Hollow cylinders model YCS

Single-acting with spring return, capacity 12 - 93 t

Due to the centre hole design a threaded rod can be placed through the hollow cylinders so that extremely high pulling forces can be achieved.

Hollow cylinders are used as the power component within hydraulic puller sets, for prestressing anker bolts, removing axles, shafts, bushings, extracting tubes, as well as for heavy-duty pulling applications.

Features

- Yale ChroMo-Design.
- Operating pressure max. 700 bar.
- Single-acting with spring 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. female coupler half model CFY-1.
- From model YCS-21/150 with carrying handle.
- From model YCS-57/70 with two lifting rings.

INFO

Selection charts “cylinder/hand pumps“ can be found on pages 405-407!

Travel-speed charts are supplied on pages 408-409.

Function principal of the hollow cylinders

In connection with threaded rods hollow cylinders can produce extremely high forces which are helpful for various repair or assembly applications like removing press-fitted parts, prestressing anchors etc.
In addition, hollow cylinders are used as power source in puller sets and test rigs. By the use of long threaded rods and by readjusting the nut larger distances can be pulled even when using short cylinder strokes.

Technical data model YCS

Cylinder size t	Model	EAN-No. 4025092*	Capacity kN	Stroke mm	Effective plunger area cm^2	Oil volume max. cm^3	Closed height mm	Centre hole diameter mm	Cylinder outside diameter mm	Weight kg
12	YCS-12/40	*150873	120	40	17.2	71	142	20	70	3.5
12	YCS-12/75	*150880	120	75	17.2	132	195	20	70	4.5
21	YCS-21/50	*150897	214	50	30.5	153	173	27	100	8.5
21	YCS-21/150	*150903	214	150	30.5	458	335	27	100	15.0
33	YCS-33/60	*150910	335	60	47.9	287	193	33	114	12.0
33	YCS-33/150	*150927	335	150	47.9	716	343	33	114	21.0
57	YCS-57/70	*150934	567	70	81.0	562	242	42	150	25.0
62	YCS-62/150	*150941	618	150	88.3	1330	335	55	163	38.0
93	YCS-93/75	*150958	930	75	133	990	280	80	214	55.0

Dimensions model YCS

Model	YCS-12/40	YCS-12/75	YCS-21/50	YCS-21/150	YCS-33/60	YCS-33/150	YCS-57/70	YCS-62/150	YCS-93/75
A, mm	135	188	163	325	183	333	230	323	265
B, mm	175	263	213	475	243	483	300	473	340
C, mm	20	20	27	27	33	33	42	55	80
D, mm	70	70	100	100	114	114	150	163	214
E, mm	55	55	73	73	90	90	118	130	170
F, mm	40	40	53	53	65	65	90	100	136
J, mm	38	38	50	50	62	62	85	96	132
K, mm	3	3	3	3	3	3	3	3	5
M, mm	–	–	–	120	–	120	–	–	–
O, mm	M30x1.5	M30x1.5	M40x1.5	M40x1.5	M48x1.5	M48x1.5	M65x2	M78x2	M115x2
P, mm	20	20	25	25	30	30	35	40	45
R, mm	4	4	5	5	5	5	5	5	–
S, mm	–	–	–	51	–	51	24	24	24
T, mm	–	–	–	–	–	–	155	200	170
U, mm	58	58	82	82	92	92	120	135	180
V, mm	2xM8	2xM8	2xM10	2xM10	4xM10	4xM10	4xM12	4xM12	4xM16
W, mm	30	30	35	35	40	40	50	60	–
X, mm	M70x2	M70x2	M100x2	M100x2	M110x2	M110x2	M150x3	M160x3	–
Y, mm	7	7	10	10	10	10	12	12	15