

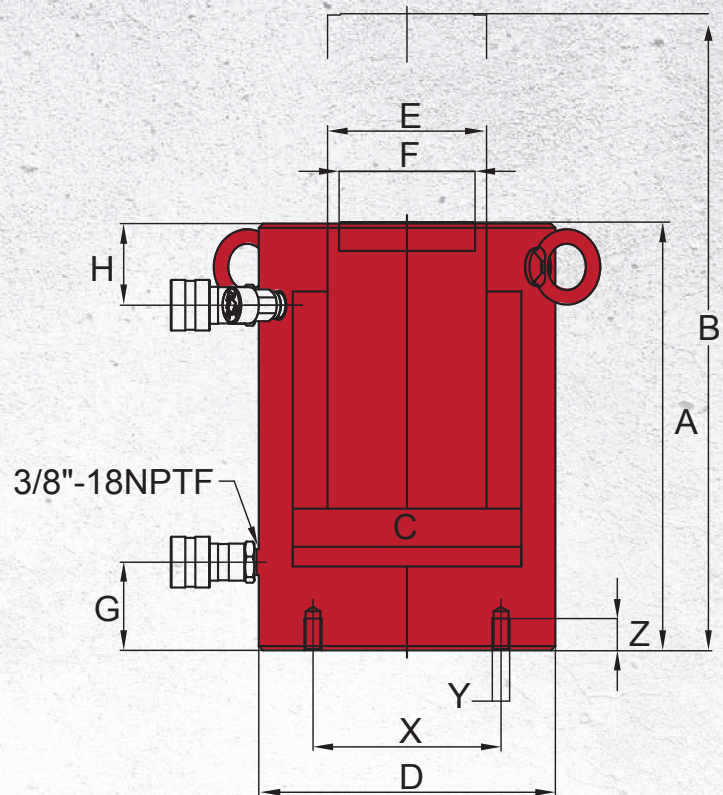
# HIGH TONNAGE DOUBLE ACTING CYLINDERS (HDG Series)

- Cylinders are burnish rolled for a smooth precision mirror finish
- Industrial hard chrome plated rod prevents scratching and corrosion
- Base mounting holes standard on all models
- Rod wiper seals out dirt and contamination
- High strength steel construction from gun drilled solid bar
- High flow 3/8" NPTF couplers
- Maximum working pressure: 10,000 psi / 700 bar



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

| Cylinder Capacity (tons) | Stroke (in) | Model Number | Maximum Cylinder Capacity |            | Cylinder Effective Area |                         | Oil Capacity            |                         | Weight (lbs) |
|--------------------------|-------------|--------------|---------------------------|------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------|
|                          |             |              | Push (ton)                | Pull (ton) | Push (in <sup>2</sup> ) | Pull (in <sup>2</sup> ) | Push (in <sup>3</sup> ) | Pull (in <sup>3</sup> ) |              |
| 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                   | 74.1         |
|                          | 5.91        | HDG10006     | 102.86                    | 47.93      | 20.57                   | 9.59                    | 121.50                  | 56.61                   | 87.3         |
|                          | 7.87        | HDG10008     | 102.86                    | 47.93      | 20.57                   | 9.59                    | 161.99                  | 75.49                   | 100.4        |
|                          | 9.84        | HDG10010     | 102.86                    | 47.93      | 20.57                   | 9.59                    | 202.49                  | 94.36                   | 113.6        |
|                          | 11.81       | HDG10012     | 102.86                    | 47.93      | 20.57                   | 9.59                    | 242.99                  | 113.23                  | 126.7        |
| 150                      | 1.97        | HDG15002     | 152.11                    | 78.49      | 30.43                   | 15.70                   | 59.89                   | 30.90                   | 102.4        |
|                          | 3.94        | HDG15004     | 152.11                    | 78.49      | 30.43                   | 15.70                   | 119.78                  | 61.79                   | 122.0        |
|                          | 5.91        | HDG15006     | 153.90                    | 75.00      | 30.78                   | 14.96                   | 181.75                  | 88.32                   | 141.8        |
|                          | 7.87        | HDG15008     | 152.11                    | 78.49      | 30.43                   | 15.70                   | 239.57                  | 123.59                  | 161.6        |
|                          | 9.84        | HDG15010     | 152.11                    | 78.49      | 30.43                   | 15.70                   | 299.46                  | 154.48                  | 181.4        |
|                          | 11.81       | HDG15012     | 152.11                    | 78.49      | 30.43                   | 15.70                   | 359.35                  | 185.38                  | 201.7        |
| 200                      | 1.97        | HDG20002     | 204.92                    | 94.02      | 40.99                   | 18.80                   | 80.68                   | 37.01                   | 121.0        |
|                          | 5.91        | HDG20006     | 206.10                    | 98.00      | 41.22                   | 19.68                   | 243.40                  | 116.23                  | 201.0        |
|                          | 7.87        | HDG20008     | 204.92                    | 94.02      | 40.99                   | 18.80                   | 322.73                  | 148.03                  | 242.0        |
|                          | 11.81       | HDG20012     | 206.10                    | 98.00      | 41.22                   | 19.68                   | 486.79                  | 232.46                  | 322          |
| 300                      | 5.91        | HDG30006     | 353.60                    | 117.00     | 70.71                   | 23.46                   | 417.56                  | 138.55                  | 511          |
| 400                      | 11.81       | HDG40012     | 433.90                    | 150.00     | 86.79                   | 29.99                   | 1025.00                 | 354.18                  | 928          |
| 500                      | 5.91        | HDG50006     | 566.30                    | 192.00     | 113.25                  | 38.37                   | 668.77                  | 226.61                  | 1,058        |



| Model Number | Col-lapsed Height A (in) | Extend-ed Height B (in) | Cylinder Bore Dia. C (in) | Outside Dia. D (in) | Rod Dia. E (in) | Sad-dle Dia. F (in) | Base to Adv. Port G (in) | Top to Return Port H (in) | Base Mounting Hole |               |                     |
|--------------|--------------------------|-------------------------|---------------------------|---------------------|-----------------|---------------------|--------------------------|---------------------------|--------------------|---------------|---------------------|
|              |                          |                         |                           |                     |                 |                     |                          |                           | Bolt Circle X (in) | Thread Y (mm) | Thread Depth Z (in) |
| HDG10002     | 7.17                     | 9.13                    | 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           | 0.87                |
| HDG20006     | 12.44                    | 18.35                   | 7.24                      | 9.25                | 5.31            | 4.45                | 2.62                     | 2.22                      | 6.50               | M12           | 0.87                |
| HDG20008     | 14.41                    | 22.28                   | 7.22                      | 9.25                | 5.31            | 4.45                | 2.62                     | 2.22                      | 6.50               | M12           | 0.87                |
| HDG20012     | 18.35                    | 30.16                   | 7.24                      | 9.25                | 5.31            | 4.45                | 2.62                     | 2.22                      | 6.50               | M12           | 0.87                |
| HDG30006     | 16.22                    | 22.13                   | 9.49                      | 12.20               | 7.76            | 6.97                | 3.98                     | 2.95                      | 7.09               | 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                |
| HDG50006     | 20.43                    | 26.34                   | 12.01                     | 15.75               | 9.76            | 8.98                | 4.49                     | 5.31                      | 9.84               | M24           | 1.50                |