

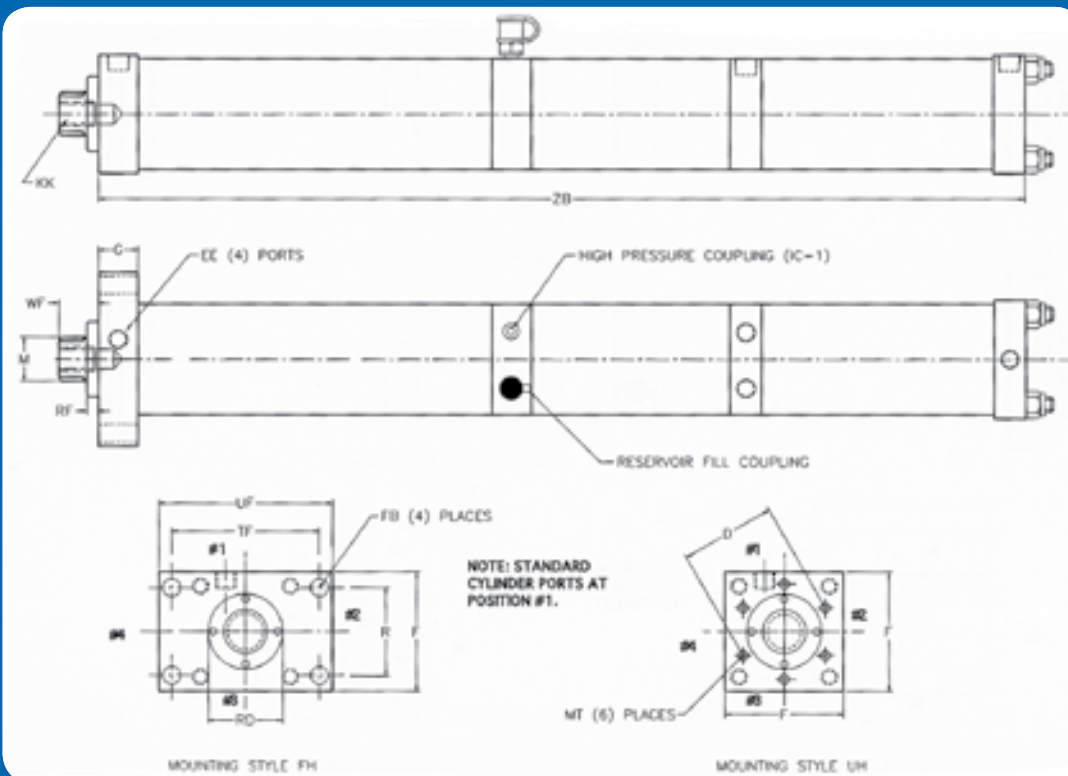
The "HPI" Series in-line cylinder is a totally self-contained, cost-effective power source ideally suited for a wide variety of assembly and forming applications.

Available in sizes from 1 to 100 tons, up to 8.00" stroke, and .50" power stroke, the HPI Series cylinder line provides the greatest force per dollar invested



### Standard Features:

- Total air/oil separation
- Linear force output
- Three moving components
- Simple control circuits
- 100,000 PSI tensile tie rods
- NFPA medium duty mounting styles
- Operation in any position or attitude
- 4.7 million MTBF (mean time between failure), 20 million service life
- Field serviceable-seal kits
- Fill units/repair manual
- Heavy-duty construction designed for years of trouble free use
- Numerous options, such as gage kits, sensors, press frames and bases.
- 3 year warranty



Modifications such as rod end styles, port locations, approach and power stroke lengths are options available upon request. Please contact your local AEC Representative for assistance. AEC reserves the right to change specifications. CAD disks (.dwg, .dxf format) are available for the full line of HyperCyl® cylinders.

Model numbers shown are standard cylinders. Other cylinder stroke lengths are available in .50" increments, power stroke lengths in .125" increments. Dimensions shown in inches with metric beneath (mm).

