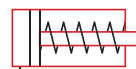




## Single Acting Cylinders

H Series - General Purpose, Spring Return



### Capacity:

2 - 100 Tons\*

### Stroke:

0.63 - 14.25 Inches

### Max. Operating Pressure:

10,000 psi

### Min. - Max. Height:

1.63 - 32.99 Inches



### \* Larger Tonnages

For tonnages that exceed 100, please refer to our HG Section

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Single Acting Cylinder H1506 in the collapsed position with CB15 cylinder base for safety.

Single Acting Cylinder H5513 in the collapsed position ready to lift a load

- Collar threads and base mounting holes for fixturing
- Hard chrome plated piston rod protects against corrosion and damage
- Polyurethane U-Cup seals provide a sure seal and long life
- Solid one piece alloy steel body
- One piece aluminum alloy bearing protects against cylinder wall damage
- CH38F high flow coupler with dust cap is standard on most cylinders\*\*



### Safety Practices

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

### HU Series – Aluminum Cylinders



Aluminum cylinders make a great lightweight alternative being up to 60% lighter than comparable steel models.

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1-888-332-6419

[www.BVAhydraulics.com](http://www.BVAhydraulics.com)

## Quick Selection Guide

| Cylinder Capacity (ton) | Stroke (in) | Model Number | Collapsed Height (in) | Oil Capacity (in <sup>3</sup> ) | Weight (lbs) |
|-------------------------|-------------|--------------|-----------------------|---------------------------------|--------------|
| 2                       | 3.07        | H0203*       | 5.39                  | 2.28                            | 2.0          |
| 5                       | 0.63        | H0500**      | 1.63                  | 0.69                            | 1.9          |
|                         | 1.00        | H0501        | 4.58                  | 1.00                            | 3.1          |
|                         | 3.07        | H0503        | 6.65                  | 3.07                            | 3.2          |
|                         | 5.08        | H0505        | 8.70                  | 5.08                            | 3.9          |
|                         | 7.09        | H0507        | 10.71                 | 7.09                            | 4.7          |
|                         | 9.00        | H0509        | 12.75                 | 9.03                            | 5.5          |
| 10                      | 0.98        | H1001        | 3.62                  | 2.19                            | 3.9          |
|                         | 2.01        | H1002        | 4.84                  | 4.50                            | 5.0          |
|                         | 4.02        | H1004        | 6.85                  | 9.00                            | 7.7          |
|                         | 5.94        | H1006        | 9.84                  | 13.30                           | 9.5          |
|                         | 7.95        | H1008        | 11.85                 | 17.81                           | 11.3         |
|                         | 9.96        | H1010        | 13.86                 | 22.31                           | 13.1         |
|                         | 11.97       | H1012        | 15.87                 | 26.81                           | 15.0         |
|                         | 14.02       | H1014        | 17.72                 | 31.40                           | 16.7         |
| 15                      | 0.98        | H1501        | 4.88                  | 3.07                            | 6.9          |
|                         | 2.01        | H1502        | 5.87                  | 6.31                            | 8.5          |
|                         | 3.98        | H1504        | 7.87                  | 12.49                           | 11.1         |
|                         | 5.98        | H1506        | 10.63                 | 18.77                           | 14.8         |
|                         | 7.99        | H1508        | 12.64                 | 25.08                           | 17.3         |
|                         | 10.00       | H1510        | 14.65                 | 31.40                           | 20.0         |
|                         | 12.01       | H1512        | 16.65                 | 37.71                           | 22.5         |
|                         | 14.02       | H1514        | 18.66                 | 44.02                           | 25.2         |
| 25                      | 1.02        | H2501        | 5.63                  | 5.25                            | 12.1         |
|                         | 2.01        | H2502        | 6.61                  | 10.35                           | 14.0         |
|                         | 4.02        | H2504        | 8.62                  | 20.70                           | 18.0         |
|                         | 6.10        | H2506        | 10.71                 | 31.41                           | 22.2         |
|                         | 8.11        | H2508        | 12.72                 | 41.77                           | 26.3         |
|                         | 10.12       | H2510        | 14.72                 | 52.12                           | 30.3         |
|                         | 12.20       | H2512        | 16.77                 | 62.83                           | 34.3         |
|                         | 14.25       | H2514        | 18.74                 | 73.39                           | 38.3         |
| 30                      | 8.27        | H3008        | 15.24                 | 53.67                           | 40.7         |
| 55                      | 2.01        | H5502        | 6.93                  | 21.97                           | 33.0         |
|                         | 4.06        | H5504        | 8.94                  | 44.57                           | 41.0         |
|                         | 6.26        | H5506†       | 11.14                 | 68.73                           | 57.5         |
|                         | 10.25       | H5510†       | 15.16                 | 112.55                          | 67.4         |
|                         | 13.27       | H5513†       | 18.15                 | 145.70                          | 87.0         |
|                         | 6.14        | H7506†       | 11.22                 | 98.85                           | 74.0         |
| 75                      | 13.11       | H7513†       | 19.37                 | 211.07                          | 122.0        |
| 100                     | 2.01        | H10002A†     | 8.62                  | 41.34                           | 66.0         |
|                         | 6.61        | H10006†      | 14.06                 | 136.03                          | 127.0        |
|                         | 10.24       | H10010†      | 17.68                 | 210.74                          | 153.0        |

