Hydraulics

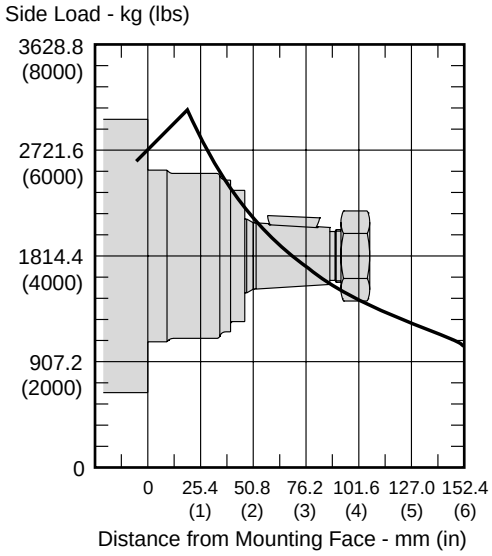
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Maximum Side Load Capacity

Flange Mount



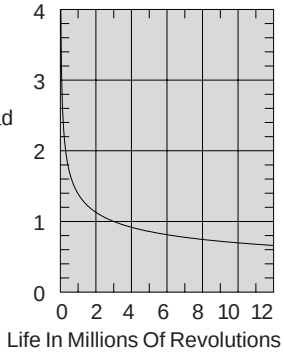
Wheel Mount



B-10 Life Factors

Application of the above uni-directional radial loads will result in a B-10 life of 3 million revolutions. For B-10 life at other radial loads, apply the factors from the curve to the right.

Multiply Allowable Radial Load By These Factors



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% per minute.*

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.

TG SERIES

TG SERIES

Code 0140

140 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	58.6 **9**	119.8 **4**						
3.8	61.0 **22**	123.1 **17**	184.7 **11**	246.3 **6**				
7.6	64.3 **49**	130.6 **43**	195.5 **36**	258.3 **30**	319.4 **23**	380.5 **19**	440.5 **12**	502.4 **12**
11.4	63.8 **75**	130.9 **69**	197.0 **62**	262.2 **55**	327.5 **47**	392.8 **40**	457.3 **33**	520.6 **29**
15.1	63.7 **102**	132.2 **94**	199.7 **87**	266.4 **80**	332.5 **72**	397.4 **64**	461.2 **57**	524.7 **52**
18.9	62.8 **128**	132.2 **120**	200.7 **112**	268.3 **105**	335.3 **97**	401.8 **89**	467.2 **81**	531.1 **76**
26.5	61.0 **182**	131.1 **172**	201.0 **164**	270.0 **155**	338.3 **146**	405.8 **138**	472.4 **130**	538.1 **123**
34.1	58.2 **235**	129.1 **225**	199.7 **215**	269.5 **206**	338.5 **196**	406.8 **187**	474.4 **179**	541.6 **171**
45.4	53.2 **315**	123.8 **303**	195.3 **292**	266.2 **281**	336.0 **271**	405.3 **261**	473.7 **252**	541.6 **243**
56.8	47.2 **395**	117.7 **381**	189.0 **368**	260.6 **357**	331.4 **346**	401.0 **336**	470.3 **325**	539.0 **314**
75.7	33.8 **528**	105.2 **512**	176.8 **497**	248.3 **484**	319.2 **472**	390.3 **459**	460.7 **447**	530.1 **435**
94.6	19.5 **660**	89.7 **643**	161.1 **626**	232.6 **612**	304.5 **598**	376.4 **583**	447.5 **569**	517.3 **555**

TORQUE (nm) 304.5
SPEED (RPM) 598

Code 0170

170 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	70.0 **9**	145.1 **7**	219.7 **5**	295.2 **4**	372.0 **3**	450.0 **2**		
3.8	73.7 **20**	151.1 **18**	226.6 **16**	303.1 **14**	381.3 **12**	459.0 **11**	536.0 **8**	610.3 **8**
7.6	76.6 **42**	157.0 **40**	237.8 **37**	318.8 **35**	399.4 **32**	477.5 **30**	554.6 **27**	631.2 **25**
11.4	76.6 **64**	157.8 **61**	239.2 **58**	320.4 **56**	401.5 **53**	481.6 **50**	560.7 **46**	638.6 **44**
15.1	76.7 **86**	159.2 **83**	242.0 **80**	324.5 **77**	406.3 **74**	486.9 **71**	567.3 **67**	645.8 **64**
18.9	76.3 **108**	159.6 **104**	242.9 **101**	325.9 **98**	408.5 **94**	490.2 **91**	571.3 **87**	650.9 **83**
26.5	74.7 **153**	158.7 **148**	243.1 **143**	327.6 **140**	411.5 **136**	494.2 **132**	576.3 **127**	657.3 **123**
34.1	71.4 **197**	156.5 **191**	241.8 **186**	326.6 **181**	411.0 **177**	494.9 **173**	577.8 **168**	659.6 **163**
45.4	65.9 **263**	150.7 **256**	236.8 **250**	323.1 **244**	408.6 **239**	492.8 **234**	576.3 **228**	657.9 **223**
56.8	59.2 **330**	144.0 **322**	229.9 **314**	316.8 **308**	403.6 **302**	488.9 **296**	572.8 **289**	655.4 **283**
75.7	43.2 **442**	129.1 **432**	215.6 **422**	303.1 **413**	390.3 **406**	476.3 **399**	561.7 **391**	645.6 **383**
94.6	27.0 **554**	111.1 **543**	197.4 **531**	285.0 **520**	372.7 **511**	459.9 **501**	546.7 **492**	631.7 **483**

8.6 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	519 **9**	1060 **4**						
1	540 **22**	1090 **17**	1635 **11**	2180 **6**				
2	569 **49**	1156 **43**	1730 **36**	2286 **30**	2827 **23**	3368 **19**	3899 **12**	4447 **12**
3	565 **75**	1159 **69**	1744 **62**	2321 **55**	2899 **47**	3477 **40**	4048 **33**	4608 **29**
4	564 **102**	1170 **94**	1768 **87**	2358 **80**	2943 **72**	3517 **64**	4082 **57**	4644 **52**
5	556 **128**	1170 **120**	1776 **112**	2375 **105**	2968 **97**	3556 **89**	4135 **81**	4701 **76**
7	540 **182**	1160 **172**	1779 **164**	2390 **155**	2994 **146**	3592 **138**	4181 **130**	4763 **123**
9	515 **235**	1143 **225**	1768 **215**	2385 **206**	2996 **196**	3601 **187**	4199 **179**	4794 **171**
12	471 **315**	1096 **303**	1729 **292**	2356 **281**	2974 **271**	3587 **261**	4193 **252**	4794 **243**
15	418 **395**	1042 **381**	1673 **368**	2307 **357**	2933 **346**	3549 **336**	4163 **325**	4771 **314**
20	299 **528**	931 **512**	1565 **497**	2198 **484**	2825 **472**	3455 **459**	4078 **447**	4692 **435**
25	173 **660**	794 **643**	1426 **626**	2059 **612**	2695 **598**	3332 **583**	3961 **569**	4579 **555**

TORQUE (LB IN) 3899
SPEED (RPM) 12

10.3 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	620 **9**	1284 **7**	1945 **5**	2613 **4**	3293 **3**	3983 **2**		
1	652 **20**	1337 **18**	2006 **16**	2683 **14**	3375 **12**	4063 **11**	4744 **8**	5402 **8**
2	678 **42**	1390 **40**	2105 **37**	2822 **35**	3535 **32**	4226 **30**	4909 **27**	5587 **25**
3	678 **64**	1397 **61**	2117 **58**	2836 **56**	3554 **53**	4263 **50**	4963 **46**	5652 **44**
4	679 **86**	1409 **83**	2142 **80**	2872 **77**	3596 **74**	4310 **71**	5021 **67**	5716 **64**
5	675 **108**	1413 **104**	2150 **101**	2885 **98**	3616 **94**	4339 **91**	5057 **87**	5761 **83**
7	661 **153**	1405 **148**	2152 **143**	2900 **140**	3642 **136**	4374 **132**	5101 **127**	5818 **123**
9	632 **197**	1385 **191**	2140 **186**	2891 **181**	3638 **177**	4380 **173**	5114 **168**	5838 **163**
12	583 **263**	1334 **256**	2096 **250**	2860 **244**	3617 **239**	4362 **234**	5101 **228**	5823 **223**
15	524 **330**	1275 **322**	2035 **314**	2804 **308**	3572 **302**	4327 **296**	5070 **289**	5801 **283**
20	382 **442**	1143 **432**	1908 **422**	2683 **413**	3455 **406**	4216 **399**	4972 **391**	5714 **383**
25	239 **554**	983 **543**	1747 **531**	2523 **520**	3299 **511**	4071 **501**	4839 **492**	5591 **483**

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0195

195 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	82.8 **7**	169.8 **3**						
3.8	86.0 **16**	174.7 **13**	262.8 **8**	350.7 **3**				
7.6	90.3 **35**	185.1 **32**	278.5 **27**	369.4 **21**	457.1 **16**	543.8 **11**	631.4 **7**	720.2 **6**
11.4	89.7 **55**	185.2 **50**	279.7 **45**	373.2 **39**	466.8 **34**	561.5 **28**	654.4 **23**	745.1 **19**
15.1	89.7 **74**	186.9 **69**	283.5 **64**	379.2 **58**	474.1 **52**	567.5 **46**	658.7 **40**	749.6 **35**
18.9	88.5 **93**	186.8 **88**	284.4 **83**	381.3 **76**	477.2 **70**	572.2 **64**	666.0 **58**	758.1 **52**
26.5	86.1 **131**	184.9 **126**	284.0 **120**	382.3 **113**	479.6 **106**	576.0 **99**	671.1 **92**	765.1 **86**
34.1	82.6 **170**	182.6 **164**	282.3 **157**	381.1 **150**	478.9 **142**	575.4 **135**	670.6 **127**	765.3 **120**
45.4	76.5 **228**	176.5 **221**	277.4 **213**	377.7 **205**	476.4 **196**	574.1 **188**	670.4 **179**	765.6 **172**
56.8	69.3 **285**	169.2 **278**	269.9 **269**	370.9 **260**	471.0 **251**	569.4 **242**	667.4 **232**	764.3 **233**
75.7	50.6 **381**	152.5 **373**	253.6 **363**	354.9 **353**	455.4 **342**	555.7 **331**	655.1 **321**	752.8 **310**
94.6	37.7 **477**	130.8 **468**	230.9 **457**	332.3 **445**	433.5 **433**	534.3 **421**	634.0 **409**	734.4 **397**

TORQUE (nm) 534.3
SPEED (RPM) 421

Code 0240

240 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	105.3 **6**	215.5 **4**	327.0 **2**					
3.8	108.5 **14**	220.8 **12**	333.3 **9**	445.5 **6**	558.0 **3**	670.0 **2**		
7.6	111.6 **30**	229.5 **27**	346.3 **24**	462.1 **20**	577.0 **17**	689.2 **14**	798.5 **11**	908.0 **9**
11.4	111.1 **45**	229.2 **42**	347.0 **39**	463.3 **35**	579.4 **31**	696.1 **27**	811.4 **23**	924.6 **20**
15.1	110.5 **61**	230.1 **58**	349.1 **54**	467.3 **49**	584.8 **45**	701.3 **42**	816.8 **37**	930.3 **33**
18.9	108.7 **77**	229.3 **73**	349.3 **69**	468.2 **64**	586.4 **60**	704.0 **56**	820.1 **51**	934.5 **47**
26.5	105.4 **108**	226.5 **104**	347.8 **99**	467.9 **94**	586.8 **89**	704.9 **84**	821.9 **78**	937.5 **73**
34.1	100.6 **140**	222.8 **135**	344.4 **129**	464.6 **123**	584.0 **117**	701.9 **112**	818.5 **106**	934.5 **100**
45.4	94.0 **187**	216.0 **181**	338.5 **175**	459.9 **167**	579.0 **161**	696.3 **154**	812.9 **147**	929.1 **140**
56.8	85.1 **235**	207.0 **228**	330.0 **220**	452.9 **212**	574.1 **204**	693.4 **196**	811.4 **188**	927.8 **180**
75.7	63.2 **314**	186.9 **306**	310.0 **297**	433.2 **287**	555.5 **278**	676.9 **268**	795.9 **258**	913.0 **248**
94.6	59.2 **393**	161.2 **384**	283.2 **373**	406.2 **363**	529.9 **352**	653.0 **340**	774.3 **328**	894.0 **317**

11.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	733 **7**	1503 **3**						
1	761 **16**	1546 **13**	2326 **8**	3104 **3**				
2	799 **35**	1638 **32**	2465 **27**	3270 **21**	4046 **16**	4813 **11**	5589 **7**	6375 **6**
3	794 **55**	1639 **50**	2476 **45**	3303 **39**	4132 **34**	4970 **28**	5792 **23**	6595 **19**
4	794 **74**	1654 **69**	2509 **64**	3356 **58**	4196 **52**	5023 **46**	5830 **40**	6635 **35**
5	783 **93**	1653 **88**	2517 **83**	3375 **76**	4224 **70**	5065 **64**	5895 **58**	6710 **52**
7	762 **131**	1637 **126**	2514 **120**	3384 **113**	4245 **106**	5098 **99**	5940 **92**	6772 **86**
9	731 **170**	1616 **164**	2499 **157**	3373 **150**	4239 **142**	5093 **135**	5936 **127**	6774 **120**
12	677 **228**	1562 **221**	2455 **213**	3343 **205**	4217 **196**	5081 **188**	5934 **179**	6776 **172**
15	613 **285**	1498 **278**	2389 **269**	3283 **260**	4169 **251**	5040 **242**	5907 **232**	6765 **233**
20	448 **381**	1350 **373**	2245 **363**	3141 **353**	4031 **342**	4919 **331**	5798 **321**	6663 **310**
25	334 **477**	1158 **468**	2044 **457**	2941 **445**	3837 **433**	4729 **421**	5612 **409**	6500 **397**

TORQUE (LB IN) 4813
SPEED (RPM) 11

Performance data is typical. Actual data may vary slightly from one production motor to another.

14.5 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	932 **6**	1907 **4**	2894 **2**					
1	960 **14**	1954 **12**	2950 **9**	3943 **6**	4939 **3**	5930 **2**		
2	988 **30**	2031 **27**	3065 **24**	4090 **20**	5107 **17**	6100 **14**	7068 **11**	8037 **9**
3	983 **45**	2029 **42**	3071 **39**	4101 **35**	5128 **31**	6161 **27**	7182 **23**	8184 **20**
4	978 **61**	2037 **58**	3090 **54**	4136 **49**	5176 **45**	6207 **42**	7230 **37**	8234 **33**
5	962 **77**	2030 **73**	3092 **69**	4144 **64**	5190 **60**	6231 **56**	7259 **51**	8271 **47**
7	933 **108**	2005 **104**	3078 **99**	4141 **94**	5194 **89**	6239 **84**	7275 **78**	8298 **73**
9	890 **140**	1972 **135**	3048 **129**	4112 **123**	5169 **117**	6213 **112**	7245 **106**	8271 **100**
12	832 **187**	1912 **181**	2996 **175**	4071 **167**	5125 **161**	6163 **154**	7195 **147**	8224 **140**
15	753 **235**	1832 **228**	2921 **220**	4009 **212**	5081 **204**	6137 **196**	7182 **188**	8212 **180**
20	559 **314**	1654 **306**	2744 **297**	3834 **287**	4917 **278**	5991 **268**	7045 **258**	8081 **248**
25	524 **393**	1427 **384**	2507 **373**	3595 **363**	4690 **352**	5780 **340**	6853 **328**	7913 **317**

TG SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TG SERIES

Code 0280

280 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	119.3 5	246.0 4	375.4 2	509.8 1				
3.8	122.8 12	251.2 10	381.6 8	514.3 6	647.8 5	783.0 3	919.1 3	1056.4 2
7.6	127.0 25	261.3 23	396.9 21	531.0 18	664.3 16	797.6 14	930.8 12	1062.0 11
11.4	127.0 39	262.5 36	399.0 34	535.5 31	671.1 28	807.0 25	942.9 22	1077.4 19
15.1	127.2 52	265.1 49	403.1 47	540.7 43	678.3 40	815.0 37	950.7 33	1084.2 30
18.9	126.0 65	265.5 62	404.7 59	544.1 56	682.9 52	819.8 49	955.5 45	1089.2 41
26.5	123.3 92	264.1 88	405.1 85	545.9 80	686.0 76	824.9 72	962.0 67	1096.6 63
34.1	118.2 118	260.9 114	402.7 110	543.5 105	683.6 101	822.5 96	960.2 90	1096.7 85
45.4	110.8 159	253.3 154	396.1 148	537.4 143	677.0 137	815.8 132	954.0 125	1090.5 118
56.8	101.5 199	244.5 193	388.3 186	531.2 180	672.3 174	812.0 168	950.8 160	1087.4 152
75.7	78.1 266	223.2 258	367.7 250	511.7 243	654.7 235	795.8 227	934.9 218	1073.2 209
94.6	79.4 334	195.0 324	337.5 314	481.3 305	625.9 296	770.0 286	911.9 276	1052.0 267

TORQUE (nm) 770.0
SPEED (RPM) 286

Code 0335

335 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	146.5 4	304.9 3	466.4 1	630.9 1				
3.8	150.2 10	309.7 8	471.8 7	636.1 5	800.4 4	966.1 2	1133.9 2	1298.8 1
7.6	154.7 21	320.0 19	486.7 17	653.8 15	820.8 13	985.0 11	1145.2 9	1303.1 8
11.4	154.3 32	320.6 30	488.8 27	657.2 25	824.9 22	992.1 20	1157.8 17	1320.2 14
15.1	154.6 43	322.9 40	492.4 38	662.2 35	831.3 32	999.9 29	1165.6 25	1327.3 22
18.9	153.1 54	322.9 51	493.5 48	664.3 45	834.5 42	1003.3 38	1169.6 34	1332.1 30
26.5	149.5 76	320.9 73	492.9 69	665.2 65	836.8 61	1006.4 57	1173.2 53	1336.4 47
34.1	143.0 98	315.3 94	488.8 90	661.6 85	833.3 81	1003.7 76	1171.8 71	1337.0 64
45.4	133.0 131	304.8 127	477.9 121	650.7 116	821.7 110	991.2 105	1159.3 98	1324.8 90
56.8	121.5 165	293.1 159	466.3 153	638.8 146	810.1 140	979.5 134	1147.1 126	1312.0 116
75.7	94.1 221	268.0 214	442.3 205	617.2 197	791.8 189	964.1 182	1132.7 173	1296.9 161
94.6	76.6 277	242.0 269	413.8 259	586.3 248	759.9 239	932.9 230	1102.3 219	1267.5 209

TORQUE (LB IN) 9350
SPEED (RPM) 2

17.1 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	1056 5	2177 4	3323 2	4512 1				
1	1087 12	2223 10	3378 8	4552 6	5734 5	6930 3	8135 3	9350 2
2	1124 25	2313 23	3513 21	4700 18	5880 16	7060 14	8239 12	9400 11
3	1124 39	2323 36	3532 34	4740 31	5940 28	7143 25	8346 22	9536 19
4	1126 52	2346 49	3568 47	4786 43	6004 40	7214 37	8415 33	9596 30
5	1115 65	2350 62	3582 59	4816 56	6044 52	7256 49	8457 45	9641 41
7	1091 92	2338 88	3586 85	4832 80	6072 76	7301 72	8515 67	9706 63
9	1046 118	2309 114	3564 110	4811 105	6051 101	7280 96	8499 90	9707 85
12	981 159	2242 154	3506 148	4757 143	5992 137	7221 132	8444 125	9652 118
15	898 199	2164 193	3437 186	4702 180	5951 174	7187 168	8416 160	9625 152
20	691 266	1976 258	3255 250	4529 243	5795 235	7044 227	8275 218	9499 209
25	703 334	1726 324	2987 314	4260 305	5540 296	6815 286	8071 276	9311 267

