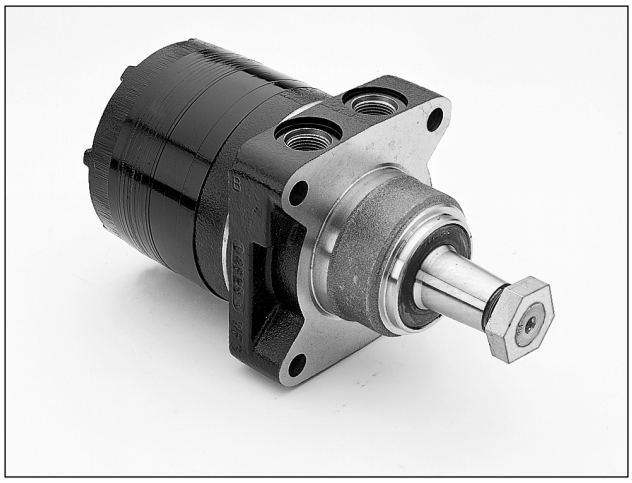
Exceptional Strength and Durability in a High Performance Motor

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 or Manifold 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

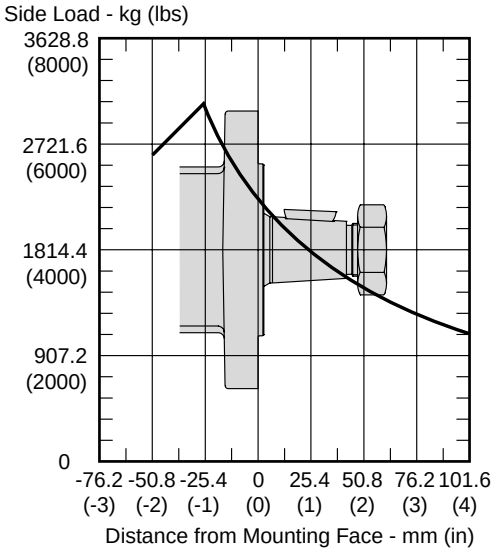
- **Roller Bearings** — For Heavy Radial Loads
- **Roller Vane Power Element** — For High Volumetric Efficiency and Long Life
- **Orbiting Commutator** — For Accurate Timing, Smooth Low Speed Operation
- **Full Flow Spline Lubrication** — For Extended Spline Life
- **High Pressure Shaft Seal** — For 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

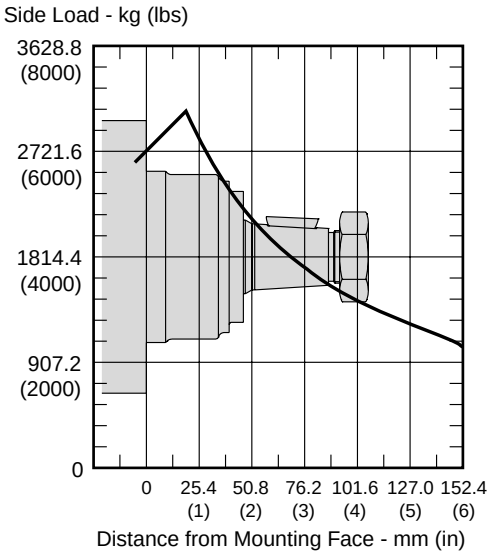
Code		0140	0170	0195	0240	0280	0335	0405	0475	0530	0625	0785	0960
Displacement	cc/rev	140	169	195	237	280	337	405	476	529	624	786	958
	(cu in/rev)	(8.6)	(10.3)	(11.9)	(14.5)	(17.1)	(20.6)	(24.7)	(29.1)	(32.3)	(38.0)	(48.0)	(58.5)
Maximum Speed (rpm) @ Maximum Continuous Flow		528	442	381	314	266	221	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)

Maximum Side Load Capacity

Flange Mount



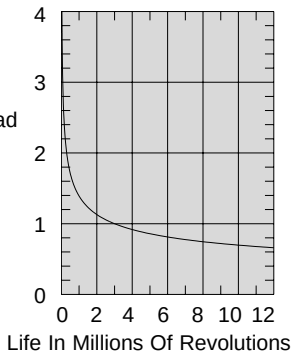
Wheel Mount



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.

