

Standard executions			
Version	Profile Tube	Symbol	Type
Magnetic Standard			BMA
			BMT

For the magnetic reed switches type ASV and ASC see from page 1.110.1.

For coupling cylinders/reed switches/brackets see table on page 1.120.5.

For mounting accessories see from page 1.97.1.

For rod accessories see from page 1.85.1.

For dimensions of the cylinder with piston rod brake see page 1.75.15.



On request, they can be supplied according to 2014/34/EU - ATEX



Series of cylinders conforming to ISO 15552 standards, that can be supplied with two different shapes of the barrel: BMA type with "T" and "C" grooves allowing to use the flush-mounted magnetic switch, and the BMT type with round tube and tie-rods.

The main features of this cylinder are heavy duty flat heads, clean design and the attention to details.

A particular attention has been given to the manufacture of the end caps without external casting cavities thus to eliminate contamination traps.

Options	Suffix
Through rod	P
Rod in stainless steel AISI 304	K
Extended rod in hardened and chrome plated steel for the application of the static piston rod brake	B
Extended rod in hardened and chrome plated steel for the application of the dynamic piston rod brake	B1
Seals FKM -20°C ÷ +150°C	V
Scraper ring only FKM -20°C ÷ +80°C	V1
Low temperature seals -40°C ÷ +80°C	BT
Tandem forward movement piston rods coupled together	TA1
Tandem forward movement piston rods independent	TA2
Tandem back to back	TA3
Tandem front to front	TA4
Extended rod (indicate the requested WH dimension in mm. E.g.: WH-100).	WH-...
Without adjustable cushionings	D
Adjustable rear cushioning only	D1
Adjustable front cushioning only	D2
Special male thread (indicate the requested thread. E.g. : R-M 10x1,5). The dimension AM of the special thread will be the same as the standard. The cylinder will be supplied without rod nut.	R-M...
Female thread	F
With bellows for protection of the rod (in this case the dimension WH will be extended according the stroke of the cylinder)	Z
NBR seals	H
Piston rod scraping ring in nitrile rubber NBR	H1
Brass rod scraper (with V, V1 and H options only)	Y
Stainless steel AISI 316L profile tube (with BMT type only)	TX
Special on request	/S

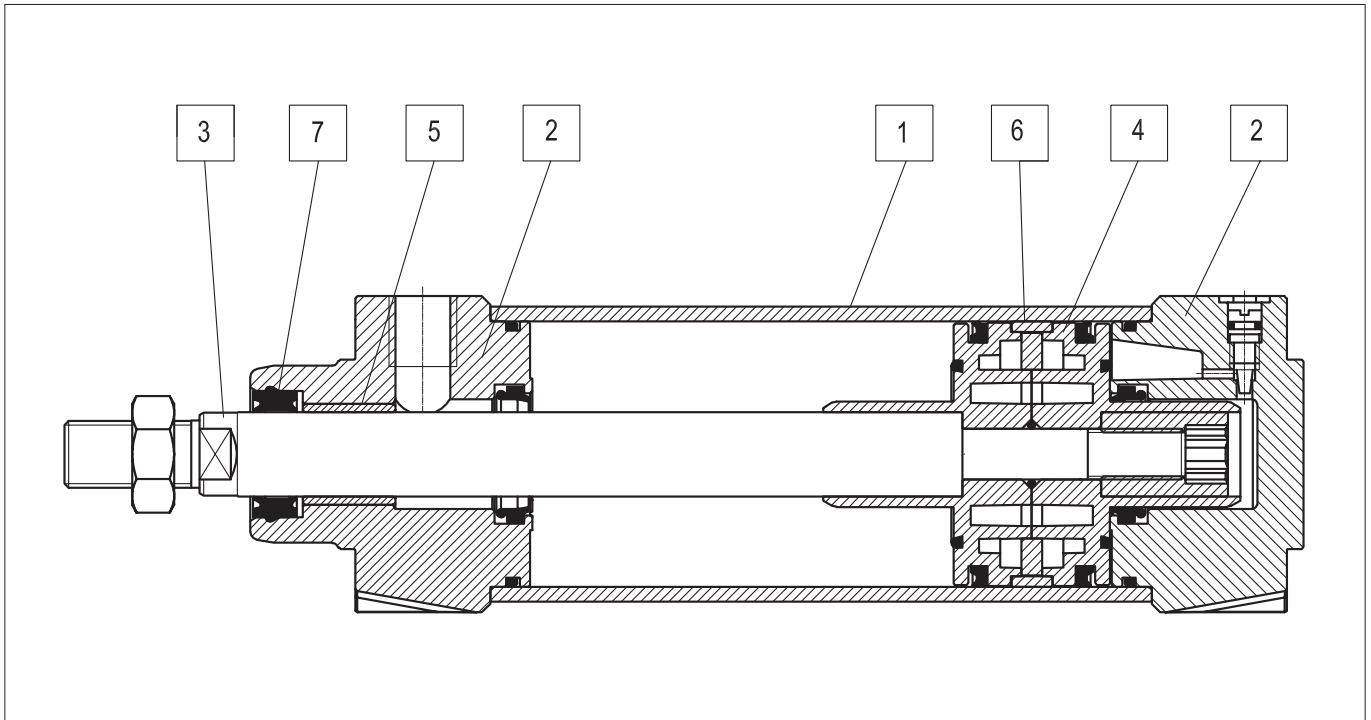
The options can be combined (when this is possible).

