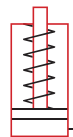




# Single Acting Cylinders

H Series - General Purpose, Spring Return



**Capacity:**

5 - 100 Tons

**Stroke:**

25 - 362 mm

**Max. Operating Pressure:**

700 BAR

**Min. - Max. Height:**

92 - 838 mm



H10010

H1514

H7513

H1501

**\* Larger Tonnages**  
 For tonnages that exceed 100, please refer to our HG Section pg 10



Single Acting Cylinder H1506 in the collapsed position with CB15 cylinder base for safety.

Single Acting Cylinder H5513 in the collapsed position ready to lift a load

- Collar threads and base mounting holes for fixturing
- Hard chrome plated piston plunger protects against corrosion and damage
- Polyurethane U-Cup seals provide a sure seal and long life
- Solid one piece alloy steel body
- One piece aluminum alloy bearing protects against cylinder wall damage
- CH38F high flow coupler with dust cap is standard on all cylinders



**Safety Practices**  
 Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.

**HU Series – Aluminum Cylinders**  
 Aluminum cylinders make a great lightweight alternative being up to 60% lighter than comparable steel models. pg 14

## Quick Selection Guide

Cylinder Capacity	Stroke (mm)	Model Number	Collapsed Height (mm)	Oil Capacity (cc)	Weight (kg)
5 Ton 44 kN	25	H0501	116	16	1.4
	78	H0503	169	50	1.5
	129	H0505	221	83	1.8
	180	H0507	272	116	2.1
	229	H0509	324	148	2.5
10 Ton 89 kN	25	H1001	92	36	1.8
	51	H1002	123	74	2.3
	102	H1004	174	147	3.5
	151	H1006	250	218	4.3
	202	H1008	301	292	5.1
	253	H1010	352	366	5.9
	304	H1012	403	439	6.8
15 Ton 133 kN	25	H1501	124	50	3.1
	51	H1502	149	103	3.9
	101	H1504	200	205	5.0
	152	H1506	270	308	6.7
	203	H1508	321	411	7.8
	254	H1510	372	515	9.1
	305	H1512	423	618	10.2
	356	H1514	474	721	11.4
25 Ton 222 kN	26	H2501	143	86	5.5
	51	H2502	168	170	6.4
	102	H2504	219	339	8.2
	155	H2506	272	515	10.1
	206	H2508	323	684	11.9
	257	H2510	374	854	13.7
	310	H2512	426	1030	15.6
	362	H2514	476	1203	17.4
30 Ton 267 kN	210	H3008	387	879	18.5
55 Ton 489 kN	51	H5502	176	360	15.0
	103	H5504	227	730	18.6
	159	H5506*	283	1126	26.1
	260	H5510*	385	1844	30.6
75 Ton 667 kN	337	H5513*	461	2388	39.5
	156	H7506*	285	1620	33.6
	333	H7513*	492	3459	55.3
100 Ton 890 kN	51	H10002*	219	677	29.9
	168	H10006*	357	2229	57.6
	260	H10010*	449	3453	69.4

See pages 8-9 for detailed specifications.

\* Cylinder is equipped with carrying handle.



H Series

**Cylinder Accessories**  
See the assortment of accessories designed to work with our products. pg 40

**Combo Kits**  
Most cylinders are available in easy to order kits: Cylinder, Gauge, Couplers, Hose and Pump. pg 60

**Related Product: Gauges**  
Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65

**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102

**High-Flow Couplers**  
High-Flow Coupler: CH38F is included on all models (except where specified).

**Optional Tilt-Saddles**  
Saddles tilt to a 5% maximum to adjust to the load. Match up these saddles with the following cylinders:

