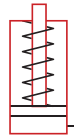




### Low Profile Cylinders

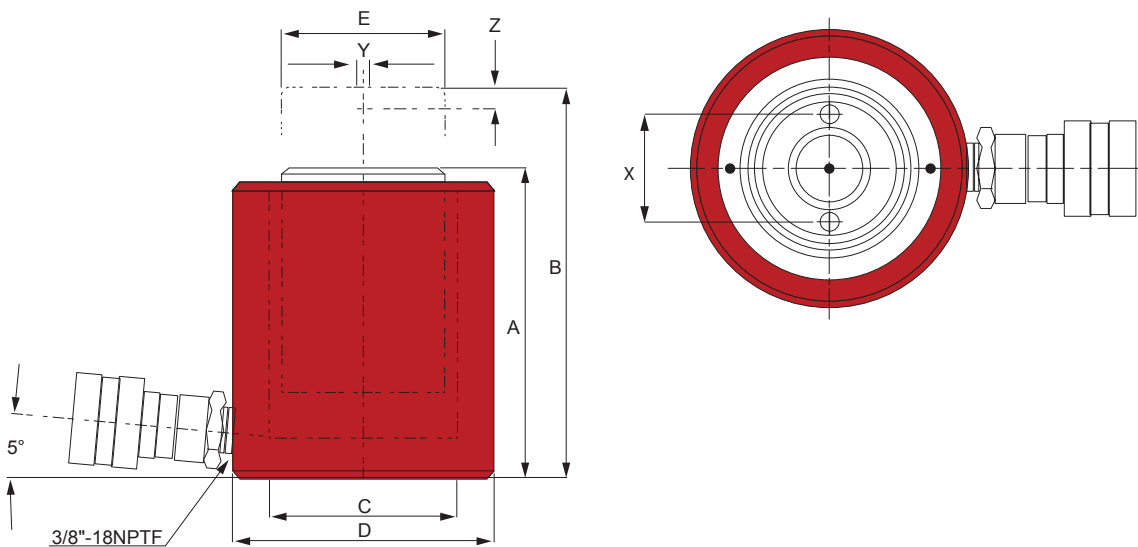
#### HL Series - Low Clearance Lifting



- Compact design for use in confined spaces
- Plunger wiper helps seal out dirt and contamination
- Specially designed return spring provides quick retraction and extends the life of the spring
- Hard chrome plated plunger helps prevent scratching and corrosion
- Plunger end is grooved to reduce load slippage
- Includes high flow coupler and dust cap
- HL1001, HL2002, and HL3002 coupler is tilted 5° for added clearance



#### HL Series



Cylinder Capacity	Stroke (mm)	Model Number	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cc)	Weight (kg)
10 Ton 89 kN	38	HL1001	15.2	58	2.6
20 Ton 178 kN	44	HL2002	28.2	125	5.0
30 Ton 267 kN	62	HL3002	41.9	260	6.8
50 Ton 445 kN	60	HL5002	63.7	382	9.9
100 Ton 890 kN	57	HL10002	126.7	722	20.6

Low profile cylinders are great for confined spaces.



Model Number	Collapsed Height A (mm)	Extended Height B (mm)	Cylinder Bore Diameter C (mm)	Outside Diameter D (mm)	Plunger Diameter E (mm)	Plunger Mounting		
						Bolt Circle X (mm)	Thread Y	Thread Depth Z (mm)
HL1001	88	126	44	70	38	26	M4	8
HL2002	99	144	60	92	51	40	M4	8
HL3002	117	179	73	102	64	40	M5	8
HL5002	122	182	90	124	70	40	M5	8
HL10002	141	198	127	165	90	56	M8	3

# Low Profile Cylinders Combo Kit

Low Clearance Lifting

Press truck wheel from nave with the mini-press. Fits between the chassis and wheel.



- Compact design for use in confined spaces
- Ideal for pushing applications
- Plunger wiper helps seal out dirt and contamination
- Return spring ensures a quick retraction and extends the life of the spring
- Industrial hard chrome plated plunger helps prevent scratching and corrosion
- Includes stackable 1", 2", and 3" aluminum adapters that conveniently snap into the base of the plunger
- Includes high flow CH38F coupler and dust cap
- Convenient storage case

## HL Series



### Safety Practices

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



### Related Product: Hoses

We offer a variety of hoses, fittings, lengths and materials.

