

COG

OIL RETURN CYLINDER WITH SAFETY NUT FOR HIGH TONNAGE

FEATURES

Designed in function of their strength, they have the extremity of the rod equipped with grooved saddles in order to improve the grip of the load. All models are equipped with eyelets to facilitate their transport and positioning. A safety valve, calibrated at 150 bar, connected to the return chamber, avoids possible overpressure.

OPERATIONAL AREAS

They are very solid hydraulic cylinders recommended for lifting, pillaring and lowering operations. Given their double acting configuration they are suggested for the synchronous lowering with split flow power packs.

They are mostly used in works of civil, naval, iron metallurgy, mechanical engineering, in industrial assembly and in heavy carpentry where the quick and total return of the rod and the support of the load with the safety nut are fundamental requirements.

OPTIONS:

- **F version**, cylinder with base mounting holes for fixing purposes.

ACCESSORIES:

- **Separate ZTT tilt saddle** reduces the effects of possible off-centred loads.



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 KTS38.

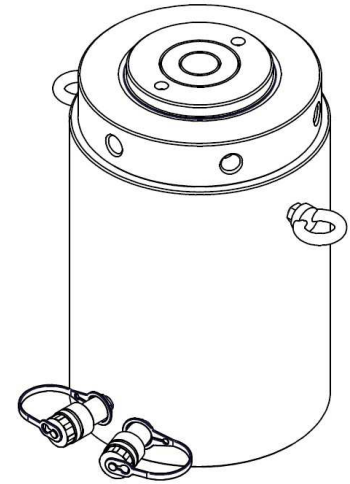
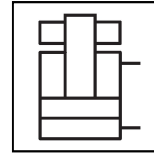
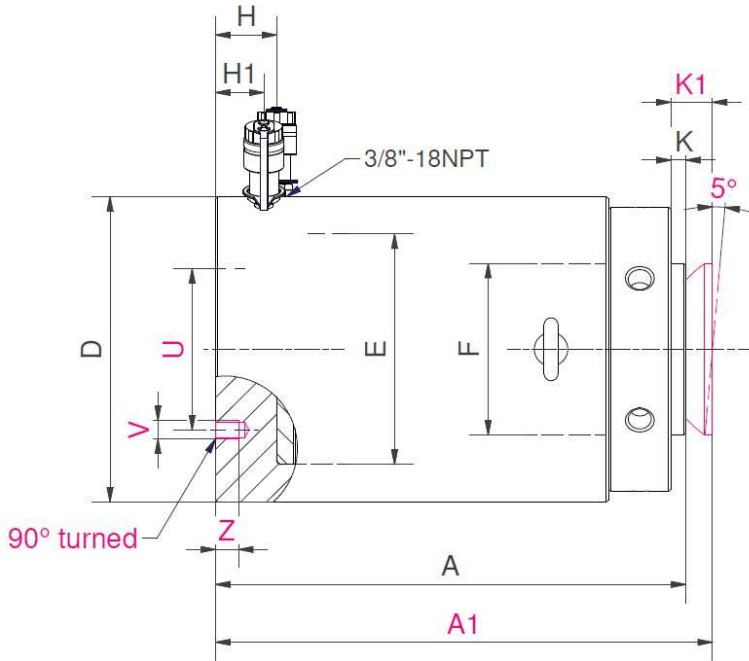
ACCESSORIES: ZTT tilt saddles

	MODEL	For use with	a	b	c	j	u	z	w	kg
	ZTT101	COG100N ###	22	32	10	88	85	6,5	65	1,6
ZTT151	COG150N ###	32	42	118		105	80		3,2	
ZTT201	COG200N ###	39	51	12	148	135	8,5	110	6,5	
ZTT301	COG300N ###	43	55		158	175		150	11	
ZTT401	COG400N ###	56	68		196	215		190	20,2	

MODEL CODING

COG	100	N	###	#
Series	Pushing FORCE in tonne	N = standard	STROKE in mm	F = with base mounting holes

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- **Force** _____ 100 - 400 t
- **Stroke** _____ 100 - 250 mm
- **Max working pressure** _____ 700 bar pushing
150 bar pulling

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

SELECTION CHART

Pushing force @700 bar	Pulling force @150 bar	Stroke	Pushing effective area	Pulling effective area	Pushing oil volume	Pulling oil volume	MODEL	Closed height		Ø External	Ø Piston	Ø Rod	Couplers height		Rod projection	Rod projection with tilting saddle mounted	PCD mounting holes	Mounting holes Depth	Weight	
								A	A1				H	H1						U
t* kN	t* kN	mm	cm ²	cm ²	cm ³	cm ³		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
100 1028	5 47	100	147	31	1469	314	COG100N100	272	292	188	140	Tr 120 x6	40	30	12	32	130	2xM12 15	51	
		150			2203	471	COG100N150	322	342										59	
150 1539	5 47	100	220	31	2199	314	COG150N100	278	298	226	170	Tr 130 x10	40	30	12	32	130	4xM12 17	73	
		150			3299	471	COG150N150	328	348										84	
		200			4398	628	COG150N200	378	398										95	
		250			5498	785	COG150N250	428	448										106	
200 2131	10 103	100	305	69	3045	689	COG200N100	305	331	265	200	Tr 165 x10	50	38	13	39	140	4xM16 20	109	
		150			4568	1034	COG200N150	355	381										125	
		200			6091	1378	COG200N200	405	431										140	
		250			7613	1723	COG200N250	455	481										156	
300 3099	10 103	100	443	69	4428	689	COG300N100	336	363	317	240	Tr 195 x10	50	38	16	43	170	4xM16 20	174	
		150			6641	1034	COG300N150	386	413										197	
		200			8855	1378	COG300N200	436	463										220	
		250			11069	1723	COG300N250	486	513										243	
400 4008	20 175	100	560	117	5600	1168	COG400N100	380	413	356	270	Tr 235 x10	60	42	23	56	230	4xM16 20	252	
		150			8400	1752	COG400N150	430	463										282	
		200			11200	2337	COG400N200	480	523										313	
		250			14000	2921	COG400N250	530	563										343	

* Nominal value, see kN for the exact force