

Quick Reference Guide

Cylinder Capacity (tons)	Stroke (in)	Model Number	Collapsed Height (in)	Oil Capacity (in³)	Weight (lbs)
100	1.97	HDG10002	7.17	40.50	61.0
	3.94	HDG10004	9.13	81.00	74.0
	5.91	HDG10006	11.10	121.50	87.0
	7.87	HDG10008	13.07	161.99	100.0
	9.84	HDG10010	15.04	202.49	114.0
	11.81	HDG10012	17.01	242.99	127.0
150	1.97	HDG15002	7.72	59.89	102.0
	3.94	HDG15004	9.69	119.78	122.0
	5.91	HDG15006	11.65	181.75	142.0
	7.87	HDG15008	13.62	239.57	162.0
	9.84	HDG15010	15.59	299.46	181.0
	11.81	HDG15012	17.56	359.35	202.0
200	1.97	HDG20002	8.50	80.68	121.0
	5.91	HDG20006	12.44	243.40	201.0
	7.87	HDG20008	14.41	322.73	242.0
	11.81	HDG20012	18.35	486.79	322.0
300	1.97	HDG30002	12.28	139.19	406.0
	5.91	HDG30006	16.22	417.56	511.0
	11.81	HDG30012	22.13	835.11	668.0
400	1.97	HDG40002	14.74	170.84	595.0
	5.91	HDG40006	18.68	512.51	728.0
	12.01	HDG40012	24.61	1042.10	928.0
500	1.97	HDG50002	16.50	222.92	884.0
	5.91	HDG50006	20.43	668.77	1058.0
	11.81	HDG50012	26.34	1337.56	1321.0
600	1.97	HDG60002	16.89	260.97	1045.0
	5.91	HDG60006	20.83	782.90	1246.0
	9.84	HDG60010	19.88	1408.93	948.0
	11.81	HDG60012	26.73	1566.00	1545.0
800	1.97	HDG80002	18.66	358.91	1634.0
	5.91	HDG80006	22.60	1077.00	1914.0
	11.81	HDG80012	28.50	2153.00	2332.0
1000	1.97	HDG100002	22.20	447.23	2341.0
	5.91	HDG100006	26.14	1342.00	2674.0
	11.81	HDG100012	32.05	2683.00	3172.0
1100-1500	For these higher tonnages, contact your local BVA dealer for pricing and details				

See next pages (pg.20-21) to view more detail stats on High Tonnage Single Acting Cylinders.



HDG Series



Safety Practices

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

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 69



High-Flow Couplers

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

Safety Check: CVP3-K



Pilot operated check valve kit. Used to hold the load in the event of a pressure loss in the system.

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.



Optional Tilt-Saddles



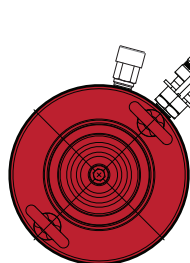
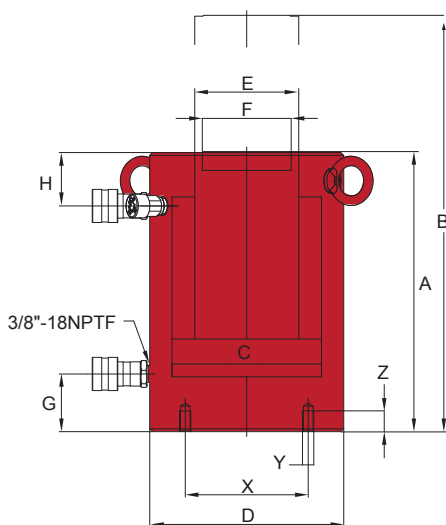
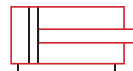
Saddles tilt to a 5% maximum to adjust to the load. View our cylinder accessories page to figure out what saddle best fits these cylinders.

pg 35

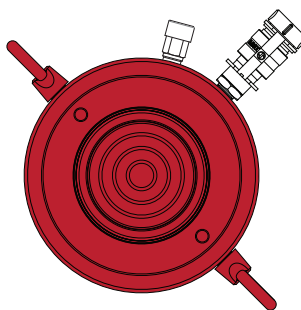


High Tonnage Double Acting Cylinders

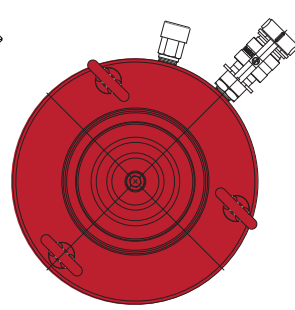
HDG Series - Heavy Lifting



HDG100



HDG150



HDG200

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.



