

CYLINDERS

ISO 15552



Find out our
key products



Solution for most applications



Easy and intuitive choice



Excellent value for money



Wide availability



Fast delivery



Features and certifications

Series of cylinders conforming to ISO 15552 standards in bores from Ø 32 to 320, double acting, magnetic. The cylinders of these series differ from each other for the heads, light or flat, and the barrel, with profile tube or round tube with tie-rods. Supplied as standard in compliance with Reach and RoHS directives, and SIL certified. On request, they can be also supplied according to the 2014/34/EU ATEX Directive.

These features, combined with a modern and clean design, and the wide range of applications for which they are suitable place these cylinders among the core products of the company.



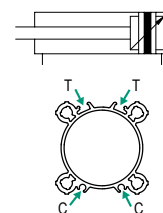
Type AMA Ø 32 ÷ 125

from page 1.5.20



Cylinders ISO 15552, available in bores from Ø 32 to 125, double acting magnetic with adjustable cushioning, with profile barrel and two different kind of grooves (T type on the port side, and "C" type on the opposite side), to apply magnetic reed switches directly, and interchange with most competitors.

The design is modern and clean, the heads are light and characterized by powder-coating.



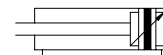
Type AMT Ø 32 ÷ 125

from page 1.5.20



Cylinders ISO 15552, available in bores from Ø 32 to 125, double acting magnetic with adjustable cushioning, made with round tube and tie-rods.

The design is modern and clean, the heads are light and characterized by powder-coating.



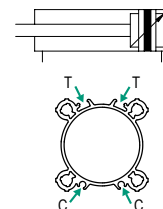
Type BMA Ø 32 ÷ 125

from page 1.5.50



Cylinders ISO 15552, available in bores from Ø 32 to 125, double acting magnetic with adjustable cushioning, with profile barrel and two different kind of grooves (T type on the port side, and "C" type on the opposite side), to apply magnetic reed switches directly, and interchange with most competitors.

The design is modern and clean, the heads are flat.



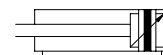
Type BMT Ø 32 ÷ 125

from page 1.5.50



Cylinders ISO 15552, available in bores from Ø 32 to 125, double acting magnetic with adjustable cushioning, made with round tube and tie-rods.

The design is modern and clean, the heads are flat.



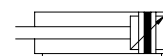
Type AMT Ø 160 ÷ 320

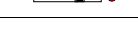
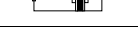
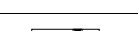
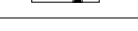
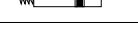
from page 1.5.70



Cylinders ISO 15552, available in bores from Ø 160 to 320, double acting magnetic with adjustable cushioning, made with round tube and tie-rods.

The design is characterized by the heads light and powder-coated.



Options		
Description	Symbol	Suffix
Through rod		P
Stainless Steel AISI 304 rod		K
Stainless Steel AISI 316 rod		K316
Stainless Steel tie-rods (available only for AMT and BMT type)		K1
Stainless head nuts and rod nut (available only for AMT and BMT type up to Ø 200)		K2
Extended rod in hardened and chrome plated steel suitable for static piston rod brake (available up to Ø 125)		B
Extended rod in hardened and chrome plated steel suitable for dynamic piston rod brake (available up to Ø 100)		B1
FKM seals -20°C ÷ +150°C		V
FKM rod seal -20°C ÷ +80°C		V1
Rod seal scraper in special elastomer for applications in dirty and dusty environment (available up to Ø 200) -20°C ÷ +80°C		E8
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; for further information please contact the sales department)		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; cylinder will be supplied without rod nut; for further information please contact the sales department)		R-M..
Female thread		F
With bellow for protection of the rod (in this case the dimension WH should be extended according the stroke of the cylinder; for further information please contact the sales department)		Z
NBR seals -20°C ÷ +80°C		H
NBR rod seal -20°C ÷ +80°C		H1
Brass rod scraper (only with H, H1, V, V1 or BT options; for further information please contact the sales department)		Y
Stainless Steel AISI 316L tube (available only for AMT and BMT type)		TX
Epoxy coating (RAL 7035)		EPX
ATEX versions on request (only with K or K316 options; for further information please contact the sales department)		/ATEX
Special versions on request		/S

The options, when this is possible, can be combined with each other. For options matching see from page 1.5.4; For code key see from page 1.5.6.

