

# FLAT BODY CYLINDERS

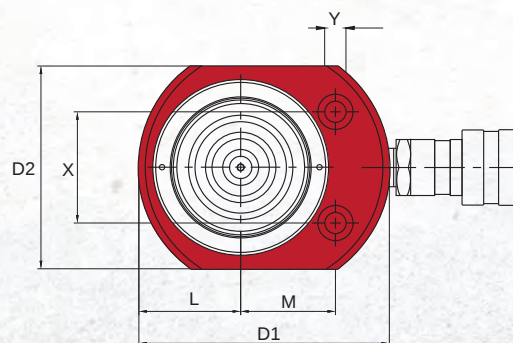
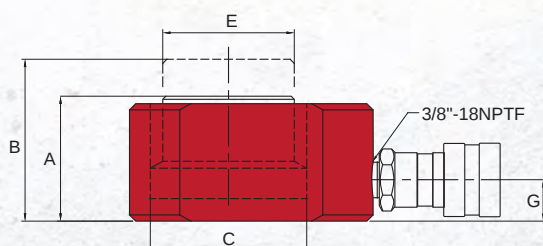
- Made of high quality steel
- Extremely low collapsed height for applications with minimal clearance at the lift point
- Maximum working pressure 10,000 psi / 700 bar
- HF0503 and HF0503B come with 3/8" regular flow coupler



**High-Flow Coupler:CH38F  
Included on all models**

\*except HF0503 comes with CR38F

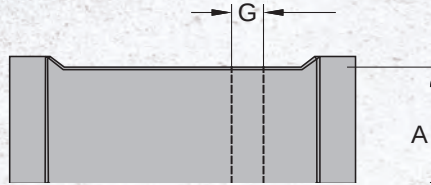
| Cylinder Capacity (tons) | Stroke (in) | Model Number | Cylinder Effective Area (in <sup>2</sup> ) | Pressure at Capacity | Oil Capacity (in <sup>3</sup> ) | Weight (lbs) |
|--------------------------|-------------|--------------|--------------------------------------------|----------------------|---------------------------------|--------------|
| 5                        | 0.24        | HF0503*      | 1.10                                       | 9,090                | 0.26                            | 1.3          |
| 10                       | 0.43        | HF1005       | 2.36                                       | 8,470                | 1.01                            | 3.3          |
| 20                       | 0.43        | HF2005       | 4.38                                       | 9,130                | 1.88                            | 5.9          |
| 30                       | 0.51        | HF3005       | 6.49                                       | 9,240                | 3.31                            | 9.7          |
| 50                       | 0.63        | HF5006       | 9.86                                       | 10,140               | 6.21                            | 14.9         |
| 75                       | 0.63        | HF7506       | 16.1                                       | 9,320                | 10.14                           | 25.4         |
| 100                      | 0.63        | HF10006      | 19.64                                      | 10,180               | 12.37                           | 31.5         |
| 150                      | 0.63        | HF15006      | 30.67                                      | 9,780                | 19.32                           | 53.4         |



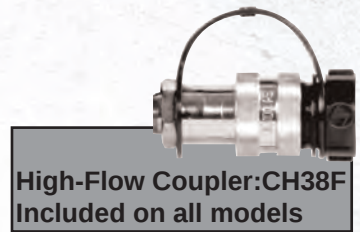
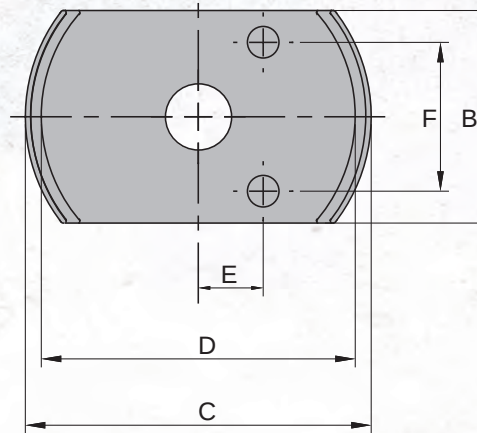
| Model Number | Col-lapsed Height A (in) | Ex-tended Height B (in) | Cylinder Bore Dia. C (in) | Outside Dim. D1 x D2 (in) | Rod Dia. E (in) | Base to Port G (in) | Rod to Base L (in) | Rod to Mtg. Hole M (in) | Hole Pitch X (in) | Hole Dia. Y (in) | Counter Bore Dia. (in) | Counter Bore Depth (in) |
|--------------|--------------------------|-------------------------|---------------------------|---------------------------|-----------------|---------------------|--------------------|-------------------------|-------------------|------------------|------------------------|-------------------------|
| HF0503*      | 1.26                     | 1.50                    | 1.18                      | 2.4x1.6                   | 0.98            | 0.69                | 0.80               | 0.87                    | 1.12              | 0.2              | 0.31                   | 0.17                    |
| HF1005       | 1.69                     | 2.12                    | 1.73                      | 3.3x2.2                   | 1.50            | 0.77                | 1.12               | 1.32                    | 1.44              | 0.28             | 0.42                   | 0.31                    |
| HF2005       | 2.01                     | 2.44                    | 2.36                      | 4.0x3.0                   | 2.00            | 0.75                | 1.54               | 1.56                    | 1.94              | 0.40             | 0.59                   | 0.39                    |
| HF3005       | 2.31                     | 2.82                    | 2.87                      | 4.6x3.8                   | 2.50            | 0.79                | 1.88               | 1.75                    | 2.06              | 0.40             | 0.63                   | 0.44                    |
| HF5006       | 2.64                     | 3.27                    | 3.54                      | 4.5x4.5                   | 2.76            | 0.79                | 2.25               | 2.13                    | 2.62              | 0.43             | 0.75                   | 0.50                    |
| HF7506       | 3.13                     | 3.76                    | 4.53                      | 6.5x5.5                   | 3.54            | 0.77                | 2.75               | 2.63                    | 3.00              | 0.51             | 0.83                   | 0.56                    |
| HF10006      | 3.37                     | 4.00                    | 5.00                      | 7.0x6.0                   | 3.54            | 0.79                | 3.00               | 2.94                    | 3.00              | 0.51             | 0.83                   | 0.56                    |
| HF15006      | 3.94                     | 4.57                    | 6.25                      | 8.5x7.5                   | 4.65            | 0.94                | 3.75               | 3.25                    | 4.62              | 0.51             | 0.83                   | 0.56                    |

