

SHT SERIES Single-Acting High Tonnage Cylinders



Features

- Single acting,load return.
- Hard chrome plated high quality steel plungers.
- Plunger wiper reduces contamination,extending cylinder life.
- The exclusive guide ring is designed absorbs eccentric loading without galling cylinder parts, reduces wear and extending life.
- Special painted surface to increase corrosion resistance.
- Easy fixturing with base mounting holes.
- All models include quick couplings (NPT3/8" -18) and dust-proof cap.
- Removable hardened saddles protect plunger during lifting and pressing.
- According to different work environment,special cylinder could be customized.



Capacity: 50-800tons

Stroke: 1.97-11.81inch

Max. Pressure: 10,000psi

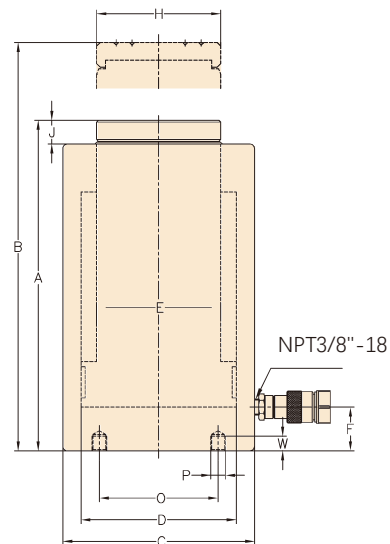
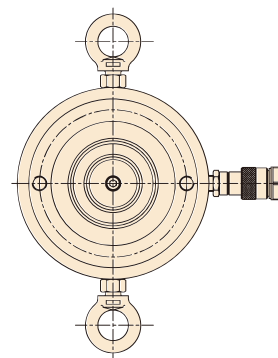
Pump Selection

Selection appropriate pumps for offer optimum combination.For details, please refer to the section " hydraulic pumps ".



Hoses

Select AIPI high quality high pressure hoses. For details, please refer to the section " hydraulic components ".



Quick Selection Chart

Cylinder Capacity	Stroke	Model Number	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extend Height
					A	B
ton (max)	(inch)		(in ²)	(in ³)	(inch)	(inch)
50 (55)	1.97	SHT50-50	12.17	23.9	6.77	9.37
	3.94	SHT50-100	12.17	47.8	8.74	13.30
	5.91	SHT50-150	12.17	71.8	10.71	17.24
	7.87	SHT50-200	12.17	95.7	13.30	21.18
	11.81	SHT50-300	12.17	143.5	16.61	29.06
100 (107.7)	1.97	SHT100-50	23.85	47.0	7.76	10.47
	3.94	SHT100-100	23.85	94.0	9.72	14.40
	5.91	SHT100-150	23.85	141.0	11.69	18.35
	7.87	SHT100-200	23.85	188.0	14.40	22.28
	11.81	SHT100-300	23.85	281.9	17.60	30.16
150 (158.8)	1.97	SHT150-50	35.17	69.2	8.11	10.87
	3.94	SHT150-100	35.17	138.5	10.08	14.80
	5.91	SHT150-150	35.17	207.7	12.05	18.74
	7.87	SHT150-200	35.17	276.9	14.02	22.68
	11.81	SHT150-300	35.17	415.3	17.95	30.55
200 (219.8)	1.97	SHT200-50	48.67	95.8	9.70	11.65
	5.91	SHT200-150	48.67	287.5	13.62	19.53
	11.81	SHT200-300	48.67	575.0	19.53	31.34
300 (343.4)	1.97	SHT300-50	76.04	149.7	10.90	12.87
	5.91	SHT300-150	76.04	449.1	14.84	20.75
	11.81	SHT300-300	76.04	898.1	20.75	32.56
400 (430.8)	1.97	SHT400-50	95.40	187.8	12.00	13.98
	5.91	SHT400-150	95.40	563.3	15.94	21.85
	11.81	SHT400-300	95.40	1126.6	21.85	33.66
500 (511.4)	1.97	SHT500-50	124.60	245.3	12.80	14.76
	5.91	SHT500-150	124.60	735.8	16.73	22.64
	11.81	SHT500-300	124.60	1471.5	22.64	34.45
600 (630)	1.97	SHT600-50	157.70	310.4	15.20	17.17
	5.91	SHT600-150	157.70	931.3	19.13	25.04
	11.81	SHT600-300	157.70	1862.6	25.04	36.85
800 (879)	1.97	SHT800-50	194.68	383.2	16.80	18.78
	5.91	SHT800-150	194.68	1149.7	20.75	26.65
	11.81	SHT800-300	194.68	2300.5	26.65	38.46