See pages 8-9 for detailed specifications.

\* H0203 load return.

\*\* H0500 comes with CRZ14F coupler.

† Cylinder is equipped with carrying handle.



H Series

### 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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### Cylinder Accessories



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

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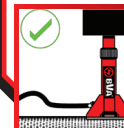
### Combo Kits



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

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### Safety Instructions



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

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### 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. Match up these saddles with the following cylinders:

- SDT05 → H05 Cylinders\*
- SDT10 → H10 Cylinders
- SDT15 → H15 Cylinders
- SDT25 → H25 Cylinders
- SDT55 → H55, H75, H100 Cylinders



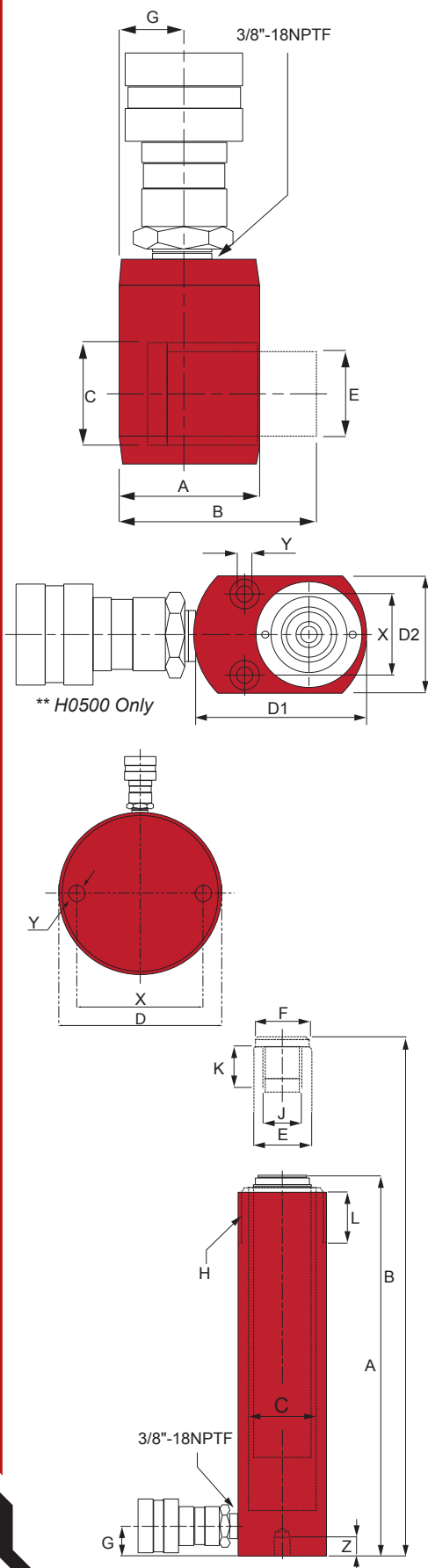
\* Except the H0500 cylinder

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## Single Acting Cylinders

### H Series - Spring Return



| Cylinder Capacity (ton) | Stroke (in) | Model Number | Cylinder Effective Area (in <sup>2</sup> ) | Internal Pressure at Capacity (psi) | Oil Capacity (in <sup>3</sup> ) | Weight (lbs) |
|-------------------------|-------------|--------------|--------------------------------------------|-------------------------------------|---------------------------------|--------------|
| 2                       | 3.07        | H0203*       | 0.76                                       | 5,263                               | 2.28                            | 2.0          |
| 5                       | 0.63        | H0500**      | 1.10                                       | 9,091                               | 0.69                            | 1.9          |
|                         | 1.00        | H0501        | 1.00                                       | 10,000                              | 1.00                            | 3.1          |
|                         | 3.07        | H0503        | 1.00                                       | 10,000                              | 3.07                            | 3.2          |
|                         | 5.08        | H0505        | 1.00                                       | 10,000                              | 5.08                            | 3.9          |
|                         | 7.09        | H0507        | 1.00                                       | 10,000                              | 7.09                            | 4.7          |
|                         | 9.00        | H0509        | 1.00                                       | 10,000                              | 9.03                            | 5.5          |
| 10                      | 0.98        | H1001        | 2.24                                       | 8,928                               | 2.19                            | 3.9          |
|                         | 2.01        | H1002        | 2.24                                       | 8,928                               | 4.50                            | 5.0          |
|                         | 4.02        | H1004        | 2.24                                       | 8,928                               | 9.00                            | 7.7          |
|                         | 5.94        | H1006        | 2.24                                       | 8,928                               | 13.30                           | 9.5          |
|                         | 7.95        | H1008        | 2.24                                       | 8,928                               | 17.81                           | 11.3         |
|                         | 9.96        | H1010        | 2.24                                       | 8,928                               | 22.31                           | 13.1         |
|                         | 11.97       | H1012        | 2.24                                       | 8,928                               | 26.81                           | 15.0         |
|                         | 14.02       | H1014        | 2.24                                       | 8,928                               | 31.40                           | 16.7         |
| 15                      | 0.98        | H1501        | 3.14                                       | 9,554                               | 3.07                            | 6.9          |
|                         | 2.01        | H1502        | 3.14                                       | 9,554                               | 6.31                            | 8.5          |