20.6 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	1297 4	2699 3	4128 1	5584 1				
1	1329 10	2741 8	4176 7	5630 5	7084 4	8551 2	10036 2	11496 1
2	1369 21	2832 19	4308 17	5787 15	7265 13	8718 11	10136 9	11534 8
3	1366 32	2838 30	4326 27	5817 25	7301 22	8781 20	10248 17	11685 14
4	1368 43	2858 40	4358 38	5861 35	7358 32	8850 29	10317 25	11748 22
5	1355 54	2858 51	4368 48	5880 45	7386 42	8880 38	10352 34	11791 30
7	1323 76	2840 73	4363 69	5888 65	7407 61	8908 57	10384 53	11829 47
9	1266 98	2791 94	4326 90	5856 85	7376 81	8884 76	10372 71	11834 64
12	1177 131	2698 127	4230 121	5759 116	7273 110	8773 105	10261 98	11726 90
15	1075 165	2594 159	4127 153	5654 146	7170 140	8670 134	10153 126	11613 116
20	833 221	2372 214	3915 205	5463 197	7008 189	8533 182	10026 173	11479 161
25	678 277	2142 269	3663 259	5189 248	6726 239	8257 230	9757 219	11219 209

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0405

405 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4
1.9	174.4 **4**	359.1 **3**	546.8 **2**	736.1 **1**	924.7 **1**		
3.8	180.0 **8**	367.9 **7**	556.8 **6**	746.5 **6**	938.1 **5**	1128.3 **4**	1316.4 **3**
7.6	184.8 **17**	378.6 **16**	574.4 **15**	770.2 **14**	966.0 **13**	1160.5 **12**	1353.3 **11**
11.4	184.9 **27**	380.2 **25**	576.9 **23**	773.6 **22**	970.3 **21**	1165.3 **19**	1359.3 **18**
15.1	185.9 **36**	383.5 **34**	582.9 **32**	781.8 **30**	979.3 **29**	1175.2 **27**	1370.4 **26**
18.9	185.3 **45**	385.0 **43**	587.6 **41**	788.9 **39**	986.7 **37**	1182.4 **35**	1377.7 **33**
26.5	181.4 **64**	383.7 **61**	588.7 **59**	791.2 **56**	991.1 **54**	1189.3 **51**	1386.4 **49**
34.1	175.2 **82**	378.5 **80**	584.8 **77**	788.7 **73**	990.0 **70**	1188.4 **67**	1386.2 **64**
45.4	161.3 **110**	365.8 **107**	573.4 **103**	778.2 **99**	979.5 **95**	1177.7 **91**	1375.2 **88**
56.8	148.0 **138**	351.6 **135**	559.0 **130**	763.6 **125**	965.4 **120**	1164.4 **115**	1362.5 **111**
75.7	128.3 **185**	323.3 **181**	530.1 **175**	736.4 **168**	941.8 **162**	1143.6 **156**	1341.9 **151**
94.6			507.5 **219**	712.1 **212**	913.3 **204**	1112.6 **197**	1308.9 **190**

TORQUE (nm) 712.1
SPEED (RPM) 212

24.7 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500
.5	1544 **4**	3178 **3**	4840 **2**	6515 **1**	8185 **1**		
1	1593 **8**	3256 **7**	4928 **6**	6607 **6**	8303 **5**	9987 **4**	11652 **3**
2	1636 **17**	3351 **16**	5084 **15**	6817 **14**	8550 **13**	10272 **12**	11978 **11**
3	1637 **27**	3365 **25**	5106 **23**	6847 **22**	8588 **21**	10314 **19**	12031 **18**
4	1645 **36**	3394 **34**	5159 **32**	6920 **30**	8668 **29**	10402 **27**	12130 **26**
5	1640 **45**	3408 **43**	5201 **41**	6983 **39**	8733 **37**	10466 **35**	12194 **33**
7	1606 **64**	3396 **61**	5211 **59**	7003 **56**	8772 **54**	10527 **51**	12271 **49**
9	1551 **82**	3350 **80**	5176 **77**	6981 **73**	8763 **70**	10519 **67**	12269 **64**
12	1428 **110**	3238 **107**	5075 **103**	6888 **99**	8670 **95**	10424 **91**	12172 **88**
15	1310 **138**	3112 **135**	4948 **130**	6759 **125**	8545 **120**	10306 **115**	12060 **111**
20	1136 **185**	2862 **181**	4692 **175**	6518 **168**	8336 **162**	10122 **156**	11877 **151**
25			4492 **219**	6303 **212**	8084 **204**	9848 **197**	11585 **190**

TORQUE (LB IN) 9848
SPEED (RPM) 197

T G SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0475

475 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9
1.9	199.7 **3**	421.6 **3**	647.7 **2**	874.9 **1**	1102.9 **1**	
3.8	211.0 **7**	438.1 **7**	664.2 **6**	887.0 **5**	1111.5 **4**	1336.6 **3**
7.6	221.9 **15**	458.1 **14**	698.2 **14**	930.6 **12**	1157.0 **10**	1371.1 **8**
11.4	222.8 **23**	460.3 **22**	701.4 **21**	940.1 **19**	1172.6 **17**	1395.9 **13**
15.1	226.5 **31**	467.2 **30**	710.3 **29**	947.0 **27**	1182.1 **24**	1411.8 **20**
18.9	226.4 **39**	466.5 **38**	712.2 **37**	952.2 **34**	1187.9 **31**	1417.2 **26**
26.5	224.8 **55**	466.9 **54**	712.7 **52**	954.1 **50**	1192.5 **45**	1423.8 **40**
34.1	217.4 **70**	463.7 **69**	710.1 **68**	952.4 **65**	1189.5 **60**	1424.5 **54**
45.4	200.5 **94**	449.0 **93**	695.6 **91**	940.9 **87**	1180.2 **82**	1415.4 **75**
56.8	182.9 **118**	427.5 **116**	676.8 **114**	925.1 **110**	1164.9 **104**	1397.8 **96**
75.7	148.5 **157**	381.1 **156**	636.0 **153**	887.2 **149**	1134.1 **141**	1372.1 **132**
94.6	128.9 **197**	342.2 **196**	589.8 **193**	839.1 **189**	1087.9 **182**	1328.3 **174**
113.6	68.5 **237**	283.0 **236**	525.2 **233**	764.4 **230**	1003.0 **224**	1241.5 **219**

TORQUE (nm) 283.0
SPEED (RPM) 236

29.1 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000
.5	1768 **3**	3732 **3**	5733 **2**	7744 **1**	9762 **1**	
1	1868 **7**	3878 **7**	5879 **6**	7851 **5**	9838 **4**	11830 **3**
2	1964 **15**	4055 **14**	6180 **14**	8237 **12**	10241 **10**	12136 **8**
3	1972 **23**	4074 **22**	6208 **21**	8321 **19**	10379 **17**	12355 **13**
4	2005 **31**	4135 **30**	6287 **29**	8382 **27**	10463 **24**	12496 **20**
5	2004 **39**	4129 **38**	6304 **37**	8428 **34**	10514 **31**	12544 **26**
7	1990 **55**	4133 **54**	6308 **52**	8445 **50**	10555 **45**	12602 **40**
9	1924 **70**	4104 **69**	6285 **68**	8430 **65**	10528 **60**	12608 **54**
12	1775 **94**	3974 **93**	6157 **91**	8328 **87**	10446 **82**	12528 **75**
15	1619 **118**	3784 **116**	5990 **114**	8188 **110**	10311 **104**	12372 **96**
20	1314 **157**	3373 **156**	5629 **153**	7853 **149**	10038 **141**	12145 **132**
25	1141 **197**	3029 **196**	5220 **193**	7427 **189**	9629 **182**	11757 **174**
30	606 **237**	2505 **236**	4649 **233**	6766 **230**	8878 **224**	10989 **219**

TORQUE (LB IN) 6766
SPEED (RPM) 230

Performance data is typical. Actual data may vary slightly from one production motor to another.

Code 0530

530 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	137.9	172.4
1.9	235.0 **3**	480.8 **3**	732.0 **2**	985.9 **2**	1244.1 **1**
3.8	243.8 **7**	493.9 **6**	744.8 **6**	991.9 **5**	1242.1 **4**
7.6	253.8 **14**	516.0 **13**	776.1 **12**	1031.1 **11**	1285.3 **9**
11.4	253.3 **21**	517.2 **20**	781.4 **19**	1043.6 **17**	1299.3 **14**
15.1	254.5 **28**	522.5 **27**	788.3 **25**	1050.3 **23**	1309.0 **20**
18.9	252.5 **35**	523.0 **34**	791.1 **32**	1054.4 **29**	1313.5 **26**
26.5	246.5 **49**	519.6 **48**	791.5 **46**	1057.7 **42**	1317.2 **38**
34.1	236.7 **63**	512.4 **62**	786.3 **59**	1054.1 **55**	1316.2 **50**
45.4	219.5 **85**	496.0 **83**	771.1 **80**	1041.3 **75**	1304.8 **69**
56.8	198.1 **106**	474.4 **104**	750.0 **100**	1022.7 **95**	1288.9 **87**
75.7	149.9 **141**	427.4 **139**	707.5 **135**	983.0 **129**	1252.5 **120**
94.6	114.2 **177**	372.8 **175**	649.7 **171**	927.6 **165**	1202.0 **158**
113.6	30.4 **213**	304.8 **211**	574.3 **208**	837.7 **203**	1108.8 **197**

Flow (LPM)

TORQUE (nm) 304.8
SPEED (RPM) 211

32.2 cu in / rev

	PRESSURE (PSI) 500	1000	1500	2000	2500
.5	2080 **3**	4256 **3**	6479 **2**	8726 **2**	11012 **1**
1	2158 **7**	4372 **6**	6592 **6**	8779 **5**	10994 **4**
2	2246 **14**	4567 **13**	6869 **12**	9126 **11**	11376 **9**
3	2242 **21**	4578 **20**	6916 **19**	9237 **17**	11500 **14**
4	2253 **28**	4625 **27**	6977 **25**	9296 **23**	11586 **20**
5	2235 **35**	4629 **34**	7002 **32**	9333 **29**	11626 **26**
7	2182 **49**	4599 **48**	7006 **46**	9362 **42**	11659 **38**
9	2095 **63**	4535 **62**	6960 **59**	9330 **55**	11650 **50**
12	1943 **85**	4390 **83**	6825 **80**	9217 **75**	11549 **69**
15	1753 **106**	4199 **104**	6638 **100**	9052 **95**	11408 **87**
20	1327 **141**	3783 **139**	6262 **135**	8701 **129**	11086 **120**
25	1011 **177**	3300 **175**	5751 **171**	8210 **165**	10639 **158**
30	269 **213**	2698 **211**	5083 **208**	7415 **203**	9814 **197**

Flow (GPM)

TORQUE (LB IN) 9814
SPEED (RPM) 197

TG SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0625

625 cc / rev

	PRESSURE (BAR) 34.5	69.0	103.4	120.7	155.2
1.9	219.1 **2**	518.9 **1**			
3.8	235.8 **5**	527.1 **3**	822.8 **2**	980.7 **2**	1308.2 **1**
7.6	264.1 **11**	563.9 **9**	857.5 **8**	1000.2 **7**	1294.5 **5**
11.4	269.6 **17**	576.3 **15**	875.9 **13**	1023.0 **12**	1320.6 **9**
15.1	277.6 **23**	587.7 **21**	889.4 **19**	1036.5 **17**	1329.7 **14**
18.9	280.1 **29**	592.7 **27**	897.4 **25**	1044.2 **23**	1335.5 **18**
26.5	278.4 **41**	595.7 **39**	903.3 **36**	1051.4 **34**	1339.8 **28**
34.1	271.3 **53**	590.1 **51**	903.0 **48**	1054.9 **45**	1348.4 **39**
45.4	254.7 **71**	575.3 **69**	891.0 **65**	1043.8 **62**	1344.5 **54**
56.8	231.8 **89**	553.7 **87**	872.3 **83**	1026.5 **80**	1329.0 **70**
75.7	180.8 **120**	507.3 **117**	828.6 **112**	985.8 **109**	1290.7 **98**
94.6	120.1 **151**	444.4 **148**	770.3 **144**	930.4 **140**	1245.2 **131**
113.6	40.6 **182**	367.2 **180**	686.2 **176**	840.9 **172**	1150.0 **165**

Flow (LPM)

TORQUE (nm) 367.2
SPEED (RPM) 180

38.0 cu in / rev

	PRESSURE (PSI) 500	1000	1500	1750	2250
.5	1939 **2**	4593 **1**			
1	2087 **5**	4665 **3**	7283 **2**	8680 **2**	11579 **1**
2	2338 **11**	4991 **9**	7590 **8**	8853 **7**	11458 **5**
3	2386 **17**	5101 **15**	7753 **13**	9055 **12**	11689 **9**
4	2457 **23**	5202 **21**	7872 **19**	9174 **17**	11769 **14**
5	2479 **29**	5246 **27**	7943 **25**	9242 **23**	11821 **18**
7	2464 **41**	5273 **39**	7995 **36**	9306 **34**	11859 **28**
9	2401 **53**	5223 **51**	7993 **48**	9337 **45**	11935 **39**
12	2254 **71**	5092 **69**	7886 **65**	9239 **62**	11900 **54**
15	2052 **89**	4901 **87**	7721 **83**	9086 **80**	11763 **70**
20	1600 **120**	4490 **117**	7334 **112**	8725 **109**	11424 **98**
25	1063 **151**	3933 **148**	6818 **144**	8235 **140**	11021 **131**
30	359 **182**	3250 **180**	6074 **176**	7443 **172**	10179 **165**

Flow (GPM)

TORQUE (LB IN) 7443
SPEED (RPM) 172

T G S E R I E S

Performance data is typical. Actual data may vary slightly from one production motor to another.

Code 0785

785 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9
1.9	328.8 **2**	695.2 **2**	1085.4 **1**	1463.1 **1**
3.8	340.2 **4**	711.3 **4**	1092.5 **3**	1459.6 **3**
7.6	363.5 **9**	738.4 **8**	1122.5 **7**	1475.5 **6**
11.4	363.8 **14**	747.1 **13**	1127.2 **11**	1477.7 **9**
15.1	368.9 **19**	754.6 **17**	1132.2 **15**	1477.6 **13**
18.9	368.7 **23**	757.3 **22**	1135.1 **19**	1480.4 **16**
26.5	363.6 **33**	759.5 **31**	1137.5 **28**	1475.7 **24**
34.1	351.0 **43**	752.9 **41**	1142.0 **36**	1489.6 **31**
45.4	326.7 **57**	733.1 **55**	1125.2 **49**	1478.0 **42**
56.8	298.6 **71**	704.8 **69**	1099.6 **62**	1461.7 **54**
75.7	230.9 **95**	640.9 **92**	1043.8 **85**	1427.6 **75**
94.6	261.3 **119**	562.2 **117**	968.4 **110**	1364.0 **101**
113.6	56.0 **143**	463.7 **141**	856.6 **137**	1245.5 **130**

TORQUE (nm) 856.6
SPEED (RPM) 137

48.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000
.5	2910 **2**	6153 **2**	9607 **1**	12950 **1**
1	3011 **4**	6296 **4**	9670 **3**	12919 **3**
2	3217 **9**	6536 **8**	9935 **7**	13060 **6**
3	3220 **14**	6613 **13**	9977 **11**	13079 **9**
4	3265 **19**	6679 **17**	10021 **15**	13078 **13**
5	3263 **23**	6703 **22**	10047 **19**	13103 **16**
7	3218 **33**	6722 **31**	10068 **28**	13062 **24**
9	3107 **43**	6664 **41**	10108 **36**	13185 **31**
12	2892 **57**	6489 **55**	9959 **49**	13082 **42**
15	2643 **71**	6238 **69**	9733 **62**	12938 **54**
20	2044 **95**	5673 **92**	9239 **85**	12636 **75**
25	2313 **119**	4976 **117**	8571 **110**	12073 **101**
30	496 **143**	4104 **141**	7582 **137**	11024 **130**

TORQUE (LB IN) 11024
SPEED (RPM) 130

TG SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0960

960 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4
1.9	417.1 **2**	871.3 **1**	1327.5 **1**
3.8	428.0 **3**	887.8 **3**	1343.9 **3**
7.6	440.6 **7**	908.9 **7**	1362.3 **6**
11.4	441.2 **11**	912.7 **11**	1371.0 **10**
15.1	445.0 **15**	921.4 **14**	1379.5 **13**
18.9	443.2 **19**	923.4 **18**	1382.6 **17**
26.5	436.1 **27**	921.9 **26**	1385.4 **24**
34.1	421.8 **35**	912.2 **34**	1381.1 **31**
45.4	392.6 **47**	886.7 **45**	1362.8 **42**
56.8	355.8 **58**	852.4 **57**	1335.8 **53**
75.7	275.3 **78**	773.1 **76**	1268.4 **72**
94.6	335.4 **98**	676.8 **96**	1170.5 **92**
113.6	68.1 **118**	555.7 **117**	1036.0 **113**

TORQUE (nm) 555.7
SPEED (RPM) 117

58.5 cu in / rev

PRESSURE (PSI)

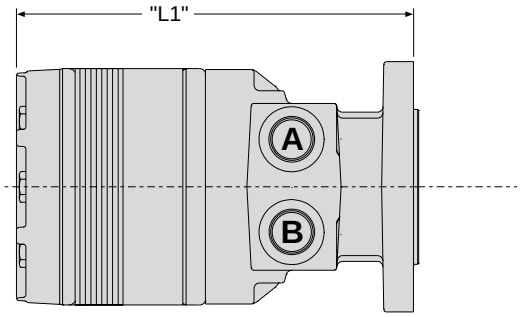
Flow (GPM)	500	1000	1500
.5	3692 **2**	7712 **1**	11750 **1**
1	3788 **3**	7858 **3**	11895 **3**
2	3900 **7**	8045 **7**	12058 **6**
3	3905 **11**	8078 **11**	12135 **10**
4	3939 **15**	8155 **14**	12210 **13**
5	3923 **19**	8173 **18**	12238 **17**
7	3860 **27**	8160 **26**	12262 **24**
9	3733 **35**	8074 **34**	12224 **31**
12	3475 **47**	7848 **45**	12062 **42**
15	3149 **58**	7545 **57**	11823 **53**
20	2437 **78**	6843 **76**	11227 **72**
25	2969 **98**	5990 **96**	10360 **92**
30	603 **118**	4919 **117**	9170 **113**

TORQUE (LB IN) 9170
SPEED (RPM) 113

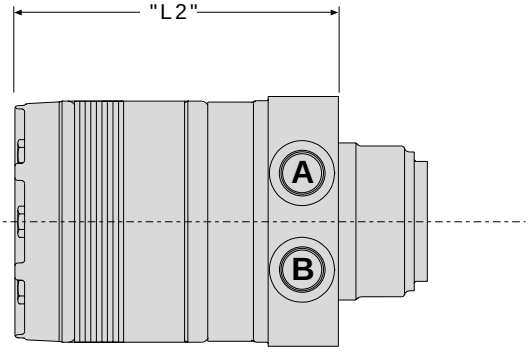
Performance data is typical. Actual data may vary slightly from one production motor to another.