## FLAT BODY CYLINDER KITS

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



Magnet shim



High-Flow Coupler:CH38F  
Included on all models

\*except HF0503B come with CR38F

| Cylinder Capacity (tons) | Stroke (in) | Model Number | Cylinder Model | Oil Capacity (in³) | Collapsed Height (in) | Adapter | Adapter Dimensions |        |        |        |        |        |        | Weight (lbs) |
|--------------------------|-------------|--------------|----------------|--------------------|-----------------------|---------|--------------------|--------|--------|--------|--------|--------|--------|--------------|
|                          |             |              |                |                    |                       |         | A (in)             | B (in) | C (in) | D (in) | E (in) | F (in) | G (in) |              |
| 5                        | 0.24        | HF0503B*     | HF0503         | 0.26               | 1.26                  | I       | 0.17               | 1.61   | 2.56   | 2.32   | 0.48   | 1.10   | 0.24   | 5.5          |
|                          |             |              |                |                    |                       | II      | 0.42               | 1.61   | 2.56   | 2.32   | 0.48   | 1.10   | 0.24   | 5.5          |
|                          |             |              |                |                    |                       | III     | 0.92               | 1.61   | 2.56   | 2.32   | 0.48   | 1.10   | 0.24   | 5.5          |
|                          |             |              |                |                    |                       | IV      | 1.17               | 1.61   | 2.56   | 2.32   | 0.48   | 1.10   | 0.24   | 5.5          |
| 10                       | 0.43        | HF1005B      | HF1005         | 1.02               | 1.69                  | I       | 0.39               | 2.20   | 3.54   | 3.23   | 0.81   | 1.46   | 0.28   | 9.2          |
|                          |             |              |                |                    |                       | II      | 0.79               | 2.20   | 3.54   | 3.23   | -      | -      | -      | 9.2          |
|                          |             |              |                |                    |                       | III     | 1.57               | 2.20   | 3.54   | 3.23   | -      | -      | -      | 9.2          |
| 20                       | 0.43        | HF2005B      | HF2005         | 1.90               | 2.01                  | I       | 0.39               | 2.99   | 4.25   | 3.94   | 1.08   | 1.93   | 0.39   | 15.0         |
|                          |             |              |                |                    |                       | II      | 0.79               | 2.99   | 4.25   | 3.94   | -      | -      | -      | 15.0         |
|                          |             |              |                |                    |                       | III     | 1.57               | 2.99   | 4.25   | 3.94   | -      | -      | -      | 15.0         |
| 30                       | 0.51        | HF3005B      | HF3005         | 3.32               | 2.31                  | I       | 0.39               | 3.75   | 4.76   | 4.45   | 1.32   | 2.06   | 0.39   | 21.0         |
|                          |             |              |                |                    |                       | II      | 0.79               | 3.75   | 4.76   | 4.45   | -      | -      | -      | 21.0         |
|                          |             |              |                |                    |                       | III     | 1.57               | 3.75   | 4.76   | 4.45   | -      | -      | -      | 21.0         |
| 50                       | 0.63        | HF5006B      | HF5006         | 3.32               | 2.31                  | I       | 0.39               | 4.49   | 5.89   | 5.57   | 1.61   | 2.62   | 0.43   | 32.32        |
|                          |             |              |                |                    |                       | II      | 0.79               | 4.49   | 5.89   | 5.57   | -      | -      | -      | 32.32        |
|                          |             |              |                |                    |                       | III     | 1.57               | 4.49   | 5.89   | 5.57   | -      | -      | -      | 32.32        |