Model No.	Output Force per PSI (lbs.)	Approach/Retract per PSI (lbs.)	D	EE	F	FB	G	UF	TF	KK	M	MT	R	RD	RF	WF	ZB
HPI-1-2.00-.25-FH	22.34	3.14/2.35	N/A	1/8" NPT	2.500 (63.50)	.440 (11.18)	1.250 (31.75)	4.250 (107.95)	3.438 (87.33)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	1.630 (41.40)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	20.207 (513.26)
HPI-1-4.00-.25-FH	22.34	3.14/2.35	N/A	1/8" NPT	2.500 (63.50)	.440 (11.18)	1.250 (31.75)	4.250 (107.95)	3.438 (87.33)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	1.630 (41.40)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	27.280 (692.91)
HPI-1-6.00-.25-FH	22.34	3.14/2.35	N/A	1/8" NPT	2.500 (63.50)	.440 (11.18)	1.250 (31.75)	4.250 (107.95)	3.438 (87.33)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	1.630 (41.40)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	34.260 (870.20)
HPI-2-2.00-.25-FH	54.54	4.90/4.11	N/A	1/4" NPT	3.000 (76.20)	.440 (11.18)	1.250 (31.75)	5.125 (130.18)	4.125 (104.78)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	2.050 (52.07)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	21.289 (540.74)
HPI-2-4.00-.50-FH	54.54	4.90/4.11	N/A	1/4" NPT	3.000 (76.20)	.440 (11.18)	1.250 (31.75)	5.125 (130.18)	4.125 (104.78)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	2.050 (52.07)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	30.925 (785.50)
HPI-2-6.00-.50-FH	54.54	4.90/4.11	N/A	1/4" NPT	3.000 (76.20)	.440 (11.18)	1.250 (31.75)	5.125 (130.18)	4.125 (104.78)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	2.050 (52.07)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	37.780 (959.61)
HPI-2-8.00-.50-FH	54.54	4.90/4.11	N/A	1/4" NPT	3.000 (76.20)	.440 (11.18)	1.250 (31.75)	5.125 (130.18)	4.125 (104.78)	3/4-16 1.0 DP.	1.000 (25.40)	N/A	2.050 (52.07)	1.749 (44.42)	.380 (9.65)	1.250 (31.75)	44.638 (1133.81)
HPI-4-2.00-.25-**	87.62	8.29/6.81	3.000 (76.20)	3/8" NPT	4.250 (107.95)	.562 (14.27)	1.250 (31.75)	5.750 (146.05)	4.688 (119.08)	3/4-16 1.0 DP.	1.375 (34.93)	5/16-18 .75 DP.	2.750 (69.85)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	23.169 (588.49)
HPI-4-4.00-.50-**	87.62	8.29/6.81	3.000 (76.20)	3/8" NPT	4.250 (107.95)	.562 (14.27)	1.250 (31.75)	5.750 (146.05)	4.688 (119.08)	3/4-16 1.0 DP.	1.375 (34.93)	5/16-18 .75 DP.	2.750 (69.85)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	32.183 (817.45)