Lengths & Weights

Inch equivalents for metric dimensions are shown in (**)



Magneto, SAE "A", SAE "B" Mounts



Wheel, Front Brake Nose Wheel, Optional Wheel Mounts

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**

Length "L" and Weight

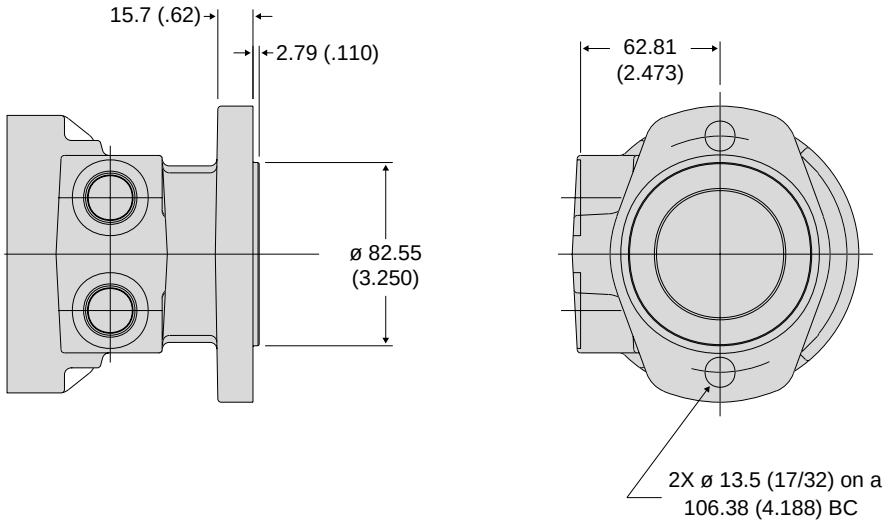
Displacement, Code	0140	0170	0195	0240	0280	0335	0405	0415	0530	0625	0785	0960
Magneto &SAE "A"												
Length "L1" mm	196	199	202	207	211	218	225	234	240	250	269	288
Length "L1" (inches)	(7.70)	(7.82)	(7.95)	(8.13)	(8.32)	(8.57)	(8.86)	(9.20)	(9.45)	(9.82)	(10.57)	(11.32)
Weight kg	14.2	14.5	14.7	15.1	15.5	15.9	16.5	17.2	17.9	18.6	20.2	21.9
Weight (lb)	(31.4)	(32.0)	(32.5)	(33.3)	(34.2)	(35.1)	(36.4)	(37.9)	(39.5)	(41.1)	(44.5)	(48.3)
SAE "B"												
Length "L1" mm	189	192	195	200	205	211	219	227	233	243	262	281
Length "L1" (inches)	(7.44)	(7.56)	(7.69)	(7.87)	(8.06)	(8.31)	(8.60)	(8.94)	(9.19)	(9.56)	(10.31)	(11.06)
Weight kg	14.9	15.2	15.3	15.7	16.1	16.6	17.1	17.8	18.6	19.3	20.8	22.5
Weight (lb)	(32.8)	(33.4)	(33.9)	(34.7)	(35.6)	(36.5)	(37.8)	(39.3)	(40.9)	(42.5)	(45.9)	(49.7)
Displacement, Code	**0140**	**0170**	**0195**	**0240**	**0280**	**0335**	**0405**	**0415**	**0530**	**0625**	**0785**	**0960**
Wheel & Brake Mount												
Length "L2" mm	150	154	157	161	166	173	180	188	195	204	223	242
Length "L2" (inches)	(5.92)	(6.04)	(6.17)	(6.35)	(6.54)	(6.79)	(7.08)	(7.42)	(7.67)	(8.04)	(8.79)	(9.54)
Weight kg	14.6	14.8	15.1	15.5	15.9	16.3	16.9	17.5	18.3	19.0	20.5	22.2
Weight (lb)	(32.2)	(37.7)	(33.3)	(34.1)	(35.0)	(35.8)	(37.2)	(38.6)	(40.3)	(41.8)	(45.3)	(49.0)
Optional Wheel Mount												
Length "L2" mm	178	181	184	189	193	200	207	216	222	232	251	270
Length "L2" (inches)	(6.99)	(7.11)	(7.24)	(7.43)	(7.61)	(7.86)	(8.15)	(8.49)	(8.74)	(9.12)	(9.87)	(10.62)
Weight kg	17.6	17.8	18.1	18.4	18.8	19.3	19.8	20.5	21.3	22.0	23.5	25.2
Weight (lb)	(38.7)	(39.3)	(39.8)	(40.6)	(41.5)	(42.4)	(43.7)	(45.2)	(46.8)	(48.4)	(51.8)	(55.6)

TG SERIES

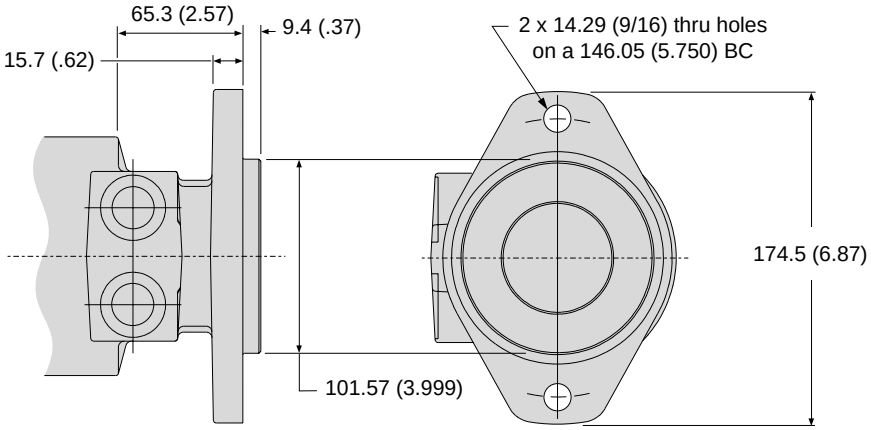
Mounting

Inch equivalents for metric dimensions are shown in (**)

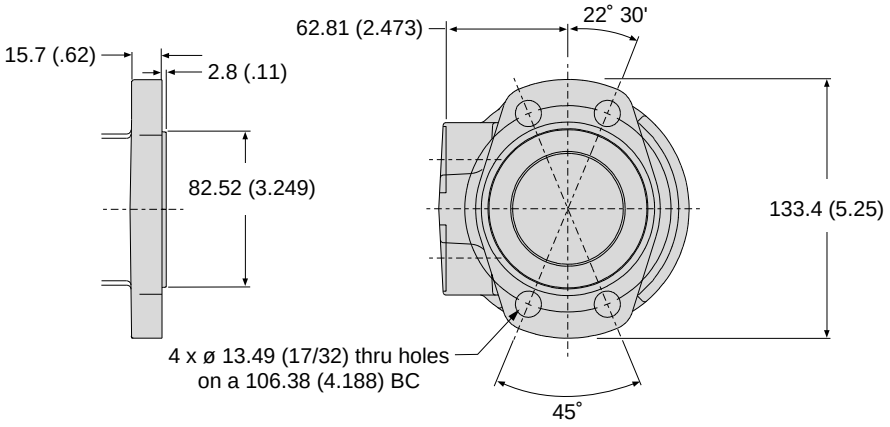
SAE "A" 2 Bolt Flange



SAE "B" 2 Bolt Flange



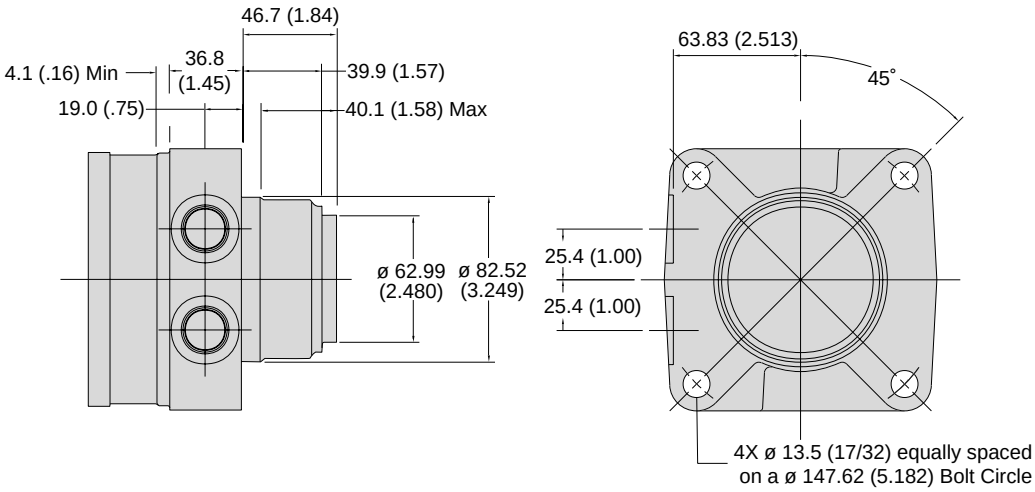
4 Bolt Magneto



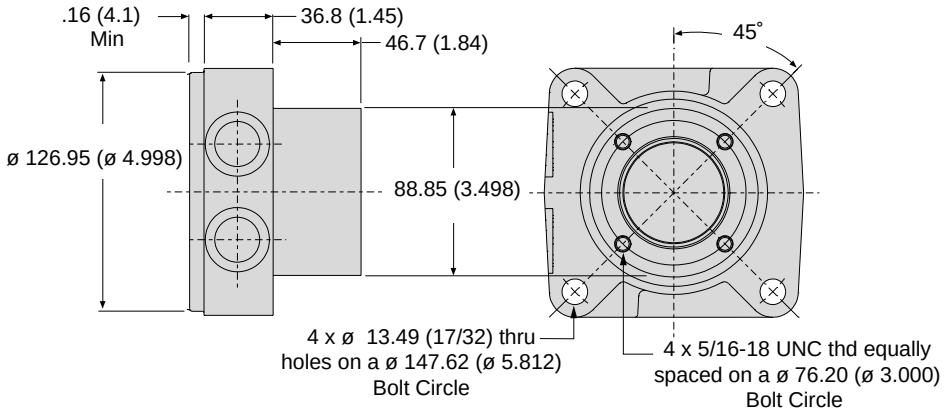
Mounting, Wheel

Inch equivalents for metric dimensions are shown in (**)

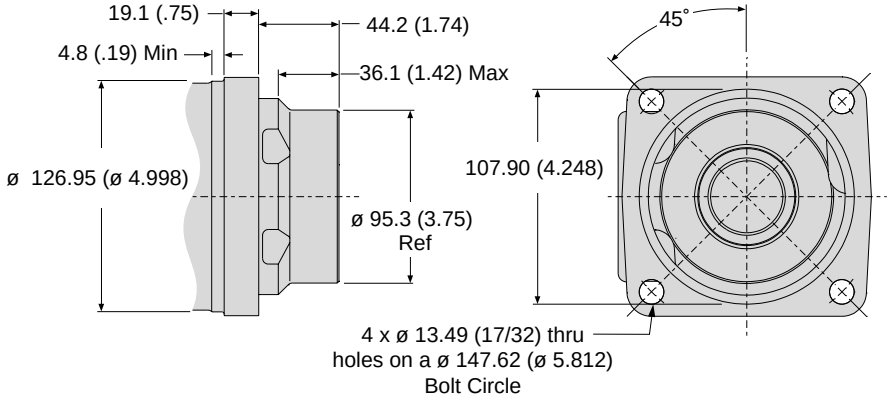
Wheel



Wheel, Front Brake Nose



Wheel, Optional

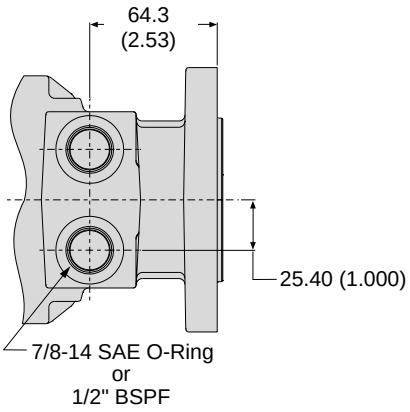


TG SERIES

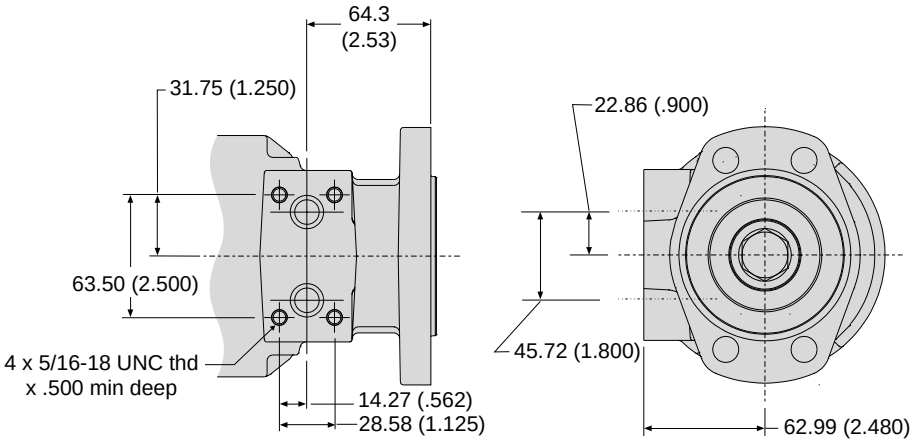
Porting

Inch equivalents for metric dimensions are shown in (**)

SAE O-Ring & BSPF

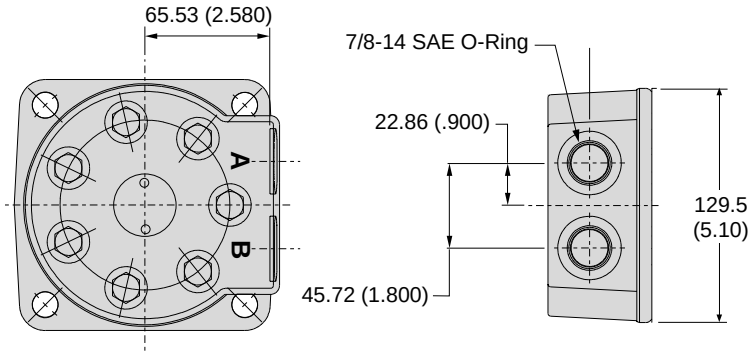


Manifold

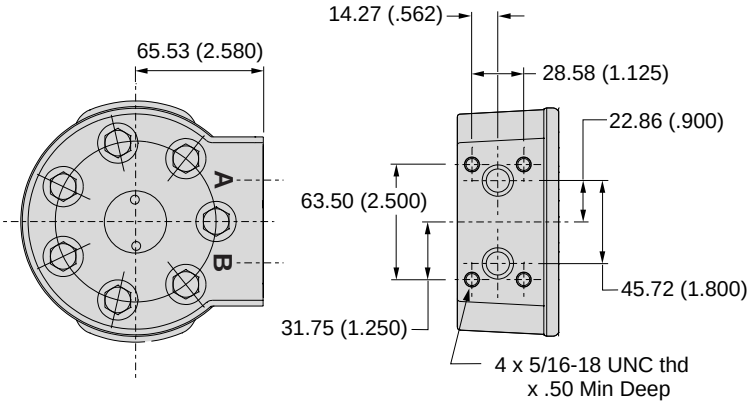


Rear Ports

7/8-14 SAE O-Ring



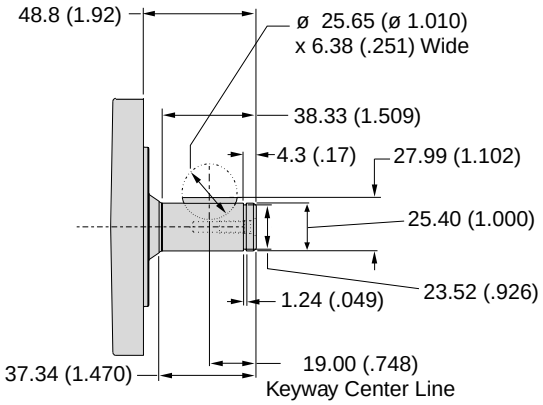
Manifold

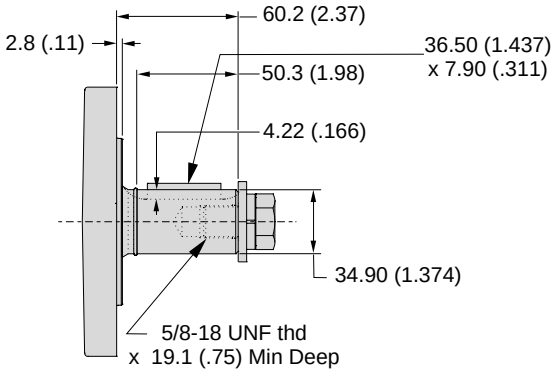


Consult Factory for
ISO 6149 Porting

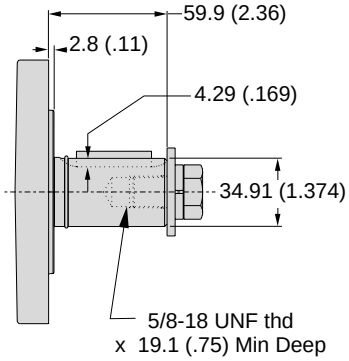
Shafts

Inch equivalents for metric dimensions are shown in (**)



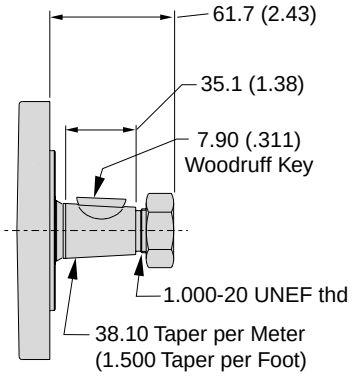


1 1/4" Keyed

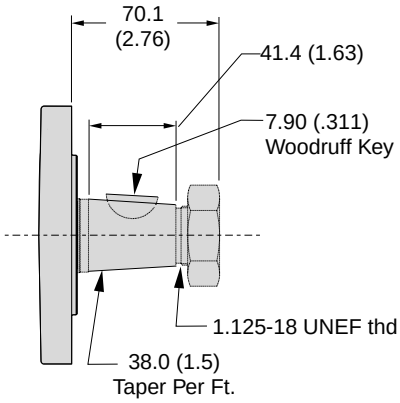


Key Width .311

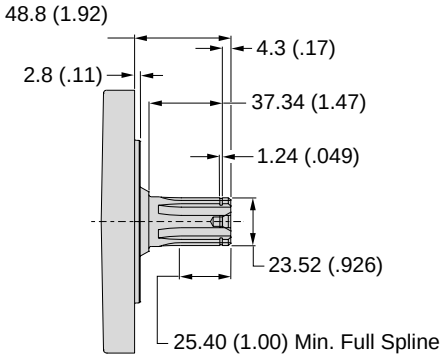
1 3/8" Keyed



1 1/4" Taper

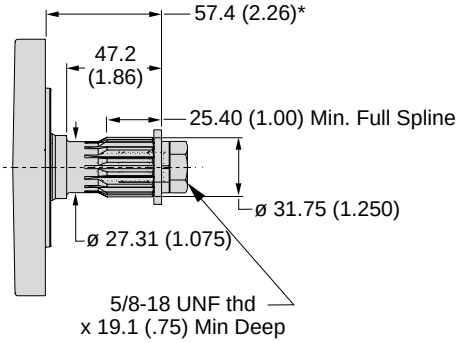


1 3/8" Taper



1" 6B Spline

* Add .26" for SAE B Mount
Add 1.78" for Wheel Mount
Add 1.68" for Optional Wheel Mount



1 1/4" 14 Tooth Spline

TG SERIES

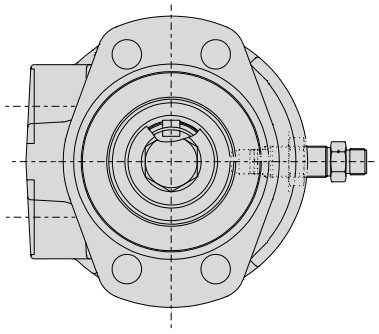
PSLGC.PM6, dg, ki

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

An Economical Sensor for Speed Readout

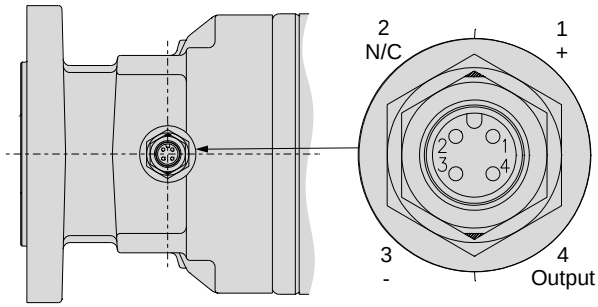
This rugged, weather resistant speed sensor is a Hall effect device. When externally powered, 30 square wave digital pulses per output shaft revolution are produced. By signal multiplication, 60 pulses per revolution can be obtained.

