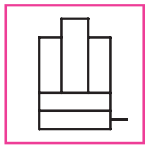
Single-Acting, Load Return, High Tonnage Cylinders

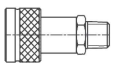
CGS Series

Capacity:
50 - 500 tonnes

Stroke:
25 - 300 mm

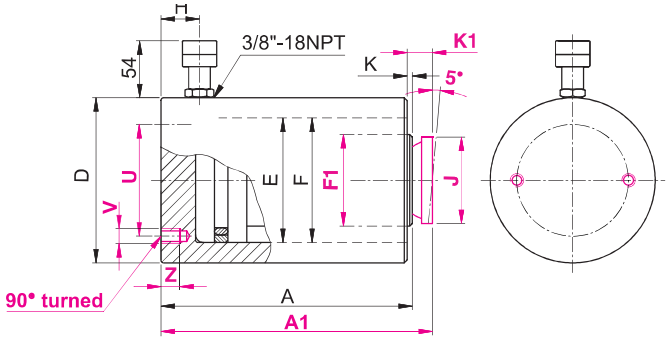
Maximum Operating Pressure:
700 bar (10,000 psi)





K73F Female 3/8"
Coupler Included.

- Extremely solid robust cylinders.
- Concentric machined grooves on piston rod end improve load grip.
- Nitride anti-corrosive treatment provides excellent corrosion & wear resistance in harsh environments.
- Cylinders are plunging type & have device to prevent any over-stroke.
- Piston rod has a coloured zone which becomes visible 10mm before the end of the piston stroke ('P' version).
- Lifting eyelets equipped on all models.
- Suitable for use in civil & marine engineering industries for lifting & lowering of heavy loads, piling testing etc.
- **'N' version** – Cylinder with end of stroke ring nut. (In compliance with ANSI B30.1)
- **'P' version** – Cylinder with no end of stroke nut (Plunging).
- **'F' version** – Cylinder with base mounting holes.
- **'T' version** – Cylinder with integrated tilt saddle.



All models can operate with off-centred load up to **8%** of their nominal capacity.

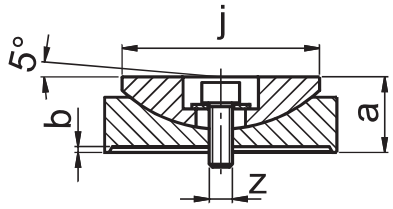
ZTT Tilt Saddle (Optional) – to reduce the effects of any off-centred loads. *Refer Details Below*

MODEL CODING

CGS	5	N	###	#
Series	Pushing **Force** in tonne	**N** = With end of stroke nut **P** = With no end of stroke nut (Plunging)	**Stroke** in mm	**F** = with base mounting holes **T** = with integrated tilt saddle**

** Cylinders with non standard force and stroke can be supplied upon request

ACCESSORIES: ZTT TILT SADDLES



MODEL	For use with	a	b	j	z	kg
ZTT50	CGS50 # # # #	25	1	68	M8	0,9
ZTT100	CGS100 # # # #	34	2	88		1,7
ZTT150	CGS150 # # # #	45	3	118		3,4
ZTT200	CGS200 # # # #	54		148	M10	7,0
ZTT250	CGS250 # # # #	58		158		9,5
ZTT300	CGS300 # # # #		3			11,3
ZTT350	CGS350 # # # #			196		18,0
ZTT400	CGS400 # # # #	71			M12	20,7
ZTT500	CGS500 # # # #					23,8

