

CGG#N / CGG#P

CYLINDERS / LOAD RETURN WITH SAFETY NUT HIGH TONNAGE

FEATURES

These cylinders are particularly suitable for applications in which the load has to be supported for long periods. The lock nut can be screwed down onto the cylinder body to hold the load mechanically. This ensures that it's **absolutely safe to operate under load**.

CGG cylinders have concentric grooves machined on the end of the rod to improve the load grip, models above 30 ton have lifting eyelets to facilitate their transport.

From 50 ton upwards, the cylinders are plunging type (**P version**) and have a system which prevents any possible over-stroke. The rod has a coloured zone which becomes visible 10 mm before the end of the piston stroke.

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

OPERATIONAL AREAS

The ideal use for these cylinders is in the Construction Industry for example, bridge repairs and constructions and in the building and maintenance of heavy structural works.

The anti-corrosion treatment applied to these cylinders makes them suitable for use in harsh and adverse environments.

OPTIONS

- **Version T**, cylinder with integrated tilt saddle.
- **Version F**, cylinder with mounting holes for fixing purposes at the bottom.
- **Version N**, (optional starting from 50 t) cylinders with end of stroke ring nut.

This version is in compliance with ANSI B30.1.

- **Version M**, cylinder with spring return.

This version is available for **N - version cylinders up to 150 tons (i.e., CMG50N100)**.

ACCESSORIES (p. 19)

- **ZTT tilt saddle** reduces the effects of any possible off-centred load.



Whenever working space is restricted, **CGR** low profile cylinders offer a perfect solution.

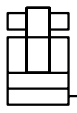


For the **P** version cylinders without end of stroke nut, it is very important that the operator is in position to observe when the coloured zone of the piston appears,



It's important to drop the pressure inside the cylinder before disconnecting the quick coupler to avoid problems if re-inserting or lowering the load. In case some pressure persists it is possible to use the apposite tool **KST38** in order to lower the pressure in the couplers.

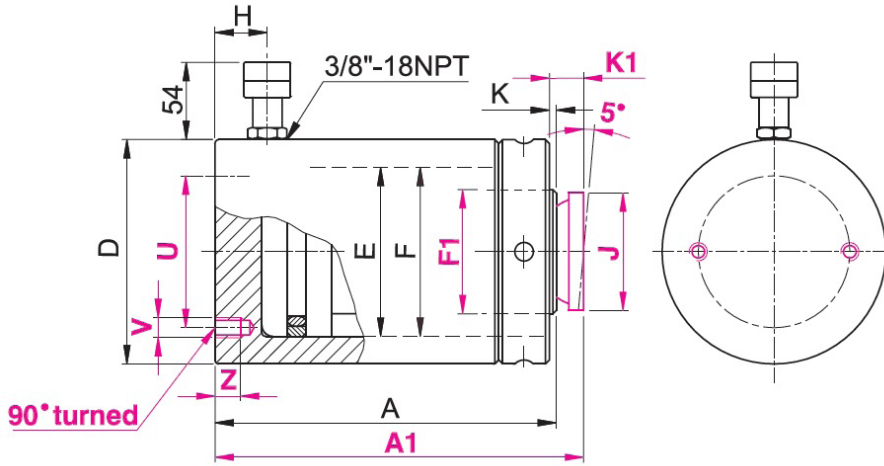




● FORCE	30 - 500 t
● STROKE	25 - 300 mm
● MAX WORKING PRESSURE	700 bar

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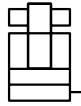
SELECTION CHART