The installation of this economical sensor does not affect the torque or side load capability of the **Torqlink™** motor into which it is installed.



Features

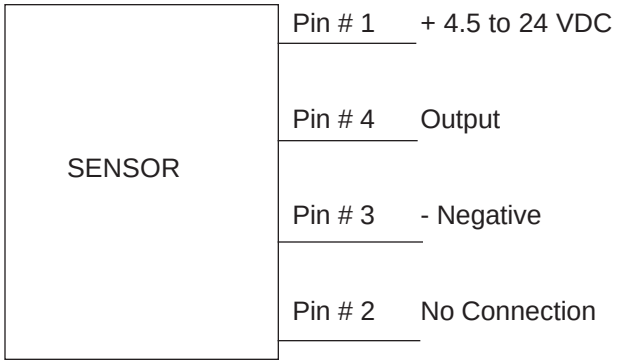
- Operating Voltage Range ..... 4.5 to 24 VDC
- Operating Temperature ..... -40° C to 93° C (-40° F to 200° F)
- Operating Frequency Range ..... 0 to 100 KHZ
- Maximum Sink Current ..... 20 mA
- Connection ..... DC Din Standard 4 Pin Micro-Mini
- Pin Diameter 12mm
- Sensor Output ..... 30 Pulses per Revolution which can be doubled electronically.

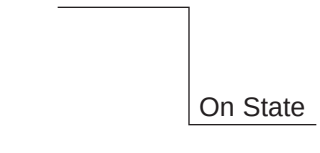


Pull-up Resistor Value Formula
(for 1/4 Watt, 5% Tolerance)

$$\frac{\text{V Supply (4.5-24 VDC)}}{\text{Desired Sink Current (0-20 mA ±20\%)}} = \text{Resistor Value (K - Ohms)}$$

On State Current: 5 mA
Higher wattage resistor will be needed for higher sink current.





Cable not included

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

TG	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	11.9 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0335	20.6 cu in/rev
0405	24.7 cu in/rev
0475	29.1 cu in/rev
0530	32.3 cu in/rev
0625	38.0 cu in/rev
0785	48.0 cu in/rev
0960	58.5 cu in/rev

Code	Porting
A	7/8"-14 SAE O-Ring; Rear Axial
B	7/8"-14 SAE O-Ring; Rear Radial
E	Manifold; Rear Radial
J	ISO 6149 M22x1.5
M*	Manifold
S	7/8"-14 SAE O-Ring
T**	1/2" BSPF

* Not available on L, U or W mounting

** Available on A & M mounting only

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
A	SAE "A" 2-Bolt
B	SAE "B" 2-Bolt
M	Magneto
U	Wheel; Standard
L	Wheel; Front Brake Nose
W*	Wheel, Optional

* Requires rear porting

Code	Shaft
01	1"6B Spline
02	1" Keyed
03	1 1/4" Keyed
04	10B Spline
05	1 1/4" 14 Tooth Spline
06	19 Tooth Spline
07	15 Tooth Spline
08	1 1/4" Tapered
19	1 3/8" Tapered
20	1 3/8" Keyed

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAF***	Castle Nut, Black Paint
AABP***	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT*	Bidirectional Shuttle (11:00**), Black Paint
AAFX*	Bidirectional Shuttle (11:00**), No Paint
AAAU*	Bidirectional Shuttle (11:00**), Castle Nut, Black Paint
AAGF*	Bidirectional Shuttle (11:00**), Castle Nut, No Paint
AABJ****	Free Running Rotorset, Black Paint
AABK****	Free Running Rotorset, No Paint
AABL****	Free Running Rotorset, No Commutator Seal, Black Paint
AABM****	Free Running Rotorset, No Commutator Seal, No Paint
BBBA*	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM*	1000 PSI Internal Bidirectional Relief, No Paint
BBBG*	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ*	1500 PSI Internal Bidirectional Relief, No Paint
BBBB*	2000 PSI Internal Bidirectional Relief, Black Paint
BBBN*	2000 PSI Internal Bidirectional Relief, No Paint
BBBK*	2000 PSI Internal Bidirectional Relief, Castle Nut, Black Paint
BBBC*	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF*	3000 PSI Internal Bidirectional Relief, No Paint
BBBD*	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW*	4000 PSI Internal Bidirectional Relief, No Paint
FFAA	Internal Speed Sensor, Black Paint
FFAB	Internal Speed Sensor, No Paint
FFAH	Internal Speed Sensor, Castle Nut, No Paint
FFAJ	Internal Speed Sensor, Castle Nut, Black Paint

* Not available with A, B or E porting
** Shuttle port position as viewed from shaft end of motor
*** Available only with shaft code 08 & 19
**** Not available on 0625, 0785 or 0960 displacement codes

TG SERIES

PSLGC.PM6, dg, ki

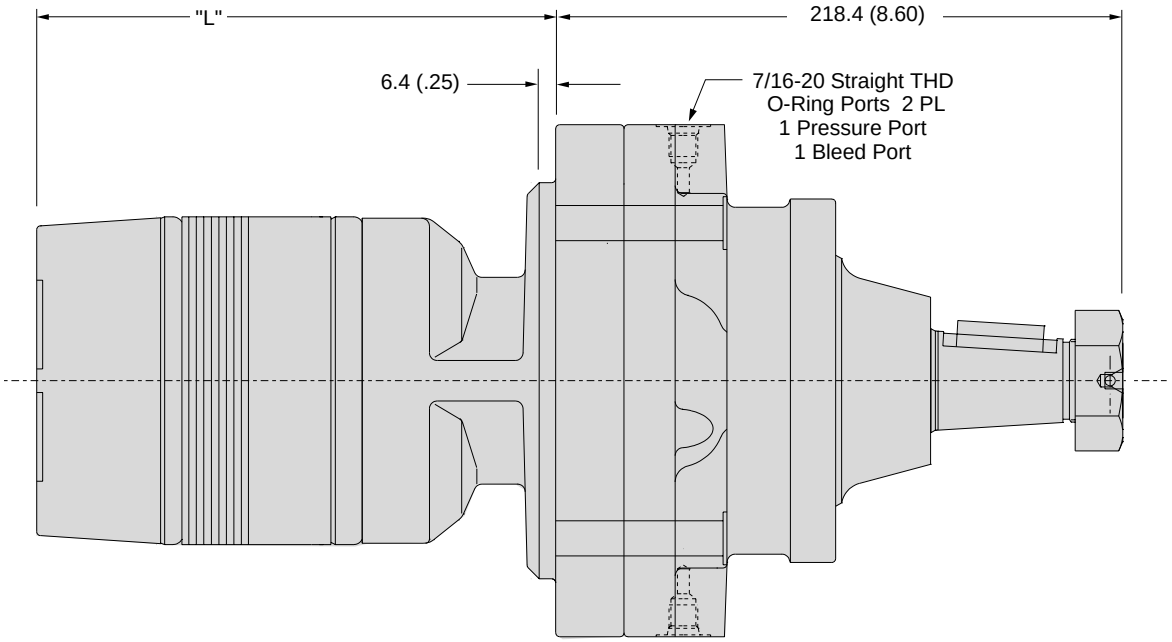
Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Brake Motor

This motor/brake combination consists of a TG Series motor built into a front mounted brake. The brake is a wet disc, spring set, hydraulically released unit. When hydraulic pressure is absent at the pilot port of the brake, internal springs will hold against 10,200 lb in of torque. The brake will start to release when 360 PSI is present in the brake pilot port and will be fully disengaged when that pressure reaches 460 PSI. The pilot port is capable of withstanding the maximum operating pressure of the TG Series motor.

Dimensions

Inch equivalents for metric dimensions are shown in (**)



TG	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	11.9 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0335	20.6 cu in/rev
0405	24.7 cu in/rev
0475	29.1 cu in/rev
0530	32.3 cu in/rev
0625	38.0 cu in/rev
0785	48.0 cu in/rev
0960	58.5 cu in/rev

Code	Porting
A	7/8"-14 SAE O-Ring; Rear Axial
B	7/8"-14 SAE O-Ring; Rear Radial
S	7/8"-14 SAE O-Ring; Front Radial

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
8	Wheel Brake

Code	Shaft
03	1 1/4" Keyed
05	1 1/4" 14 Tooth Spline
08	1 1/4" Tapered
31	1 1/2" Tapered
32	1 1/2" Keyed
36	1 1/2" 17 Tooth Spline

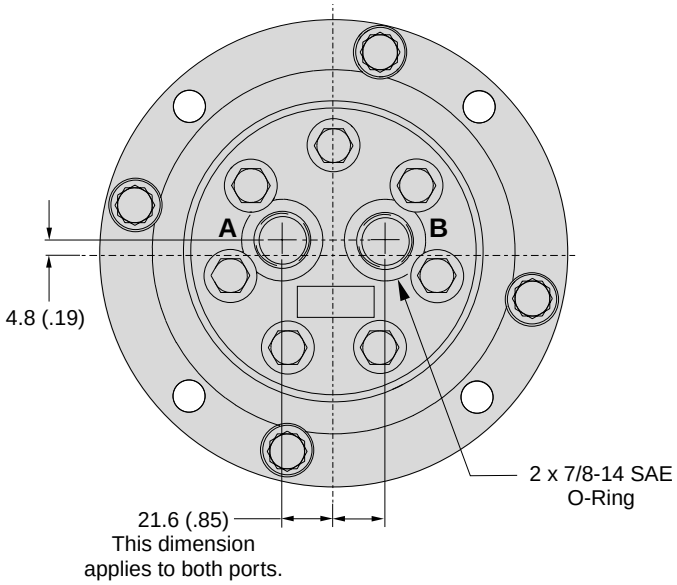
Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAF***	Castle Nut, Black Paint
AABP***	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT*	Bidirectional Shuttle (11:00**), Black Paint
AAFX*	Bidirectional Shuttle (11:00**), No Paint
AAAU*	Bidirectional Shuttle (11:00**), Castle Nut, Black Paint
AAGF*	Bidirectional Shuttle (11:00**), Castle Nut, No Paint
AABJ****	Free Running Rotorset, Black Paint
AABK****	Free Running Rotorset, No Paint
AABL****	Free Running Rotorset, No Commutator Seal, Black Paint
AABM****	Free Running Rotorset, No Commutator Seal, No Paint
BBBA*	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM*	1000 PSI Internal Bidirectional Relief, No Paint
BBBG*	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ*	1500 PSI Internal Bidirectional Relief, No Paint
BBBB*	2000 PSI Internal Bidirectional Relief, Black Paint
BBCC*	2000 PSI Internal Bidirectional Relief, No Paint
BBBK*	2000 PSI Internal Bidirectional Relief, Castle Nut, Black Paint
BBBC*	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF*	3000 PSI Internal Bidirectional Relief, No Paint
BBBD*	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW*	4000 PSI Internal Bidirectional Relief, No Paint

* Not available with A or B porting
** Shuttle port position as viewed from shaft end of motor
*** Available only with shaft code 08 or 31
**** Not available on 0625, 0785, or 0960 displacement codes

TG SERIES

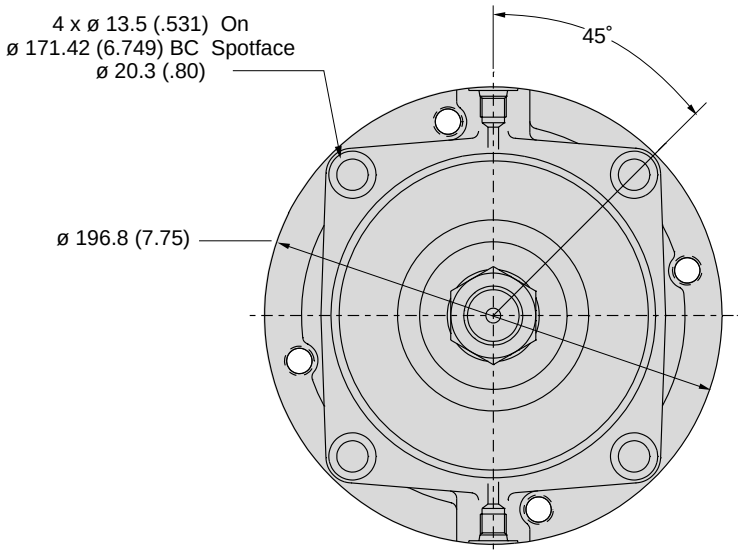
Dimensions

Inch equivalents for metric dimensions are shown in (**)



Rear View

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**



Front View

A Rugged Motor for Heavy Duty, High Side Load Applications

This motor was designed for tough applications. A stout drive link with patented 60:40 spline geometry will transmit over 13000 lb in of torque. The 1 1/2" output shaft can support 7000 lb of axial load. Efficiency is assured by use of roller vanes and sealed commutator. Durability is maintained by continually washing the powertrain splines and shaft seal in cooling fluid.

Options

- 1 1/2 inch Keyed, Splined or Tapered Shafts
- Wheel or 4 Bolt Magneto Mounting
- SAE O-Ring or Manifold Porting
- Front or Rear Porting
- Internal Cross - Over Relief Valves
- Hot Oil Shuttle
- Free Running Rotor Set
- Reverse Timed Manifold
- Corrosion Resistance

Features

- **Roller Bearings** - For Heavy Radial Loads
- **Roller Vane Power Element** - For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** - For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** - For Extended Spline Life
- **High Pressure Shaft Seal** - For High Back Pressure Operation Without External Drain Lines
- **High Flow Shaft Seal Cooling** - For Long Seal Life
- **60:40 Spline Geometry -** For Superior Powertrain Strength, Long Life
- **Robust Construction** - For Quiet operation

TH Specifications

Code		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Displacement	cc/rev	140	169	195	237	280	337	405	476	529	624	786	958
	(cu in/rev)	(8.6)	(10.3)	(11.9)	(14.5)	(17.1)	(20.6)	(24.7)	(29.1)	(32.3)	(38.0)	(48.0)	(58.5)
Maximum Speed (rpm) @ Maximum Continuous Flow		528	442	381	314	266	221	185	157	141	120	95	78
Pressure Differential													
Maximum Continuous	bar	206.9	206.9	206.9	206.9	206.9	206.9	172.4	137.9	137.9	120.7	103.4	69.0
	(psid)	(3000)	(3000)	(3000)	(3000)	(3000)	(3000)	(2500)	(2000)	(2000)	(1750)	(1500)	(1000)
Maximum Intermittent	bar	275.9	275.9	275.9	275.9	275.9	275.9	241.4	206.9	172.4	155.2	137.9	103.4
	(psid)	(4000)	(4000)	(4000)	(4000)	(4000)	(4000)	(3500)	(3000)	(2500)	(2250)	(2000)	(1500)
Max. Torque @ Max. Continuous Pressure	nm	406.8	494.9	576.0	704.9	824.9	1006.4	991.1	954.1	1057.7	1054.9	1142.0	923.4
	(lb-in)	(3601)	(4380)	(5098)	(6239)	(7301)	(8908)	(8772)	(8445)	(9362)	(9337)	(10108)	(8173)
Max. Torque @ Max. Intermittent Pressure	nm	541.6	659.6	765.6	937.5	1096.7	1337.0	1386.4	1424.5	1317.2	1348.4	1489.6	1385.4
	(lb-in)	(4794)	(5838)	(6776)	(8298)	(9707)	(11834)	(12271)	(12608)	(11659)	(11935)	(13185)	(12262)

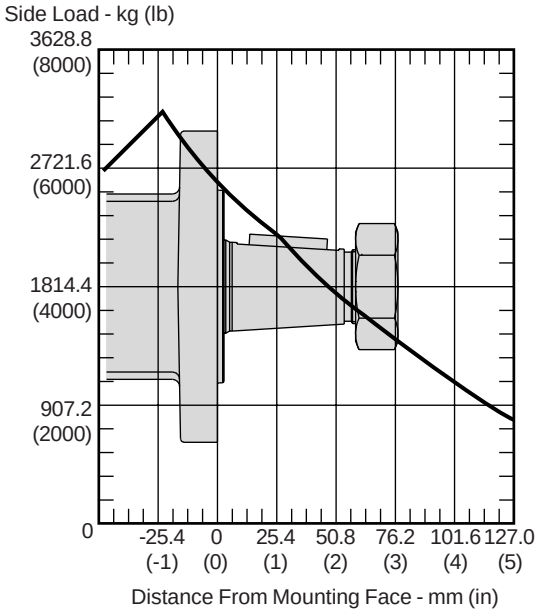
TH SERIES

PSLGC.PM6, dg, ki

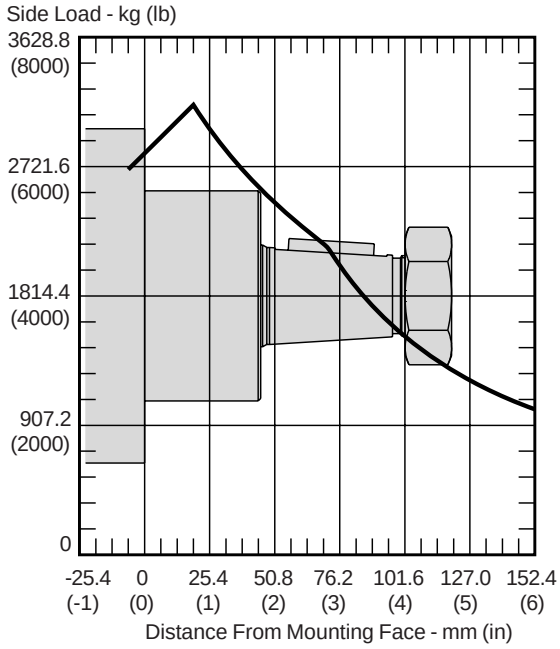
Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Maximum Side Load Capacity

Flange Mount

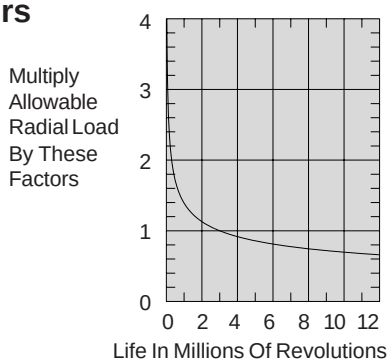


Wheel Mount



B-10 Life Factors

Application of the above uni-directional radial loads will result in a B-10 life of 3 million revolutions. For B-10 life at other radial loads, apply the factors from the curve to the right.



Performance Data

Continuous / Intermittent* Operation

= Continuous

= Intermittent*

**Intermittent operation is defined as less than 10% per minute.*

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.