* In Stainless Steel AISI 304 for ATEX versions

The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 63 / 100 BMAKVR-M12x1,25

63	/	100	BMA	K	V	R-M12X1,25
Bore	/	Stroke	Type	Option	Option	Option

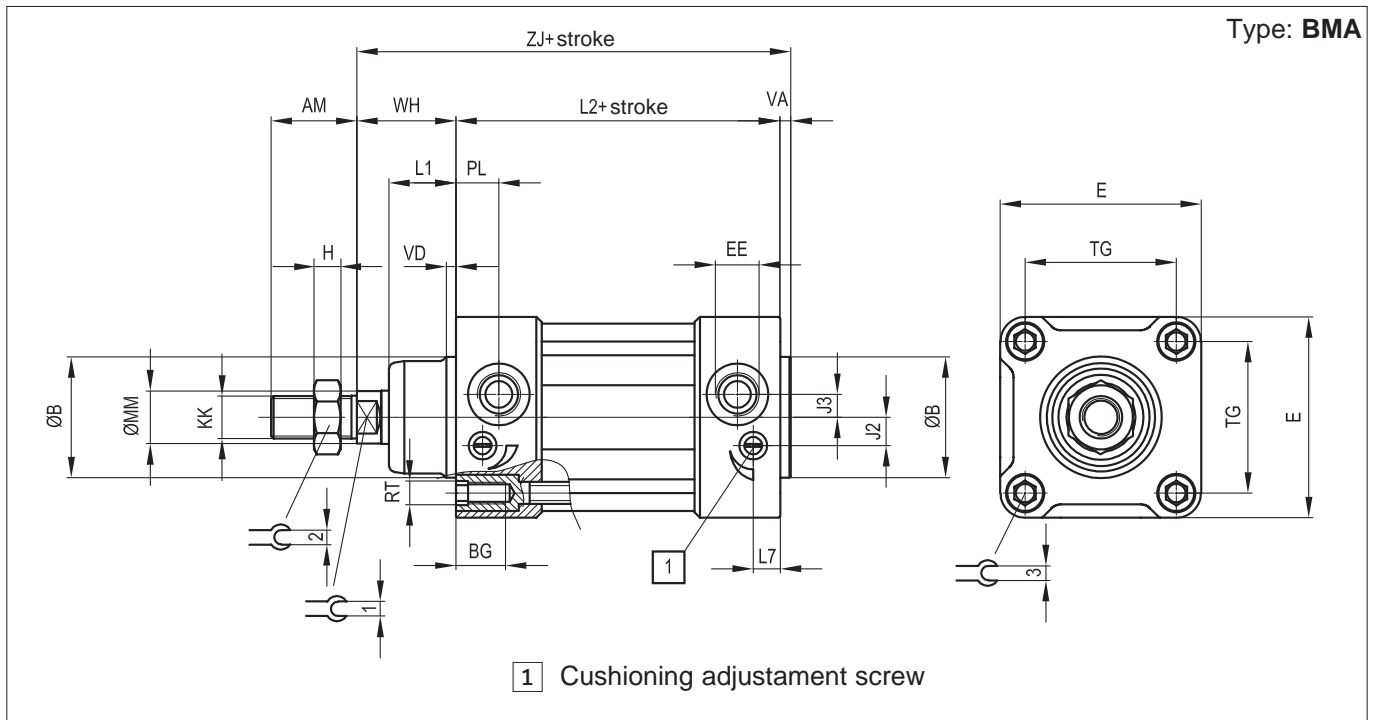


Materials (standard types)

1 Tube	Anodised aluminium
2 Heads	Die-cast painted aluminium
3 Rod	Chrome-plated steel C45
4 Piston	Die-cast aluminium
5 Bushing	Self-lubricating sintered bronze
6 Guide ring	Natural Delrin
7 Rod seals	Polyurethane
Other seals	Nitrile rubber NBR/polyurethane

Technical data

Bore (mm)	32	40	50	63	80	100	125	
Fluid	Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.							
Pressure	1 ÷ 10 bar							
Temperature range	-20°C ÷ +80°C (standard /V1)		-20°C ÷ +150°C (V)			-40°C ÷ +80°C (BT)		
Stroke	from 10 mm to 2500 mm							
Cushion length	20	22	25	25	35	35	35	
Ports	1/8"	1/4"		3/8"		1/2"		
Rod thread	M10 x 1,25	M12 x 1,25	M16 x 1,5		M20 x 1,5		M27 x 2	
Weight	Stroke zero (g)	593	944	1452	1975	3230	4540	7016
	Additional 10 mm stroke (g)	21	29	44	47	69	80	119