Code 0140

140 cc / rev

	PRESSURE (BAR)							
	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**

Flow (LPM)

Code 0170

170 cc / rev

	PRESSURE (BAR)							
	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**

Flow (LPM)

Code 0195

195 cc / rev

	PRESSURE (BAR)							
	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**

Flow (LPM)

Code 0240

240 cc / rev

	PRESSURE (BAR)							
	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**

Flow (LPM)

TORQUE (nm) 534.3
SPEED (RPM) 421

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**

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

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

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

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

Code 0785

785 cc / rev

Flow (LPM)	PRESSURE (BAR) 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

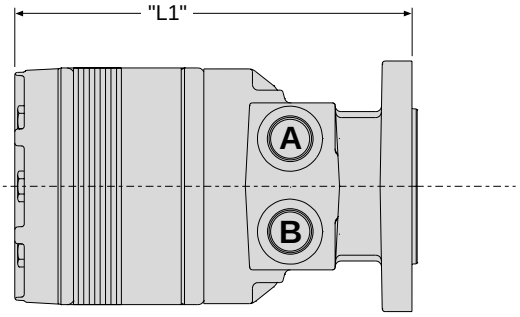
Code 0960

960 cc / rev

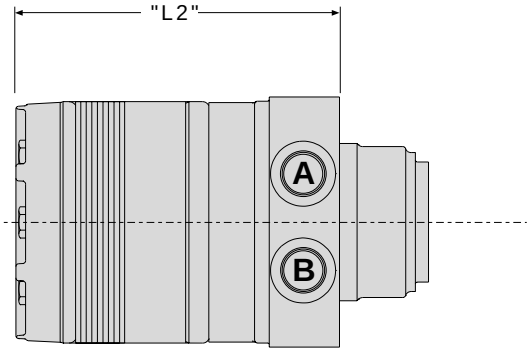
Flow (LPM)	PRESSURE (BAR) 34.5	69.0	103.4
1.9	417.1 **2**	871.3 **1**	1327.5 **1**
3.8	428.0 **3**	887.8 **3**	1343.9 **3**
7.6	440.6 **7**	908.9 **7**	1362.3 **6**
11.4	441.2 **11**	912.7 **11**	1371.0 **10**
15.1	445.0 **15**	921.4 **14**	1379.5 **13**
18.9	443.2 **19**	923.4 **18**	1382.6 **17**
26.5	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**

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.**

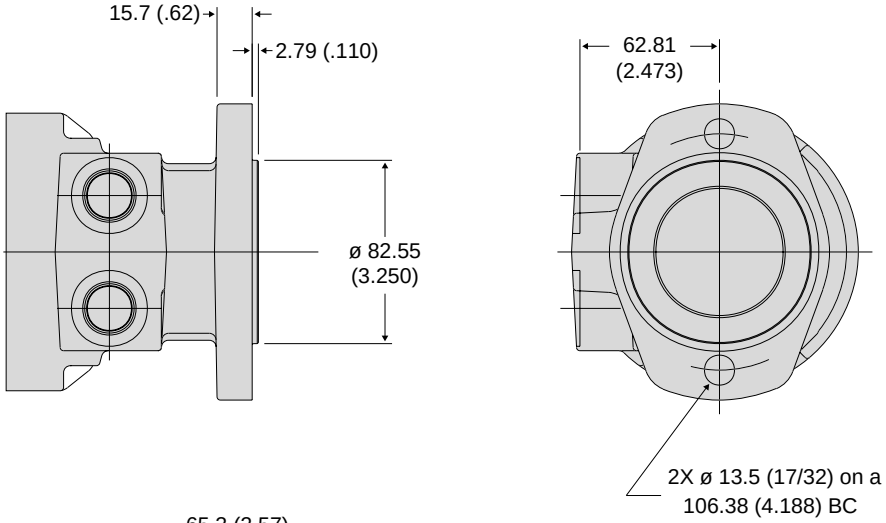
Length "L" and Weight

Displacement, Code	0140	0170	0195	0240	0280	0335	0405	0475	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	0475	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)

