

## DDH SERIES

### Double-Acting, Hollow Plunger Cylinders

- Hollow plunger design for pulling and pushing applications such as tensioning of cables or pushing of bearings out from shaft.
- Built-in safety valves for prevention of over-pressurize.
- Able to withstands full "dead-end" loads.
- Collar threads features (Except DDH-1001 & DDH-1508), simplifying fixtures applications. Comes with a cap for better protection.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.
- Also comes in aluminium range.



#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.

#### Handle Type

(S) - Standard equipped  
(C) - Customer order



Weldable



Eyebolt

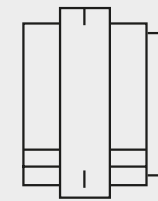


Removable  
strap handles



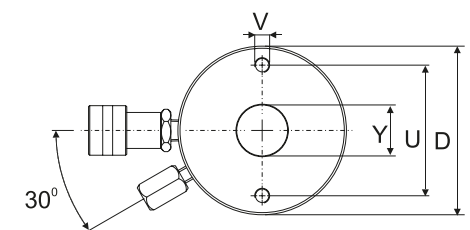
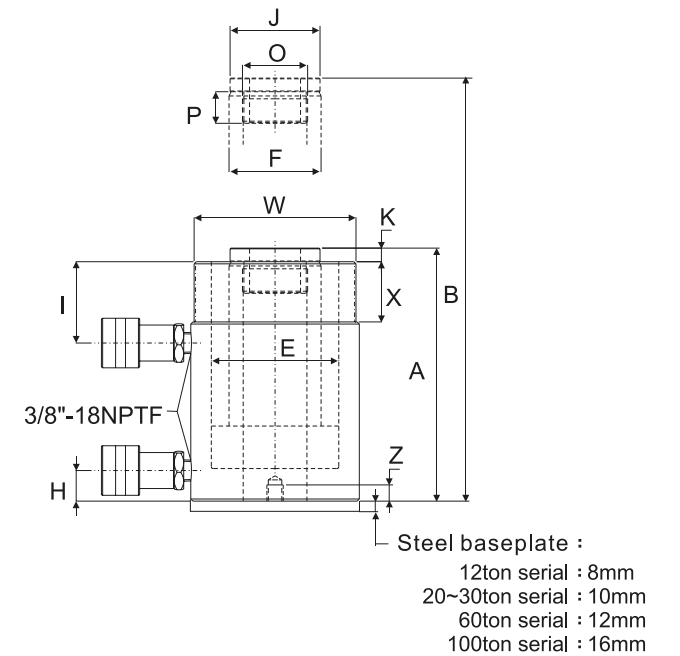
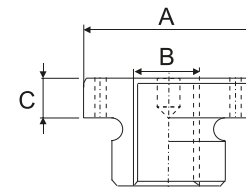
Thread

| Handle type | Model Number | Cylinder Capacity | Stroke | Max. Cyl.Capacity |      | Cyl. Effect. Area  |       | Oil Capacity       |      | Coll. Height | Ext. Height | Out. Diam. | Cylinder Bore Diam. | Plngr. Diam. |
|-------------|--------------|-------------------|--------|-------------------|------|--------------------|-------|--------------------|------|--------------|-------------|------------|---------------------|--------------|
|             |              |                   |        | Push              | Pull | Push               | Pull  | Push               | Pull |              |             |            |                     |              |
| (S)         |              | ton (kN)          | (mm)   | (kN)              |      | (cm <sup>2</sup> ) |       | (cm <sup>3</sup> ) |      | A (mm)       | B (mm)      | D (mm)     | E (mm)              | F (mm)       |
| R           | DDH-307      | 30                | 178    | 326               | 213  | 46.6               | 30.4  | 829                | 541  | 330          | 508         | 114        | 88.9                | 63.5         |
| R           | DDH-3010     | (326)             | 258    | 326               | 213  | 46.6               | 30.4  | 1202               | 784  | 431          | 689         | 114        | 88.9                | 63.5         |
| R           | DDH-603      | 60                | 89     | 576               | 380  | 82.3               | 54.2  | 733                | 482  | 247          | 336         | 159        | 123.9               | 92.2         |
| R           | DDH-606      | (576)             | 166    | 576               | 380  | 82.3               | 54.2  | 1366               | 900  | 323          | 489         | 159        | 123.9               | 92.2         |
| R           | DDH-6010     |                   | 257    | 576               | 380  | 82.3               | 54.2  | 2115               | 1393 | 438          | 695         | 159        | 123.9               | 92.2         |
| R           | DDH-1001     |                   | 38     | 931               | 612  | 133.0              | 87.4  | 505                | 333  | 165          | 203         | 212        | 165.1               | 127.0        |
| R           | DDH-1003     | 95                | 76     | 931               | 612  | 133.0              | 87.4  | 1011               | 666  | 254          | 330         | 212        | 165.1               | 127.0        |
| R           | DDH-1006     | (931)             | 153    | 931               | 612  | 133.0              | 87.4  | 2035               | 1337 | 342          | 495         | 212        | 165.1               | 127.0        |
| R           | DDH-10010    |                   | 257    | 931               | 612  | 133.0              | 87.4  | 3420               | 2246 | 460          | 717         | 212        | 165.1               | 127.0        |
| R           | DDH-1508     | 145 (1429)        | 203    | 1429              | 718  | 204.1              | 102.6 | 4144               | 2083 | 349          | 552         | 247        | 190.5               | 152.4        |