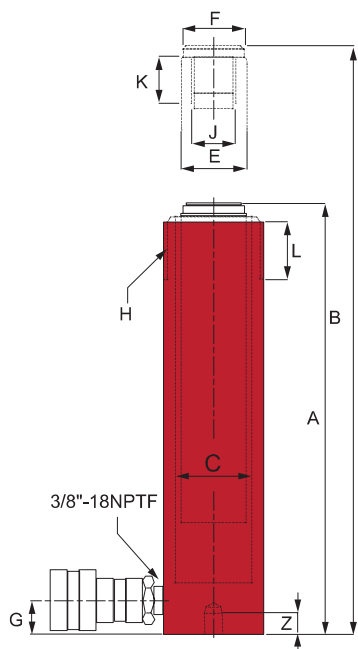
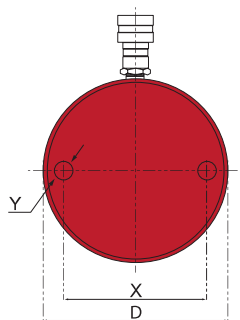
SDT05	→	H05 Cylinders
SDT10	→	H10 Cylinders
SDT15	→	H15 Cylinders
SDT25	→	H25 Cylinders
SDT55	→	H55, H75, H100 Cylinders

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# Single Acting Cylinders

## H Series - Spring Return



Cylinder Capacity	Stroke (mm)	Model Number	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cc)	Weight (kg)
5 Ton 44 kN	25	H0501	6.5	16	1.4
	78	H0503	6.5	50	1.5
	129	H0505	6.5	83	1.8
	180	H0507	6.5	116	2.1
	229	H0509	6.5	148	2.5
10 Ton 89 kN	25	H1001	14.5	36	1.8
	51	H1002	14.5	74	2.3
	102	H1004	14.5	147	3.5
	151	H1006	14.5	218	4.3
	202	H1008	14.5	292	5.1
	253	H1010	14.5	366	5.9
	304	H1012	14.5	439	6.8
15 Ton 133 kN	25	H1501	20.3	50	3.1
	51	H1502	20.3	103	3.9
	101	H1504	20.3	205	5.0
	152	H1506	20.3	308	6.7
	203	H1508	20.3	411	7.8
	254	H1510	20.3	515	9.1
	305	H1512	20.3	618	10.2
	356	H1514	20.3	721	11.4
25 Ton 222 kN	26	H2501	33.2	86	5.5
	51	H2502	33.2	170	6.4
	102	H2504	33.2	339	8.2
	155	H2506	33.2	515	10.1
	206	H2508	33.2	684	11.9
	257	H2510	33.2	854	13.7
	310	H2512	33.2	1030	15.6
	362	H2514	33.2	1203	17.4
30 Ton 267 kN	210	H3008	41.9	879	18.5
55 Ton 489 kN	51	H5502	70.8	360	15.0
	103	H5504	70.8	730	18.6
	159	H5506*	70.8	1126	26.1
	260	H5510*	70.8	1844	30.6
	337	H5513*	70.8	2388	39.5
75 Ton 667 kN	156	H7506*	103.9	1620	33.6
	333	H7513*	103.9	3459	55.3
100 Ton 890 kN	51	H10002*	132.8	677	29.9
	168	H10006*	132.8	2229	57.6
	260	H10010*	132.8	3453	69.4

\* Cylinder is equipped with carrying handle.