Safety Instructions

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



pg 92

Related Product: CVP3-K

Pilot operated check valve kit. Used to hold the load in the event of a pressure loss in the system.



High-Flow Couplers

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



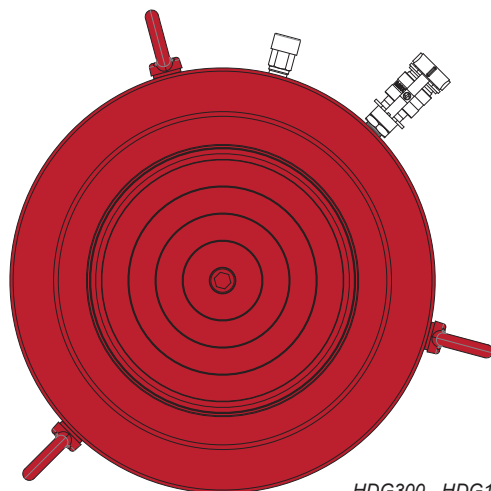
Optional Tilt-Saddles

Saddles tilt to a 5% maximum to adjust to the load. View our cylinder accessories page to figure out what saddle best fits these cylinders.



pg 35

Cylinder Capacity (tons)	Stroke (in)	Model Number	Maximum Cylinder Capacity (ton)		Cylinder Effective Area (in²)		Oil Capacity (in³)		Weight (lbs)
			Push	Pull	Push	Pull	Push	Pull	
100	1.97	HDG10002	102.86	47.93	20.57	9.59	40.50	18.87	61.0
	3.94	HDG10004	102.86	47.93	20.57	9.59	81.00	37.74	74.0
	5.91	HDG10006	102.86	47.93	20.57	9.59	121.50	56.61	87.0
	7.87	HDG10008	102.86	47.93	20.57	9.59	161.99	75.49	100.0
	9.84	HDG10010	102.86	47.93	20.57	9.59	202.49	94.36	114.0
	11.81	HDG10012	102.86	47.93	20.57	9.59	242.99	113.23	127.0
150	1.97	HDG15002	152.15	78.50	30.43	15.70	59.89	30.90	102.0
	3.94	HDG15004	152.15	78.50	30.43	15.70	119.78	61.79	122.0
	5.91	HDG15006	152.15	78.50	30.43	15.70	181.75	88.32	142.0
	7.87	HDG15008	152.15	78.50	30.43	15.70	239.57	123.59	162.0
	9.84	HDG15010	152.15	78.50	30.43	15.70	299.46	154.48	181.0
	11.81	HDG15012	152.15	78.50	30.43	15.70	359.35	185.38	202.0
200	1.97	HDG20002	204.95	94.00	40.99	18.80	80.68	37.01	121.0
	5.91	HDG20006	204.95	94.00	40.99	18.80	243.40	116.23	201.0
	7.87	HDG20008	204.95	94.00	40.99	18.80	322.73	148.03	242.0
	11.81	HDG20012	204.95	94.00	40.99	18.80	486.79	232.46	322.0
300	1.97	HDG30002	353.60	117.00	70.71	23.46	139.19	46.18	406.0
	5.91	HDG30006	353.60	117.00	70.71	23.46	417.56	138.55	511.0
	11.81	HDG30012	353.60	117.00	70.71	23.46	835.11	277.10	668.0
400	1.97	HDG40002	433.90	152.55	86.78	30.51	170.84	59.03	595.0
	5.91	HDG40006	433.90	152.55	86.78	30.51	512.51	177.09	728.0
	12.01	HDG40012	433.90	152.55	86.78	30.51	1042.10	366.38	928.0
500	1.97	HDG50002	566.30	192.00	113.25	38.37	222.92	75.54	884.0
	5.91	HDG50006	566.30	192.00	113.25	38.37	668.77	226.61	1058.0
	11.81	HDG50012	566.30	192.00	113.25	38.37	1337.56	453.23	1321.0
600	1.97	HDG60002	662.90	229.00	132.57	45.79	260.97	90.13	1045.0
	5.91	HDG60006	662.90	229.00	132.57	45.79	782.90	270.39	1246.0
	9.84	HDG60010	670.90	352.85	134.18	70.57	1408.93	740.94	948.0
	11.81	HDG60012	662.90	229.00	132.57	45.79	1566.00	540.79	1545.0
800	1.97	HDG80002	911.60	300.00	182.32	59.99	358.91	118.09	1634.0
	5.91	HDG80006	911.60	300.00	182.32	59.99	1077.00	354.28	1914.0
	11.81	HDG80012	911.60	300.00	182.32	59.99	2153.00	708.57	2332.0
1000	1.97	HDG100002	1136.00	420.00	227.19	83.97	447.23	165.29	2341.0
	5.91	HDG100006	1136.00	420.00	227.19	83.97	1342.00	495.87	2674.0
	11.81	HDG100012	1136.00	420.00	227.19	83.97	2683.00	991.75	3172.0



