BVA HYDRAULICS | BUILT TO LAST

Double Acting Cylinders

HD Series - General Purpose



HD3008



Capacity:

10 - 100 Tons

Stroke:

155 - 461 mm

Pressure:

700 BAR

Min. - Max. Height:

331 - 1269 mm



- 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
- Retract under hydraulic power for faster operation



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.



Cylinder Accessories

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

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Combo Kits

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



Related Product: Gauges

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



Safety Instructions

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



High-Flow Couplers

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



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	Collapsed	Oil Cap	Weight	
		Number	Height (mm)	Push (cc)	Pull (cc)	(kg)
10 Ton	255	HD1010	409	367	122	12.1
89 kN	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	155	HD7506*	348	1608	511	42.5
667 kN	333	HD7513*	526	3457	1099	62.1
	167	HD10006*	357	2216	1032	62.9
100 Ton	257	HD10010*	449	3413	1591	76.7
890 kN	333	HD10013*	524	4419	2058	87.8
	461	HD10018*	687	6117	2849	112.6

^{*} Are equipped with carrying handles.



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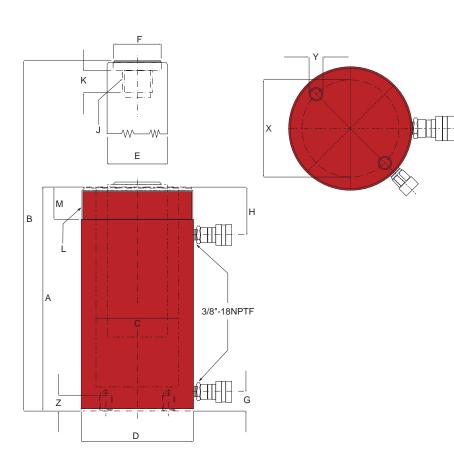
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HD3008

Cylinder Capacity	Stroke (mm)	Model Number	Maximum Cylinder Capacity		Cylinder Effective Area		Oil Capacity		Weight	Collapsed Height	Extended Height	Cylinder Bore Dia.
			Push (ton)	Pull (ton)	Push (cm²)	Pull (cm²)	Push (cc)	Pull (cc)	(kg)	A (mm)	B (mm)	C (mm)
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
	157	HD5506*	55.7	16.2	70.9	20.6	1113	323	32.0	331	488	95
55 Ton 489 kN	335	HD5513*	55.7	16.2	70.9	20.6	2375	690	47.2	509	844	95
403 KIV	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	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
890 kN	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

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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 Inlet Port G (mm)	Top to Return Port H (mm)	Plunger Internal Thread J	Plunger Thread Length K (mm)	Collar Thread L	Collar Thread Length M (mm)	Base Mounting Hole		
										Bolt Circle X (mm)	Thread Y	Thread Depth Z (mm)
HD1010	73	35	35	36	53	1"-8UNC	25	2¼"-14UN	26	33	5/16"-18UNC	15
HD1012	73	35	35	36	53	1"-8UNC	25	2¼"-14UN	26	33	5/16"-18UNC	15
HD3008	101	54	50	42	74	1½"-16UN	25	35/ ₁₆ "-12UN	49	56	½"-13UNC	18
HD3014	101	54	50	42	74	1½"-16UN	25	35/, "-12UN	49	56	½"-13UNC	18
HD5506*	127	80	70	29	73	1"-12UNF	25	5"-12UN	44	94	½"-13UNC	18
HD5513*	127	80	70	29	73	1"-12UNF	25	5"-12UN	44	94	½"-13UNC	18
HD5520*	127	80	70	29	73	1"-12UNF	25	5"-12UN	44	94	½"-13UNC	18
HD7506*	146	95	70	30	71	1"-12UNF	38	5¾"-12UN	38	102	3/4"-10UNC	23
HD7513*	146	95	70	30	71	1"-12UNF	38	5¾"-12UN	38	102	3/4"-10UNC	23
HD10006*	177	95	75	31	75	1¾"-12UN	35	6%"-12N	50	139	3/4"-10UNC	25
HD10010*	177	95	75	31	75	1¾"-12UN	38	67/8"-12N	51	140	3/4"-10UNC	25
HD10013*	177	95	75	31	75	1¾"-12UN	35	6%"-12UN	50	139	3/4"-10UNC	25
HD10018*	177	95	75	38	75	1¾"-12UN	35	6%"-12UN	50	139	3/4"-10UNC	25

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