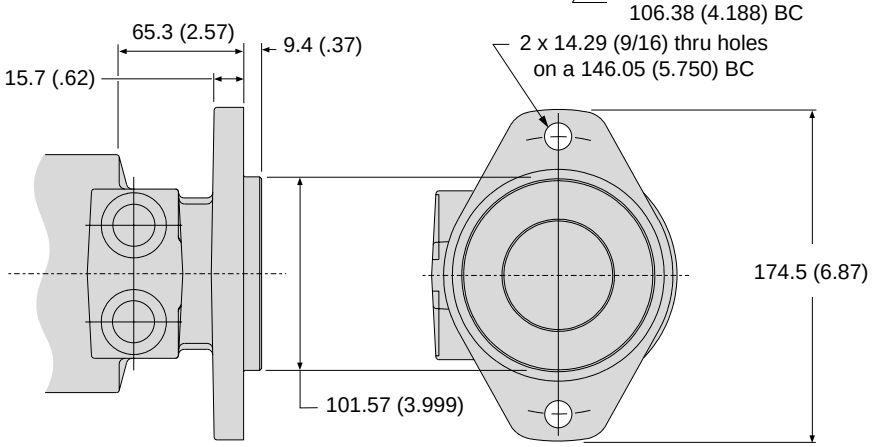
Mounting

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

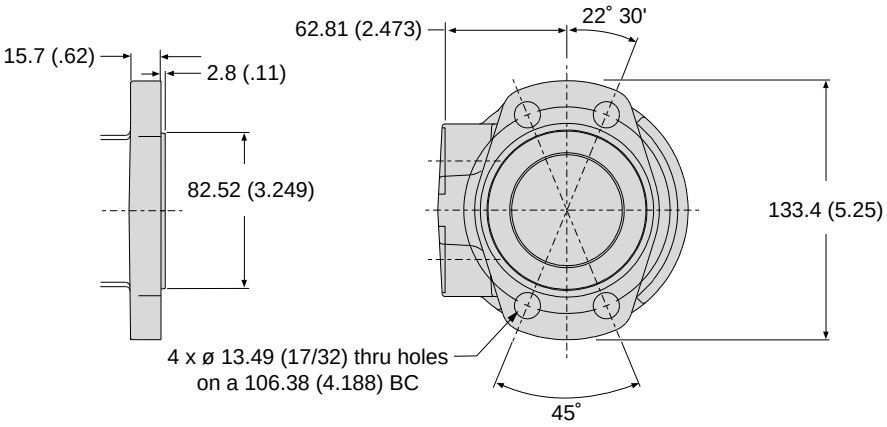
SAE "A" 2 Bolt Flange



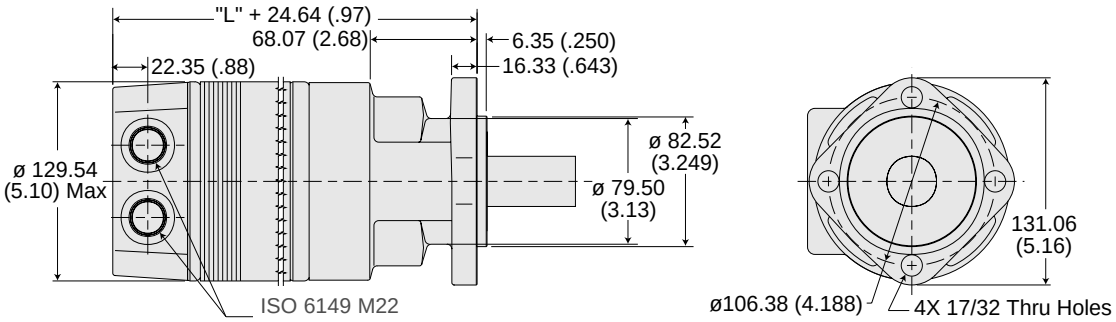
SAE "B" 2 Bolt Flange



4 Bolt Magneto



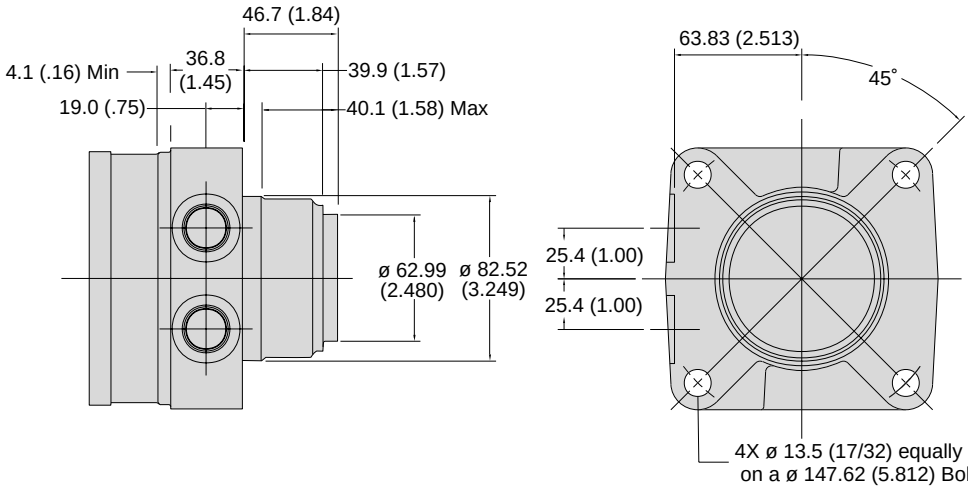
SAE "A" 4 Bolt Rear Port



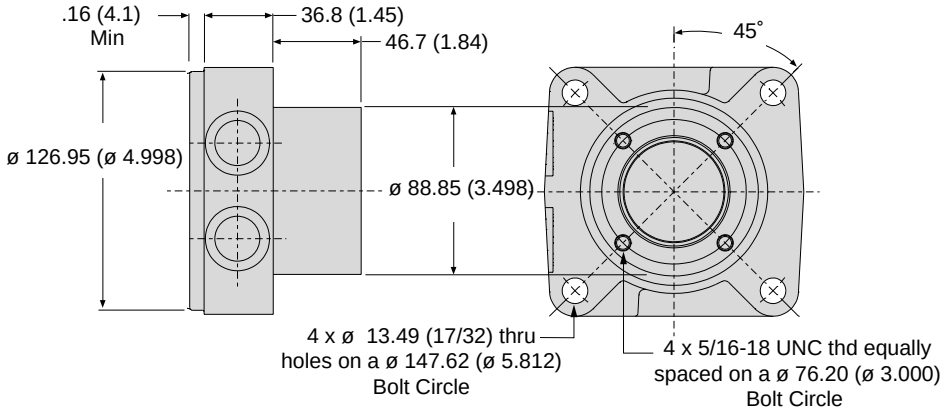
Mounting, Wheel

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

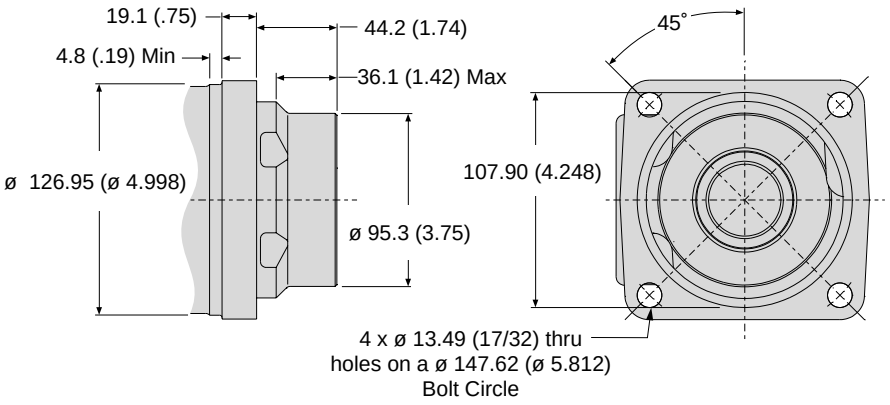
Wheel



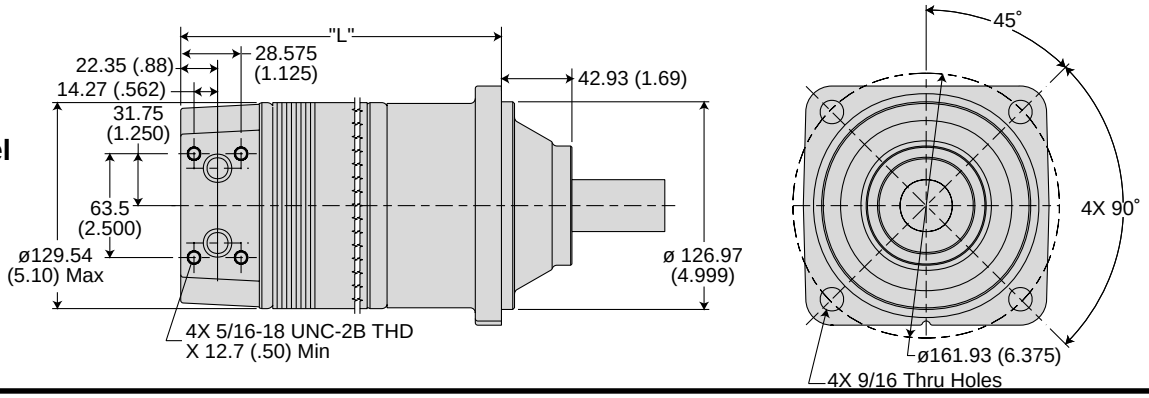
Wheel, Front Brake Nose



Wheel, Optional



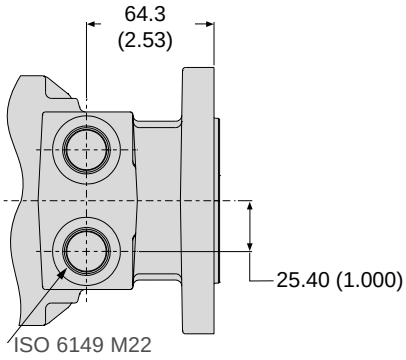
Large Wheel Mount, Rear Port



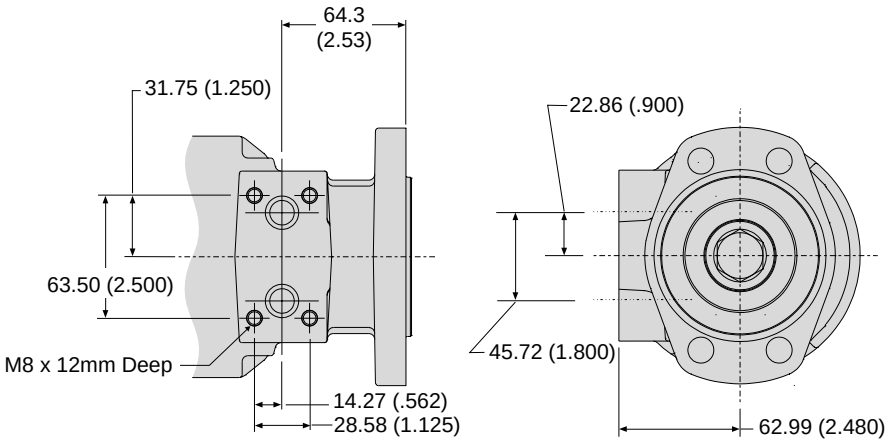
Porting

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

ISO 6149