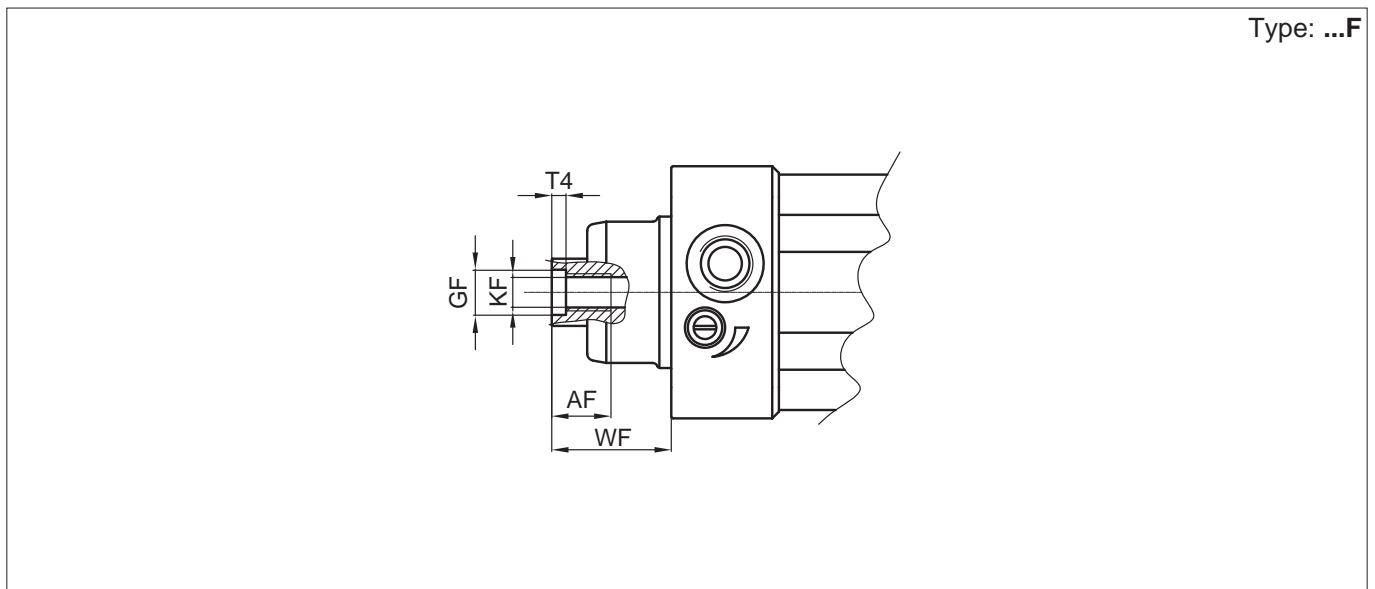
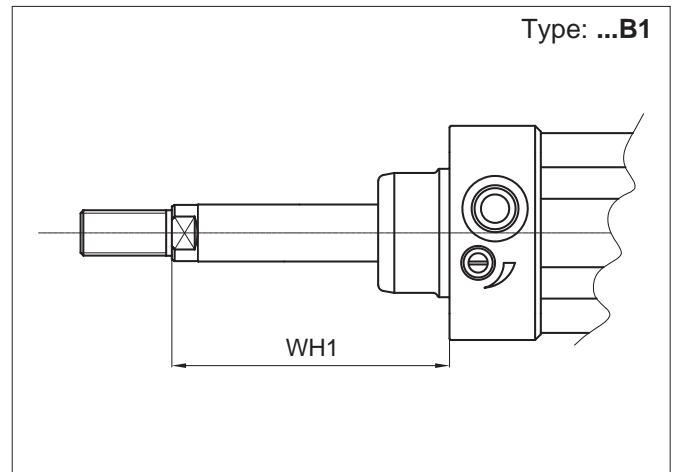
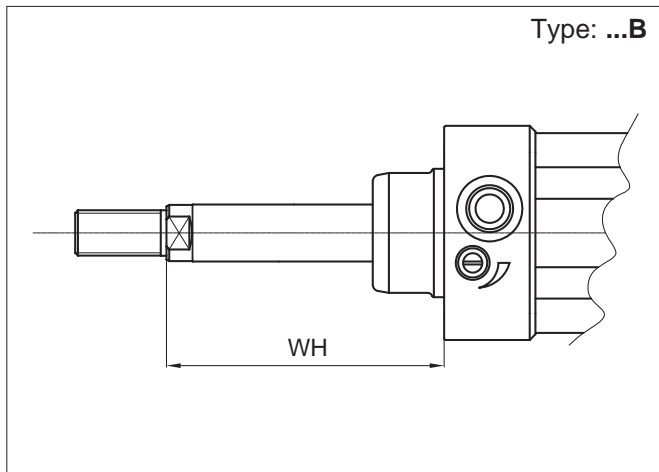
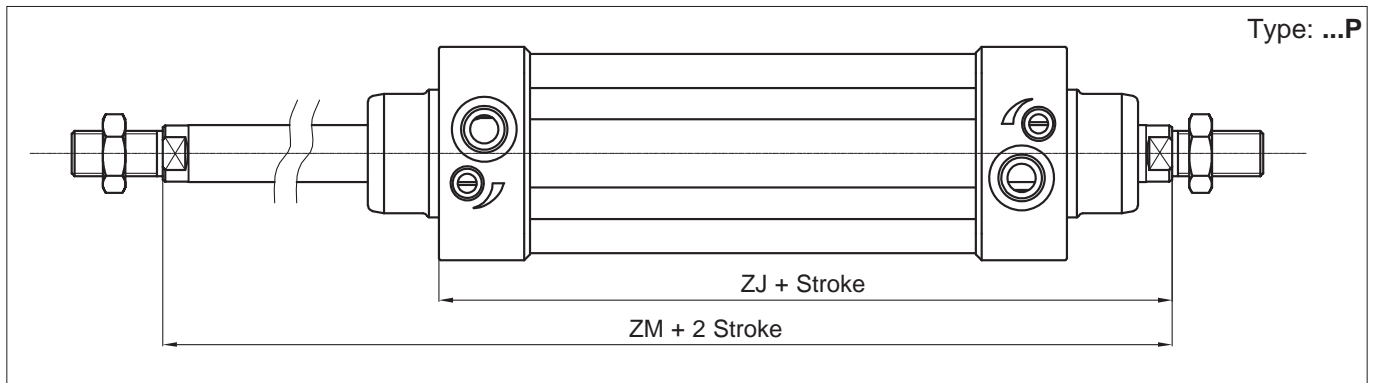
Ø (mm)	AM	B Ø d11	BG	E	EE	J2	J3	KK	L1	L2	H
32	22	30	15	47	1/8"	5,75	5,25	M10x1,25	20	94	6
40	24	35	15	52	1/4"	8	6	M12x1,25	22	105	7
50	32	40	16	65	1/4"	10,5	6	M16x1,5	26	106	8
63	32	45	16	75	3/8"	10,5	8,5	M16x1,5	25	121	8
80	40	45	17	95	3/8"	14	9,5	M20x1,5	32	128	9
100	40	55	17	115	1/2"	15	10	M20x1,5	38	138	9
125	54	60	21	140	1/2"	20	10	M27x2	40	160	12