Installation Reference Datasheet

Model Number	Outside Dia.	Cylinder Bore Dia.	Plunger Dia.	Base to Advance Port	Saddle Dia.	Saddle Protrusion from Plunger	Base Mounting Holes			Weight (lbs)
	C	D	E	F	H	J	O	P	W	
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)		(inch)	
SHT50-50	5.50	3.94	2.76	1.60	2.76	0.94	2.76	4-M16	0.51	47
SHT50-100	5.50	3.94	2.76	1.60	2.76	0.94	2.76	4-M16	0.51	57
SHT50-150	5.50	3.94	2.76	1.60	2.76	0.94	2.76	4-M16	0.51	68
SHT50-200	5.50	3.94	2.76	1.60	2.76	0.94	2.76	4-M16	0.51	77
SHT50-300	5.50	3.94	2.76	1.60	2.76	0.94	2.76	4-M16	0.51	97
SHT100-50	7.40	5.50	3.94	2.13	3.94	0.94	3.94	4-M20	0.63	93
SHT100-100	7.40	5.50	3.94	2.13	3.94	0.94	3.94	4-M20	0.63	108
SHT100-150	7.40	5.50	3.94	2.13	3.94	0.94	3.94	4-M20	0.63	123
SHT100-200	7.40	5.50	3.94	2.13	3.94	0.94	3.94	4-M20	0.63	139
SHT100-300	7.40	5.50	3.94	2.13	3.94	0.94	3.94	4-M20	0.63	154
SHT150-50	8.98	6.70	4.72	2.28	4.72	0.94	5.12	4-M20	0.63	97
SHT150-100	8.98	6.70	4.72	2.28	4.72	0.94	5.12	4-M20	0.63	126
SHT150-150	8.98	6.70	4.72	2.28	4.72	0.94	5.12	4-M20	0.63	154
SHT150-200	8.98	6.70	4.72	2.28	4.72	0.94	5.12	4-M20	0.63	183
SHT150-300	8.98	6.70	4.72	2.28	4.72	0.94	5.12	4-M20	0.63	240
SHT200-50	10.55	7.87	5.91	2.52	5.90	1.14	6.30	4-M24	0.94	185
SHT200-150	10.55	7.87	5.91	2.52	5.90	1.14	6.30	4-M24	0.94	260
SHT200-300	10.55	7.87	5.91	2.52	5.90	1.14	6.30	4-M24	0.94	335
SHT300-50	12.60	9.84	7.09	2.90	7.10	1.38	8.66	4-M24	0.94	342
SHT300-150	12.60	9.84	7.09	2.90	7.10	1.38	8.66	4-M24	0.94	430
SHT300-300	12.60	9.84	7.09	2.90	7.10	1.38	8.66	4-M24	0.94	562
SHT400-50	14.57	11.02	8.27	3.27	8.27	1.38	9.45	4-M24	0.94	529
SHT400-150	14.57	11.02	8.27	3.27	8.27	1.38	9.45	4-M24	0.94	683
SHT400-300	14.57	11.02	8.27	3.27	8.27	1.38	9.45	4-M24	0.94	915
SHT500-50	16.54	12.60	9.84	3.66	9.69	1.38	11.02	4-M24	0.94	628
SHT500-150	16.54	12.60	9.84	3.66	9.69	1.38	11.02	4-M24	0.94	778
SHT500-300	16.54	12.60	9.84	3.66	9.69	1.38	11.02	4-M24	0.94	1003
SHT600-50	19.70	14.17	11.02	4.45	11.02	1.57	11.80	4-M24	0.94	1074
SHT600-150	19.70	14.17	11.02	4.45	11.02	1.57	11.80	4-M24	0.94	1276
SHT600-300	19.70	14.17	11.02	4.45	11.02	1.57	11.80	4-M24	0.94	1581
SHT800-50	21.65	15.75	12.60	4.45	12.60	2.24	14.96	4-M24	0.94	1570
SHT800-150	21.65	15.75	12.60	4.45	12.60	2.24	14.96	4-M24	0.94	1896
SHT800-300	21.65	15.75	12.60	4.45	12.60	2.24	14.96	4-M24	0.94	2385