Options matching

Series	Bore	Model	Standard options matching										
			P	K	K316	K1	K2 (Ø32÷200)	B	B1 (Ø32÷100)	V	V1	E8 (Ø32÷200)	BT
AMA-BMA	Ø 32 ÷ 125	Standard	●	●	●	-	-	●	●	●	●	●	●
		Through rod (P)		●	●	-	-	●	●	●	●	●	●
		Stainless Steel rod (K)	●		-	-	-	-	-	●	●	●	●
		Rod brake (B)	●	-	-	-	-		-	●	-	-	●
		Female thread (F)	● ⁽⁷⁾	●	●	-	-	●	●	●	●	●	●
		Bellow (Z)	-	●	●	-	-	-	-	●	-	-	●
AMT-BMT	Ø 32 ÷ 125	Standard	●	●	●	●	●	●	●	●	●	●	●
		Through rod (P)		●	●	●	●	●	●	●	●	●	●
		Stainless Steel rod (K)	●		-	●	●	-	-	●	●	●	●
		Rod brake (B)	●	-	-	●	●		-	●	-	-	●
		Female thread (F)	● ⁽⁷⁾	●	●	●	●	●	●	●	●	●	●
		Bellow (Z)	-	●	●	●	●	-	-	●	-	-	●
AMT	Ø 160 ÷ 320	Standard	●	●	●	●	●	-	-	●	●	●	●
		Through rod (P)		●	●	●	●	-	-	●	●	●	●
		Stainless Steel rod (K)	●		-	●	●	-	-	●	●	●	●
		Female thread (F)	● ⁽⁷⁾	●	●	●	●	-	-	●	●	●	●
		Bellow (Z)	-	●	●	●	●	-	-	●	-	-	●

Key

● allowed matching; - not allowed matching

Options matching notes

- (1) Option **WH=.** require to indicate the desired dimension in mm, whereas for some combinations the option **WH=.** should be required or optional. For further information please contact the sales department. If you choose the female thread (option **F**), please indicate the dimension **WF=.** and then the actual desired dimension in mm
- (2) Option **R-M..** require to indicate the desired thread. For further information please contact the sales department.
- (3) Option **Y** require that the cylinder mount seals of options **H, H1, V, V1** or **BT**. Not allowed in combination with option **E8**.
- (4) In the **/ATEX** versions, is required to mount the stainless steel rod (options **K** or **K316**).
- (5) With the options **B** or **B1**, for dimensions S or S1 (WH) please see the table in page 1.5.22 (series AMA and AMT) or page 1.5.52 (series BMA and BMT).
- (6) In the models with bellow (option **Z**) should be necessary the extended rod option (**WH=.**) for some bores or strokes. Otherwise the **WH=.** option can be chosen according to the customer's needs. For further information please contact the sales department.
- (7) With through rod (option **P**) the option female thread (**F**) and the option special male thread (**R-M..**) are applied on both sides of the rod. While the option extended rod (**WH=.**) is applied only to one side of the rod.

Standard options matching

TA1	TA2	TA3	TA4	WH=.. ⁽¹⁾	D	D1	D2	R-M.. ⁽²⁾	F	Z	H	H1	Y ⁽³⁾	TX _(Ø32÷200)	EPX	/ATEX ⁽⁴⁾
●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●
-	-	-	-	● ⁽⁷⁾	●	●	-	● ⁽⁷⁾	● ⁽⁷⁾	-	●	●	●	-	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●
-	-	-	-	● ⁽⁵⁾	●	●	●	●	●	-	●	●	-	-	-	-
●	●	●	-	●	●	●	●	-		●	●	●	●	-	●	●
-	-	-	-	● ⁽⁶⁾	●	●	●	●	●		●	●	-	-	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-	-	-	-	● ⁽⁷⁾	●	●	-	● ⁽⁷⁾	● ⁽⁷⁾	-	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-	-	-	-	● ⁽⁵⁾	●	●	●	●	●	-	●	●	-	●	-	-
●	●	●	-	●	●	●	●	-		●	●	●	●	●	●	●
-	-	-	-	● ⁽⁶⁾	●	●	●	●	●		●	●	-	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
-	-	-	-	● ⁽⁷⁾	●	●	-	● ⁽⁷⁾	● ⁽⁷⁾	-	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	-	●	●	●	●	-		●	●	●	●	●	●	●
-	-	-	-	● ⁽⁶⁾	●	●	●	●	●		●	●	-	●	●	●

Code key

Bore	/	Stroke	Type	Options				
63	/	100	AMA	K				V
Ø 32, 40, 50, 63, 80, 100, 125 Ø 160, 200, 250, 320 (AMT type only)		10 mm ÷ 2800 mm						
AMA Double acting Magnetic		Ø 32 ÷ 125 		K	K1	K2		V
AMT Double acting Magnetic		Ø 32 ÷ 125 	Ø 160 ÷ 320 	K316				V1
BMA Double acting Magnetic		Ø 32 ÷ 100 	Ø 125 	B				E8
BMT Double acting Magnetic		Ø 32 ÷ 100 	Ø 125 	B1				BT
								H
								H1

How to order

Bore	Stroke	Type	Options
63	/	100	AMA
			K V

Notes

Options in the same grid are alternative to each others.