TH SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0140

140 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	58.6 **9**	119.8 **4**						
3.8	61.0 **22**	123.1 **17**	184.7 **11**	246.3 **6**				
7.6	64.3 **49**	130.6 **43**	195.5 **36**	258.3 **30**	319.4 **23**	380.5 **19**	440.5 **12**	502.4 **12**
11.4	63.8 **75**	130.9 **69**	197.0 **62**	262.2 **55**	327.5 **47**	392.8 **40**	457.3 **33**	520.6 **29**
15.1	63.7 **102**	132.2 **94**	199.7 **87**	266.4 **80**	332.5 **72**	397.4 **64**	461.2 **57**	524.7 **52**
18.9	62.8 **128**	132.2 **120**	200.7 **112**	268.3 **105**	335.3 **97**	401.8 **89**	467.2 **81**	531.1 **76**
26.5	61.0 **182**	131.1 **172**	201.0 **164**	270.0 **155**	338.3 **146**	405.8 **138**	472.4 **130**	538.1 **123**
34.1	58.2 **235**	129.1 **225**	199.7 **215**	269.5 **206**	338.5 **196**	406.8 **187**	474.4 **179**	541.6 **171**
45.4	53.2 **315**	123.8 **303**	195.3 **292**	266.2 **281**	336.0 **271**	405.3 **261**	473.7 **252**	541.6 **243**
56.8	47.2 **395**	117.7 **381**	189.0 **368**	260.6 **357**	331.4 **346**	401.0 **336**	470.3 **325**	539.0 **314**
75.7	33.8 **528**	105.2 **512**	176.8 **497**	248.3 **484**	319.2 **472**	390.3 **459**	460.7 **447**	530.1 **435**
94.6	19.5 **660**	89.7 **643**	161.1 **626**	232.6 **612**	304.5 **598**	376.4 **583**	447.5 **569**	517.3 **555**

TORQUE (nm) 304.5
SPEED (RPM) 598

Code 0170

170 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	70.0 **9**	145.1 **7**	219.7 **5**	295.2 **4**	372.0 **3**	450.0 **2**		
3.8	73.7 **20**	151.1 **18**	226.6 **16**	303.1 **14**	381.3 **12**	459.0 **11**	536.0 **8**	610.3 **8**
7.6	76.6 **42**	157.0 **40**	237.8 **37**	318.8 **35**	399.4 **32**	477.5 **30**	554.6 **27**	631.2 **25**
11.4	76.6 **64**	157.8 **61**	239.2 **58**	320.4 **56**	401.5 **53**	481.6 **50**	560.7 **46**	638.6 **44**
15.1	76.7 **86**	159.2 **83**	242.0 **80**	324.5 **77**	406.3 **74**	486.9 **71**	567.3 **67**	645.8 **64**
18.9	76.3 **108**	159.6 **104**	242.9 **101**	325.9 **98**	408.5 **94**	490.2 **91**	571.3 **87**	650.9 **83**
26.5	74.7 **153**	158.7 **148**	243.1 **143**	327.6 **140**	411.5 **136**	494.2 **132**	576.3 **127**	657.3 **123**
34.1	71.4 **197**	156.5 **191**	241.8 **186**	326.6 **181**	411.0 **177**	494.9 **173**	577.8 **168**	659.6 **163**
45.4	65.9 **263**	150.7 **256**	236.8 **250**	323.1 **244**	408.6 **239**	492.8 **234**	576.3 **228**	657.9 **223**
56.8	59.2 **330**	144.0 **322**	229.9 **314**	316.8 **308**	403.6 **302**	488.9 **296**	572.8 **289**	655.4 **283**
75.7	43.2 **442**	129.1 **432**	215.6 **422**	303.1 **413**	390.3 **406**	476.3 **399**	561.7 **391**	645.6 **383**
94.6	27.0 **554**	111.1 **543**	197.4 **531**	285.0 **520**	372.7 **511**	459.9 **501**	546.7 **492**	631.7 **483**

8.6 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	519 **9**	1060 **4**						
1	540 **22**	1090 **17**	1635 **11**	2180 **6**				
2	569 **49**	1156 **43**	1730 **36**	2286 **30**	2827 **23**	3368 **19**	3899 **12**	4447 **12**
3	565 **75**	1159 **69**	1744 **62**	2321 **55**	2899 **47**	3477 **40**	4048 **33**	4608 **29**
4	564 **102**	1170 **94**	1768 **87**	2358 **80**	2943 **72**	3517 **64**	4082 **57**	4644 **52**
5	556 **128**	1170 **120**	1776 **112**	2375 **105**	2968 **97**	3556 **89**	4135 **81**	4701 **76**
7	540 **182**	1160 **172**	1779 **164**	2390 **155**	2994 **146**	3592 **138**	4181 **130**	4763 **123**
9	515 **235**	1143 **225**	1768 **215**	2385 **206**	2996 **196**	3601 **187**	4199 **179**	4794 **171**
12	471 **315**	1096 **303**	1729 **292**	2356 **281**	2974 **271**	3587 **261**	4193 **252**	4794 **243**
15	418 **395**	1042 **381**	1673 **368**	2307 **357**	2933 **346**	3549 **336**	4163 **325**	4771 **314**
20	299 **528**	931 **512**	1565 **497**	2198 **484**	2825 **472**	3455 **459**	4078 **447**	4692 **435**
25	173 **660**	794 **643**	1426 **626**	2059 **612**	2695 **598**	3332 **583**	3961 **569**	4579 **555**

TORQUE (LB IN) 3899
SPEED (RPM) 12

10.3 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	620 **9**	1284 **7**	1945 **5**	2613 **4**	3293 **3**	3983 **2**		
1	652 **20**	1337 **18**	2006 **16**	2683 **14**	3375 **12**	4063 **11**	4744 **8**	5402 **8**
2	678 **42**	1390 **40**	2105 **37**	2822 **35**	3535 **32**	4226 **30**	4909 **27**	5587 **25**
3	678 **64**	1397 **61**	2117 **58**	2836 **56**	3554 **53**	4263 **50**	4963 **46**	5652 **44**
4	679 **86**	1409 **83**	2142 **80**	2872 **77**	3596 **74**	4310 **71**	5021 **67**	5716 **64**
5	675 **108**	1413 **104**	2150 **101**	2885 **98**	3616 **94**	4339 **91**	5057 **87**	5761 **83**
7	661 **153**	1405 **148**	2152 **143**	2900 **140**	3642 **136**	4374 **132**	5101 **127**	5818 **123**
9	632 **197**	1385 **191**	2140 **186**	2891 **181**	3638 **177**	4380 **173**	5114 **168**	5838 **163**
12	583 **263**	1334 **256**	2096 **250**	2860 **244**	3617 **239**	4362 **234**	5101 **228**	5823 **223**
15	524 **330**	1275 **322**	2035 **314**	2804 **308**	3572 **302**	4327 **296**	5070 **289**	5801 **283**
20	382 **442**	1143 **432**	1908 **422**	2683 **413**	3455 **406**	4216 **399**	4972 **391**	5714 **383**
25	239 **554**	983 **543**	1747 **531**	2523 **520**	3299 **511**	4071 **501**	4839 **492**	5591 **483**

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

TH SERIES

Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0195

195 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	82.8 **7**	169.8 **3**						
3.8	86.0 **16**	174.7 **13**	262.8 **8**	350.7 **3**				
7.6	90.3 **35**	185.1 **32**	278.5 **27**	369.4 **21**	457.1 **16**	543.8 **11**	631.4 **7**	720.2 **6**
11.4	89.7 **55**	185.2 **50**	279.7 **45**	373.2 **39**	466.8 **34**	561.5 **28**	654.4 **23**	745.1 **19**
15.1	89.7 **74**	186.9 **69**	283.5 **64**	379.2 **58**	474.1 **52**	567.5 **46**	658.7 **40**	749.6 **35**
18.9	88.5 **93**	186.8 **88**	284.4 **83**	381.3 **76**	477.2 **70**	572.2 **64**	666.0 **58**	758.1 **52**
26.5	86.1 **131**	184.9 **126**	284.0 **120**	382.3 **113**	479.6 **106**	576.0 **99**	671.1 **92**	765.1 **86**
34.1	82.6 **170**	182.6 **164**	282.3 **157**	381.1 **150**	478.9 **142**	575.4 **135**	670.6 **127**	765.3 **120**
45.4	76.5 **228**	176.5 **221**	277.4 **213**	377.7 **205**	476.4 **196**	574.1 **188**	670.4 **179**	765.6 **172**
56.8	69.3 **285**	169.2 **278**	269.9 **269**	370.9 **260**	471.0 **251**	569.4 **242**	667.4 **232**	764.3 **233**
75.7	50.6 **381**	152.5 **373**	253.6 **363**	354.9 **353**	455.4 **342**	555.7 **331**	655.1 **321**	752.8 **310**
94.6	37.7 **477**	130.8 **468**	230.9 **457**	332.3 **445**	433.5 **433**	534.3 **421**	634.0 **409**	734.4 **397**

TORQUE (nm) 534.3
SPEED (RPM) 421

11.9 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	733 **7**	1503 **3**						
1	761 **16**	1546 **13**	2326 **8**	3104 **3**				
2	799 **35**	1638 **32**	2465 **27**	3270 **21**	4046 **16**	4813 **11**	5589 **7**	6375 **6**
3	794 **55**	1639 **50**	2476 **45**	3303 **39**	4132 **34**	4970 **28**	5792 **23**	6595 **19**
4	794 **74**	1654 **69**	2509 **64**	3356 **58**	4196 **52**	5023 **46**	5830 **40**	6635 **35**
5	783 **93**	1653 **88**	2517 **83**	3375 **76**	4224 **70**	5065 **64**	5895 **58**	6710 **52**
7	762 **131**	1637 **126**	2514 **120**	3384 **113**	4245 **106**	5098 **99**	5940 **92**	6772 **86**
9	731 **170**	1616 **164**	2499 **157**	3373 **150**	4239 **142**	5093 **135**	5936 **127**	6774 **120**
12	677 **228**	1562 **221**	2455 **213**	3343 **205**	4217 **196**	5081 **188**	5934 **179**	6776 **172**
15	613 **285**	1498 **278**	2389 **269**	3283 **260**	4169 **251**	5040 **242**	5907 **232**	6765 **233**
20	448 **381**	1350 **373**	2245 **363**	3141 **353**	4031 **342**	4919 **331**	5798 **321**	6663 **310**
25	334 **477**	1158 **468**	2044 **457**	2941 **445**	3837 **433**	4729 **421**	5612 **409**	6500 **397**

TORQUE (LB IN) 4813
SPEED (RPM) 11

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Code 0240

240 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	105.3 **6**	215.5 **4**	327.0 **2**					
3.8	108.5 **14**	220.8 **12**	333.3 **9**	445.5 **6**	558.0 **3**	670.0 **2**		
7.6	111.6 **30**	229.5 **27**	346.3 **24**	462.1 **20**	577.0 **17**	689.2 **14**	798.5 **11**	908.0 **9**
11.4	111.1 **45**	229.2 **42**	347.0 **39**	463.3 **35**	579.4 **31**	696.1 **27**	811.4 **23**	924.6 **20**
15.1	110.5 **61**	230.1 **58**	349.1 **54**	467.3 **49**	584.8 **45**	701.3 **42**	816.8 **37**	930.3 **33**
18.9	108.7 **77**	229.3 **73**	349.3 **69**	468.2 **64**	586.4 **60**	704.0 **56**	820.1 **51**	934.5 **47**
26.5	105.4 **108**	226.5 **104**	347.8 **99**	467.9 **94**	586.8 **89**	704.9 **84**	821.9 **78**	937.5 **73**
34.1	100.6 **140**	222.8 **135**	344.4 **129**	464.6 **123**	584.0 **117**	701.9 **112**	818.5 **106**	934.5 **100**
45.4	94.0 **187**	216.0 **181**	338.5 **175**	459.9 **167**	579.0 **161**	696.3 **154**	812.9 **147**	929.1 **140**
56.8	85.1 **235**	207.0 **228**	330.0 **220**	452.9 **212**	574.1 **204**	693.4 **196**	811.4 **188**	927.8 **180**
75.7	63.2 **314**	186.9 **306**	310.0 **297**	433.2 **287**	555.5 **278**	676.9 **268**	795.9 **258**	913.0 **248**
94.6	59.2 **393**	161.2 **384**	283.2 **373**	406.2 **363**	529.9 **352**	653.0 **340**	774.3 **328**	894.0 **317**

14.5 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500	4000
.5	932 **6**	1907 **4**	2894 **2**					
1	960 **14**	1954 **12**	2950 **9**	3943 **6**	4939 **3**	5930 **2**		
2	988 **30**	2031 **27**	3065 **24**	4090 **20**	5107 **17**	6100 **14**	7068 **11**	8037 **9**
3	983 **45**	2029 **42**	3071 **39**	4101 **35**	5128 **31**	6161 **27**	7182 **23**	8184 **20**
4	978 **61**	2037 **58**	3090 **54**	4136 **49**	5176 **45**	6207 **42**	7230 **37**	8234 **33**
5	962 **77**	2030 **73**	3092 **69**	4144 **64**	5190 **60**	6231 **56**	7259 **51**	8271 **47**
7	933 **108**	2005 **104**	3078 **99**	4141 **94**	5194 **89**	6239 **84**	7275 **78**	8298 **73**
9	890 **140**	1972 **135**	3048 **129**	4112 **123**	5169 **117**	6213 **112**	7245 **106**	8271 **100**
12	832 **187**	1912 **181**	2996 **175**	4071 **167**	5125 **161**	6163 **154**	7195 **147**	8224 **140**
15	753 **235**	1832 **228**	2921 **220**	4009 **212**	5081 **204**	6137 **196**	7182 **188**	8212 **180**
20	559 **314**	1654 **306**	2744 **297**	3834 **287**	4917 **278**	5991 **268**	7045 **258**	8081 **248**
25	524 **393**	1427 **384**	2507 **373**	3595 **363**	4690 **352**	5780 **340**	6853 **328**	7913 **317**

TH SERIES

Parker Hydraulics
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0280

280 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	119.3 **5**	246.0 **4**	375.4 **2**	509.8 **1**				
3.8	122.8 **12**	251.2 **10**	381.6 **8**	514.3 **6**	647.8 **5**	783.0 **3**	919.1 **3**	1056.4 **2**
7.6	127.0 **25**	261.3 **23**	396.9 **21**	531.0 **18**	664.3 **16**	797.6 **14**	930.8 **12**	1062.0 **11**
11.4	127.0 **39**	262.5 **36**	399.0 **34**	535.5 **31**	671.1 **28**	807.0 **25**	942.9 **22**	1077.4 **19**
15.1	127.2 **52**	265.1 **49**	403.1 **47**	540.7 **43**	678.3 **40**	815.0 **37**	950.7 **33**	1084.2 **30**
18.9	126.0 **65**	265.5 **62**	404.7 **59**	544.1 **56**	682.9 **52**	819.8 **49**	955.5 **45**	1089.2 **41**
26.5	123.3 **92**	264.1 **88**	405.1 **85**	545.9 **80**	686.0 **76**	824.9 **72**	962.0 **67**	1096.6 **63**
34.1	118.2 **118**	260.9 **114**	402.7 **110**	543.5 **105**	683.6 **101**	822.5 **96**	960.2 **90**	1096.7 **85**
45.4	110.8 **159**	253.3 **154**	396.1 **148**	537.4 **143**	677.0 **137**	815.8 **132**	954.0 **125**	1090.5 **118**
56.8	101.5 **199**	244.5 **193**	388.3 **186**	531.2 **180**	672.3 **174**	812.0 **168**	950.8 **160**	1087.4 **152**
75.7	78.1 **266**	223.2 **258**	367.7 **250**	511.7 **243**	654.7 **235**	795.8 **227**	934.9 **218**	1073.2 **209**
94.6	79.4 **334**	195.0 **324**	337.5 **314**	481.3 **305**	625.9 **296**	770.0 **286**	911.9 **276**	1052.0 **267**

Flow (LPM)

TORQUE (nm) 770.0
SPEED (RPM) 286

Code 0335

335 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9	241.4	275.9
1.9	146.5 **4**	304.9 **3**	466.4 **1**	630.9 **1**				
3.8	150.2 **10**	309.7 **8**	471.8 **7**	636.1 **5**	800.4 **4**	966.1 **2**	1133.9 **2**	1298.8 **1**
7.6	154.7 **21**	320.0 **19**	486.7 **17**	653.8 **15**	820.8 **13**	985.0 **11**	1145.2 **9**	1303.1 **8**
11.4	154.3 **32**	320.6 **30**	488.8 **27**	657.2 **25**	824.9 **22**	992.1 **20**	1157.8 **17**	1320.2 **14**
15.1	154.6 **43**	322.9 **40**	492.4 **38**	662.2 **35**	831.3 **32**	999.9 **29**	1165.6 **25**	1327.3 **22**
18.9	153.1 **54**	322.9 **51**	493.5 **48**	664.3 **45**	834.5 **42**	1003.3 **38**	1169.6 **34**	1332.1 **30**
26.5	149.5 **76**	320.9 **73**	492.9 **69**	665.2 **65**	836.8 **61**	1006.4 **57**	1173.2 **53**	1336.4 **47**
34.1	143.0 **98**	315.3 **94**	488.8 **90**	661.6 **85**	833.3 **81**	1003.7 **76**	1171.8 **71**	1337.0 **64**
45.4	133.0 **131**	304.8 **127**	477.9 **121**	650.7 **116**	821.7 **110**	991.2 **105**	1159.3 **98**	1324.8 **90**
56.8	121.5 **165**	293.1 **159**	466.3 **153**	638.8 **146**	810.1 **140**	979.5 **134**	1147.1 **126**	1312.0 **116**
75.7	94.1 **221**	268.0 **214**	442.3 **205**	617.2 **197**	791.8 **189**	964.1 **182**	1132.7 **173**	1296.9 **161**
94.6	76.6 **277**	242.0 **269**	413.8 **259**	586.3 **248**	759.9 **239**	932.9 **230**	1102.3 **219**	1267.5 **209**

Flow (LPM)

17.1 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000	3500	4000
.5	1056 **5**	2177 **4**	3323 **2**	4512 **1**				
1	1087 **12**	2223 **10**	3378 **8**	4552 **6**	5734 **5**	6930 **3**	8135 **3**	9350 **2**
2	1124 **25**	2313 **23**	3513 **21**	4700 **18**	5880 **16**	7060 **14**	8239 **12**	9400 **11**
3	1124 **39**	2323 **36**	3532 **34**	4740 **31**	5940 **28**	7143 **25**	8346 **22**	9536 **19**
4	1126 **52**	2346 **49**	3568 **47**	4786 **43**	6004 **40**	7214 **37**	8415 **33**	9596 **30**
5	1115 **65**	2350 **62**	3582 **59**	4816 **56**	6044 **52**	7256 **49**	8457 **45**	9641 **41**
7	1091 **92**	2338 **88**	3586 **85**	4832 **80**	6072 **76**	7301 **72**	8515 **67**	9706 **63**
9	1046 **118**	2309 **114**	3564 **110**	4811 **105**	6051 **101**	7280 **96**	8499 **90**	9707 **85**
12	981 **159**	2242 **154**	3506 **148**	4757 **143**	5992 **137**	7221 **132**	8444 **125**	9652 **118**
15	898 **199**	2164 **193**	3437 **186**	4702 **180**	5951 **174**	7187 **168**	8416 **160**	9625 **152**
20	691 **266**	1976 **258**	3255 **250**	4529 **243**	5795 **235**	7044 **227**	8275 **218**	9499 **209**
25	703 **334**	1726 **324**	2987 **314**	4260 **305**	5540 **296**	6815 **286**	8071 **276**	9311 **267**

Flow (GPM)

TORQUE (LB IN) 9350
SPEED (RPM) 2

20.6 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000	3500	4000
.5	1297 **4**	2699 **3**	4128 **1**	5584 **1**				
1	1329 **10**	2741 **8**	4176 **7**	5630 **5**	7084 **4**	8551 **2**	10036 **2**	11496 **1**
2	1369 **21**	2832 **19**	4308 **17**	5787 **15**	7265 **13**	8718 **11**	10136 **9**	11534 **8**
3	1366 **32**	2838 **30**	4326 **27**	5817 **25**	7301 **22**	8781 **20**	10248 **17**	11685 **14**
4	1368 **43**	2858 **40**	4358 **38**	5861 **35**	7358 **32**	8850 **29**	10317 **25**	11748 **22**
5	1355 **54**	2858 **51**	4368 **48**	5880 **45**	7386 **42**	8880 **38**	10352 **34**	11791 **30**
7	1323 **76**	2840 **73**	4363 **69**	5888 **65**	7407 **61**	8908 **57**	10384 **53**	11829 **47**
9	1266 **98**	2791 **94**	4326 **90**	5856 **85**	7376 **81**	8884 **76**	10372 **71**	11834 **64**
12	1177 **131**	2698 **127**	4230 **121**	5759 **116**	7273 **110**	8773 **105**	10261 **98**	11726 **90**
15	1075 **165**	2594 **159**	4127 **153**	5654 **146**	7170 **140**	8670 **134**	10153 **126**	11613 **116**
20	833 **221**	2372 **214**	3915 **205**	5463 **197**	7008 **189**	8533 **182**	10026 **173**	11479 **161**
25	678 **277**	2142 **269**	3663 **259**	5189 **248**	6726 **239**	8257 **230**	9757 **219**	11219 **209**

Flow (GPM)

Performance data is typical. Actual data may vary slightly from one production motor to another.