**Double-Acting**  
Hollow Plunger Cylinder  
Hydraulic return

|                            |              |
|----------------------------|--------------|
| Capacity                   | 30-145 ton   |
| Stroke                     | 38-258 mm    |
| Centre Hole Diameter       | 33.3~79.5 mm |
| Maximum Operating Pressure | 700 bar      |



This drawing show the base mounting holes of barrel before setting steel base plate.

#### Optional Heat Treated Hollow Saddles

| Cylinder Model/ Cap.        | Model Number | Saddle Dimensions |              |        |
|-----------------------------|--------------|-------------------|--------------|--------|
|                             |              | A (mm)            | B (in)       | C (mm) |
| DDH-307, 3010               | DXKHCH-30    | 63                | 1-1/4"-7     | 9      |
| DDH-603, 606, 6010          | DXKHCH-60    | 91                | 1-5/8"-5-1/2 | 12     |
| DDH-1001, 1003, 1006, 10010 | DXKHCH-100   | 126               | 2-1/2"-8     | 13     |

\*Smooth hollow saddles are standard on all DDH series.

| Cyl. Base to Adv. Port | Cyl. Top to Return Port | Saddle Diam. | Saddle Protr. Fr. Plngr. | Plunger Internal Thread | Plunger Thread Length | Collar Thread | Collar Thread Length | Center Hole Diam. | Base Mounting Holes |         |              | Weight |
|------------------------|-------------------------|--------------|--------------------------|-------------------------|-----------------------|---------------|----------------------|-------------------|---------------------|---------|--------------|--------|
|                        |                         |              |                          |                         |                       |               |                      |                   | Bolt Circle         | Thread  | Thread Depth |        |
| H (mm)                 | I (mm)                  | J (mm)       | K (mm)                   | O (in)                  | P (mm)                | W (in)        | X (mm)               | Y (mm)            | U (mm)              | V (in)  | Z (mm)       | (kg)   |
| 25                     | 60                      | 63           | 9                        | 1 13/16"-16             | 22                    | 4 1/2"-12     | 42                   | 33.3              | 92.2                | 3/8"-16 | 15.7         | 21.65  |
| 25                     | 60                      | 63           | 9                        | 1 13/16"-16             | 22                    | 4 1/2"-12     | 42                   | 33.3              | 92.2                | 3/8"-16 | 15.7         | 27.65  |
| 31                     | 66                      | 91           | 12                       | 2 3/4"-16               | 19                    | 6 1/4"-12     | 48                   | 54.1              | 130.0               | 1/2"-13 | 14.0         | 29.60  |
| 31                     | 66                      | 91           | 12                       | 2 3/4"-16               | 19                    | 6 1/4"-12     | 48                   | 54.1              | 130.0               | 1/2"-13 | 14.0         | 36.60  |
| 31                     | 66                      | 91           | 12                       | 2 3/4"-16               | 19                    | 6 1/4"-12     | 48                   | 54.1              | 130.0               | 1/2"-13 | 14.0         | 46.60  |
| 38                     | 44                      | 126          | 12                       | 4"-16                   | 25                    | —             | —                    | 79.5              | 177.8               | 5/8"-11 | 19.0         | 36.60  |
| 38                     | 85                      | 126          | 12                       | 4"-16                   | 25                    | 8 3/8"-12     | 60                   | 79.5              | 177.8               | 5/8"-11 | 19.0         | 64.60  |
| 38                     | 85                      | 126          | 12                       | 4"-16                   | 25                    | 8 3/8"-12     | 60                   | 79.5              | 177.8               | 5/8"-11 | 19.0         | 82.60  |
| 38                     | 85                      | 126          | 12                       | 4"-16                   | 25                    | 8 3/8"-12     | 60                   | 79.5              | 177.8               | 5/8"-11 | 19.0         | 109.60 |
| 38                     | 60                      | 127          | 4                        | 4 1/4"-12               | 25                    | —             | —                    | 79.5              | 214.0               | 5/8"-11 | 15.0         | 116.00 |