Ø (mm)	L7	MM Ø f7	PL	RT	TG	VA	VD	WH	ZJ	1	2	3
32	18	12	11	M6	32,5	4	4	26	124	10	17	6
40	20	16	14	M6	38	4	4	30	139	13	19	6
50	20	20	15	M8	46,5	4	4	37	147	17	24	8
63	10	20	16	M8	56,5	4	4	37	162	17	24	8
80	13,5	25	20,5	M10	72	4	4	46	178	22	30	10
100	13	25	20	M10	89	4	4	51	193	22	30	10
125	30	32	25	M12	110	5	5	65	230	27	41	12

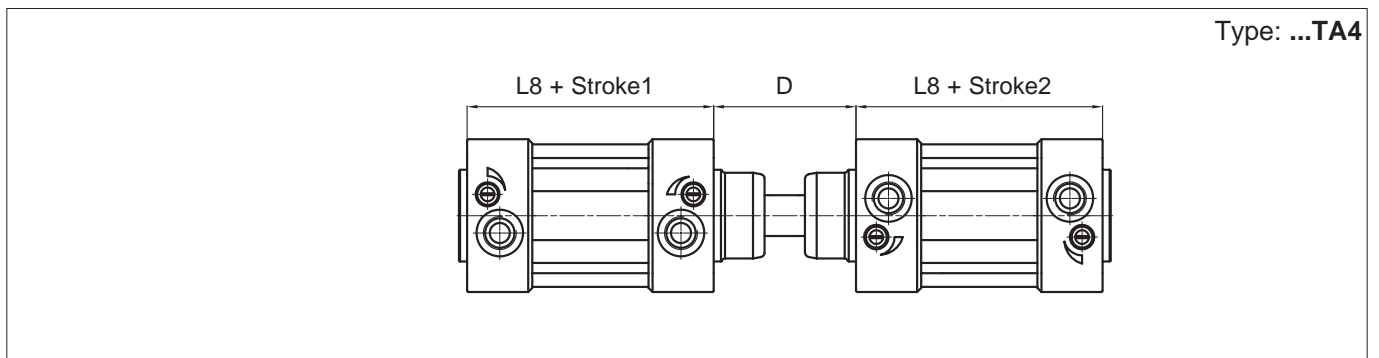
