

Cylinders (mm)								
model	HCL-10 (B)	HCL-12 (B)	HCL-17 (B)	HCL-22 (B)	HCL-30 (B)	HCL-40 (B)	HCL-60 (B)	HCL-76 (B)
art. nr; clear	160.012.056	160.012.058	160.012.048	160.012.050	160.012.052	160.012.054	160.012.099	160.012.101
black	160.012.057	160.012.059	160.012.049	160.012.051	160.012.053	160.012.055	160.012.100	160.012.102
max. working pressure	Mpa/bar	44 / 440	44 / 440	44 / 440	44 / 440	44 / 440	35 / 350	35 / 350
max. pulling force	kN	26.5	38.7	49.7	62.8	102.8	142.2	189
piston area (mm ²) (hydraulics)		603	880	1131	1429	2337	3233	5400
stroke		350	375	375	400	430	500	600
oil content		211	330	424	572	1005	1616	3240
type of oil		ISO VG15/22	ISO VG15/22	ISO VG15/22	ISO VG15/22	ISO VG15/22	ISO VG15/22	ISO VG15/22
piston area (mm ²) (pneumatics)		804	1134	1385	1810	2827	3848	6362



Cylinders

Long stroke

Our cylinders have a long stroke as standard, giving you maximum trim possibilities.

Lightweight

Advanced design techniques and materials keep weight to a minimum.

Durable design

High-quality materials and manufacturing ensures robust and reliable performance.

Various finish options

Clear and black anodized aluminium finish as standard.



Dimensions (mm)

model	HCL-10 (B)	HCL-12 (B)	HCL-17 (B)	HCL-22 (B)	HCL-30 (B)	HCL-40 (B)	HCL-60 (B)	HCL-76 (B)
A cylinder diameter	45	54	60	68	98	98	115	115
B cylinder connection	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC	7/16"-20 JIC
C1 thread of plunger rod	½"-20 UNF	5/8"-18 UNF	5/8"-18 UNF	3/4"-16 UNF	1"-12 UNF	1"-12 UNF	1 ¼"-12 UNF	1 ¼"-12 UNF
C2 length of thread	80	110	110	110	110	110	115	115
D pin diameter	12.7	15.8	15.8	18.8	22	25.3	31.8	31.8
E1 groove width	13.1	16.5	16.5	19.5	22,5	25.5	36.5	36.5
E2 shim width	10.3	13.7	13.7	16.5	19,5	22.5	31.9	33.5
F1 width of jaw	34	41	42.5	49	55	69	80	80
F2 width of pin	37.2	45.1	46.7	53.1	59,2	72.2	83.2	83.2
H plunger rod diameter	16	18	18	22	25	28	35	35
G gas filling opening	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP	¼" BSP
I distance to center of pin	20.3	22.4	23.4	28.2	31.9	37.8	47.2	47.2
J1 depth of groove of jaw	52.3	57.4	58.4	63.2	66.9	73.8	112.2	112.2
J2 depth of groove of jaw	52.3	57.4	57.5	70.2	75.9	81.8	121.2	121.2
L maximum length	1004	1073	1069	1127	1197	1339	1591	1591
L1 maximum length	1028	1099	1095	1161	1234	1376	1656	1656
K yoke diameter	45	46	52	56	76	86	100	100
Weight (lb)	2.3	3.4	3.9	5.3	8.2	12.1	18.3	18.3

