CGR

CILINDERS / LOAD RETURN WITH SAFETY NUT LOW PROFILE

FEATURES

Pancake lock ring cylinders have a system which prevents any possible over-stroke.
The rod on these cylinders has a coloured area which appears 10mm before the maximum stroke has been reached. This version does not conform to **ANSI B30.1**.

These cylinders are particularly suitable for applications in which the load has to be left in a raised position for long periods.
The threaded safety nut, which blocks mechanically the cylinder boby, allows to **operate in total safety under the load**.

All cylinders are supplied with integrated tilt saddle and eyelets in order to ease their transport.

OPERATIONAL AREAS

CGR cylinders are suggested in the construction and maintenance of bridges, viaducts, building and industrial sites where the working space is limited.

The protective nitriding treatment on these cylinders gives them excellent resistance to corrosion.

STANDARD

Integrated tilt saddle, reduces the effects of possible off-centred loads.

CGR cylinders have been designed for use in applications where space is limited and to stand the full load even without a pressure distribution plate below. It is anyhow recommended that pressure plates are placed both under the base and on top of the saddle to distribute the load if the support resistance is not compatible with the PRESSURE shown in the chart. Non compliance with this notice could result in damage to the cylinder and/or the load being lifted..

During the lifting operation the operator must always be in a position to observe when the coloured end of section of the rod appears.

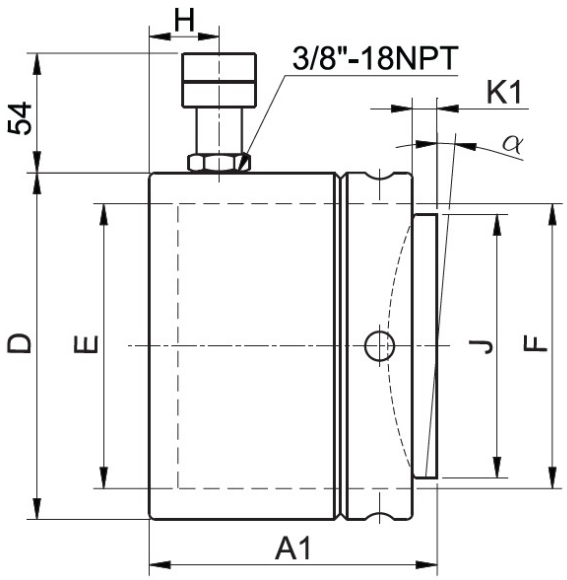
It's important to drop the pressure inside the cylinder bifore disconnecting the quick coupler to avoid problems if re-inserting or lowering the load.
In case some pressure persists it is possible to use the apposite tool KST38 in order to lower the pressure in the cylinder.

Although the standard tilt saddle allows to adjust the working load, it's suggested to avoid any side component especially if the cylinder is more than 20 mm of stroke.

● FORCE	60 - 900 t
● STROKE	50 mm
● MAX WORKING PRESSURE	700 bar

CGR

CILINDERS / LOAD RETURN WITH SAFETY NUT LOW PROFILE



SELECTION CHART

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

PUSHING FORCE	STROKE	EFFECTIVE AREA	OIL VOLUME	CYLINDER BOTTOM PRESSURE	SADDLE PRESSURE	MODEL	CLOSED HEIGHT	Ø EXTERNAL	Ø PISTON	Ø ROD	COUPLER HEIGHT	Ø TILT SADDLE	ROD PROJECTION WITH INTEGRATED TILT SADDLE	TILT SADDLE ANGLE	WEIGHT
t* kN	mm	cm²	cm³	MPa	MPa		A1 mm	D mm	E mm	F mm	H mm	J mm	K1 mm	α	kg
60 606	50	86.6	433	39	100	CGR60N50	125	140	105	Tr 105x6	19	88	6	5°	16
110 1078		154	770	46	113	CGR110N50	137	178	140	Tr 140x10	19	118	8	5°	26
160 1589		227	1135	45	102	CGR160N50	148	218	170	Tr 170x10	19	148	9	5°	42
200 1985		283.6	1418	45	87	CGR200N50	154	242	190	Tr 190x10	20	176	10	5°	54
250 2424		346.3	1732	45	84	CGR250N50	159	268	210	Tr 210x10	22	196	11	5°	68
400 4008		572.6	2863	44	89	CGR400N50	178	347	270	Tr 270x10	27	248	11	4°	128
500 4948		706.9	3534	44	81	CGR500N50	192	385	300	Tr 300x10	30	285	10	3°	171
700 6735		962.1	4811	44	85	CGR700N50	200	445	350	Tr 350x10	30	325	10	3°	238
900 8796		1256.6	6283	47	83	CGR900N50	216	495	400	Tr 400x10	30	375	12	3°	315

* Nominal value, see kN for the exact force.