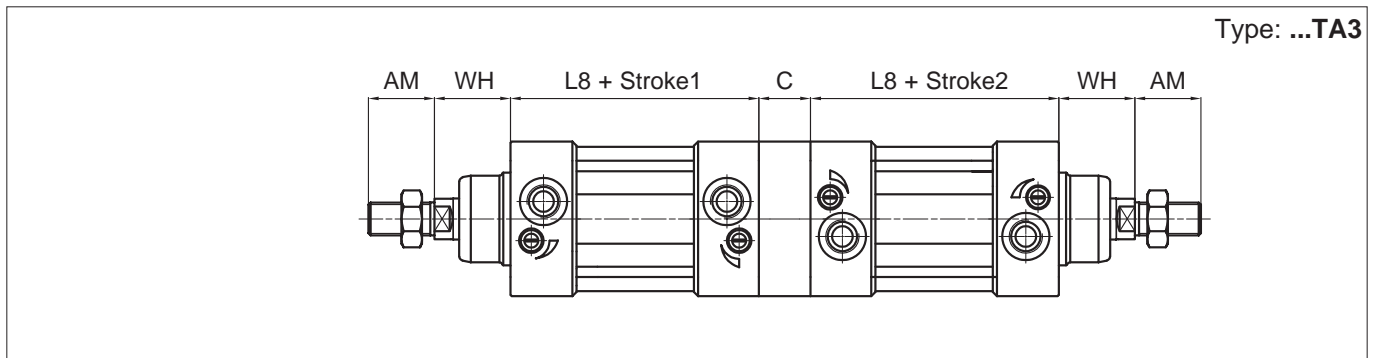
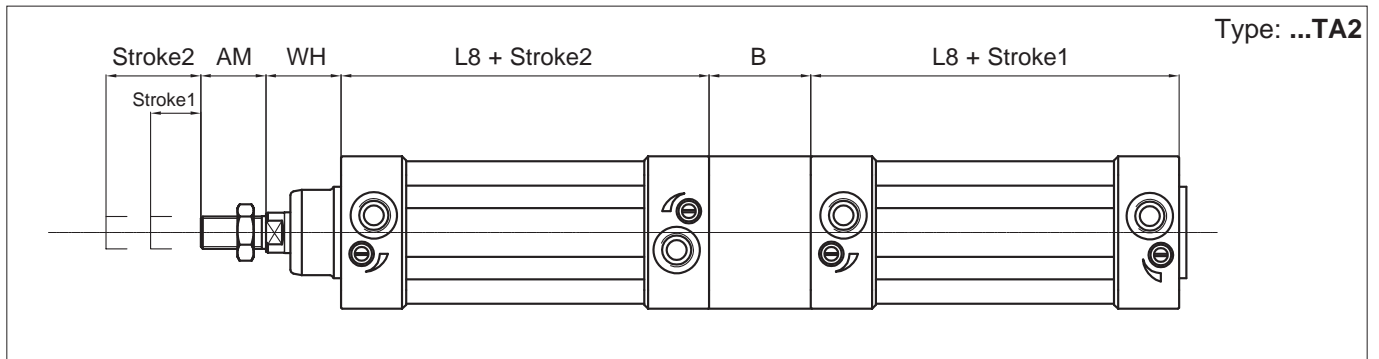
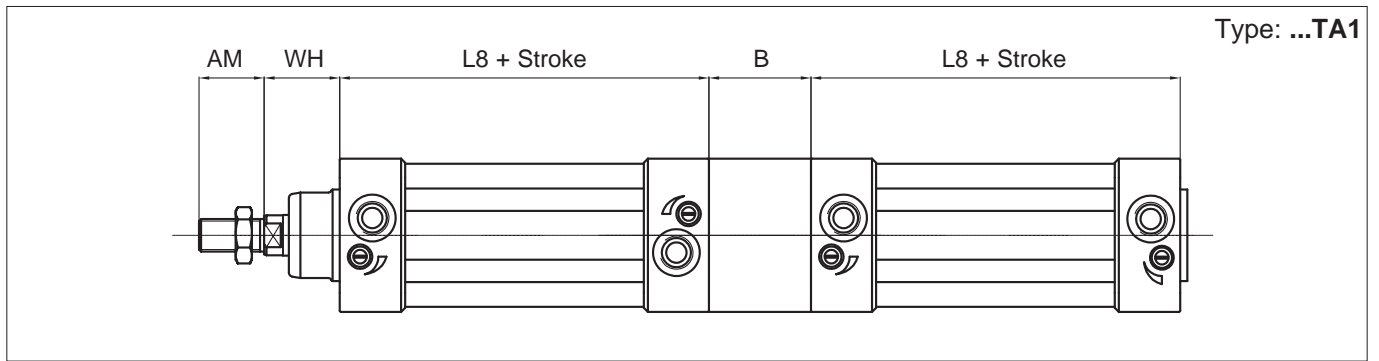
Seals kits	
n. 1	Rod seal
n. 2	Cushioning seal
n. 2	Piston lip-seal
n. 1	Linear rubber ring for piston (damper)
n. 2	Tube O-ring
n. 1	Piston guiding ring
n. 2	O-ring for cushioning screw
n. 1	O-ring to seal two semi-pistons