TH SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0405

405 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9	172.4	206.9	241.4
1.9	174.4 **4**	359.1 **3**	546.8 **2**	736.1 **1**	924.7 **1**		
3.8	180.0 **8**	367.9 **7**	556.8 **6**	746.5 **6**	938.1 **5**	1128.3 **4**	1316.4 **3**
7.6	184.8 **17**	378.6 **16**	574.4 **15**	770.2 **14**	966.0 **13**	1160.5 **12**	1353.3 **11**
11.4	184.9 **27**	380.2 **25**	576.9 **23**	773.6 **22**	970.3 **21**	1165.3 **19**	1359.3 **18**
15.1	185.9 **36**	383.5 **34**	582.9 **32**	781.8 **30**	979.3 **29**	1175.2 **27**	1370.4 **26**
18.9	185.3 **45**	385.0 **43**	587.6 **41**	788.9 **39**	986.7 **37**	1182.4 **35**	1377.7 **33**
26.5	181.4 **64**	383.7 **61**	588.7 **59**	791.2 **56**	991.1 **54**	1189.3 **51**	1386.4 **49**
34.1	175.2 **82**	378.5 **80**	584.8 **77**	788.7 **73**	990.0 **70**	1188.4 **67**	1386.2 **64**
45.4	161.3 **110**	365.8 **107**	573.4 **103**	778.2 **99**	979.5 **95**	1177.7 **91**	1375.2 **88**
56.8	148.0 **138**	351.6 **135**	559.0 **130**	763.6 **125**	965.4 **120**	1164.4 **115**	1362.5 **111**
75.7	128.3 **185**	323.3 **181**	530.1 **175**	736.4 **168**	941.8 **162**	1143.6 **156**	1341.9 **151**
94.6			507.5 **219**	712.1 **212**	913.3 **204**	1112.6 **197**	1308.9 **190**

TORQUE (nm) 712.1
SPEED (RPM) 212

24.7 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000	2500	3000	3500
.5	1544 **4**	3178 **3**	4840 **2**	6515 **1**	8185 **1**		
1	1593 **8**	3256 **7**	4928 **6**	6607 **6**	8303 **5**	9987 **4**	11652 **3**
2	1636 **17**	3351 **16**	5084 **15**	6817 **14**	8550 **13**	10272 **12**	11978 **11**
3	1637 **27**	3365 **25**	5106 **23**	6847 **22**	8588 **21**	10314 **19**	12031 **18**
4	1645 **36**	3394 **34**	5159 **32**	6920 **30**	8668 **29**	10402 **27**	12130 **26**
5	1640 **45**	3408 **43**	5201 **41**	6983 **39**	8733 **37**	10466 **35**	12194 **33**
7	1606 **64**	3396 **61**	5211 **59**	7003 **56**	8772 **54**	10527 **51**	12271 **49**
9	1551 **82**	3350 **80**	5176 **77**	6981 **73**	8763 **70**	10519 **67**	12269 **64**
12	1428 **110**	3238 **107**	5075 **103**	6888 **99**	8670 **95**	10424 **91**	12172 **88**
15	1310 **138**	3112 **135**	4948 **130**	6759 **125**	8545 **120**	10306 **115**	12060 **111**
20	1136 **185**	2862 **181**	4692 **175**	6518 **168**	8336 **162**	10122 **156**	11877 **151**
25			4492 **219**	6303 **212**	8084 **204**	9848 **197**	11585 **190**

TORQUE (LB IN) 9848
SPEED (RPM) 197

TH SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

Code 0475

475 cc / rev

PRESSURE (BAR)

	34.5	69.0	103.4	137.9	172.4	206.9
1.9	199.7 **3**	421.6 **3**	647.7 **2**	874.9 **1**	1102.9 **1**	
3.8	211.0 **7**	438.1 **7**	664.2 **6**	887.0 **5**	1111.5 **4**	1336.6 **3**
7.6	221.9 **15**	458.1 **14**	698.2 **14**	930.6 **12**	1157.0 **10**	1371.1 **8**
11.4	222.8 **23**	460.3 **22**	701.4 **21**	940.1 **19**	1172.6 **17**	1395.9 **13**
15.1	226.5 **31**	467.2 **30**	710.3 **29**	947.0 **27**	1182.1 **24**	1411.8 **20**
18.9	226.4 **39**	466.5 **38**	712.2 **37**	952.2 **34**	1187.9 **31**	1417.2 **26**
26.5	224.8 **55**	466.9 **54**	712.7 **52**	954.1 **50**	1192.5 **45**	1423.8 **40**
34.1	217.4 **70**	463.7 **69**	710.1 **68**	952.4 **65**	1189.5 **60**	1424.5 **54**
45.4	200.5 **94**	449.0 **93**	695.6 **91**	940.9 **87**	1180.2 **82**	1415.4 **75**
56.8	182.9 **118**	427.5 **116**	676.8 **114**	925.1 **110**	1164.9 **104**	1397.8 **96**
75.7	148.5 **157**	381.1 **156**	636.0 **153**	887.2 **149**	1134.1 **141**	1372.1 **132**
94.6	128.9 **197**	342.2 **196**	589.8 **193**	839.1 **189**	1087.9 **182**	1328.3 **174**
113.6	68.5 **237**	283.0 **236**	525.2 **233**	764.4 **230**	1003.0 **224**	1241.5 **219**

Flow (LPM)

TORQUE (nm) 283.0
SPEED (RPM) 236

29.1 cu in / rev

PRESSURE (PSI)

	500	1000	1500	2000	2500	3000
.5	1768 **3**	3732 **3**	5733 **2**	7744 **1**	9762 **1**	
1	1868 **7**	3878 **7**	5879 **6**	7851 **5**	9838 **4**	11830 **3**
2	1964 **15**	4055 **14**	6180 **14**	8237 **12**	10241 **10**	12136 **8**
3	1972 **23**	4074 **22**	6208 **21**	8321 **19**	10379 **17**	12355 **13**
4	2005 **31**	4135 **30**	6287 **29**	8382 **27**	10463 **24**	12496 **20**
5	2004 **39**	4129 **38**	6304 **37**	8428 **34**	10514 **31**	12544 **26**
7	1990 **55**	4133 **54**	6308 **52**	8445 **50**	10555 **45**	12602 **40**
9	1924 **70**	4104 **69**	6285 **68**	8430 **65**	10528 **60**	12608 **54**
12	1775 **94**	3974 **93**	6157 **91**	8328 **87**	10446 **82**	12528 **75**
15	1619 **118**	3784 **116**	5990 **114**	8188 **110**	10311 **104**	12372 **96**
20	1314 **157**	3373 **156**	5629 **153**	7853 **149**	10038 **141**	12145 **132**
25	1141 **197**	3029 **196**	5220 **193**	7427 **189**	9629 **182**	11757 **174**
30	606 **237**	2505 **236**	4649 **233**	6766 **230**	8878 **224**	10989 **219**

Flow (GPM)

TORQUE (LB IN) 6766
SPEED (RPM) 230

TH SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0530

530 cc / rev

Flow (LPM) \ PRESSURE (BAR)	34.5	69.0	103.4	137.9	172.4
1.9	235.0 **3**	480.8 **3**	732.0 **2**	985.9 **2**	1244.1 **1**
3.8	243.8 **7**	493.9 **6**	744.8 **6**	991.9 **5**	1242.1 **4**
7.6	253.8 **14**	516.0 **13**	776.1 **12**	1031.1 **11**	1285.3 **9**
11.4	253.3 **21**	517.2 **20**	781.4 **19**	1043.6 **17**	1299.3 **14**
15.1	254.5 **28**	522.5 **27**	788.3 **25**	1050.3 **23**	1309.0 **20**
18.9	252.5 **35**	523.0 **34**	791.1 **32**	1054.4 **29**	1313.5 **26**
26.5	246.5 **49**	519.6 **48**	791.5 **46**	1057.7 **42**	1317.2 **38**
34.1	236.7 **63**	512.4 **62**	786.3 **59**	1054.1 **55**	1316.2 **50**
45.4	219.5 **85**	496.0 **83**	771.1 **80**	1041.3 **75**	1304.8 **69**
56.8	198.1 **106**	474.4 **104**	750.0 **100**	1022.7 **95**	1288.9 **87**
75.7	149.9 **141**	427.4 **139**	707.5 **135**	983.0 **129**	1252.5 **120**
94.6	114.2 **177**	372.8 **175**	649.7 **171**	927.6 **165**	1202.0 **158**
113.6	30.4 **213**	304.8 **211**	574.3 **208**	837.7 **203**	1108.8 **197**

TORQUE (nm) 304.8
SPEED (RPM) 211

32.2 cu in / rev

Flow (GPM) \ PRESSURE (PSI)	500	1000	1500	2000	2500
.5	2080 **3**	4256 **3**	6479 **2**	8726 **2**	11012 **1**
1	2158 **7**	4372 **6**	6592 **6**	8779 **5**	10994 **4**
2	2246 **14**	4567 **13**	6869 **12**	9126 **11**	11376 **9**
3	2242 **21**	4578 **20**	6916 **19**	9237 **17**	11500 **14**
4	2253 **28**	4625 **27**	6977 **25**	9296 **23**	11586 **20**
5	2235 **35**	4629 **34**	7002 **32**	9333 **29**	11626 **26**
7	2182 **49**	4599 **48**	7006 **46**	9362 **42**	11659 **38**
9	2095 **63**	4535 **62**	6960 **59**	9330 **55**	11650 **50**
12	1943 **85**	4390 **83**	6825 **80**	9217 **75**	11549 **69**
15	1753 **106**	4199 **104**	6638 **100**	9052 **95**	11408 **87**
20	1327 **141**	3783 **139**	6262 **135**	8701 **129**	11086 **120**
25	1011 **177**	3300 **175**	5751 **171**	8210 **165**	10639 **158**
30	269 **213**	2698 **211**	5083 **208**	7415 **203**	9814 **197**

TORQUE (LB IN) 9814
SPEED (RPM) 197

THSERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0625

625 cc / rev

	PRESSURE (BAR)				
	34.5	69.0	103.4	120.7	155.2
1.9	219.1 **2**	518.9 **1**			
3.8	235.8 **5**	527.1 **3**	822.8 **2**	980.7 **2**	1308.2 **1**
7.6	264.1 **11**	563.9 **9**	857.5 **8**	1000.2 **7**	1294.5 **5**
11.4	269.6 **17**	576.3 **15**	875.9 **13**	1023.0 **12**	1320.6 **9**
15.1	277.6 **23**	587.7 **21**	889.4 **19**	1036.5 **17**	1329.7 **14**
18.9	280.1 **29**	592.7 **27**	897.4 **25**	1044.2 **23**	1335.5 **18**
26.5	278.4 **41**	595.7 **39**	903.3 **36**	1051.4 **34**	1339.8 **28**
34.1	271.3 **53**	590.1 **51**	903.0 **48**	1054.9 **45**	1348.4 **39**
45.4	254.7 **71**	575.3 **69**	891.0 **65**	1043.8 **62**	1344.5 **54**
56.8	231.8 **89**	553.7 **87**	872.3 **83**	1026.5 **80**	1329.0 **70**
75.7	180.8 **120**	507.3 **117**	828.6 **112**	985.8 **109**	1290.7 **98**
94.6	120.1 **151**	444.4 **148**	770.3 **144**	930.4 **140**	1245.2 **131**
113.6	40.6 **182**	367.2 **180**	686.2 **176**	840.9 **172**	1150.0 **165**

Flow (LPM)

TORQUE (nm) 367.2
SPEED (RPM) 180

38.0 cu in / rev

	PRESSURE (PSI)				
	500	1000	1500	1750	2250
.5	1939 **2**	4593 **1**			
1	2087 **5**	4665 **3**	7283 **2**	8680 **2**	11579 **1**
2	2338 **11**	4991 **9**	7590 **8**	8853 **7**	11458 **5**
3	2386 **17**	5101 **15**	7753 **13**	9055 **12**	11689 **9**
4	2457 **23**	5202 **21**	7872 **19**	9174 **17**	11769 **14**
5	2479 **29**	5246 **27**	7943 **25**	9242 **23**	11821 **18**
7	2464 **41**	5273 **39**	7995 **36**	9306 **34**	11859 **28**
9	2401 **53**	5223 **51**	7993 **48**	9337 **45**	11935 **39**
12	2254 **71**	5092 **69**	7886 **65**	9239 **62**	11900 **54**
15	2052 **89**	4901 **87**	7721 **83**	9086 **80**	11763 **70**
20	1600 **120**	4490 **117**	7334 **112**	8725 **109**	11424 **98**
25	1063 **151**	3933 **148**	6818 **144**	8235 **140**	11021 **131**
30	359 **182**	3250 **180**	6074 **176**	7443 **172**	10179 **165**

Flow (GPM)

TORQUE (LB IN) 7443
SPEED (RPM) 172

TH SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0785

785 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4	137.9
1.9	328.8 **2**	695.2 **2**	1085.4 **1**	1463.1 **1**
3.8	340.2 **4**	711.3 **4**	1092.5 **3**	1459.6 **3**
7.6	363.5 **9**	738.4 **8**	1122.5 **7**	1475.5 **6**
11.4	363.8 **14**	747.1 **13**	1127.2 **11**	1477.7 **9**
15.1	368.9 **19**	754.6 **17**	1132.2 **15**	1477.6 **13**
18.9	368.7 **23**	757.3 **22**	1135.1 **19**	1480.4 **16**
26.5	363.6 **33**	759.5 **31**	1137.5 **28**	1475.7 **24**
34.1	351.0 **43**	752.9 **41**	1142.0 **36**	1489.6 **31**
45.4	326.7 **57**	733.1 **55**	1125.2 **49**	1478.0 **42**
56.8	298.6 **71**	704.8 **69**	1099.6 **62**	1461.7 **54**
75.7	230.9 **95**	640.9 **92**	1043.8 **85**	1427.6 **75**
94.6	261.3 **119**	562.2 **117**	968.4 **110**	1364.0 **101**
113.6	56.0 **143**	463.7 **141**	856.6 **137**	1245.5 **130**

TORQUE (nm) 856.6
SPEED (RPM) 137

48.0 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500	2000
.5	2910 **2**	6153 **2**	9607 **1**	12950 **1**
1	3011 **4**	6296 **4**	9670 **3**	12919 **3**
2	3217 **9**	6536 **8**	9935 **7**	13060 **6**
3	3220 **14**	6613 **13**	9977 **11**	13079 **9**
4	3265 **19**	6679 **17**	10021 **15**	13078 **13**
5	3263 **23**	6703 **22**	10047 **19**	13103 **16**
7	3218 **33**	6722 **31**	10068 **28**	13062 **24**
9	3107 **43**	6664 **41**	10108 **36**	13185 **31**
12	2892 **57**	6489 **55**	9959 **49**	13082 **42**
15	2643 **71**	6238 **69**	9733 **62**	12938 **54**
20	2044 **95**	5673 **92**	9239 **85**	12636 **75**
25	2313 **119**	4976 **117**	8571 **110**	12073 **101**
30	496 **143**	4104 **141**	7582 **137**	11024 **130**

TORQUE (LB IN) 11024
SPEED (RPM) 130

TH SERIES

Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Code 0960

960 cc / rev

PRESSURE (BAR)

Flow (LPM)	34.5	69.0	103.4
1.9	417.1 **2**	871.3 **1**	1327.5 **1**
3.8	428.0 **3**	887.8 **3**	1343.9 **3**
7.6	440.6 **7**	908.9 **7**	1362.3 **6**
11.4	441.2 **11**	912.7 **11**	1371.0 **10**
15.1	445.0 **15**	921.4 **14**	1379.5 **13**
18.9	443.2 **19**	923.4 **18**	1382.6 **17**
26.5	436.1 **27**	921.9 **26**	1385.4 **24**
34.1	421.8 **35**	912.2 **34**	1381.1 **31**
45.4	392.6 **47**	886.7 **45**	1362.8 **42**
56.8	355.8 **58**	852.4 **57**	1335.8 **53**
75.7	275.3 **78**	773.1 **76**	1268.4 **72**
94.6	335.4 **98**	676.8 **96**	1170.5 **92**
113.6	68.1 **118**	555.7 **117**	1036.0 **113**

TORQUE (nm) 555.7
SPEED (RPM) 117

58.5 cu in / rev

PRESSURE (PSI)

Flow (GPM)	500	1000	1500
.5	3692 **2**	7712 **1**	11750 **1**
1	3788 **3**	7858 **3**	11895 **3**
2	3900 **7**	8045 **7**	12058 **6**
3	3905 **11**	8078 **11**	12135 **10**
4	3939 **15**	8155 **14**	12210 **13**
5	3923 **19**	8173 **18**	12238 **17**
7	3860 **27**	8160 **26**	12262 **24**
9	3733 **35**	8074 **34**	12224 **31**
12	3475 **47**	7848 **45**	12062 **42**
15	3149 **58**	7545 **57**	11823 **53**
20	2437 **78**	6843 **76**	11227 **72**
25	2969 **98**	5990 **96**	10360 **92**
30	603 **118**	4919 **117**	9170 **113**

TORQUE (LB IN) 9170
SPEED (RPM) 113

TH SERIES

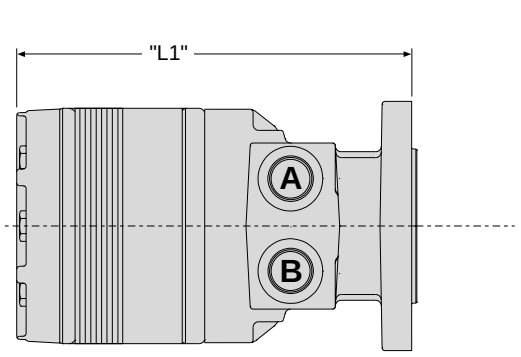
Performance data is typical. Actual data may vary slightly from one production motor to another.

