



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 CFY-1.
- All cylinders with carrying handle, from model YCH-62/250 with 2 lifting rings.



INFO

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

Selection charts "cylinder/hand pumps" can be found on pages 438 - 439.

Travel-speed charts are supplied on pages 440 - 441.

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