Model Number	Collapsed Height A (mm)	Extended Height B (mm)	Cylinder Bore C (mm)	Outside Dia. D (mm)	Plunger Dia. E (mm)	Saddle Dia. F (mm)	Base to Inlet Port G (mm)	Collar Thread H (mm)	Collar Thread Length L (mm)	Plunger Internal Thread J (mm)	Plunger Thread Length K (mm)	Base Mounting Hole (mm)		
												Bolt Circle X	Thread Y	Thread Depth Z
H0501	116	142	29	38	25	25	20	1½"-16	28	¾"-16UNF	16	25	¼"-20UNC	14
H0503	169	247	29	38	25	25	20	1½"-16	28	¾"-16UNF	16	25	¼"-20UNC	14
H0505	221	350	29	38	25	25	20	1½"-16	28	¾"-16UNF	16	25	¼"-20UNC	14
H0507	272	452	29	38	25	25	20	1½"-16	28	¾"-16UNF	16	25	¼"-20UNC	14
H0509	324	552	28	38	25	25	20	1½"-16	28	¾"-16UNF	16	25	¼"-20UNC	14
H1001	92	117	43	57	38	-	20	2¼"-14	30	-	6	40	"-18UNC	14
H1002	123	174	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1004	174	276	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1006	250	401	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1008	301	503	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1010	352	605	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1012	403	707	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1014	450	806	43	57	38	35	20	2¼"-14	30	1"-8UNC	20	40	"-18UNC	14
H1501	124	149	51	70	41	38	20	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1502	149	200	51	70	41	38	20	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1504	200	301	51	70	41	38	20	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1506	270	422	51	70	41	38	25	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1508	321	524	51	70	41	38	25	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1510	372	626	51	70	41	38	25	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1512	423	728	51	70	41	38	25	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H1514	474	830	51	70	41	38	25	2¾"-16	30	1"-8UNC	25	48	⅜"-16UNC	13
H2501	143	169	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2502	168	219	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2504	219	321	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2506	272	427	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2508	323	529	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2510	374	631	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2512	426	736	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H2514	476	838	65	85	57	50	25	3"-12	49	1½"-16	30	59	½"-13UNC	19
H3008	387	597	73	102	57	50	50	3"-12	49	1½"-16	30	56	-	-
H5502	176	227	95	127	80	70	31	5"-12	55	-	-	95	½"-13UNC	19
H5504	227	330	95	127	80	70	31	5"-12	55	-	-	95	½"-13UNC	19
H5506*	283	442	95	127	80	70	31	5"-12	55	-	-	95	½"-13UNC	19
H5510*	385	645	95	127	80	70	31	5"-12	55	-	-	95	½"-13UNC	19
H5513*	461	798	95	127	80	70	31	5"-12	55	-	-	95	½"-13UNC	19
H7506*	285	466	115	147	95	70	30	5¾"-12	45	-	-	100	¾"-10UNC	22
H7513*	492	825	115	147	95	70	30	5¾"-12	45	-	-	100	¾"-10UNC	22
H10002*	219	270	130	159	105	70	38	6¼"-12	55	-	-	120	¾"-10UNC	25
H10006*	357	525	130	159	105	70	40	6¼"-12	45	-	-	140	¾"-10UNC	25
H10010*	449	709	130	159	105	70	40	6¼"-12	45	-	-	140	¾"-10UNC	25

\* Cylinder is equipped with carrying handle.



## Double Acting Cylinders

HD Series - General Purpose



**Capacity:**

10 - 100 Tons

**Stroke:**

155 - 461 mm

**Pressure:**

700 BAR

**Min. - Max. Height:**

331 - 1269 mm



HD10006

HD3008

- Plunger wiper seals out dirt and contamination
- High strength steel construction from gun drilled solid bar
- High flow 3/8" NPTF female couplers
- One piece high grade alloy bearing for side load protection and long life
- Ideal for pushing and pulling
- Maximum working pressure: 10,000 psi / 700 bar
- Threaded cylinders, removable saddle, thicker cylinder walls
- Retract under hydraulic power for faster operation



**Safety Practices**

Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.



HD cylinders can be used in pushing and pulling applications. In this photo, we see a HD2506 HD cylinder set up for a pull application using a Plunger Clevis cylinder accessory



With a variety of tonnage and sizes, you can apply our cylinders on a large variety of applications. Custom tonnages and stroke lengths are available upon request.



## HD Series

### HDU Series – Aluminum Cylinders



Aluminum cylinders make a great lightweight alternative being up to 60% lighter than comparable steel models.

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### Cylinder Accessories



See the assortment of accessories designed to work with our products.

pg 40

### Combo Kits



Most cylinders are available in easy to order kits: Cylinder, Gauge, Couplers, Hose and Pump.

pg 60

### Related Product: Gauges



Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need.

pg 65

### Safety Instructions



Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared.

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### High-Flow Couplers



High-Flow Coupler: CH38F is included on all models (except where specified).

### Relief Valve



All double acting cylinders are equipped with a pressure relief valve located next to the retract port. These pressure relief valves help prevent cylinder over pressurization on the return port side of the cylinder.