HDG300 - HDG1000



HDG Series



Safety Practices

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

Model Number	Collapsed Height A (in)	Extended Height B (in)	Cylinder Bore Dia. C (in)	Outside Dia. D (in)	Rod Dia. E (in)	Saddle Dia. F (in)	Base To Adv. Port G (in)	Top To Retract Port H (in)	Base Mounting Holes		
									Bolt Circle X (in)	Thread Size (mm)	Thread Depth Z (in)
HDG10002	7.17	9.14	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG10004	9.13	13.07	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG10006	11.10	17.01	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG10008	13.07	20.94	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG10010	15.04	24.88	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG10012	17.01	28.82	5.12	6.50	3.74	2.95	2.13	1.89	3.74	M12	0.87
HDG15002	7.72	9.69	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG15004	9.69	13.62	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG15006	11.65	17.56	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG15008	13.62	21.50	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG15010	15.59	25.43	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG15012	17.56	29.37	6.22	8.07	4.33	3.70	2.40	2.22	5.12	M12	0.87
HDG20002	8.50	10.47	7.22	9.25	5.31	4.45	2.62	2.22	6.50	M12	0.80
HDG20006	12.44	18.35	7.24	9.25	5.31	4.45	2.62	2.22	6.50	M12	0.80
HDG20008	14.41	22.28	7.22	9.25	5.31	4.45	2.62	2.22	6.50	M12	0.80
HDG20012	18.35	30.16	7.24	9.25	5.31	4.45	2.62	2.22	6.50	M12	0.80
HDG30002	12.28	14.25	9.49	12.20	7.76	6.97	3.98	2.95	7.09	M16	1.42
HDG30006	16.22	22.13	9.49	12.20	7.76	6.97	3.98	2.95	7.09	M16	1.42
HDG30012	22.13	33.94	9.49	12.20	7.76	6.97	3.98	2.95	7.09	M16	1.42
HDG40002	14.74	16.71	10.51	13.78	8.50	7.72	4.49	4.13	8.07	M16	1.42
HDG40006	18.68	24.59	10.51	13.78	8.50	7.72	4.49	4.13	8.07	M16	1.42
HDG40012	24.59	36.40	10.51	13.78	8.50	7.72	4.49	4.13	8.07	M16	1.42
HDG50002	16.50	18.46	12.01	15.75	9.76	8.98	4.49	5.31	9.84	M24	1.50
HDG50006	20.43	26.34	12.01	15.75	9.76	8.98	4.49	5.31	9.84	M24	1.50
HDG50012	26.34	38.15	12.01	15.75	9.76	8.98	4.49	5.31	9.84	M24	1.50
HDG60002	16.89	18.86	12.99	16.93	10.51	9.72	4.49	5.31	10.83	M24	1.50
HDG60006	20.83	26.73	12.99	16.93	10.51	9.72	4.49	5.31	10.83	M24	1.50
HDG60010	18.00	28.50	13.07	17.05	9.00	7.87	4.49	5.31	10.83	M24	1.50
HDG60012	26.73	38.54	12.99	16.93	10.51	9.72	4.49	5.31	10.83	M24	1.50
HDG80002	18.66	20.63	15.24	19.88	12.48	11.69	5.87	5.31	12.99	M24	1.50
HDG80006	22.60	28.50	15.24	19.88	12.48	11.69	5.87	5.31	12.99	M24	1.50
HDG80012	28.50	40.31	15.24	19.88	12.48	11.69	5.87	5.31	12.99	M24	1.50
HDG100002	22.20	24.17	17.01	22.05	13.50	12.72	6.85	6.69	14.76	M24	1.50
HDG100006	26.14	32.05	17.01	22.05	13.50	12.72	6.85	6.69	14.76	M24	1.50
HDG100012	32.05	43.86	17.01	22.05	13.50	12.72	6.85	6.69	14.76	M24	1.50