



YCH

Hollow cylinders

Double-acting with hydraulic return, capacity 33 - 140 t

Basically, the applications are the same as for the single-acting hollow cylinders shown on the opposite page, but for this model range the return of the piston is done hydraulically by means of the second oil port. These double-acting hollow cylinders are used when the piston needs to be retracted quickly e.g. with high-cycle pulling applications.

Features

- Yale ChroMo-Design.
- Operating pressure max. 700 bar.
- Double-acting with hydraulic return.
- With large centre hole diameter.
- Cylinder body and piston are made from solid chromium-molybdenum steel and heat-treated.
- Hard-chromium plated piston with replaceable, heat-treated saddle.
- Metric mounting threads at cylinder body and inside of piston.
- Stop ring prevents overtravel of the piston up to full operating pressure.
- Interchangeable hardened saddle.
- With inner and outer dirt wipers.
- Oil port thread 3/8 NPT.
- Incl. 2 female coupler halves model CFY-1.
- All cylinders with carrying handle, from model YCH-62/250 with 2 lifting rings.



INFO

Sonderanfertigungen bis zu einer Zugkraft von 600 t liefern wir auf Anfrage.

On request we supply special hollow cylinders with pulling capacities up to 600 tons.

Selection charts "cylinder/hand pumps" can be found on pages 416-417.

Travel-speed charts are supplied on pages 418-419.

Technical data YCH

| Cylinder size | Model | Art.-No. | Capacity push | Capacity pull | Stroke | Effective plunger area | Oil volume max. | Closed height | Centre hole diameter | Cylinder outside diameter | Weight |
|---------------|-------------|-----------|---------------|---------------|--------|------------------------|-----------------|---------------|----------------------|---------------------------|--------|
| t | | | kN | kN | mm | cm ² | cm ³ | mm | mm | mm | kg |
| 33 | YCH-33/150 | N11400079 | 335 | 180 | 150 | 47.9 | 716 | 310 | 33 | 114 | 19 |
| 33 | YCH-33/250 | N11400080 | 335 | 180 | 250 | 47.9 | 1200 | 415 | 33 | 114 | 25 |
| 62 | YCH-62/250 | N11400081 | 618 | 300 | 250 | 88.3 | 2220 | 452 | 55 | 163 | 55 |
| 93 | YCH-93/250 | N11400082 | 930 | 450 | 250 | 133.0 | 3320 | 465 | 55 | 193 | 82 |
| 100 | YCH-100/40 | N11400083 | 1000 | 500 | 40 | 143.0 | 578 | 190 | 55 | 200 | 38 |
| 140 | YCH-140/200 | N11400084 | 1400 | 700 | 200 | 200.2 | 4080 | 383 | 80 | 253 | 115 |

For double-acting hollow cylinders the "capacity push" is equivalent to the max. pulling force achieved with tensioning anchor or threaded spindle.

Dimensions YCH

| Model | YCH-33/150 | YCH-33/250 | YCH-62/250 | YCH-93/250 | YCH-100/40 | YCH-140/200 |
|-------|------------|------------|------------|------------|------------|-------------|
| A, mm | 300 | 405 | 440 | 450 | 175 | 365 |
| B, mm | 450 | 655 | 690 | 700 | 215 | 565 |
| C, mm | 33 | 33 | 55 | 55 | 55 | 80 |
| D, mm | 114 | 114 | 163 | 193 | 200 | 253 |
| E, mm | 90 | 90 | 130 | 150 | 155 | 195 |
| F, mm | 67 | 67 | 105 | 120 | 125 | 160 |
| J, mm | 62 | 62 | 96 | 110 | 110 | 145 |
| K, mm | 3 | 3 | 5 | 5 | 5 | 5 |
| M, mm | 120 | 120 | - | - | - | - |
| O, mm | M48 x 1.5 | M48 x 1.5 | M78 x 2 | M85 x 2 | M85 x 2 | M115 x 2 |
| P, mm | 30 | 30 | 40 | 45 | 45 | 50 |
| R, mm | 5 | 5 | 5 | 5 | - | - |
| S, mm | 51 | 51 | 24 | 30 | 24 | 30 |
| T, mm | - | - | 290 | 290 | 115 | 240 |
| U, mm | 92 | 92 | 135 | 160 | 165 | 210 |
| V, mm | 4 x M10 | 4 x M10 | 4 x M12 | 4 x M16 | 4 x M16 | 4 x M16 |
| W, mm | 40 | 40 | 50 | 65 | - | - |
| X, mm | M110 x 2 | M110 x 2 | M160 x 3 | M190 x 3 | - | - |
| Y, mm | 10 | 10 | 12 | 15 | 15 | 18 |

