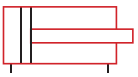
Aluminum Double Acting Cylinders

HUD Series - General Purpose, Lightweight

HUD15006

HUD7513



Capacity:

30 - 150 Tons

Stroke:

2 - 13 Inches

Max. Operating Pressure:

10,000 psi

Min. - Max. Height:

8.30 - 33.80 Inches

Aluminum vs. Steel Cylinders

Aluminum cylinders provide a great alternative to the traditional steel cylinder in multiple applications. Being up to 60% lighter in weight, Aluminum cylinders are highly portable and reduce user fatigue and strain. However, due to the finite properties of Aluminum vs. Steel, these cylinders should NOT be used in high cycle applications. The BVA Aluminum cylinders are designed for a maximum safety rating of 5,000 cycles. Under normal lifting applications this should provide a long service life.

HUD7513

HD7513

Aluminum Cylinders

- 60% lighter in weight than steel
- Highly portable and reduces user fatigue
- Not used for high cycle applications
- Under normal conditions, the maximum rated safety cycle life is 5,000 cycles
- Base of the cylinder contains a steel plate*

Steel Cylinders

- Much heavier than aluminum cylinders
- Low portability with heavier cylinders which creates user fatigue and strain
- Will out-perform aluminum cylinders in higher cycle applications
- Can exceed aluminums maximum safety cycle life of 5,000 cycles.

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Cylinder Capacity (tons)	Stroke (in)	Model Number	Maximum Cylinder Capacity (ton)		Cylinder Effective Area (in^2)		Oil Capacity (in^3)		Weight (lbs)
			Push	Pull	Push	Pull	Push	Pull	
30	6.00	HUD3006	30.00	12.57	6.50	2.50	39.00	15.00	18.0
	8.00	HUD3008	30.00	12.57	6.50	2.50	51.90	18.00	26.0
	13.00	HUD3013	30.00	12.57	6.00	2.50	90.90	32.41	35.0
50	6.00	HUD5006	50.00	13.50	10.30	2.70	61.80	16.00	28.0
	8.00	HUD5008	50.00	13.50	10.30	2.70	88.30	22.00	36.0
	13.00	HUD5013	50.00	13.58	10.30	2.70	143.50	35.80	48.0
75	6.00	HUD7506	75.00	27.00	15.00	5.41	90.20	19.40	41.0
	8.00	HUD7508	75.00	27.00	15.00	5.41	121.00	43.30	50.0
	13.00	HUD7513	75.00	27.00	15.00	5.41	195.40	70.40	62.0
100	2.00	HUD10002	100.00	23.75	20.60	4.75	41.20	9.40	42.0
	6.00	HUD10006	100.00	23.75	20.60	4.75	123.70	28.30	57.0
	13.00	HUD10013	100.00	23.75	20.60	4.75	268.10	61.40	90.0
150	6.00	HUD15006	100.00	34.60	30.70	6.90	184.10	41.40	87.0
	13.00	HUD15013	100.00	34.60	30.70	6.90	378.80	90.10	122.0

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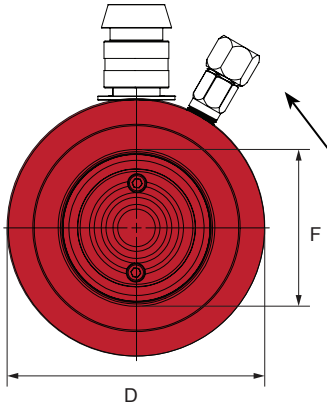
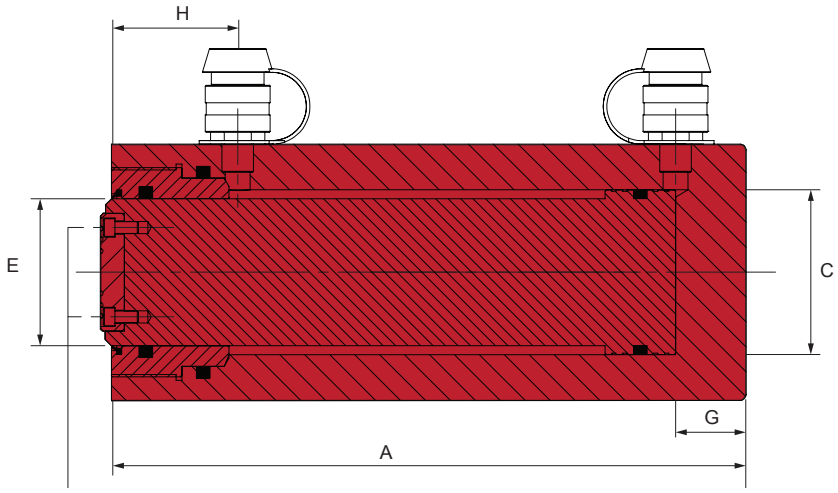
* The base of the cylinders contain a Steel plate with mounting holes and is designed to protect the cylinder from damage and should NOT be used in fixturing applications and ONLY be used to attach a larger base mounting plate for lifting stability. They are NOT designed to withstand the full rating of the cylinder.



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.



HUD Series

Safety Instructions

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

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Related Product: Gauges

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

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Safety Practices

80%

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

High-Flow Couplers

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

- Lightweight aluminum alloy construction
- Up to 60% lighter than comparable tonnage steel cylinders
- Convenient carry handle on 50, 75, 100 and 150 ton models
- Hard anodized aluminum rod provides extra protection against corrosion and wear
- Steel protective plate on cylinder base
- Maximum working pressure: 10,000 psi / 700 bar

Model Number	Collapsed Height A (in)	Extended Height B (in)	Cylinder Bore Dia. C (in)	Outside Diameter D (in)	Rod Dia. E (in)	Saddle Diameter F (in)	Base To Advance Port G (in)	Top To Retract Port H (in)
HUD3006	11.80	17.80	2.88	4.50	2.88	2.00	1.50	2.00
HUD3008	13.80	21.80	2.88	4.50	2.88	2.00	1.50	2.00
HUD3013	19.30	32.30	2.88	4.50	2.88	2.00	1.50	2.00
HUD5006	11.80	17.80	3.63	5.50	3.13	2.50	1.50	2.50
HUD5008	13.80	21.80	3.63	5.50	3.13	2.50	1.50	2.50
HUD5013	19.30	32.30	3.63	5.50	3.13	2.50	1.50	2.50
HUD7506	12.30	18.30	4.38	6.50	3.50	3.00	1.50	2.50
HUD7508	14.30	20.30	4.38	6.50	3.50	3.00	1.50	2.50
HUD7513	19.30	32.30	4.38	6.50	3.50	3.00	1.50	2.50
HUD10002	8.30	10.30	5.13	8.00	4.50	3.50	1.50	2.50
HUD10006	12.30	18.30	5.13	8.00	4.50	3.50	1.50	2.50
HUD10013	19.30	32.30	5.13	8.00	4.50	3.50	1.50	2.50
HUD15006	14.30	20.30	6.26	10.00	5.50	4.50	2.00	3.00
HUD15013	20.80	33.80	6.26	10.00	5.50	4.50	2.00	3.00

NOTE: The base of the aluminum cylinders contain a Steel plate with mounting holes and is designed to protect the cylinder from damage and should NOT be used in fixturing applications and ONLY be used to attach larger base mounting plates for lifting stability. The threads are NOT designed to withstand the full rating of the cylinder.