PSLGC.PM6, dg, ki

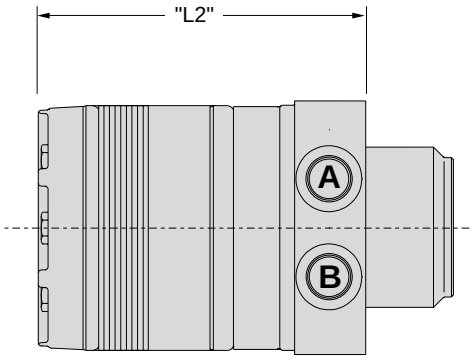
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Lengths & Weights

Inch equivalents for metric dimensions are shown in (**)



Magneto Mount



Wheel Mount

Standard Rotation:
(As viewed from shaft end)
Front Ports - Pressurize "A" to turn **Counterclockwise**, "B" to turn **Clockwise.**
Rear Ports - Pressurize "A" to turn **Clockwise**, "B" to turn **Counterclockwise.**

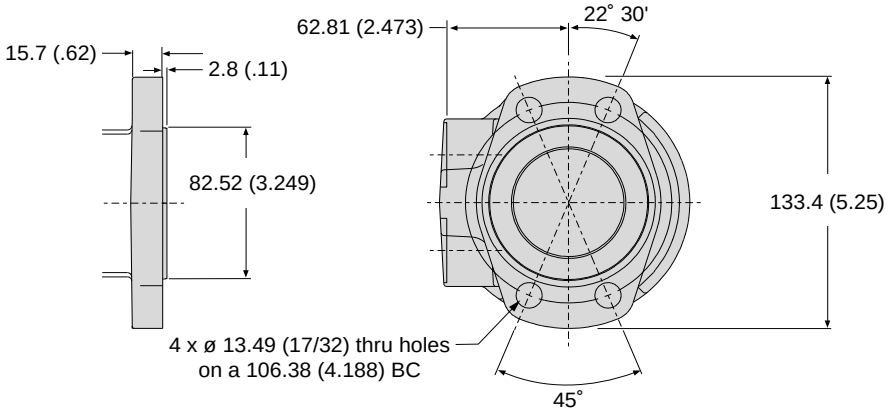
Length "L" and Weight

Displacement, Code	0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Magneto Mount												
Length "L1" mm	216	219	222	227	232	238	245	254	260	270	289	308
Length "L1" (inches)	(8.50)	(8.62)	(8.75)	(8.94)	(9.12)	(9.37)	(9.66)	(10.00)	(10.25)	(10.62)	(11.37)	(12.12)
Weight kg	14.7	14.9	15.2	15.5	15.9	16.3	16.9	17.6	18.3	19.0	20.6	22.3
Weight (lb)	(32.3)	(32.8)	(33.4)	(34.2)	(35.1)	(35.9)	(37.3)	(38.7)	(40.4)	(41.9)	(45.4)	(49.1)
Wheel Mount												
Length "L1" mm	173	177	180	184	189	196	203	212	218	227	246	265
Length "L1" (inches)	(6.82)	(6.95)	(7.07)	(7.26)	(7.45)	(7.70)	(7.99)	(8.32)	(8.57)	(8.95)	(9.70)	(10.45)
Weight kg	16.9	17.2	17.4	17.8	18.2	18.6	19.2	19.8	20.6	21.3	22.9	24.5
Weight (lb)	(37.3)	(37.8)	(38.4)	(39.2)	(40.1)	(40.9)	(42.3)	(43.7)	(45.4)	(46.9)	(50.4)	(54.1)

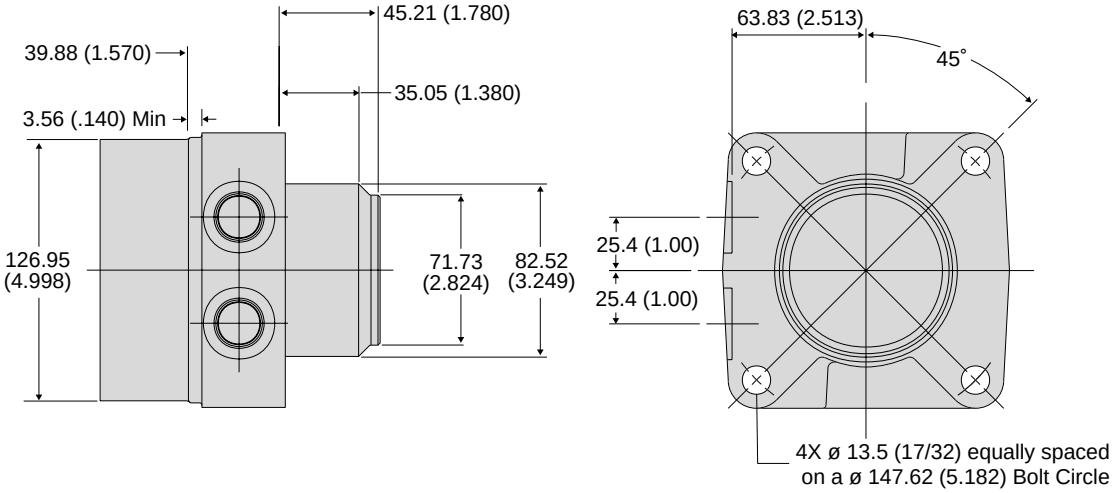
Mounting

Inch equivalents for metric dimensions are shown in (**)

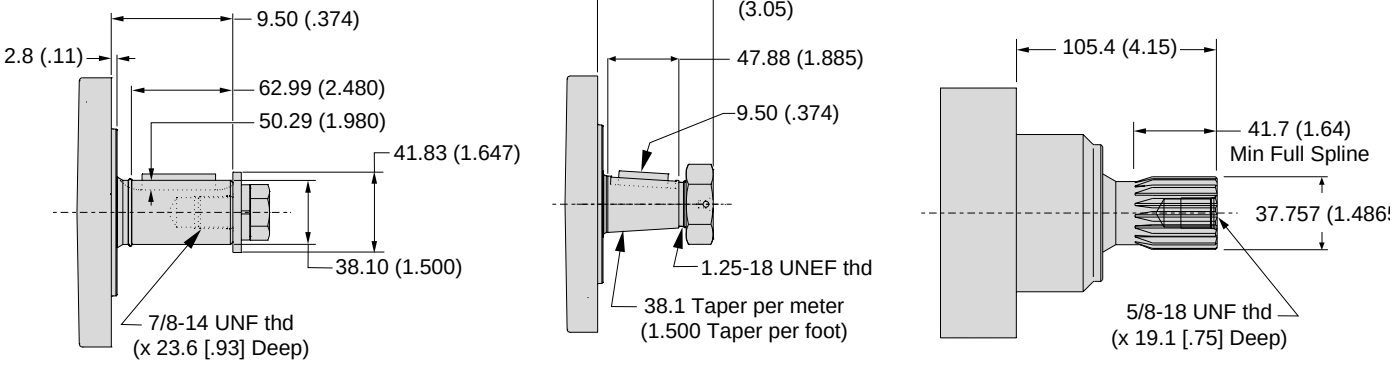
4 Bolt Magneto



Wheel



Shafts



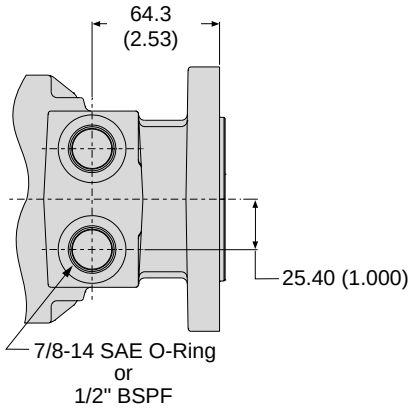
1 1/2" Keyed **1 1/2" Taper** **17T-12/24 Spline**

TH SERIES

Porting

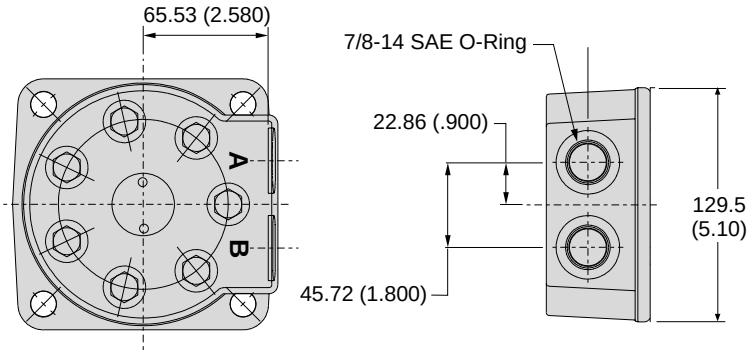
Inch equivalents for metric dimensions are shown in (**)

SAE O-Ring

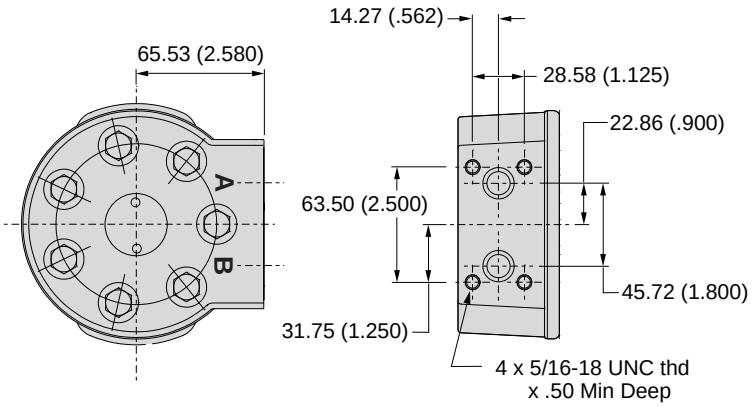


Rear Ports

7/8-14 SAE O-Ring



Manifold



Consult Factory for
ISO 6149 Porting

TH SERIES

TH	XXXX	X	X	XX	X	XXXX
Series	Displacement	Mounting	Porting	Shaft	Rotation	Options

Code	Displacement
0140	08.6 cu in/rev
0170	10.3 cu in/rev
0195	11.9 cu in/rev
0240	14.5 cu in/rev
0280	17.1 cu in/rev
0335	20.6 cu in/rev
0405	24.7 cu in/rev
0475	29.1 cu in/rev
0530	32.3 cu in/rev
0625	38.0 cu in/rev
0785	48.0 cu in/rev
0960	58.5 cu in/rev

Code	Porting
A	7/8"-14 SAE O-Ring; Rear Axial
B	7/8"-14 SAE O-Ring; Rear Radial
E	Manifold; Rear Radial
J	ISO 6149 M22x1.5
M*	Manifold
S	7/8"-14 SAE O-Ring
T**	1/2" BSPF

* Not available on U mounting

** Available on M mounting only

Code	Rotation
0	Standard
1	Reverse Timed Manifold

Code	Mounting
M	Magneto
U	Wheel; Standard

Code	Shaft
31	1 1/2" Tapered
32	1 1/2" Keyed
36	17 Tooth Spline

Code	Options
AAAA	Black Paint
AAAB	No Paint
AAAC	Double Paint
AAFC	White Epoxy Paint
AAAF***	Castle Nut, Black Paint
AABP***	Castle Nut, No Paint
AAAG	Viton Seals, Black Paint
AAAH	Viton Seals, No Paint
AAHD	Viton Seals, White Epoxy Paint
AAAJ	Vespel Commutator Seal, Black Paint
AAFG	Vespel Commutator Seal, No Paint
AAAT*	Bidirectional Shuttle (11:00**), Black Paint
AAFX*	Bidirectional Shuttle (11:00**), No Paint
AAAU*	Bidirectional Shuttle (11:00**), Castle Nut, Black Paint
AAGF*	Bidirectional Shuttle (11:00**), Castle Nut, No Paint
AABJ****	Free Running Rotorset, Black Paint
AABK****	Free Running Rotorset, No Paint
AABL****	Free Running Rotorset, No Commutator Seal, Black Paint
AABM****	Free Running Rotorset, No Commutator Seal, No Paint
BBBA*	1000 PSI Internal Bidirectional Relief, Black Paint
BBBM*	1000 PSI Internal Bidirectional Relief, No Paint
BBBG*	1500 PSI Internal Bidirectional Relief, Black Paint
BBBJ*	1500 PSI Internal Bidirectional Relief, No Paint
BBBB*	2000 PSI Internal Bidirectional Relief, Black Paint
BBBN*	2000 PSI Internal Bidirectional Relief, No Paint
BBBK*	2000 PSI Internal Bidirectional Relief, Castle Nut, Black Paint
BBBC*	3000 PSI Internal Bidirectional Relief, Black Paint
BBBF*	3000 PSI Internal Bidirectional Relief, No Paint
BBBD*	4000 PSI Internal Bidirectional Relief, Black Paint
BBBW*	4000 PSI Internal Bidirectional Relief, No Paint
FFAA	Internal Speed Sensor, Black Paint
FFAB	Internal Speed Sensor, No Paint
FFAH	Internal Speed Sensor, Castle Nut, No Paint
FFAJ	Internal Speed Sensor, Castle Nut, Black Paint

* Not available with A, B or E porting

** Shuttle port position as viewed from shaft end of motor

*** Available only with shaft code 08 & 19

**** Not available on 0625, 0785 or 0960 displacement codes

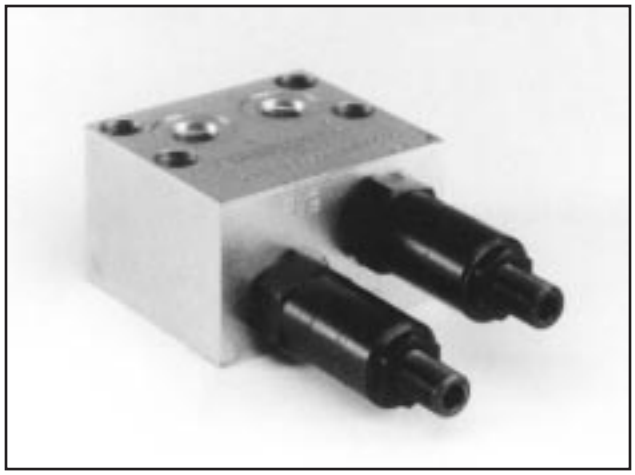
TH SERIES

PSLGC.PM6, dg, ki

Parker Hydraulics

Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

The Cross-Over Relief Valve is designed to provide overload and shock protection for our LSHT motors built with the manifold port option. Close coupling the valve to the motor provides ideal protection and eliminates plumbing.



Specifications

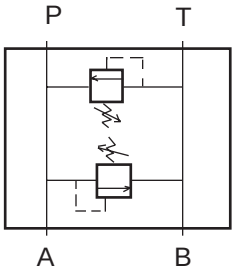
- **Rated flow** — 75.7 lpm (20 gpm)
- **Max. Operating Pressure —** 241.4 bar (3500 psi)
- **Reseat Pressure** — 90% of set pressure
- **Operating Temperature Range:** -40°C to 121°C (-40°F to 250°F)
- **Cartridge Material** — All parts steel. All operating parts hardened steel.
- **Body Material** — Steel
- **Filtration** — Maintain SAE Class 4
- **Mounting** — TA, TB & TD Series only. See dimensions for mounting pattern.
- **Mounting Bolts Torque —** 33.9 ± 2.7 nm (25 ± 2 ft lb)

Features

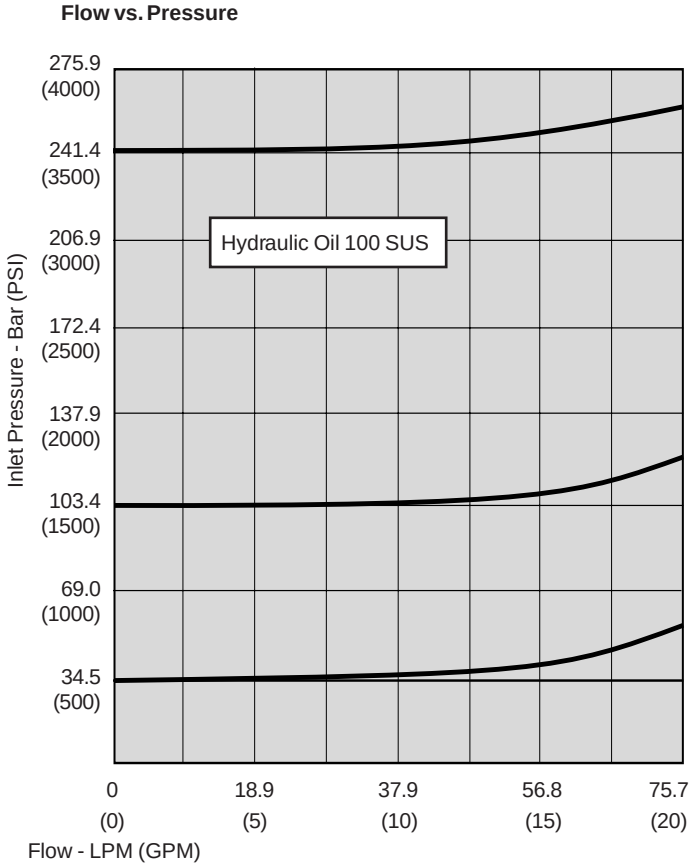
- Fast acting differential area reliefs
- Low leakage
- Serviceable cartridge design
- Hardened operating parts for long life

Operation

The valve relieves oil from one side of the motor to the other reducing shock and preventing overload. It also reduces the possibility of cavitation.



Performance Curve

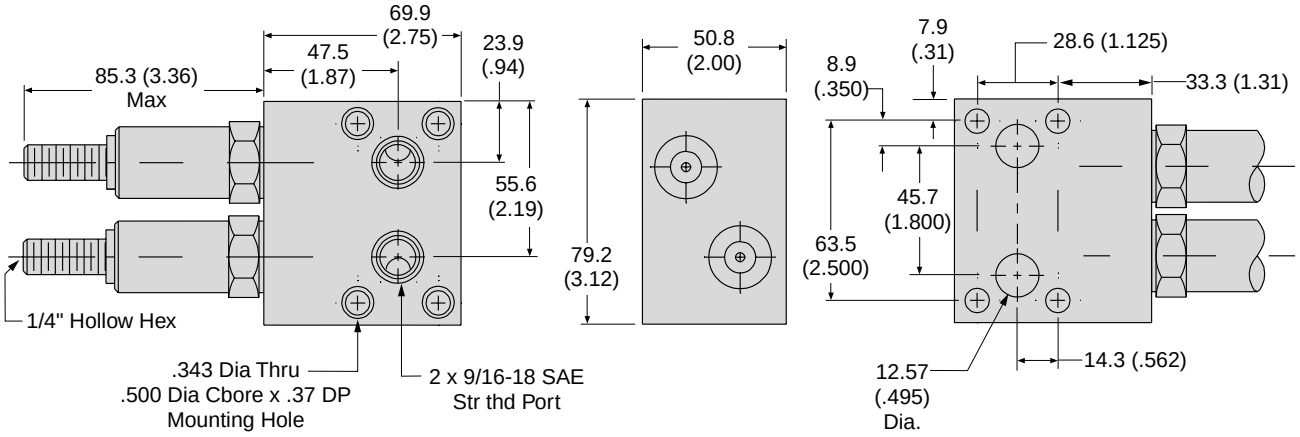


PSLGC.PM6, dg, ki

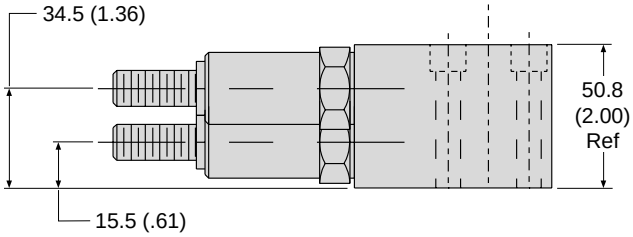
Parker Hannifin Corporation
Hydraulic Pump/Motor Division
Greeneville, TN 37744 USA

Dimensions

Inch equivalents for metric dimensions are shown in (**)

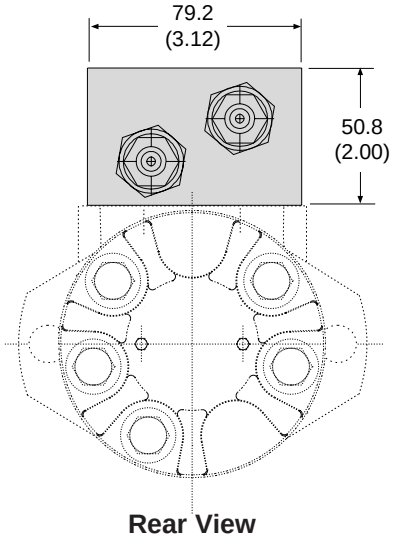


Top View **Rear View** **Bottom View**

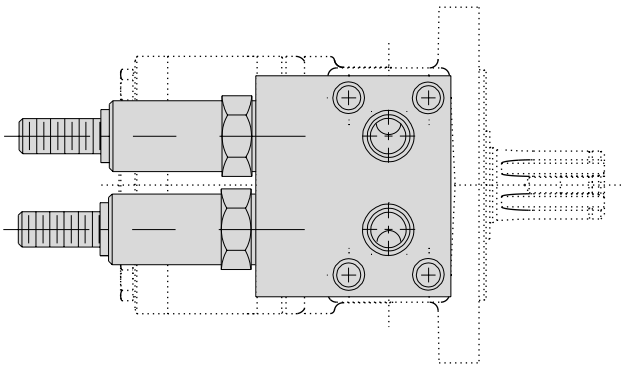


Side View

Valve Mounted on Motor



Rear View



Top View

Ordering Information

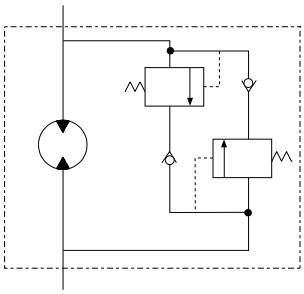
To order a cross-over relief valve mounted on a specific motor see the ordering information for that motor.