|                         | 3.98        | H1504        | 3.14                                       | 9,554                               | 12.49                           | 11.1         |
|                         | 5.98        | H1506        | 3.14                                       | 9,554                               | 18.77                           | 14.8         |
|                         | 7.99        | H1508        | 3.14                                       | 9,554                               | 25.08                           | 17.3         |
|                         | 10.00       | H1510        | 3.14                                       | 9,554                               | 31.40                           | 20.0         |
|                         | 12.01       | H1512        | 3.14                                       | 9,554                               | 37.71                           | 22.5         |
|                         | 14.02       | H1514        | 3.14                                       | 9,554                               | 44.02                           | 25.2         |
| 25                      | 1.02        | H2501        | 5.15                                       | 9,708                               | 5.25                            | 12.1         |
|                         | 2.01        | H2502        | 5.15                                       | 9,708                               | 10.35                           | 14.0         |
|                         | 4.02        | H2504        | 5.15                                       | 9,708                               | 20.70                           | 18.0         |
|                         | 6.10        | H2506        | 5.15                                       | 9,708                               | 31.41                           | 22.2         |
|                         | 8.11        | H2508        | 5.15                                       | 9,708                               | 41.77                           | 26.3         |
|                         | 10.12       | H2510        | 5.15                                       | 9,708                               | 52.12                           | 30.3         |
|                         | 12.20       | H2512        | 5.15                                       | 9,708                               | 62.83                           | 34.3         |
|                         | 14.25       | H2514        | 5.15                                       | 9,708                               | 73.39                           | 38.3         |
| 30                      | 8.27        | H3008        | 6.49                                       | 9,245                               | 53.67                           | 40.7         |
| 55                      | 2.01        | H5502        | 10.98                                      | 10,018                              | 21.97                           | 33.0         |
|                         | 4.06        | H5504        | 10.98                                      | 10,018                              | 44.57                           | 41.0         |
|                         | 6.26        | H5506†       | 10.98                                      | 10,018                              | 68.73                           | 57.5         |
|                         | 10.25       | H5510†       | 10.98                                      | 10,018                              | 112.55                          | 67.4         |
|                         | 13.27       | H5513†       | 10.98                                      | 10,018                              | 145.70                          | 87.0         |
| 75                      | 6.14        | H7506†       | 16.10                                      | 9,316                               | 98.85                           | 74.0         |
|                         | 13.11       | H7513†       | 16.10                                      | 9,316                               | 211.07                          | 122.0        |
| 100                     | 2.01        | H10002A†     | 20.58                                      | 9,718                               | 41.34                           | 66.0         |
|                         | 6.61        | H10006†      | 20.58                                      | 9,718                               | 136.03                          | 127.0        |
|                         | 10.24       | H10010†      | 20.58                                      | 9,718                               | 210.74                          | 153.0        |