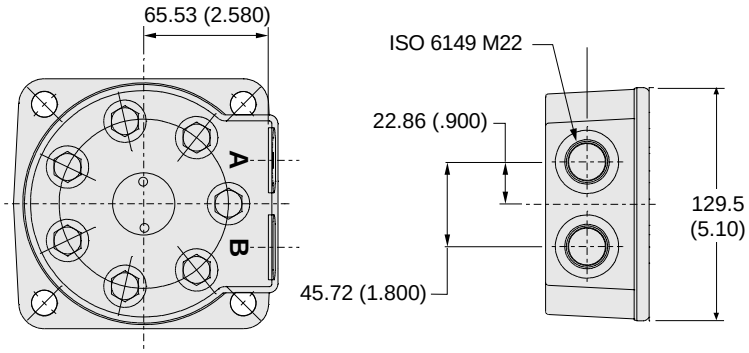


Manifold

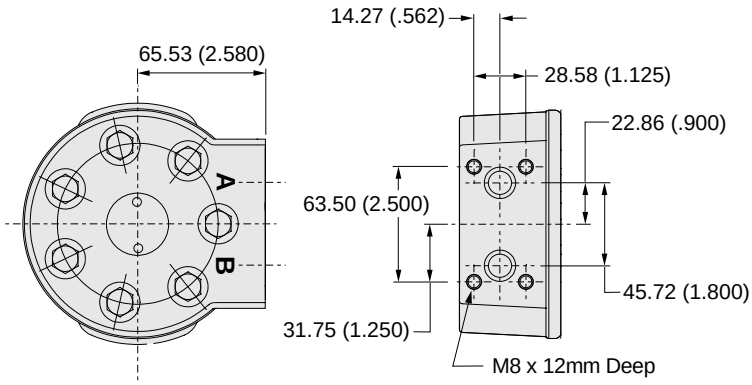


Rear Ports

ISO 6149



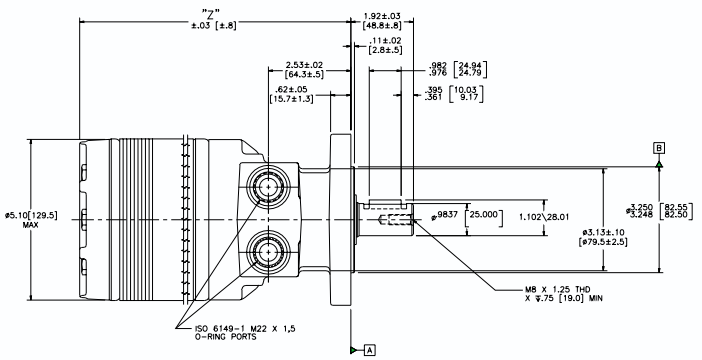
Manifold



Consult Factory for
ISO 6149 Porting

Shafts

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

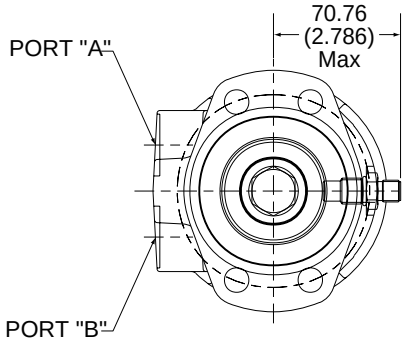


25mm Keyed Shaft

For Reference Only

An Economical Sensor for Speed Readout

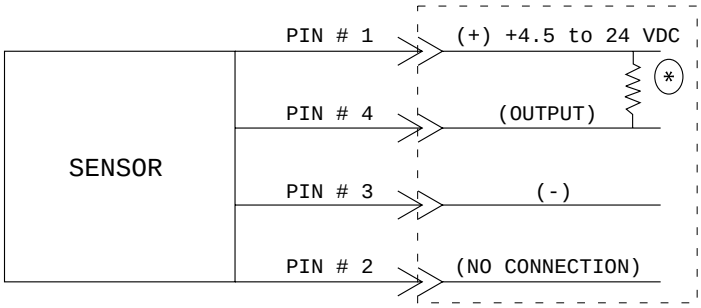
This rugged, weather resistant design is ideal for industrial and mobile applications. Applications include salt/sand/fertilizer spreader drives, conveyer drives and injection molder compression drives. The sensor is a hall-effect type, which when externally powered outputs 30 square wave digital pulses per coupling