

Stainless steel minicylinders Series 94 and 95

Single-acting and double-acting
 Standard CETOP RP52-P DIN/ISO 6432
 Series 94: ø12, 16, 20, 25 magnetic
 Series 95: ø16, 20, 25 magnetic, cushioned

The stainless steel cylinders Series 94 and 95 are suitable for use in harsh and corrosive environments.

These cylinders suit applications where, for hygienic reasons, the cylinder will be exposed to rigorous cleaning. They are therefore suitable for use in the off-shore, naval, pharmaceutical, nuclear and food industries.



C Y L I N D E R S

- ▶ ISO/DIN 6432
- ▶ Stainless steel AISI 316
- ▶ Several possible applications

GENERAL DATA

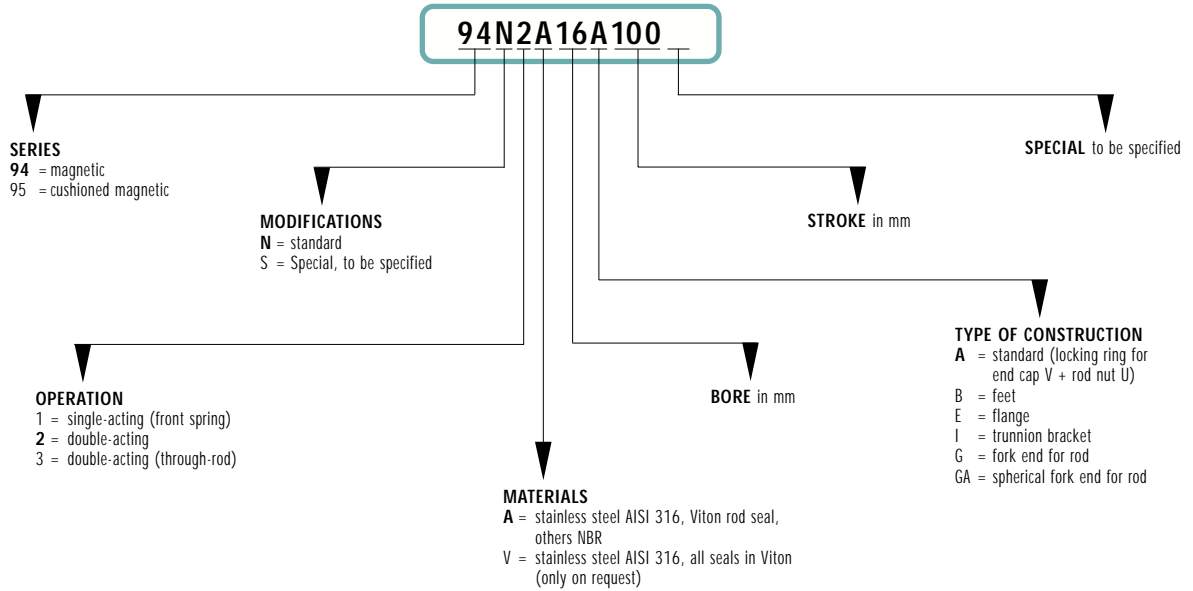
Type of construction	compact, end blocks secured to the tube
Operation	single-acting and double-acting
Materials	stainless steel AISI 316 end blocks*, tube and rod, NBR seals
Type of mounting	screw - flange - feet - swivel combination
Strike	standard (see table)
Bore	Series 94: 16, 20, 25 mm Series 95: 25 mm
Posizione di montaggio	any positions
Operating temperature	0° - 80°C (with dry air -20°C)
Special designs	for applications in damp, dusty or aggressive environments
*ø 16 e 20 stainless steel AISI 304 tube.	

PNEUMATIC SPECIFICATIONS

Operating pressure	1 ÷ 10 bar
Speed	10 ÷ 1000 mm/sec (load)
Fluid	clean air, with or without lubrication

The company reserves the right to vary models and dimensions without notice. These products are designed for industrial applications and are not suitable for sale to the general public.

CODING OF MINICYLINDERS SERIES 94 AND 95



Note: All cylinders are supplied with the locking ring for end cap and the rod nut. The brackets are supplied separately.