HPI-4-6.00-.50-**	87.62	8.29/6.81	3.000 (76.20)	3/8" NPT	4.250 (107.95)	.562 (14.27)	1.250 (31.75)	5.750 (146.05)	4.688 (119.08)	3/4-16 1.0 DP.	1.375 (34.93)	5/16-18 .75 DP.	2.750 (69.85)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	38.930 (988.82)
HPI-4-8.00-.50-**	87.62	8.29/6.81	3.000 (76.20)	3/8" NPT	4.250 (107.95)	.562 (14.27)	1.250 (31.75)	5.750 (146.05)	4.688 (119.08)	3/4-16 1.0 DP.	1.375 (34.93)	5/16-18 .75 DP.	2.750 (69.85)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	46.426 (1179.22)
HPI-8-2.00-.25-**	158.86	12.56/11.08	3.999 (101.57)	3/8" NPT	5.000 (127.00)	.656 (16.66)	1.250 (31.75)	6.250 (158.75)	5.314 (134.98)	3/4 -16 1.25 DP.	1.375 (34.93)	1/2 -13 1.375 DP.	3.320 (84.33)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	24.973 (634.31)
HPI-8-4.00-.50-**	158.86	12.56/11.08	3.999 (101.57)	3/8" NPT	5.000 (127.00)	.656 (16.66)	1.250 (31.75)	6.250 (158.75)	5.314 (134.98)	3/4 -16 1.25 DP.	1.375 (34.93)	1/2 -13 1.375 DP.	3.320 (84.33)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	34.956 (887.88)
HPI-8-6.00-.50-**	158.86	12.56/11.08	3.999 (101.57)	3/8" NPT	5.000 (127.00)	.656 (16.66)	1.250 (31.75)	6.250 (158.75)	5.314 (134.98)	3/4 -16 1.25 DP.	1.375 (34.93)	1/2 -13 1.375 DP.	3.320 (84.33)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	41.779 (1061.19)
HPI-8-8.00-.50-**	158.86	12.56/11.08	3.999 (101.57)	3/8" NPT	5.000 (127.00)	.656 (16.66)	1.250 (31.75)	6.250 (158.75)	5.314 (134.98)	3/4 -16 1.25 DP.	1.375 (34.93)	1/2 -13 1.375 DP.	3.320 (84.33)	2.374 (60.30)	.380 (9.65)	1.250 (31.75)	48.603 (1234.52)
HPI-10-2.00-.25-**	259.63	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	2.999 (76.17)	.380 (9.65)	1.750 (44.45)	26.430 (671.32)
HPI-10-4.00-.50-**	259.63	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	2.999 (76.17)	.380 (9.65)	1.750 (44.45)	36.437 (925.50)
HPI-10-6.00-.50-**	259.63	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	2.999 (76.17)	.380 (9.65)	1.750 (44.45)	42.500 (1079.50)
HPI-10-8.00-.50-**	259.63	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	2.999 (76.17)	.380 (9.65)	1.750 (44.45)	49.313 (1252.55)
HPI-15-2.00-.25-**	314.08	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	28.740 (730.00)
HPI-15-4.00-.50-**	314.08	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	40.505 (1028.83)
HPI-15-6.00-.50-**	314.08	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	43.530 (1105.66)
HPI-15-8.00-.50-**	314.08	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	51.488 (1307.80)