shaft revolution. The connector is a user friendly universally available 4 pin polarized M12 connector allowing for simplified field service. The integrated design does not effect the side load capacity or performance of the Torqlink™.

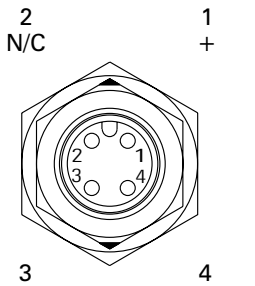


Speed Sensor
Part Number
455069

Features

- Operating Voltage Range ..... 4.5 to 24 VDC
- Operating Temperature ..... -40° C to 104° C
  ..... (-40° F to 220° F)
- Operating Frequency Range ..... 0 to 10 KHz
- Maximum Sink Current ..... 20 mA
- Connection ..... 4 Pin Polarized
  ..... M12 Connector
- Sensor Output ..... 30 Pulses per Revolution which can be doubled electronically.
- Output is NPN Open Collector





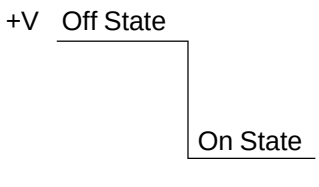
4 Pin Polarized
M12 Connector (Male)

Cable is *not* supplied by factory

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.



Min Off State = > 95%+V

Max On State = .400VDC

Ordering Information

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
E	Manifold; Rear Radial
H	ISO 6149 M22x1.5
M*	Manifold
	ISO6149 M22 x 1.5 Rear

* Not available on L, U or W mounting

Code	Rotation
0	Standard

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
D*	Large Wheel Mount
V*	SAE "A" 4-Bolt

* Requires rear porting

Code	Shaft
22	25mm 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
FSAA	Internal Speed Sensor, Black Paint
FSAB	Internal Speed Sensor, No Paint
FSAH	Internal Speed Sensor, Castle Nut, No Paint
FSAJ	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