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### High-Flow Couplers

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

Cylinder Capacity	Model Number	Stroke (mm)	Cylinder Effective Area (cm <sup>2</sup> )	Collapsed Height (mm)	Extended Height w/o adapter (mm)	Internal Pressure at Capacity (BAR)	Cylinder Housing Diameter (mm)	Plunger Diameter (mm)	Weight (kg)
10 Ton 89 kN	HL-1001-D	38	15.16	88	126	0.59	70	38	4.5

## Bolt-On Tilt Saddles



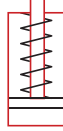
Bolt-On tilt saddles are designed specifically for use with the HL Series Low Profile Cylinders and Low Profile Cylinder Kit. These saddles provide a max. 5° tilt for uneven loads.

Model Number	Height (mm)	Description
SDTL10	21	HL1001 Cylinder Kit
SDTL50	29	HL2002/HL3002/HL 5002 Cylinder
SDTL100	35	HL10002 Cylinder

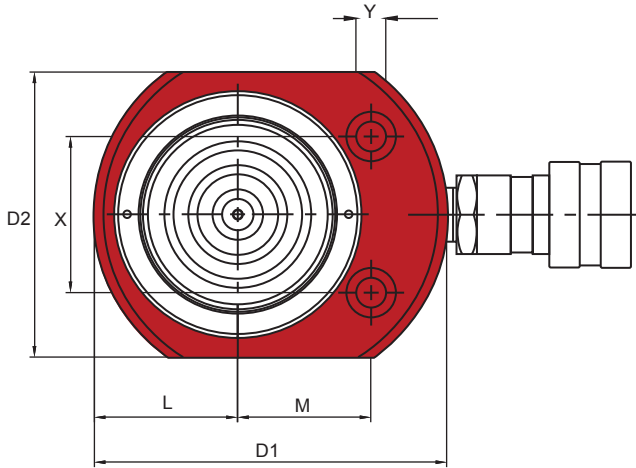


## Flat Body Cylinders

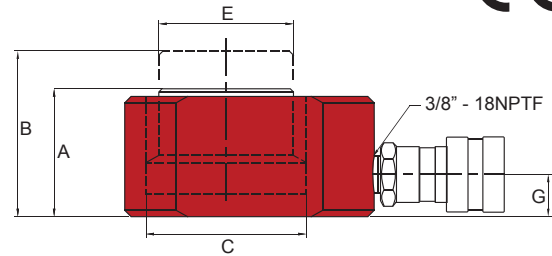
### Extremely Low Lifting



- Extremely low collapsed height for applications with minimal clearance at the lift point
- Maximum working pressure 10,000 psi / 700 bar
- HF0503 and HF0503B include a 3/8" regular flow coupler (CR38F)



### HF Series



HF5006 in the collapsed position ready to lift a load with a PA1500 foot pump.



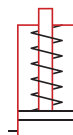
Cylinder Capacity	Stroke (mm)	Model Number	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cc)	Weight (kg)
5 Ton / 44 kN	16	HF0500	7.1	11	0.9
5 Ton / 44 kN	6	HF0503*	7.1	4	0.6
10 Ton / 89 kN	11	HF1005	15.2	17	1.5
20 Ton / 178 kN	11	HF2005	28.3	31	2.7
30 Ton / 267 kN	13	HF3005	41.9	54	4.4
50 Ton / 445 kN	16	HF5006	63.6	102	6.8
75 Ton / 667 kN	16	HF7506	103.9	166	11.5
100 Ton / 890 kN	16	HF10006	126.7	203	14.3
150 Ton / 1495 kN	16	HF15006	197.9	316	24.2

