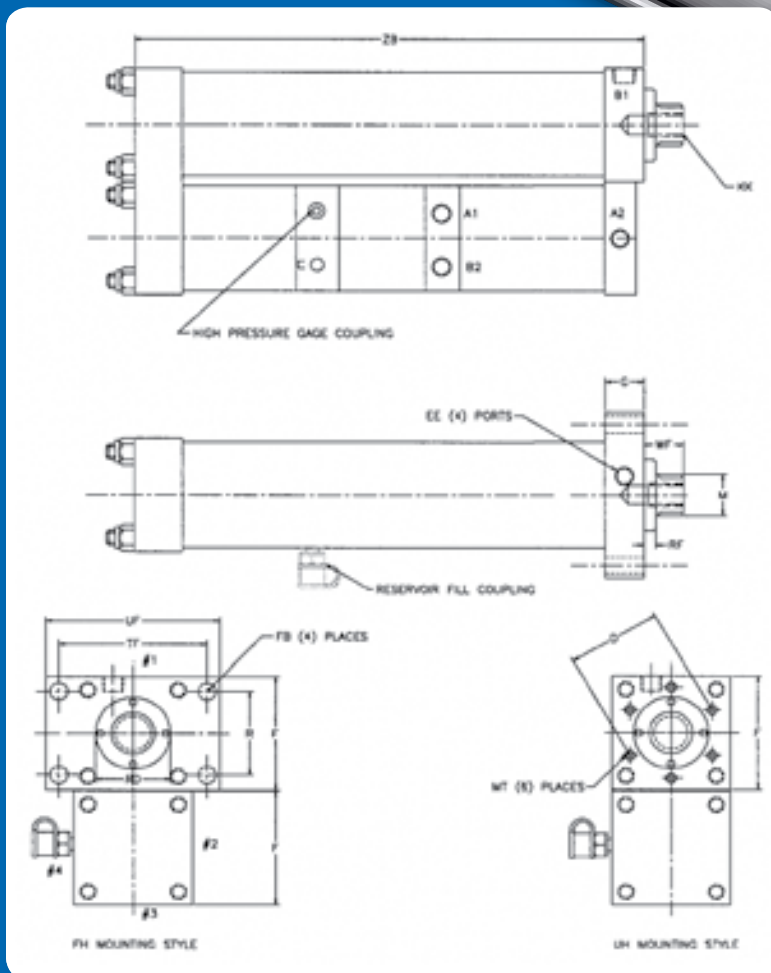




The "HPT" Series tandem cylinder is a totally self-contained, cost-effective power source ideally suited for a wide variety of assembly and forming applications.

Available in sizes from 1 to 10 tons, up to 8.00" stroke, and 1.00" power stroke, the HPT Series cylinder line provides a compact package where space is limited.



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, 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. 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
HPT-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)	15.180 (385.57)
HPT-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)	21.790 (553.47)
HPT-1-8.00-.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)	27.850 (707.39)
HPT-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)	17.220 (437.39)
HPT-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)	25.600 (650.24)
HPT-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)	31.330 (795.78)
HPT-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)	22.620 (574.55)
HPT-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)	32.250 (819.15)
HPT-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)	46.000 (1168.4)
HPT-4-8.00-1.00-**	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)	46.000 (1168.4)
HPT-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)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	26.450 (671.83)
HPT-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)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	35.980 (913.89)
HPT-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)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	48.880 (1241.55)
HPT-10-8.00-1.00-**	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)	3.000 (76.20)	.380 (9.65)	1.750 (44.45)	48.880 (1241.55)



Air Pressure (PSI)	HPT-1 Ton Series Hyd PSI/Force lb.	HPT-2 Ton Series Hyd PSI/Force lb.	HPT-4 Ton Series Hyd PSI/Force lb.	HPT-8 Ton Series Hyd PSI/Force lb.	HPT-10 Ton Series Hyd PSI/Force lb.
30	210/670	330/16360	316/2626	379/4766	396/7785
40	280/893	440/2181	422/3501	506/6355	528/10380
50	350/1117	550/2727	528/4377	632/7943	661/12975
60	420/1340	660/3272	633/5252	758/9532	793/15570
70	490/1563	770/3817	739/6127	885/11120	925/18165
80	560/1787	880/4363	844/7003	1011/12709	1057/20760
90	630/2010	990/4908	950/7878	1137/14298	1189/23355
100	700/2234	1100/5454	1056/8754	1264/15886	1322/25950

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

	HPT-1 Ton Series	HPT-2 Ton Series	HPT-4 Ton Series	HPT-8 Ton Series	HPT-10 Ton Series
Approach Force per PSI (lbs.)	*3.14	*4.90	*8.29	*12.56	*19.63
Retract Force per PSI (lbs.)	*2.35	*4.11	*6.81	*11.08	*16.49
Output Force Range (lbs.)	670-2234	1636-5454	2626-8754	4766-15,886	7785-25,950
Working Ratio (Output per PSI (lbs.))	22.34:1	54.54:1	87.62:1	158.86:1	259.62:1
Service Ratio (Hydraulic PSI (lbs.))	7:01	11:1	10.56:1	12.64:1	13.22:1
Air Consumption per Cycle	.136 SCFM(1)	.267 SCFM(1)	.426 SCFM(1)	1.079 SCFM(1)	1.079 SCFM(1)
Operating Temperature	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
Recommended Air Filter	40 Micron	40 Micron	40 Micron	40 Micron	40 Micron
Maximum Operating Pressure	100 PSI	100 PSI	100 PSI	100 PSI	100 PSI
Minimum Operating Pressure	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI