



HYDROSERVICE
engineering & systems

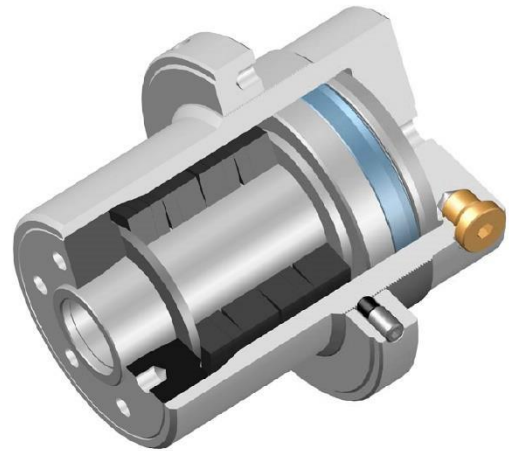
SPRING CLAMPING CYLINDERS



APPLICATIONS

Universal spring clamping cylinder to be used to clamp mobile components of equipment such as:

- Machine tools
- Servo-locking tools
- Saddles
- Pallets
- Tailstocks
- Work pieces
- Tools
- Die-locking presses



ADVANTAGES

- 10 possibilities to select the clamping force
 - Clamping through Belleville washers
 - Reduce manufacturing size
 - Piston with anti-rotation device
 - Axial and radial oil feeding through air bleeds
- Hardened and ground disks for a reduced friction on springs
 - Easy assembly and calibration

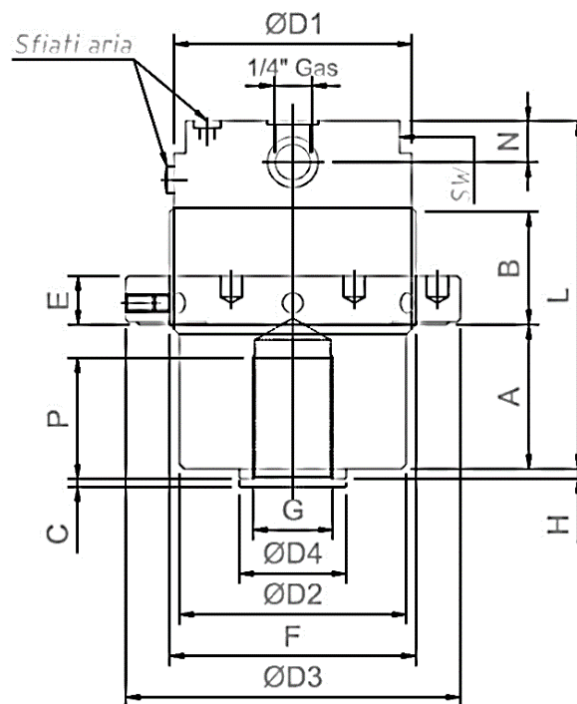


TECHNICAL FEATURES

HYDRAULIC FLUID	Mineral oil
FLUID VISCOSITY	10÷ 400 cSt
RECCOMANDED VISCOSITY	32÷68 cSt
TEMPERATURE RANGE	-20°C +80°C
MAX WORKING PRESSURE	(see technical features table)

TECHNICAL FEATURES "CBM" SERIES

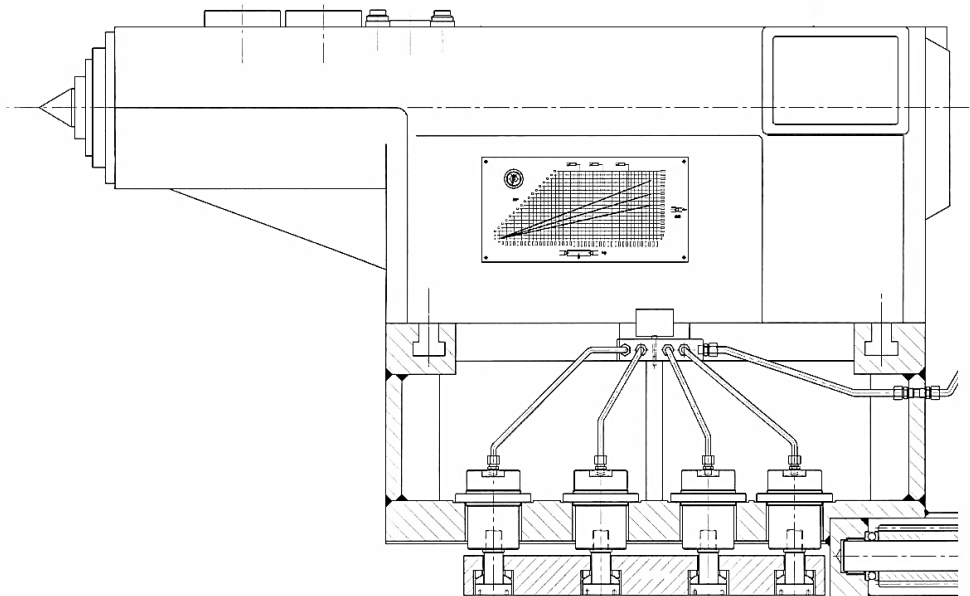
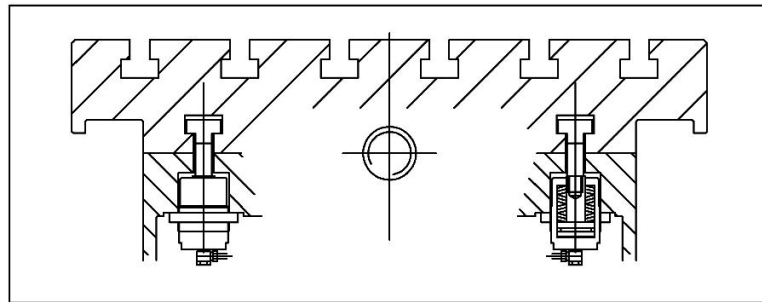
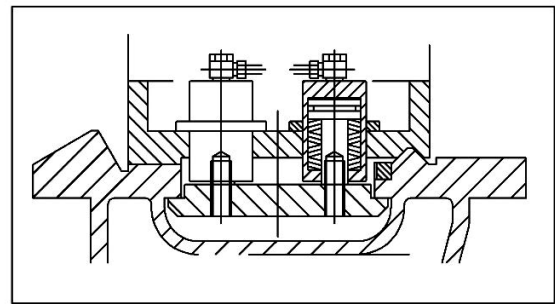
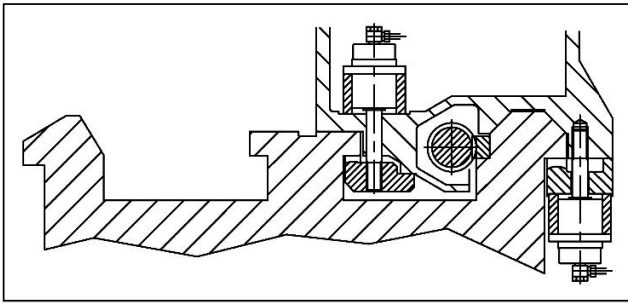
CBM Type CODE	Clampng force kN	Adjusting pressure BAR	Release pressure at stroke C=0,5 mm	Release pressure at stroke C=1 mm	Volume (stroke 1mm) cm ³	Weight kg
0070-000-001-01	16	130	160	200	1,4	2
0070-000-002-01	25	130	160	180	2	2,7
0070-000-003-01	40	150	170	190	2,9	4
0070-000-004-01	65	175	210	230	3,9	6
0070-000-005-01	100	210	240	270	5	8
0070-000-006-01	125	180	210	240	7,5	16
0070-000-007-01	160	200	230	270	9,5	20
0070-000-008-01	200	210	240	270	12	26
Contact us	250	190	210	230	15,5	40
Contact us	350	190	210	230	20,5	60



DIMENSIONS (mm)

CODE	TYPE	A min.	A max	B	ØD1	ØD2	ØD3	ØD4	E	F	G	H	L	N	P	SW
0070-000-001-01	CBM-16	45	53	22	55	55	85	20	14	M 58x1,5	M 14x1,5	4	97	11	24	50
0070-000-002-01	CBM-25	45	58	27	65	65	95	25	14	M 68x1,5	M 18x1,5	4	103	11	30	60
0070-000-003-01	CBM-40	53	70	32	75	75	110	30	15	M 78x1,5	M 22x1,5	4	118	12	36	70
0070-000-004-01	CBM-65	63	78	33	89	85	125	40	18	M 92x1,5	M 30x1,5	6	130	12	45	80
0070-000-005-01	CBM-100	73	93	38	99	95	140	40	18	M 102x1,5	M 30x1,5	5,5	145	12	45	90
0070-000-006-01	CBM-125	70	90	42	127	127	170	50	22	M 130x2	M 38x1,5	6	165	15	50	120
0070-000-007-01	CBM-160	70	100	55	142	142	180	50	30	M 140x2	M 38x1,5	6	172	15	50	130
0070-000-008-01	CBM-200	80	120	75	143	143	190	57	35	M 148x3	M 45x1,5	6	200	15	60	125
Contact us	CBM-250	100	130	70	170	170	220	70	40	M 168x3	M 45x1,5	6	228	25	60	-
Contact us	CBM-350	105	135	80	200	200	250	80	45	M 198x3	M 52x1,5	6	238	35	70	-

APPLICATIONS EXAMPLE



INDICATION FOR FITTING AND USE

- Position the cylinder and the tie-rod in the assembly seat having care to lock the thread with the suitable paste.
- Feed the cylinder with the feeding pressure.
- Reduce the clearance with the ring nut assuring the position with the locking screw.
- Discharge the registering pressure to clamp.
- Feed the cylinder with the stroke pressure to unclamp.
- Check the setting of the clamping point after about 500 cycles registering the ring nut again through the registration pressure.

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