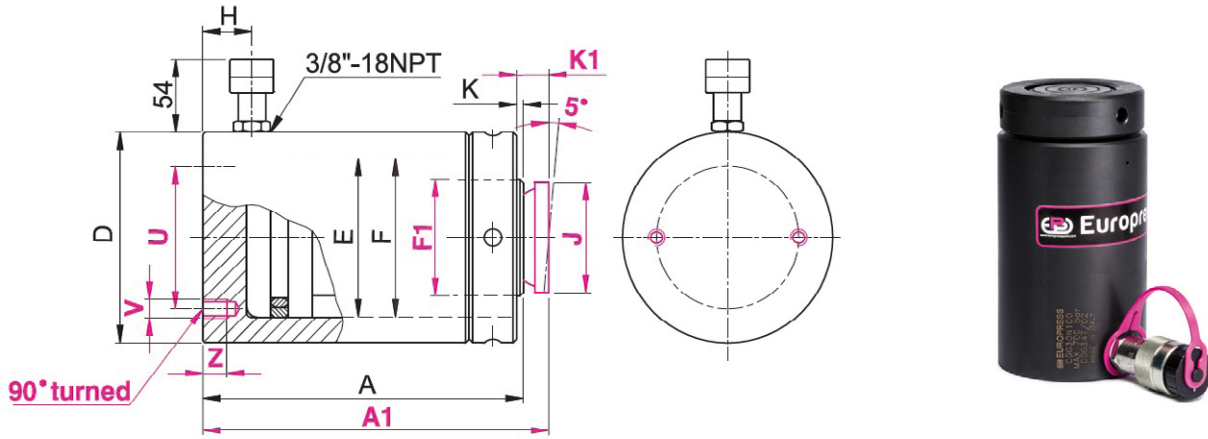
PUSHING FORCE	STROKE	EFFECTIVE AREA	OIL VOLUME	MODEL	CLOSED HEIGHT	CLOSED HEIGHT WITH INTEGRATED TILT SADDLE	Ø EXTERNAL	Ø PISTON	Ø P ROD VERSION	Ø N ROD VERSION	COUPLER HEIGHT	Ø INTEGRATED TILT SADDLE	ROD PROJECTION	ROD PROJECTION WITH INTEGRATED TILT SADDLE	PCD MOUNTING HOLES	MOUNTING HOLES DEPTH	WEIGHT																																								
					A	A1												D	E	F	F1	H	J	K	K1	U	V / Z	kg																													
kN	mm	cm ²	cm ³		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg																																							
30 309	100	44.1	442	CGG30N100	189	193	102	75	-	Tr 65 x6	19	53	1	5	65	2xM10 13	11																																								
	50			355	CGG50P50	158												163	127	95	Tr 95 x6	Tr 85 x6	22	68	1	6	95	2xM12 15	16																												
50 496	100	70.9	709	CGG50P100	208	213	127	95	Tr 95 x6	Tr 85 x6	22	68	1	6	95	2xM12 15	20																																								
	150		1063	CGG50P150	258	263											175	130	Tr 130 x10	Tr 110 x10	22	88	2	9	130	2xM12 17	25																														
100 929	100	132.7	1327	CGG100P100	236	243	175	130	Tr 130 x10	Tr 110 x10	22	88	2	9	130	2xM12 17											44																														
	150		1991	CGG100P150	286	293											213	160	Tr 160 x10	Tr 130 x10	30	118	3	12	130	4xM12 17	54																														
150 1407	25	201	503	CGG150P25	184	193	213	160	Tr 160 x10	Tr 130 x10	30	118	3	12	130	4xM12 17											51																														
	50		1005	CGG150P50	209	218											252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	58																														
	100		2011	CGG150P100	259	268																					252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	72																				
	150		3016	CGG150P150	309	318																															252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	86										
	200		4021	CGG150P200	359	368																																									252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	100
	250		5026	CGG150P250	409	418																																																			252
25	709	CGG200P25	205	214	252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	80																																										
50	1418	CGG200P50	230	239											252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	90																																
100	2835	CGG200P100	280	289																					252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	109																						
150	4253	CGG200P150	330	339																															252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	129												
200	5670	CGG200P200	380	389																																									252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20	148		
250	7088	CGG200P250	430	439																																																			252	190	Tr 190 x10
300	8506	CGG200P300	480	489	252	190	Tr 190 x10	Tr 165 x10	32	148	3	12	140	4xM16 20																																											

* Nominal value, see kN for the exact force.

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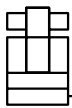
	● FORCE	30 - 500 t
	● STROKE	25 - 300 mm
	● MAX WORKING PRESSURE	700 bar