## Quick Selection Guide

Cylinder Capacity	Stroke (mm)	Model Number	Collapsed Height (mm)	Oil Capacity		Weight (kg)
				Push (cc)	Pull (cc)	
10 Ton 89 kN	255	HD1010	409	367	122	12.1
	304	HD1012	458	438	146	13.6
30 Ton 267 kN	207	HD3008	389	867	426	19.5
	368	HD3014	550	1542	758	27.5
55 Ton 489 kN	157	HD5506*	331	1113	323	32.0
	335	HD5513*	509	2375	690	47.2
	511	HD5520*	733	3623	1053	66.3
75 Ton 667 kN	155	HD7506*	348	1608	511	42.5
	333	HD7513*	526	3457	1099	62.1
100 Ton 890 kN	167	HD10006*	357	2216	1032	62.9
	257	HD10010*	449	3413	1591	76.7
	333	HD10013*	524	4419	2058	87.8
	461	HD10018*	687	6117	2849	112.6

\* Are equipped with carrying handles.



# Double Acting Cylinders


## HD Series - General Purpose



**Cylinder Accessories**  
See the assortment of accessories designed to work with our products. pg 40



**Related Product: Gauges**  
Reduce the risk of overloading your product by using a gauge. A variety of graduations and types to suit any need. pg 65



**Combo Kits**  
Most cylinders are available in easy to order kits: Cylinder, Gauge, Couplers, Hose and Pump. pg 60



**Safety Instructions**  
Visit our DO'S and DON'TS section to review the best methods of operation. Always be prepared. pg 102