Model Number	Collapsed Height A (mm)	Extended Height B (mm)	Cylinder Bore Dia. C (mm)	Outside Dia. D1 x D2 D (mm)	Plunger Dia. E (mm)	Base to Inlet Port G (mm)	Plunger to Base L (mm)	Plunger to Mtg. Hole M (mm)	Hole Pitch X (mm)	Hole Dia. Y (mm)	Counter Bore Dia. (mm)	Counter Bore Depth (mm)
HF0500	41	57	30	60x40	25	19	20	22	28	5	10	6
HF0503*	32	38	30	61x41	25	18	20	22	28	5	8	4
HF1005	43	54	44	84x56	38	20	28	34	37	7	11	8
HF2005	51	62	60	102x76	51	19	39	40	49	10	15	10
HF3005	59	72	73	117x97	64	20	48	44	52	10	16	11
HF5006	67	83	90	114x114	70	20	57	54	67	11	19	13
HF7506	80	96	115	165x140	90	20	70	67	76	13	21	14
HF10006	86	102	127	178x152	90	20	76	75	76	13	21	14
HF15006	100	116	159	216x191	118	24	3.75	95	117	13	21	14

\*HF0503 is fitted with the CR38F coupler instead of CH38F

# Flat Body Cylinder Kits

HF Series - Kits

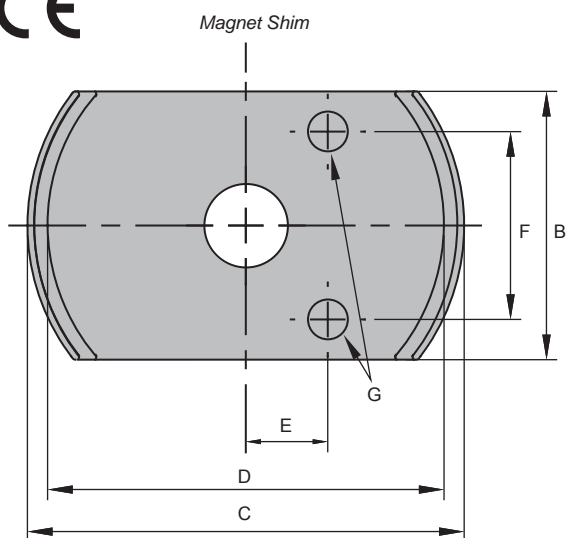


- Various height stackable magnetic adapters eliminate dangerous cribbing
- Convenient carrying case
- Magnetic adapters are stackable
- U.S. Patent No.7,237,762 B2

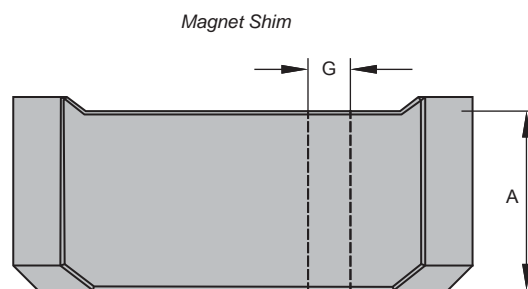
HF Series

**80%**

**Safety Practices**  
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)



Cylinder Capacity	Stroke (mm)	Model Number	Cylinder Model	Oil Capacity (cc)	Collapsed Height (mm)	Weight (kg)	Adapter Dimensions						
							A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
5 Ton 44 kN	6	HF0503B**	HF0503	4	32	2.5	4	41	65	59	12	28	6
							11	41	65	59	12	28	6
							23	41	65	59	12	28	6
							30	41	65	59	12	28	6
10 Ton 89 kN	11	HF1005B	HF1005	17	43	4.2	10	56	90	82	21	37	7
							20	56	90	82	-	-	-
							40	56	90	82	-	-	-
20 Ton 178 kN	11	HF2005B	HF2005	31	51	6.8	10	76	108	100	27	49	10
							20	76	108	100	-	-	-
							40	76	108	100	-	-	-
30 Ton 267 kN	13	HF3005B	HF3005	54	59	9.5	10	95	121	113	34	52	10
							20	95	121	113	-	-	-
							40	95	121	113	-	-	-
50 Ton 445 kN	16	HF5006B	HF5006	102	67	14.7	10	114	150	141	41	67	11
							20	114	150	141	-	-	-
							40	114	150	141	-	-	-

\*\*HF0503B is fitted with the coupler CR38F