How to order: 63 / SG / AM

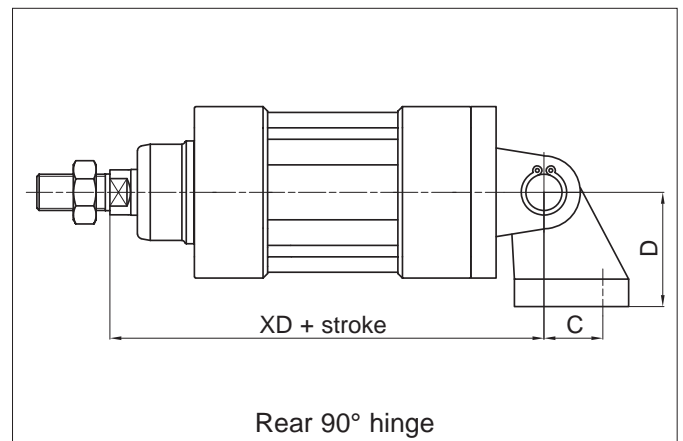
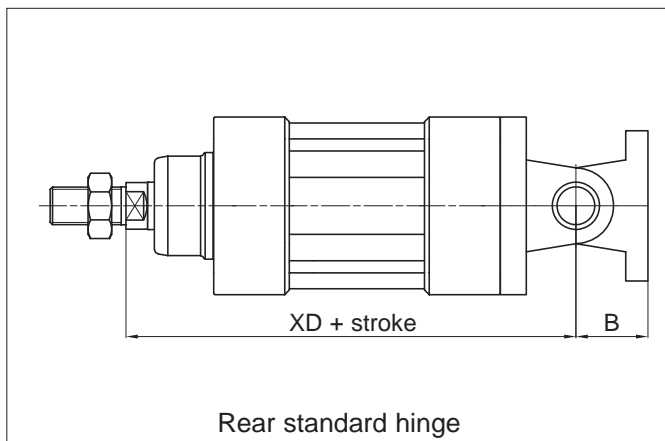
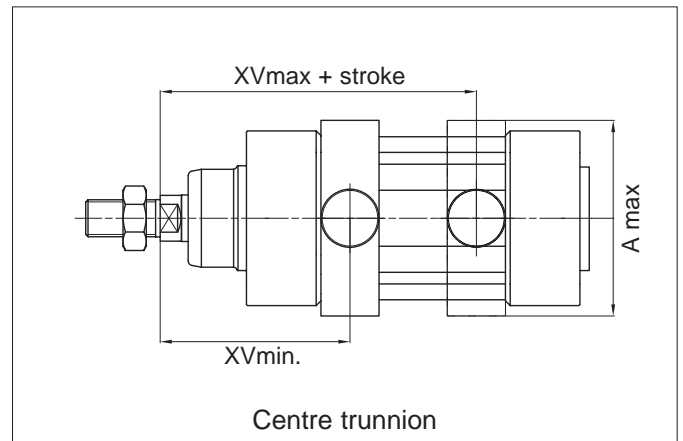
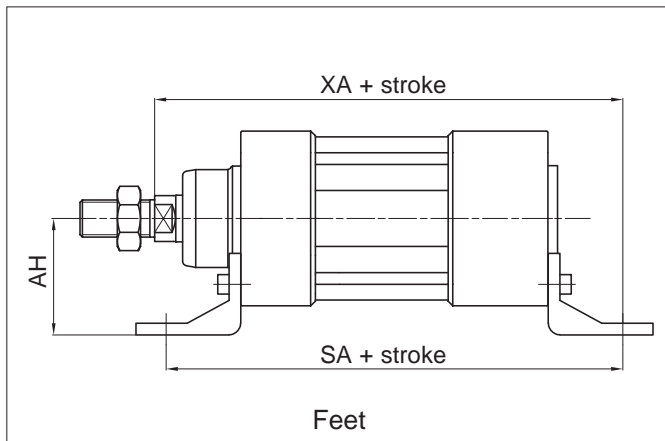
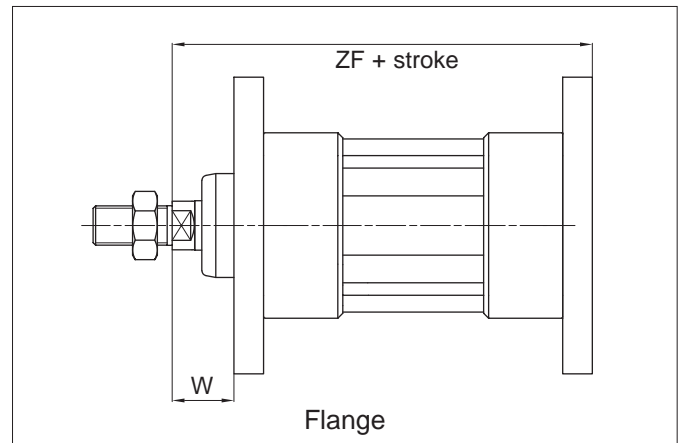
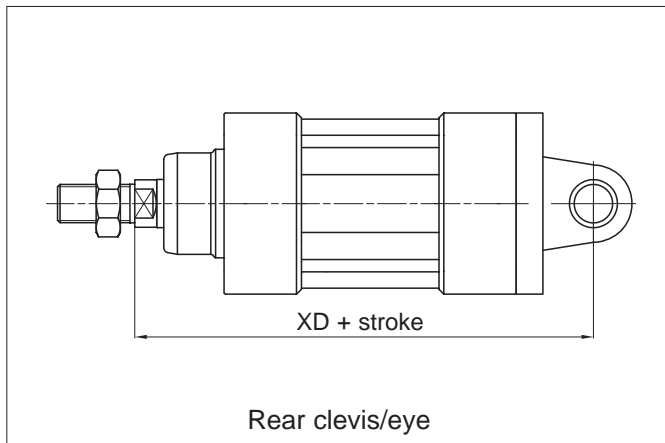
63	/	SG	/	AM
Bore	/	Seal kit	/	Type



