

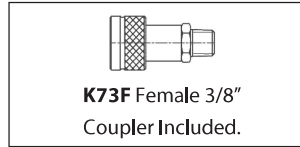
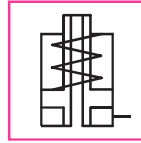
Single-Acting, Spring Return, Hollow Piston Cylinders

CMF Series

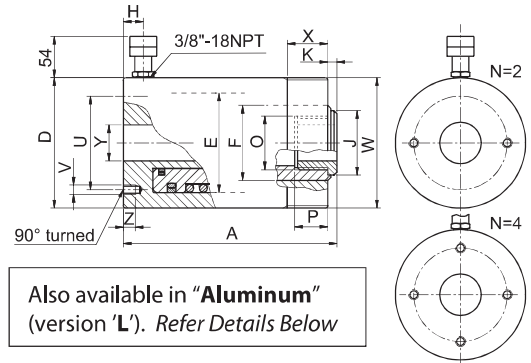
Capacity:
10 - 100 tonnes

Stroke:
50 - 160 mm

Maximum Operating Pressure:
700 bar (10,000 psi)



- Hollow Piston design permits both pull & push forces.
- Operate in any directional position.
- Collar threads & base mounting holes for easy fixturing.
- Smooth hollow bore saddle screwed to rod bore to prevent any risk of rod deformation. Optional threaded saddle (ZTE) available to adapt threaded pulling rod.
- Wiper seal prevents dirt penetration & extends cylinder life.
- Nitride-treated to resist wear, provides excellent corrosion resistance & protect the bore centre.
- A bar or cable can be inserted through the hollow saddle for both pull & push operations.
- Suitable for pulling, tensioning, pulley, bearing/bush extracting etc.

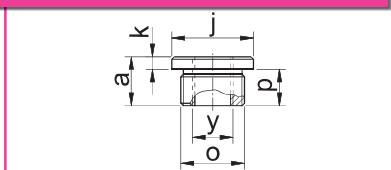


SELECTION CHART

Force (PUSH)	Stroke	Effective Area	Oil Volume	MODEL	Closed Height	Outside Dia. ('L' Version - Aluminum)	Bore Dia.	Piston Rod Dia.	Coupler Height	Hollow Saddle Dia.	Rod Protrusion	Rod Internal Thread	Rod Thread Depth	PCD Mounting Holes	Base Mounting Holes/ Holes Depth	Collar Thread	Collar Thread Length	Centre Hole Dia.	Weight (Steel)	Weight 'L' Version (Aluminum)
					A	D	E	F	H	J	K	O	P	U	V/Z	W	X	Y	kg	kg
10 (123)	50	17,57	88	CMF10N50	132	74 (75)	55	40	19	34,5	1	M30x1,5	16	50,8	2xM8 8	M74x2	20	21	3,8	2,5
	80	17,57	141	CMF10N80	176														4,8	3,1
20 (230)	50	32,86	164	CMF20N50	150	100 (105)	75	56	19	47,5	2	M40x1,5	24	82,6	2xM8 10	M100x2	20	28	7,8	5,3
	100	32,86	328	CMF20N100	221														10,7	7,4
	160	32,86	525	CMF20N160	305														14,1	9,5
30 (334)	50	47,71	239	CMF30N50	160	115 (125)	90	65	21	57,5	2	M48x1,5	32	92,2	2xM10 12	M115x2	20	34	10,5	8,1
	100	47,71	477	CMF30N100	233														14,5	11
	150	47,71	716	CMF30N150	303														18,1	13,6
60 (590)	75	84,29	632	CMF60N75	219	165 (180)	125	90	26	81,5	2	M72x1,5	40	130,2	2xM12 16	M165x4	25	54,5	28,9	21,4
	150	84,29	1264	CMF60N150	331														39,9	28,6
100 (947)	75	135,29	1015	CMF100N75	270	215 (235)	165	125	36	117,5	4	M102x1,5	55	130	4xM12 15	M215x4	35	80,5	59,3	44,6

Nominal value shown in 'Tonnes', see kN for the exact force @700bar.

ACCESSORIES: ZTE THREADED SADDLES



MODEL	For use with	a	k	j	p	y	o	kg
ZTE10	CMF10 # # # #	20	4	34,5	16	3/4" - 16 UNC	M30x1,5	0,1
ZTE20	CMF20 # # # #	30	6	47,5	24	1" - 8 UNC	M40x1,5	0,25
ZTE30	CMF30 # # # #	39	7	57,5	32	1 1/4" - 7 UNC	M48x1,5	0,32
ZTE60	CMF60 # # # #	47	7	81,5	40	1 5/8" - 5 1/2 UNS	M72x1,5	0,85

MODEL CODING

CMF	10	N	###
Series	Pushing Force in Tonne	N = In Steel L = in Aluminum	Stroke in mm