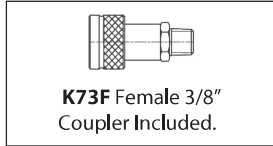
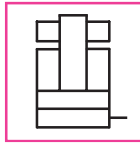


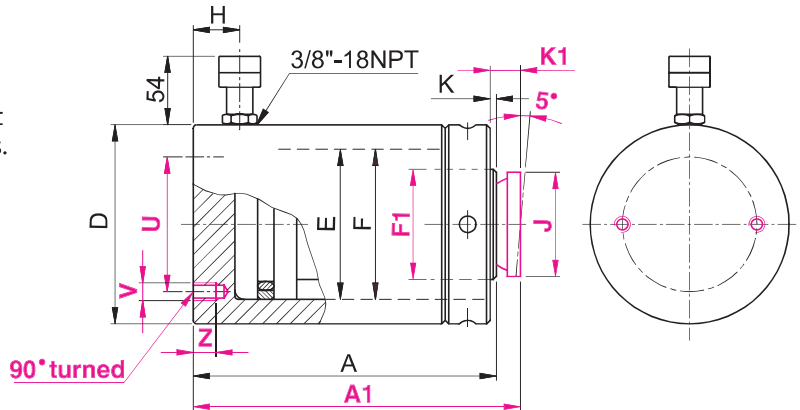
Single-Acting, Load Return, Lock Nut, High Tonnage Cylinders

CGG Series

- Capacity:
30 - 500 tonnes
- Stroke:
25 - 300 mm
- Maximum Operating Pressure:
700 bar (10,000 psi)



- 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 50 tonnes & above 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 50 tonnes & above models.
- Ideal for use in construction industries, such as bridge repairs, underpinning, load support 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.
- **'M' version** – Cylinder with spring return. (Available for 'N' version up to 150 tonnes models)



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

Safety Lock Nut provides positive mechanical load holding supporting lifted load for extended long period with hydraulic pressure released.



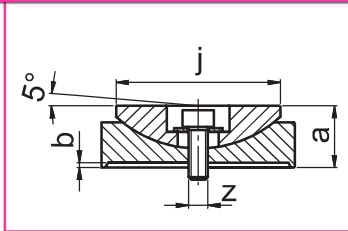
ZTT Tilt Saddle (Optional) – to reduce the effects of any off-centred loads. Refer Details Below

MODEL CODING

C#G	30	N	###	#
Series G (gravity) Series M (spring)	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 a force below 100 tonne can be supplied subject to a minimum production batch, to be advised

ACCESSORIES: ZTT TILT SADDLES



MODEL	For use with	a	b	j	z	kg
ZTT30	CGG30N100	19	1	53	M5	0,3
ZTT50	CGG50 #####	25		68	M8	0,9
ZTT100	CGG100 #####	34	2	88		1,7
ZTT150	CGG150 #####	45		118		3,4
ZTT200	CGG200 #####	54	3	148	M10	7,0
ZTT250	CGG250 #####	58		158	9,5	
ZTT300	CGG300 #####			11,3		
ZTT350	CGG350 #####	71	3	196	M12	18,0
ZTT400	CGG400 #####					20,7
ZTT500	CGG500 #####					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)	Mounting Holes/ Holes Depth (F Version)	Weight
					A mm	A1 mm											
30 (309)	100	44,14	442	CGG30N100	189	193	102	75	-	Tr 65x6	19	53	1	5	65	2xM10 13	11
	50 (496)	70,86	709	CGG50P100	208	213	127	95	Tr 95x6	Tr 85x6	22	68	1	6	95	2xM12 15	19
150	70,86	1063	CGG50P150	258	263	23											
100 (929)	100	132,71	1327	CGG100P100	236	243	175	130	Tr 130x10	Tr 110x10	22	88	2	9	130	2xM12 17	38
	150	132,71	1991	CGG100P150	286	293											45
150 (1407)	25	201	503	CGG150P25	184	193	213	160	Tr 160x10	Tr 130x10	30	118	3	12	130	4xM12 17	47
	50	201	1005	CGG150P50	209	218											52
	100	201	2011	CGG150P100	259	268											66
	150	201	3016	CGG150P150	309	318											74
	200	201	4021	CGG150P200	359	368											85
	250	201	5026	CGG150P250	409	418											95
200 (1984)	25	283,43	709	CGG200P25	205	214	252	190	Tr 190x10	Tr 165x10	32	148	3	12	140	4xM16 20	75
	50	283,43	1418	CGG200P50	230	239											84
	100	283,43	2835	CGG200P100	280	289											100
	150	283,43	4253	CGG200P150	330	339											116
	200	283,43	5670	CGG200P200	380	389											133
	250	283,43	7088	CGG200P250	430	439											149
	300	283,43	8506	CGG200P300	480	489											165
250 (2424)	25	346,29	866	CGG250P25	224	233	280	210	Tr 210x10	Tr 175x10	34	158	3	12	150	4xM16 20	95
	50	346,29	1732	CGG250P50	249	258											104
	100	346,29	3464	CGG250P100	299	308											127
	150	346,29	5195	CGG250P150	349	358											140
	200	346,29	6927	CGG250P200	399	408											158
	250	346,29	8659	CGG250P250	449	458											176
	300	346,29	10391	CGG250P300	499	508											194
300 (2908)	25	415,43	1039	CGG300P25	240	249	305	230	Tr 230x10	Tr 195x10	38	158	3	12	170	4xM16 20	126
	50	415,43	2077	CGG300P50	265	274											137
	100	415,43	4155	CGG300P100	315	324											160
	150	415,43	6232	CGG300P150	365	374											183
	200	415,43	8310	CGG300P200	415	424											205
	250	415,43	10387	CGG300P250	465	474											228
	300	415,43	12464	CGG300P300	515	524											251
350 (3436)	25	490,86	1227	CGG350P25	250	262	332	250	Tr 250x10	Tr 215x10	42	196	3	15	200	4xM16 20	149
	50	490,86	2454	CGG350P50	275	287											162
	100	490,86	4909	CGG350P100	325	337											188
	150	490,86	7363	CGG350P150	375	387											215
	200	490,86	9817	CGG350P200	425	437											241
	250	490,86	12272	CGG350P250	475	487											267
	300	490,86	14726	CGG350P300	525	537											293
400 (4008)	25	572,57	1431	CGG400P25	260	272	356	270	Tr 270x10	Tr 235x10	42	196	3	15	230	4xM16 20	187
	50	572,57	2863	CGG400P50	285	297											203
	100	572,57	5726	CGG400P100	335	347											234
	150	572,57	8588	CGG400P150	385	397											266
	200	572,57	11451	CGG400P200	435	447											298
	250	572,57	14314	CGG400P250	485	497											330
	300	572,57	17177	CGG400P300	535	547											362
500 (4948)	25	706,86	1767	CGG500P25	275	287	396	300	Tr 300x10	Tr 260x10	50	196	3	15	250	4xM16 20	257
	50	706,86	3534	CGG500P50	300	312											278
	100	706,86	7069	CGG500P100	350	362											319
	150	706,86	10603	CGG500P150	400	412											360
	200	706,86	14137	CGG500P200	450	462											402
	250	706,86	17651	CGG500P250	500	512											443
	300	706,86	21206	CGG500P300	550	562											484

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