Ø mm	AF	GF	KF	T4	WF	WH	WH1	ZJ	ZM
32	12	8	M6	2,6	26	74	99	120	146
40	12	10	M8	3,3	30	85	106	135	165
50	16	12	M10	4,7	37	107	127	143	180
63	16	12	M10	4,7	37	107	129	158	195
80	20	14	M12	6,1	46	136	156	174	220
100	20	14	M12	6,1	51	143	181	189	240
125	32	18	M16	8	65	187	-	225	290



Ø mm	AM	B	C	D	L8	WH
32	22	40	12	48	94	26
40	24	44	12	54	105	30
50	32	52	16	69	106	37
63	32	50	16	69	121	37
80	40	64	20	86	128	46
100	40	76	20	91	138	51
125	54	80	35	120	160	65



Ø mm	A max	AH	B	C	D	SA	W	XA	XD	XV min	XV max	ZF
32	70	32	22	21	32	142	16	144	142	60	86	130
40	78	36	25	24	36	161	20	163	160	69	96	145
50	91	45	27	33	45	170	25	175	170	78	102	155
63	94	50	32	37	50	185	25	190	190	82	113	170
80	130	63	36	47	63	210	30	215	210	97	123	190
100	145	71	41	55	71	220	35	230	230	107	133	205
125	170	90	50	70	90	250	45	270	275	126,5	163,5	245

For dimensions and codes of the accessories: see page 1.97.1