SELECTION CHART

Force (PUSH)	Stroke	Effective Area	Oil Volume	MODEL	Closed Height	Closed Height with integrated Tilt Saddle	Outside Dia.	Bore Dia.	'P' Rod Version Dia.	'N' Rod Version Dia.	Coupler height	Integrated Tilt Saddle Dia. ('T' Version)	Rod Protrusion	Rod Protrusion with Integrated Tilt Saddle ('T' Version)	PCD Mounting Holes ('F' Version)	Bore Mounting Holes/ Holes Depth ('F' Version)	Weight
Tonnes kN	mm	cm^2	cm^3		A mm	A1 mm	D mm	E mm	F mm	F1 mm	H mm	J mm	K mm	K1 mm	U mm	V/Z mm	kg
50 (496)	50	70,86	354	CGS50P50	122	127	127	95	95	80	22	68	1	6	95	2xM12 15	11,6
	100	70,86	709	CGS50P100	172	177											15,8
	150	70,86	1063	CGS50P150	222	227											20,0
100 (929)	50	132,71	664	CGS100P50	141	148	175	130	130	100	22	88	2	9	130	2xM12 17	24,8
	100	132,71	1327	CGS100P100	191	198											32,0
	150	132,71	1991	CGS100P150	241	248											39,3
150 (1407)	25	201	503	CGS150P25	137	146	213	160	160	120	30	118	3	12	130	4xM12 17	36,5
	50	201	1005	CGS150P50	162	171											41,8
	100	201	2011	CGS150P100	212	221											52,4
	150	201	3016	CGS150P150	262	271											62,9
	200	201	4021	CGS150P200	312	321											73,4
	250	201	5026	CGS150P250	362	371											83,9
200 (1984)	25	283,43	709	CGS200P25	151	160	252	190	190	150	32	148	3	12	140	4xM16 20	57
	50	283,43	1418	CGS200P50	176	185											65
	100	283,43	2835	CGS200P100	226	235											81
	150	283,43	4253	CGS200P150	276	285											95
	200	283,43	5670	CGS200P200	326	335											111
	250	283,43	7088	CGS200P250	376	385											126
	300	283,43	8506	CGS200P300	426	435											141
250 (2424)	25	346,29	866	CGS250P25	167	176	280	210	210	170	34	158	3	12	150	4xM16 20	79
	50	346,29	1732	CGS250P50	192	201											88
	100	346,29	3464	CGS250P100	242	251											108
	150	346,29	5195	CGS250P150	292	301											127
	200	346,29	6927	CGS250P200	342	351											146
	250	346,29	8659	CGS250P250	392	401											166
	300	346,29	10391	CGS250P300	442	451											186
300 (2908)	25	415,43	1039	CGS300P25	173	182	305	230	230	190	38	158	3	12	170	4xM16 20	96
	50	415,43	2077	CGS300P50	198	207											108
	100	415,43	4155	CGS300P100	248	257											132
	150	415,43	6232	CGS300P150	298	307											155
	200	415,43	8310	CGS300P200	348	357											178
	250	415,43	10387	CGS300P250	398	407											202
	300	415,43	12464	CGS300P300	448	457											225
350 (3436)	25	490,86	1227	CGS350P25	180	192	332	250	250	210	39	196	3	15	200	4xM16 20	119
	50	490,86	2454	CGS350P50	205	217											132
	100	490,86	4909	CGS350P100	255	267											162
	150	490,86	7363	CGS350P150	305	317											190
	200	490,86	9817	CGS350P200	355	367											218
	250	490,86	12272	CGS350P250	405	417											247
	300	490,86	14726	CGS350P300	455	467											274
400 (4008)	25	572,57	1431	CGS400P25	187	199	356	270	270	230	42	196	3	15	230	4xM16 20	142
	50	572,57	2863	CGS400P50	212	224											159
	100	572,57	5726	CGS400P100	262	274											192
	150	572,57	8588	CGS400P150	312	324											225
	200	572,57	11451	CGS400P200	362	374											257
	250	572,57	14314	CGS400P250	412	424											290
	300	572,57	17177	CGS400P300	462	474											323
500 (4948)	25	706,86	1767	CGS500P25	195	207	396	300	300	250	50	196	3	15	250	4xM16 20	184
	50	706,86	3534	CGS500P50	220	232											204
	100	706,86	7069	CGS500P100	270	282											243
	150	706,86	10603	CGS500P150	320	332											284
	200	706,86	14137	CGS500P200	370	382											323
	250	706,86	17651	CGS500P250	420	432											363
	300	706,86	21206	CGS500P300	470	482											402

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