\*Dimensions subject to change. Contact Aries Engineering for official drawings.

\*\* UH of FH mounting configuration is standard.

Model numbers shown are standard cylinders. Other cylinder stroke lengths are available in .50" increments, power stroke lengths in .125" increments. Dimensions shown in inches with metric beneath (mm).

Model No.	Output Force per PSI (lbs.)	Approach/Retract per PSI (lbs.)	D	EE	F	FB	G	UF	TF	KK	M	MT	R	RD	RF	WF	ZB
HPI-20-2.00-.25-**-**	387.85	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	30.376 (771.55)
HPI-20-4.00-.50-**-**	387.85	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	44.000 (1117.60)
HPI-20-6.00-.50-**-**	387.85	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	47.910 (1216.91)
HPI-20-8.00-.50-**-**	387.85	19.63/16.49	4.250 (107.95)	1/2" NPT	6.500 (165.10)	.812 (20.62)	1.500 (38.10)	8.000 (203.20)	6.625 (168.28)	1 1/2-12 2.25 DP.	2.000 (50.80)	1/2-13 .75 DP.	4.100 (104.14)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	53.167 (1350.44)
HPI-30-2.00-.25-**-**	651.44	28.27/23.37	6.280 (159.51)	3/4" NPT	7.500 (190.50)	1.060 (26.92)	2.000 (50.80)	11.250 (285.75)	9.440 (239.78)	1 7/8-12 3.0 DP.	2.500 (63.50)	3/4-10 1.25 DP.	5.730 (145.54)	3.749 (95.22)	.500 (12.70)	1.750 (44.45)	34.939 (887.45)
HPI-30-4.00-.50-**-**	651.44	28.27/23.37	6.280 (159.51)	3/4" NPT	7.500 (190.50)	1.060 (26.92)	2.000 (50.80)	11.250 (285.75)	9.440 (239.78)	1 7/8-12 3.0 DP.	2.500 (63.50)	3/4-10 1.25 DP.	5.730 (145.54)	3.749 (95.22)	.500 (12.70)	1.750 (44.45)	49.125 (1247.78)
HPI-30-6.00-.50-**-**	651.44	28.27/23.37	6.280 (159.51)	3/4" NPT	7.500 (190.50)	1.060 (26.92)	2.000 (50.80)	11.250 (285.75)	9.440 (239.78)	1 7/8-12 3.0 DP.	2.500 (63.50)	3/4-10 1.25 DP.	5.730 (145.54)	3.749 (95.22)	.500 (12.70)	1.750 (44.45)	53.090 (1348.49)
HPI-30-8.00-.50-**-**	651.44	28.27/23.37	6.280 (159.51)	3/4" NPT	7.500 (190.50)	1.060 (26.92)	2.000 (50.80)	11.250 (285.75)	9.440 (239.78)	1 7/8-12 3.0 DP.	2.500 (63.50)	3/4-10 1.25 DP.	5.730 (145.54)	3.749 (95.22)	.500 (12.70)	1.750 (44.45)	56.811 (1443.00)
HPI-50-2.00-.25-FH	1050.44	50.26/43.20	N/A	3/4" NPT	11.000 (279.40)	1.312 (33.32)	2.000 (50.80)	15.500 (393.70)	13.250 (336.55)	2 1/4-12 3.5 DP.	3.000 (76.20)	N/A	8.500 (215.90)	4.300 (109.22)	.500 (12.70)	2.000 (50.80)	35.710 (907.03)
HPI-50-4.00-.50-FH	1050.44	50.26/43.20	N/A	3/4" NPT	11.000 (279.40)	1.312 (33.32)	2.000 (50.80)	15.500 (393.70)	13.250 (336.55)	2 1/4-12 3.5 DP.	3.000 (76.20)	N/A	8.500 (215.90)	4.300 (109.22)	.500 (12.70)	2.000 (50.80)	48.548 (1233.12)
HPI-50-6.00-.50-FH	1050.44	50.26/43.20	N/A	3/4" NPT	11.000 (279.40)	1.312 (33.32)	2.000 (50.80)	15.500 (393.70)	13.250 (336.55)	2 1/4-12 3.5 DP.	3.000 (76.20)	N/A	8.500 (215.90)	4.300 (109.22)	.500 (12.70)	2.000 (50.80)	53.350 (1355.09)
HPI-50-8.00-.50-FH	1050.44	50.26/43.20	N/A	3/4" NPT	11.000 (279.40)	1.312 (33.32)	2.000 (50.80)	15.500 (393.70)	13.250 (336.55)	2 1/4-12 3.5 DP.	3.000 (76.20)	N/A	8.500 (215.90)	4.300 (109.22)	.500 (12.70)	2.000 (50.80)	57.100 (1450.34)
HPI-75-2.00-.25-**-**	1551.40	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	36.680 (931.67)
HPI-75-4.00-.50-**-**	1551.40	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	49.733 (1263.22)
HPI-75-6.00-.50-**-**	1551.40	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	53.472 (1358.19)
HPI-75-8.00-.50-**-**	1551.40	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	57.348 (1456.64)
HPI-100-2.00-.25-**-**	1963.5	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	39.298 (998.17)
HPI-100-4.00-.50-**-**	1963.5	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	55.445 (1408.30)
HPI-100-6.00-.50-**-**	1963.5	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	58.653 (1489.79)
HPI-100-8.00-.50-**-**	1963.5	78.54/65.97	N/A	3/4" NPT	14.000 (355.60)	1.812 (46.02)	3.000 (76.20)	19.000 (482.60)	15.875 (403.23)	2-1/4 -12 3.0 DP.	4.000 (101.60)	N/A	9.620 (244.35)	5.251 (133.38)	.500 (12.70)	1.750 (44.45)	62.361 (1583.97)

\*Dimensions subject to change. Contact Aries Engineering for official drawings.

\*\* UH of FH mounting configuration is standard.