SELECTION CHART

PUSHING FORCE t* kN	STROKE mm	EFFECTIVE AREA cm ²	OIL VOLUME cm ³	MODEL	CLOSED HEIGHT	CLOSED HEIGHT INTEGRATED TILT SADDLE	Ø EXTERNAL D mm	Ø PISTON E mm	Ø P ROD VERSION F mm	Ø N ROD VERSION F1 mm	COUPLER HEIGHT H mm	Ø INTEGRATED TILT SADDLE J mm	ROD PROJECTION K mm	ROD PROJECTION WITH INTEGRATED TILT SADDLE K1 mm	PCD MOUNTING HOLES U mm	MOUNTING HOLES DEPTH V / Z mm	WEIGHT kg
					A mm	A1 mm											
250 2424	25	346.3	866	CGG250P25	224	233	280	210	Tr 210 x10	Tr 175 x10	34	158	3	12	150	4xM16 20	108
	50		1732	CGG250P50	249	258											120
	100		3464	CGG250P100	299	308											144
	150		5195	CGG250P150	349	358											168
	200		6927	CGG250P200	399	408											192
	250		8659	CGG250P250	449	458											217
	300		10391	CGG250P300	499	508											241
300 2908	25	415.4	1039	CGG300P25	240	249	305	230	Tr 230 x10	Tr 195 x10	38	158	3	12	170	4xM16 20	137
	50		2077	CGG300P50	265	274											152
	100		4155	CGG300P100	315	324											180
	150		6232	CGG300P150	365	374											209
	200		8310	CGG300P200	415	424											238
	250		10387	CGG300P250	465	474											266
	300		12464	CGG300P300	515	524											295
350 3436	25	490.87	1227	CGG350P25	250	262	332	250	Tr 250 x10	Tr 215 x10	42	196	3	15	200	4xM16 20	170
	50		2454	CGG350P50	275	287											187
	100		4909	CGG350P100	325	337											221
	150		7363	CGG350P150	375	387											255
	200		9818	CGG350P200	425	437											289
	250		12272	CGG350P250	475	487											322
	300		14726	CGG350P300	525	537											356

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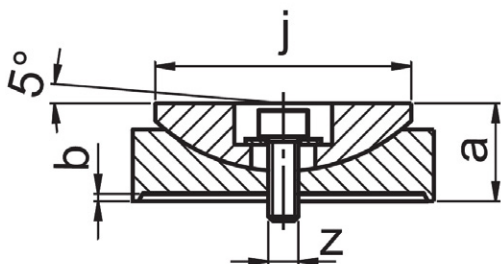
HYDRAULIC CYLINDERS

SELECTION CHART

PUSHING FORCE kN	STROKE mm	EFFECTIVE AREA cm ²	OIL VOLUME cm ³	MODEL	CLOSED HEIGHT	CLOSED HEIGHT INTEGRATED TILT SADDLE	Ø EXTERNAL D	Ø PISTON E	Ø P ROD VERSION F	Ø N ROD VERSION F1	COUPLER HEIGHT H	Ø INTEGRATED TILT SADDLE J	ROD PROJECTION K	ROD PROJECTION INTEGRATED TILT SADDLE K1	PCD MOUNTING HOLES U	MOUNTING HOLES DEPTH V / Z	WEIGHT kg
					A	A1											
400 4008	25	572.6	1431	CGG400P25	260	272	356	270	Tr 270 x10	Tr 235 x10	42	196	3	15	230	4xM16 20	203
	50		2863	CGG400P50	285	297											222
	100		5726	CGG400P100	335	347											261
	150		8588	CGG400P150	385	397											300
	200		11451	CGG400P200	435	447											340
	250		14314	CGG400P250	485	497											379
	300		17177	CGG400P300	535	547											418
500 4948	25	706.9	1767	CGG500P25	275	287	396	300	Tr 300 x10	Tr 260 x10	47	196	3	15	250	4xM16 20	265
	50		3534	CGG500P50	300	312											290
	100		7069	CGG500P100	350	362											338
	150		10603	CGG500P150	400	412											386
	200		14137	CGG500P200	450	462											435
	250		17651	CGG500P250	500	512											483
	300		21206	CGG500P300	550	562											531

* Nominal value, see kN for the exact force.

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	M10	1.7
ZTT150	CGG150 # # # #	45	3	118		3.4
ZTT200	CGG200 # # # #	54	58	148		7
ZTT250	CGG250 # # # #	58		158		9.5
ZTT300	CGG300 # # # #	71	3	196	M12	11.3
ZTT350	CGG350 # # # #					18
ZTT400	CGG400 # # # #					20.7
ZTT500	CGG500 # # # #					23.8

MODEL CODING

C # G	30	N	###	#
Series G (gravity) Series M (spring)	Pushing Force in t	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.