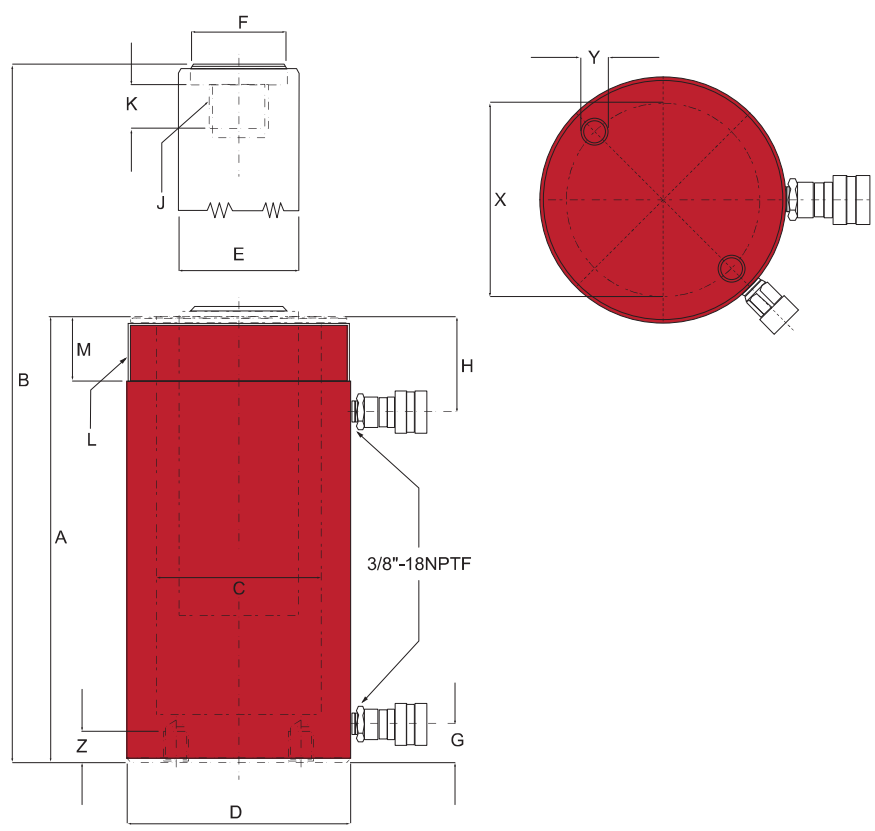
HD10018

HD10006

HD3008

Cylinder Capacity	Stroke (mm)	Model Number	Maximum Cylinder Capacity		Cylinder Effective Area		Oil Capacity		Weight (kg)	Collapsed Height A (mm)	Extended Height B (mm)	Cylinder Bore Dia. C (mm)
			Push (ton)	Pull (ton)	Push (cm <sup>2</sup> )	Pull (cm <sup>2</sup> )	Push (cc)	Pull (cc)				
10 Ton 89 kN	255	HD1010	11.4	3.8	14.5	4.8	367	122	12.1	409	665	43
	304	HD1012	11.4	3.8	14.5	4.8	438	146	13.6	458	762	43
30 Ton 267 kN	207	HD3008	32.9	16.2	41.9	20.6	867	426	19.5	389	596	73
	368	HD3014	32.9	16.2	41.9	20.6	1542	758	27.5	550	918	73
55 Ton 489 kN	157	HD5506*	55.7	16.2	70.9	20.6	1113	323	32.0	331	488	95
	335	HD5513*	55.7	16.2	70.9	20.6	2375	690	47.2	509	844	95
	511	HD5520*	55.7	16.2	70.9	20.6	3623	1053	66.3	733	1269	95
75 Ton 667 kN	155	HD7506*	81.7	25.9	103.8	33	1608	511	42.5	348	503	115
	333	HD7513*	81.7	25.9	103.8	33	3457	1099	62.1	526	859	115
100 Ton 890 kN	167	HD10006*	104.4	48.6	132.7	61.8	2216	1032	62.9	357	524	130
	257	HD10010*	104.4	48.6	132.7	61.8	3413	1591	76.7	449	706	130
	333	HD10013*	104.4	48.6	132.7	61.8	4419	2058	87.8	524	857	130
	461	HD10018*	104.4	48.6	132.7	61.8	6117	2849	112.6	687	1148	130

\* Are equipped with carrying handles.

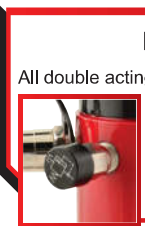


**HD Series**



**Safety Practices**

Good industry practice recommends not exceeding 80% of maximum rated capacities of all our products.



**Relief Valve**

All double acting cylinders are equipped with a pressure relief valve located next to the retract port. These pressure relief valves help prevent cylinder over pressurization on the return port side of the cylinder.



**High-Flow Couplers**

High-Flow Coupler: CH38F is included on all models (except where specified).

Model Number	Outside Dia. D (mm)	Plunger Dia. E (mm)	Saddle Dia. F (mm)	Base to Adv. Port G (mm)	Top to Return Port H (mm)	Plunger Internal Thread J (mm)	Plunger Thread Length K (mm)	Collar Thread L (mm)	Collar Thread Length M (mm)	Base Mounting Hole		
										Bolt Circle X (mm)	Thread Y (mm)	Thread Depth Z (mm)
HD1010	73	35	35	36	53	1"-8	25	2 1/4"-14	26	33	5/16"-18	15
HD1012	73	35	35	36	53	1"-8	25	2 1/4"-14	26	33	5/16"-18	15
HD3008	101	54	50	42	74	1 1/2"-16	25	3"-12	49	56	1/2"-13	18
HD3014	101	54	50	42	74	1 1/2"-16	25	3"-12	49	56	1/2"-13	18
HD5506*	127	80	70	29	73	1"-12	25	5"-12	44	94	1/2"-13UNC	18
HD5513*	127	80	70	29	73	1"-12	25	5"-12	44	94	1/2"-13UNC	18
HD5520*	127	80	70	29	73	1"-12	25	5"-12	44	94	1/2"-13UNC	18
HD7506*	146	95	70	30	71	1"-12	38	5 3/4"-12	38	102	3/4"-10UNC	23
HD7513*	146	95	70	30	71	1"-12	38	5 3/4"-12	38	102	3/4"-10UNC	23
HD10006*	177	95	75	31	75	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10UNC	25
HD10010*	177	95	75	31	75	1 3/4"-12	38	6 7/8"-12	51	140	3/4"-10UNC	25
HD10013*	177	95	75	31	75	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10UNC	25
HD10018*	177	95	75	38	75	1 3/4"-12	35	6 7/8"-12	50	139	3/4"-10UNC	25

\* Are equipped with carrying handles.