Air Pressure (PSI)	HPI-1 Ton Series	HPI-2 Ton Series	HPI-4 Ton Series	HPI-8 Ton Series	HPI-10 Ton Series	HPI-15 Ton Series	HPI-20 Ton Series	HPI-30 Ton Series	HPI-50 Ton Series	HPI-75 Ton Series	HPI-100 Ton Series
	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.	Hyd PSI/Force lb.
30	210/670	330/16360	316/2626	379/4766	396/7785	480/9422	591/11601	651/19540	630/31663	592/46542	750/58905
40	280/893	440/2181	422/3501	506/6355	528/10380	644/12641	788/15468	921/26053	840/42218	790/62056	1000/78540
50	350/1117	550/2727	528/4377	632/7943	661/12975	805/15802	985/19335	1152/32567	1050/52773	987/77570	1250/98175
60	420/1340	660/3272	633/5252	758/9532	793/15570	966/18962	1182/23202	1382/39080	1260/63327	1185/93084	1500/117810
70	490/1563	770/3817	739/6127	885/11120	925/18165	1127/22123	1379/27069	1612/45593	1470/73882	1382/108598	1750/137445
80	560/1787	880/4363	844/7003	1011/12709	1057/20760	1288/25283	1576/30936	1843/52107	1680/84436	1580/124112	2000/157080
90	630/2010	990/4908	950/7878	1137/14298	1189/23355	1449/28443	1773/34803	2073/58620	1890/94991	1777/139626	2250/176715
100	700/2234	1100/5454	1056/8754	1264/15886	1322/25950	1600/31408	1970/38671	2304/65134	2100/105546	1975/155140	2500/196350

\*Typical cylinder break-away pressure is 35 PSI.  
 (1) Complete cylinder cycle @ 60 PSI.  
 Multiply value by cycles per minute for total SCFM usage.

**NOTE: The above specifications are theoretical forces. Frictional loads and lack of proper air supply may affect cylinder performance. Please multiply application force requirements by 1.25-1.50 to ensure adequate force is available.**

	HPI-1 Ton Series	HPI-2 Ton Series	HPI-4 Ton Series	HPI-8 Ton Series	HPI-10 Ton Series	HPI-15 Ton Series	HPI-20 Ton Series	HPI-30 Ton Series	HPI-50 Ton Series	HPI-75 Ton Series	HPI-100 Ton Series
Approach Force per PSI (lbs.)	*3.14	*4.90	*8.29	*12.56	*19.63	*19.63	*19.63	*28.27	*50.26	*78.54	*78.54
Retract Force per PSI (lbs.)	*2.35	*4.11	*6.81	*11.08	*16.49	*16.49	*16.49	*23.37	*43.20	*65.97	*65.97
Output Force Range (lbs.)	670-2234	1636-5454	2626-8754	4766-15,886	7785-25,950	9424-31,408	11,635-38,785	19,540-65,134	31,663-105,546	46,542-155,140	58,905-196,350
Working Ratio (Output per PSI (lbs.))	22.34:1	54.54:1	87.62:1	158.86:1	259.62:1	314.08:1	387.85:1	651.44:1	1055.46:1	1551.40:1	1963.5:1
Service Ratio (Hydraulic PSI (lbs.))	7:01	11:1	10.56:1	12.64:1	13.22:1	16:1	19.7:1	23.04:1	21:1	19.8:1	25:1
Air Consumption per Cycle	.136 SCFM(1)	.267 SCFM(1)	.426 SCFM(1)	1.079 SCFM(1)	1.079 SCFM(1)	1.356 SCFM(1)	1.568 SCFM(1)	2.510 SCFM(1)	4.204 SCFM(1)	7.160 SCFM(1)	8.51 SCFM(1)
Operating Temperature	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F	10°F-160°F
Maximum Operating Speed ***	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec	1.5 Ft/sec
Recommended Air Filter	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron
Maximum Operating Pressure	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI
Minimum Operating Pressure	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI

\*Typical cylinder break-away pressure is 35 PSI.  
 (1) Complete cylinder cycle @ 60 PSI.  
 Multiply value by cycles per minute for total SCFM usage.  
 \*\*\* Maximum speed of the seals (not maximum speed of cylinder).

**NOTE: The above specifications are theoretical forces. Frictional loads and lack of proper air supply may affect cylinder performance. Please multiply application force requirements by 1.25-1.50 to ensure adequate force is available.**