TABLE SHOWING THE OUTPUT FORCE OF SERIES 94 AND 95

ø cyl. in mm.	ø Rod in mm.	Working area in cm ² .	Operating pressure in bar										
			1	2	3	4	5	6	7	8	9	10	
16	6	Thrust side	2,00	18	35	53	71	88	106	123	141	159	176
		Traction side	1,72	15	30	46	61	76	91	106	122	137	152
20	8	Thrust side	3,14	28	55	83	111	138	166	193	222	250	277
		Traction side	2,64	23	47	70	93	116	140	162	186	210	233
25	10	Thrust side	4,90	43	86	130	173	216	260	302	346	389	432
		Traction side	4,12	36	73	109	145	181	218	254	291	327	363

THE VALUES SHOWN IN THE TABLE WERE OBTAINED USING THE FOLLOWING FORMULAE:

$$S_s = \frac{D^2 \cdot P \cdot \eta}{4} \quad S_t = \frac{(D^2 - d^2) \cdot P \cdot \eta}{4}$$

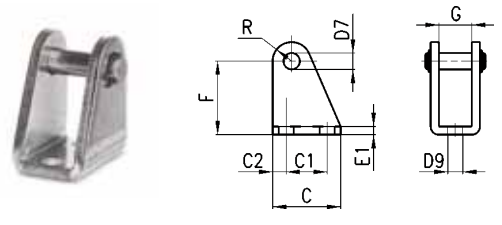
S_s = output force on thrust side P = operating pressure in bar d = rod diameter in cm.
S_t = output force on traction side D = diameter on thrust side in cm. η = efficiency factor

TABLE SHOWING STANDARD STROKES FOR MINICYLINDERS SERIES 94 AND 95

- Double-acting
- × Single-acting

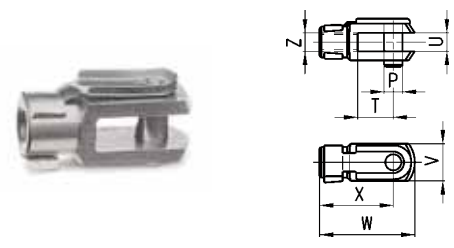
Series	ø	Operating pressure in bar													
		10	25	40	50	80	100	125	160	200	250	300	320	400	500
94	16	×	×	×	×	■	■	■	■	■	■	■	■	■	■
94	20	×	×	×	×	■	■	■	■	■	■	■	■	■	■
94	25	×	×	■	×	■	■	■	■	■	■	■	■	■	■
95	25	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Trunnion Bracket Mod. I...



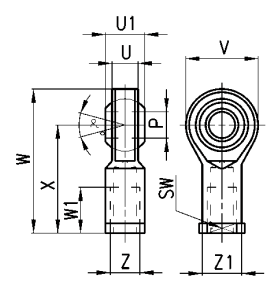
DIMENSIONS											
Mod.	øcyl.	C	C1	C2	D7	D9	E1	F	G	R	
I-94-12-16	12-16	25	15	5	6	5,5	3	27	12,1	7	
I-94-20-25	20-25	32	20	6	8	6,6	4	30	16,1	10	

Rod Fork End Mod. G...



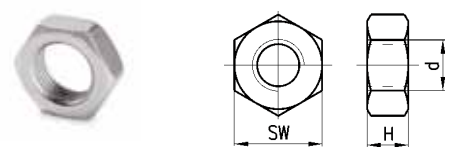
DIMENSIONS								
Mod.	øcyl.	øP	T	U	V	W	X	Z
G-94-12-16	12-16	6	12	M6x1	6	31	24	12
G-94-20	20	8	16	M8x1,25	8	42	32	16
G-90-25-32	25	10	20	M10x1,25	10	52	40	20

Swivel Ball Joint Mod. GA...



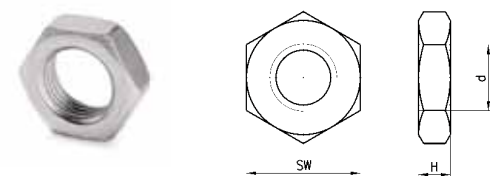
DIMENSIONS													
Mod	øcyl.	øP(H7)	U	U1	V	W	W1	X	Z	Z1	α°	SW	
GA-94-12-16	12-16	6	6.5	9	20	40	12	30	M6x1	10	13	11	
GA-94-20	20	8	9	12	20	48	16	36	M8x1.25	10	13	11	
GA-90-32	25	10	10.5	14	28	56	20	43	M10x1.25	15	8	17	

Piston Rod Lock Nut Mod. U...



DIMENSIONS				
Mod.	øcyl.	d	H	SW
U-94-12-16	12-16	M6x1	4	10
U-94-20	20	M8x1.25	5	13
U-90-25-32	25	M10x1.25	6	17

Nose Nut



DIMENSIONS				
Mod.	øcyl.	d	H	SW
U-90-50-63	12-16	M16x1,5	6	24
V-94-20-25	20-25	M22x1,5	7	32