| Model Number | Collapsed Height A (in) | Extended Height B (in) | Cylinder Bore C (in) | Outside Dia. D (in) | Rod Dia. E (in) | Saddle Dia. F (in) | Base to Inlet Port G (in) | Collar Thread H (in) | Collar Thread Length L (in) | Rod Internal Thread J (in) | Rod Thread Length K (in) | Base Mounting Hole (in) |          |                |
|--------------|-------------------------|------------------------|----------------------|---------------------|-----------------|--------------------|---------------------------|----------------------|-----------------------------|----------------------------|--------------------------|-------------------------|----------|----------------|
|              |                         |                        |                      |                     |                 |                    |                           |                      |                             |                            |                          | Bolt Circle X           | Thread Y | Thread Depth Z |
| H0203*       | 5.39                    | 8.46                   | 1.00                 | 1.31                | 0.87            | 1.00               | 0.46                      | 1¼"-16               | 0.54                        | -                          | -                        | -                       | -        | -              |
| H0500**      | 1.63                    | 2.26                   | 1.18                 | 2.37x1.59†          | 0.98            | -                  | 0.75                      | -                    | -                           | -                          | -                        | 1.10                    | -        | -              |
| H0501        | 4.58                    | 5.58                   | 1.13                 | 1.50                | 1.00            | 0.98               | 0.79                      | 1½"-16               | 1.10                        | ¾"-16UNF                   | 0.63                     | 1.00                    | ¼"-20UNC | 0.55           |
| H0503        | 6.65                    | 9.72                   | 1.13                 | 1.50                | 1.00            | 0.98               | 0.79                      | 1½"-16               | 1.10                        | ¾"-16UNF                   | 0.63                     | 1.00                    | ¼"-20UNC | 0.55           |
| H0505        | 8.70                    | 13.78                  | 1.13                 | 1.50                | 1.00            | 0.98               | 0.79                      | 1½"-16               | 1.10                        | ¾"-16UNF                   | 0.63                     | 1.00                    | ¼"-20UNC | 0.55           |
| H0507        | 10.71                   | 17.80                  | 1.13                 | 1.50                | 1.00            | 0.98               | 0.79                      | 1½"-16               | 1.10                        | ¾"-16UNF                   | 0.63                     | 1.00                    | ¼"-20UNC | 0.55           |
| H0509        | 12.75                   | 21.75                  | 1.12                 | 1.50                | 1.00            | 0.98               | 0.79                      | 1½"-16               | 1.10                        | ¾"-16UNF                   | 0.63                     | 1.00                    | ¼"-20UNC | 0.55           |
| H1001        | 3.62                    | 4.60                   | 1.69                 | 2.26                | 1.49            | -                  | 0.77                      | 2¼"-14               | 1.18                        | -                          | 0.24                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1002        | 4.84                    | 6.85                   | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1004        | 6.85                    | 10.87                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1006        | 9.84                    | 15.78                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1008        | 11.85                   | 19.80                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1010        | 13.86                   | 23.82                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1012        | 15.87                   | 27.84                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1014        | 17.72                   | 31.74                  | 1.69                 | 2.26                | 1.49            | 1.38               | 0.77                      | 2¼"-14               | 1.18                        | 1"-8UNC                    | 0.79                     | 1.56                    | ⅝"-18UNC | 0.55           |
| H1501        | 4.88                    | 5.86                   | 2.00                 | 2.75                | 1.63            | 1.50               | 0.77                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1502        | 5.87                    | 7.88                   | 2.00                 | 2.75                | 1.63            | 1.50               | 0.77                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1504        | 7.87                    | 11.85                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.77                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1506        | 10.63                   | 16.61                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.98                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1508        | 12.64                   | 20.63                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.98                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1510        | 14.65                   | 24.65                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.98                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1512        | 16.65                   | 28.66                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.98                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H1514        | 18.66                   | 32.68                  | 2.00                 | 2.75                | 1.63            | 1.50               | 0.98                      | 2¼"-16               | 1.18                        | 1"-8UNC                    | 0.98                     | 1.88                    | ⅝"-16UNC | 0.51           |