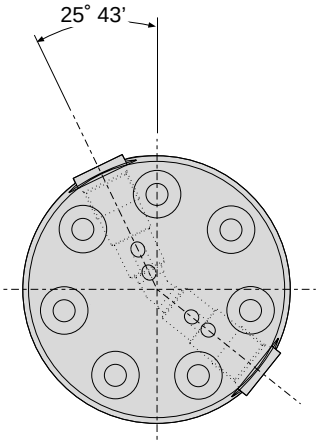
To order a cross-over relief valve as a field conversion or as a spare part use P/N 1894-1 (manifold mount required on motor).

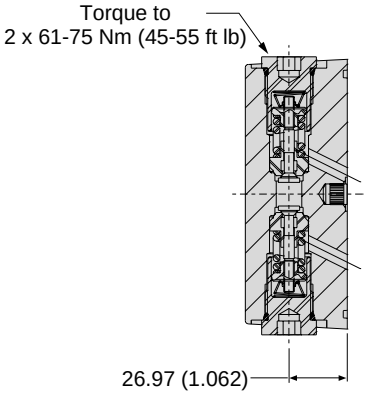
Mounting bolts are available as P/N 021450 (4 required).

Cross Port Relief

Fixed setting crossover relief valves may be ordered to protect the motor from hydraulic overpressurization. These valves are built into the endcover and relieve pressure from the high pressure to the low pressure port. This accessory adds 27.7 mm (1.09 in.) to the "L" dimension.



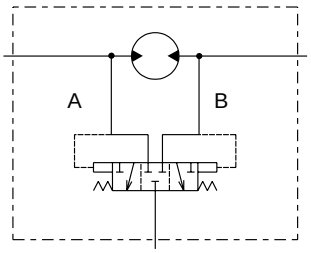


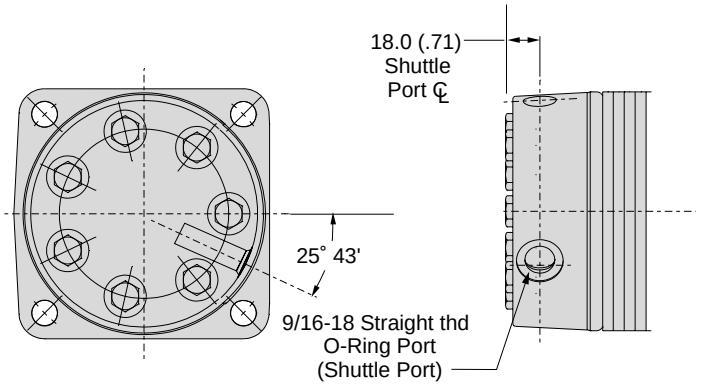


Hot Oil Shuttle

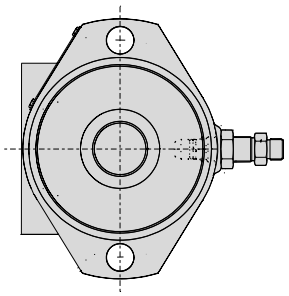
A Hot Oil Shuttle is used to continuously remove a portion of the fluid in a closed loop transmission or other closed loop system. At 125 PSI pressure differential between the motor return port and the shuttle outlet, 1.5 GPM* will exit the circuit to cool, filter and return to the reservoir. The constant loop replenishment helps to keep heat and contamination from building up in the circuit.

*with 200 SSU fluid





An Economical Sensor for Speed Readout

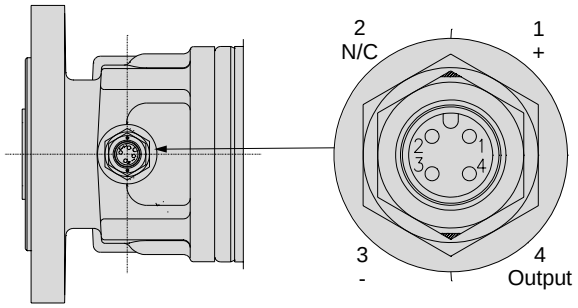


This rugged, weather resistant speed sensor is a Hall effect device. When externally powered, 30 square wave digital pulses per output shaft revolution are produced. By signal multiplication, 60 pulses per revolution can be obtained.

The installation of this economical sensor does not affect the torque or side load capability of the **Torqlink™** motor into which it is installed.

Features

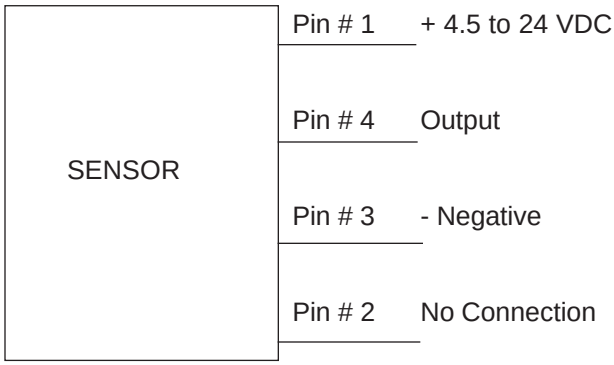
- Operating Voltage Range ..... 4.5 to 24 VDC
- Operating Temperature ..... -40° C to 93° C (-40° F to 200° F)
- Operating Frequency Range ..... 0 to 100 KHZ
- Maximum Sink Current ..... 20 mA
- Connection ..... DC Din Standard 4 Pin Micro-Mini
- Pin Diameter 12mm
- Sensor Output ..... 30 Pulses per revolution which can be doubled electronically.



Pull-up Resistor Value Formula
(for 1/4 Watt, 5% Tolerance)

$$\frac{\text{V Supply (4.5-24 VDC)}}{\text{Desired Sink Current (0-20 mA ±20%)}} = \text{Resistor Value (K - Ohms)}$$

On State Current: 5 mA
Higher wattage resistor will be needed for higher sink current.



Cable not included

Fluid

To insure maximum motor performance and life, use premium grade hydraulic oils. Fluids with a minimum of .125% zinc anti-wear additives should be used. API 10W40 SF or CD motor oils are recommended. Seals in **Torqlink™** Series motors are Buna-N, compatible with most mineral based and engine oils. If using synthetic fluids consult the factory for alternative seal materials.

- Minimum fluid viscosity is 50 SSU
- Fluid operating temperature is -28° C to 93° C (-20°F to 200° F)
- Filtration level is 20-50 micron nominal

Pressure

Operating the motor in its intermittent pressure range will shorten the life of the motor and should generally be restricted to 10% or less per minute. The reduced life resulting from continuous operation in the intermittent range may be acceptable in some applications. Consult the factory for details.

Shaft Loading

Use of one inch and 25mm shafts are not recommended when torque loads exceed 3500 lb. in. For the Corrosion Resistant Shaft "N" option limit torque to 1300 lb. in. For 7/8 inch splined shafts limit torque to 1250 lb. in. Maximum thrust load on the shaft should not exceed 1000 pounds inward of outward.

Performance Data

Performance data shown in this catalog is the result of testing performed using 10W40 oil at 54° C (130° F), 200 SUS. Actual performance will vary with fluid conditions. Lower viscosity will produce lower performance.

Inlet Conditions

Positive pressure *must* be available at the motor inlet while it is rotating. If an overrunning load causes the motor to rotate faster than the pump can fill it, cavitation will occur. Consult the factory for inlet pressure requirements and speed limitations.

Other Operating Conditions

Consult factory before operating at conditions exceeding any ratings or recommendations in this catalog.

Installation Recommendations

- To avoid contamination do not remove plastic port plugs until fittings are to be installed.
- Use SAE Grade 8 bolts and nuts. Torque on non-plated, lightly oiled mounting hardware should be 105 lb ft.
- Motor mounting flange must make full contact with equipment mount; do not use the mounting bolts to force the motor pilot into the pilot hole to align the motor.
- Pulleys, sprockets, wheels, or couplings should be properly aligned on the shaft to avoid excessive radial or thrust loads.
- To avoid damaging the thrust system, do not hammer on the motor or shaft to install or remove couplings, pulleys, sprockets, etc.

Castle Nut

All motors ordered with Tapered shafts are equipped with patch locking nuts. If desired, a castle nut may be specified.

Paint

Unless specified otherwise, motors are shipped unpainted and coated with a rust inhibitor. Paint options are:

- Single coat of black paint
- Double coat of black paint for increased corrosion resistance
- Multi-layered coating of white FDA approved epoxy for superior corrosion resistance

Vespel™ Commutator Seal

Under conditions of high temperature or low lubricity, it is possible for the standard commutator seal to extrude. A Vespel seal should be specified.

Reverse Timed Manifold

All **Torqlink™** Series motors are bi-directional. The port that must be pressurized to obtain a desired direction of rotation is shown on the catalog page for that motor. To change that port specify a Reverse Timed Manifold.

Hydraulic Formulas

$$HP_{in} = \frac{QP}{1714}$$

$$HP_{out} = \frac{NT}{63025}$$

$$T = \frac{D \Delta Pe_m}{2 \pi}$$

$$Q = \frac{DN}{231\ e_v}$$

Where

- HP = Horsepower
- Q = Flow, GPM
- P = Pressure, PSI
- ΔP = Pressure differential across the motor
- T = Torque, lb in
- D = Motor displacement, cubic inches per revolution
- N = Shaft Speed, RPM
- e_m = Mechanical efficiency
- e_v = Volumetric efficiency

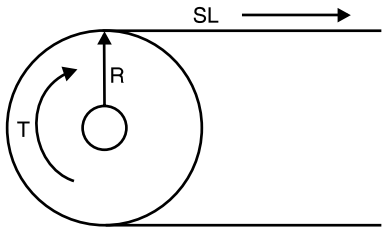
To Convert → Into → Multiply By Into ← To Convert ← Divide By		
bars	pounds/sq.in.	14.5
BTU/min	horsepower	.02356
BTU/min	kilowatts	.01757
centigrade	fahrenheit	(C°x9/5)+32
centimeters	inches	.3937
cu. cms.	cu. inches	.06102
cu. cms.	liters	.001
cu. inches	cu.cms.	16.39
cu. inches	liters	.01639
feet	meters	.3048
gallons	cu. inches	231
gallons	liters	3.785
horsepower	kilowatts	.7457
inches	millimeters	25.4
kilograms	pounds	2.205
pounds	newtons	4.448
pound-inches	newton-meters	.113
pound-inches	daNM	.0113
radians	degrees	57.3
square inches	sq. cms.	6.452

Side Load

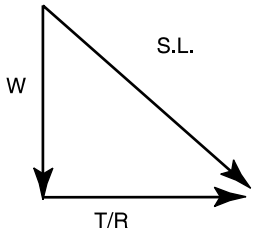
Side loads are imposed upon the shaft of a motor by:

- Driving the load through a pulley or gear
- Supporting the weight of a vehicle or other load on the shaft

Or both



If the load above requires torque T pound-inches and is driven with a pulley on the motor shaft a with a radius of R inches, the side load imposed on the motor shaft is T/R pounds. If the motor shaft is connected to a sprocket for a chain drive, R is one half the pitch diameter of the sprocket. If an external load with a weight of W pounds is also being supported by the motor shaft above, the total side load on the shaft is:



$$(SL)^2 = W^2 + (T/R)^2$$

$$\text{Side Load(lb)} = \sqrt{W^2 + (T/R)^2}$$

Warning

This Catalog is not a Controlled Document. All Dimensions listed herein are for reference only. Consult a Sales engineer for detailed information.

Vehicle Propulsion Systems

Hydraulic motors are often used to drive off-highway vehicles, either directly or through gear reducers. The power required to propel the vehicle, called "Tractive Effort," is supplied by the hydraulic motor(s). It is normally expressed in pounds and is the sum of the forces below:

TE = (RR+GR+F+DP) x 1.1 Where:

RR = Rolling Resistance
GR = Grade Resistance
F = Acceleration Force
DP = Drawbar Pull

Definitions

• Tractive Effort (TE)

Tractive effort is the total linear force that a vehicle can exert on the ground. Sometimes called "rim pull," it is the axle torque divided by the distance from the axle to the surface it is traversing.

• Rolling Resistance (RR)

Rolling resistance is the force in pounds required to propel a vehicle at constant speed over level terrain. It varies with the weight of the vehicle and the type of surface it is traversing. Soft sand, for example, offers more resistance to movement than concrete

RR = GVW x R where:

RR = Rolling Resistance (lbs.)
GVW = Gross Vehicle Weight (lbs.)
R = Rolling Resistance Factor dependent upon type and condition of surface. Typical "R" values are shown in the accompanying table.

Surface Type	Surface Condition	R Value
Concrete	Excellent	0.010 lb.
Concrete	Good	0.015 lb.
Concrete	Poor	0.020 lb.
Asphalt	Good	0.012 lb.
Asphalt	Fair	0.017 lb.
Asphalt	Poor	0.022 lb.
Macadam	Good	0.015 lb.
Macadam	Fair	0.022 lb.
Macadam	Poor	0.037 lb.
Cobbles	Ordinary	0.055 lb.
Cobbles	Poor	0.085 lb.
Snow	2 In.	0.025 lb.
Snow	4 In.	0.037 lb.
Dirt	Smooth	0.025 lb.
Dirt	Sandy	0.037 lb.
Mud		0.037 to 0.150 lb.
Sand	Level/Soft	0.060 to 0.150 lb.
Sand	Dune	0.150 to 0.300 lb.

• Grade Resistance (GR)

Grade resistance is the additional force required to move a vehicle up an incline. The grade of a slope is normally expressed as a percentage, and represents the number of feet of rise in 100 feet of length. A slope that rises 10 feet in 100 feet has a grade of 10%. The gradeability of a vehicle is defined as the maximum grade the vehicle can climb.

GR = 0.01 x GVW x G where:

GR = Grade Resistance (lbs.)
GVW = Gross Vehicle Weight (lbs.)
G = Grade (%)

The following table gives the approximate relationship between grade in percent and slope in degrees.

Grade (Percent)	Slope (Degrees)
1%	0° 35'
2%	1° 9'
5%	2° 51'
6%	3° 26'
8%	4° 35'
10%	5° 43'
12%	6° 54'
15%	8° 31'
20%	11° 19'
25%	14° 3'
32%	18°
60%	31°

• Acceleration Force (F)

The force required to accelerate a vehicle from an initial speed V_1 (in feet/second) to speed V_2 in T seconds is the accelerating force in pounds. If the acceleration is from rest, V_1 is zero.

$$F = \frac{V \times GVW}{T \times 32.16}$$ where

V = Change in Velocity (ft. per Second) (Final Velocity - Initial Velocity)
GVW = Gross Vehicle Weight (lbs.)
T = Time for Velocity Change (Seconds)

Note - To obtain velocity in feet per second when MPH is known, Multiply MPH by 1.467.

• Drawbar Pull (DP)

Drawbar Pull is the force a vehicle can exert on a load in addition to the force required to propel itself.

Actual force to tow or push a load can be calculated based upon Rolling Resistance, Accelerating Force and Grade Resistance of towed or pushed load.

• Motor Torque

The total Tractive effort required to propel a vehicle is the sum of the forces due to Rolling Resistance, Grade Resistance, Acceleration and Drawbar Pull plus 10% for friction and other variables:

TE = (RR + GR + F + DP) x 1.1

When Tractive Effort has been calculated, hydraulic motor torque can be estimated by:

$$T = \frac{TE \times r}{G \times N}$$ where:

T = Hydraulic Motor Torque (lbs. in.)
TE = Tractive Effort
r = Rolling Radius of Driven Tires (inches)
G = Gear Reduction Ratio Between Hydraulic Motors and Driven Wheels (if none, use a value of 1)
N = Number of Driving Motors

• Slip Torque

Slip torque is the torque at the motor shaft that will cause the wheels or tracks to break traction and skid. It is affected by the weight of the vehicle and the coefficient of friction between the wheels or tracks and the surface.

$$ST = \frac{VW \times u \times r}{G \times N}$$ where:

- ST = Hydraulic Motor Slip Torque (lb in)
- VW = Maximum Weight on Driven Wheel (lb) Including: Allowable Vehicle Overload Dynamic Weight Shift.
- u = Coefficient of Friction Between Tire and Ground. (A value of 0.6 is used for "normal" tires and an average road surface)
- r = Rolling Radius of Driven Tires (inches)
- G = Gear Reduction Ratio Between Hydraulic Motors and Driven Wheel.
- N = Number of Driving Motors

• Rolling Radius

The rolling radius should be based on actual application factors such as Plyrating, Rated Load and inflation pressure can result in different values.

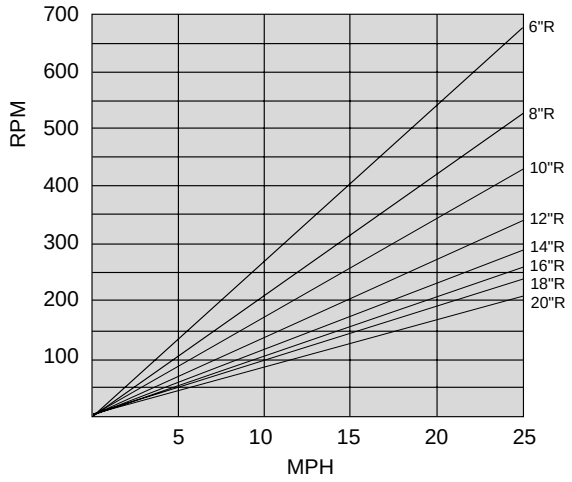
• Hydraulic Motor Speed

$$S = \frac{168 \times V \times G}{r}$$ where:

- S = Required Hydraulic Motor Speed (RPM)
- V = Desired Vehicle Velocity (MPH)
- G = Gear Reduction Ratio Between Hydraulic Motors and Driven Wheels (if none, use a value of 1)
- r = Rolling Radius of driven Tires (inches)

The chart below will estimate the wheel RPM -vs- vehicle velocity for various rolling radii.

MPH -vs- RPM
for different Rolling Radii



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Greeneville, TN 37744 USA

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Parker Hannifin Corporation

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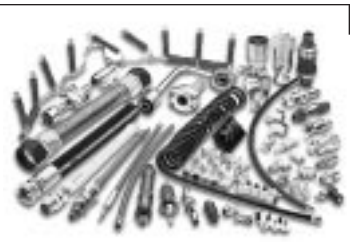

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