| H2501        | 5.63                    | 6.65                   | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2502        | 6.61                    | 8.62                   | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2504        | 8.62                    | 12.64                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2506        | 10.71                   | 16.81                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2508        | 12.72                   | 20.83                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2510        | 14.72                   | 24.84                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2512        | 16.77                   | 28.97                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H2514        | 18.74                   | 32.99                  | 2.56                 | 3.35                | 2.24            | 1.97               | 0.98                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.31                    | ½"-13UNC | 0.75           |
| H3008        | 15.24                   | 23.51                  | 2.87                 | 4.00                | 2.24            | 1.97               | 1.97                      | 3⅝"-12               | 1.93                        | 1½"-16                     | 1.18                     | 2.20                    | -        | -              |
| H5502        | 6.93                    | 8.94                   | 3.74                 | 5.00                | 3.15            | 2.76               | 1.22                      | 5"-12                | 2.17                        | -                          | -                        | 3.75                    | ½"-13UNC | 0.75           |
| H5504        | 8.94                    | 13.00                  | 3.74                 | 5.00                | 3.15            | 2.76               | 1.22                      | 5"-12                | 2.17                        | -                          | -                        | 3.75                    | ½"-13UNC | 0.75           |
| H5506†       | 11.14                   | 17.40                  | 3.74                 | 5.00                | 3.15            | 2.76               | 1.22                      | 5"-12                | 2.17                        | -                          | -                        | 3.75                    | ½"-13UNC | 0.75           |
| H5510†       | 15.16                   | 25.41                  | 3.74                 | 5.00                | 3.15            | 2.76               | 1.22                      | 5"-12                | 2.17                        | -                          | -                        | 3.75                    | ½"-13UNC | 0.75           |
| H5513†       | 18.15                   | 31.42                  | 3.74                 | 5.00                | 3.15            | 2.76               | 1.22                      | 5"-12                | 2.17                        | -                          | -                        | 3.75                    | ½"-13UNC | 0.75           |
| H7506†       | 11.22                   | 18.36                  | 4.53                 | 5.79                | 3.74            | 2.76               | 1.18                      | 5¾"-12               | 1.77                        | -                          | -                        | -                       | -        | -              |
| H7513†       | 19.37                   | 32.48                  | 4.53                 | 5.79                | 3.74            | 2.76               | 1.18                      | 5¾"-12               | 1.77                        | -                          | -                        | 3.94                    | ⅝"-10UNC | 0.85           |
| H10002A†     | 8.62                    | 10.63                  | 5.12                 | 6.25                | 4.13            | 2.76               | 1.50                      | 6¼"-12               | 2.17                        | -                          | -                        | -                       | -        | -              |
| H10006†      | 14.06                   | 20.67                  | 5.12                 | 6.25                | 4.13            | 2.76               | 1.57                      | 6¼"-12               | 1.77                        | -                          | -                        | 5.50                    | ¾"-10UNC | 1.00           |
| H10010†      | 17.68                   | 27.92                  | 5.12                 | 6.25                | 4.13            | 2.76               | 1.57                      | 6¼"-12               | 1.77                        | -                          | -                        | 5.50                    | ¾"-10UNC | 1.00           |

\* H0203 load return.

\*\* H0500 comes with CRZ14F coupler.

† Cylinder is equipped with carrying handle.

‡ Length x Width