For further information on options and their matching, see page 1.5.3 and 1.5.4

For further information on the ATEX 2014/34/EU Directive, on classifications and protections, see from page III.1

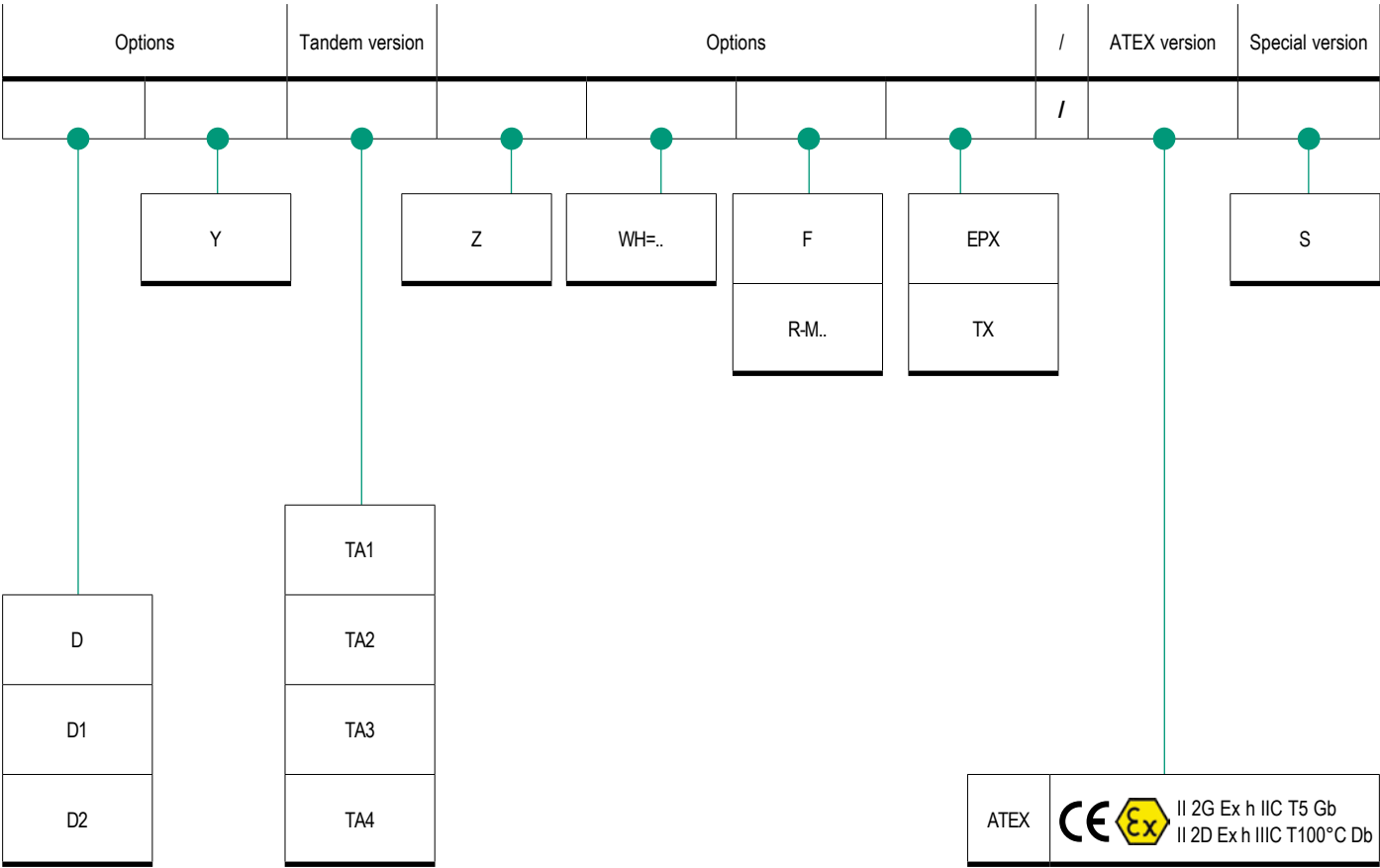
Standard* seal kit

Number of components	Description
n. 1	Rod seal
n. 2	Cushioning seal
n. 2	Piston seal
n. 1	Linear rubber ring for piston (damper)
n. 2	Tube-head o-ring
n. 1	Piston guiding ring
n. 2	Adjustment screw o-ring
n. 1	Semipiston o-ring

* For cylinders with options P, H, H1, V, V1 and BT, the kit include further components.

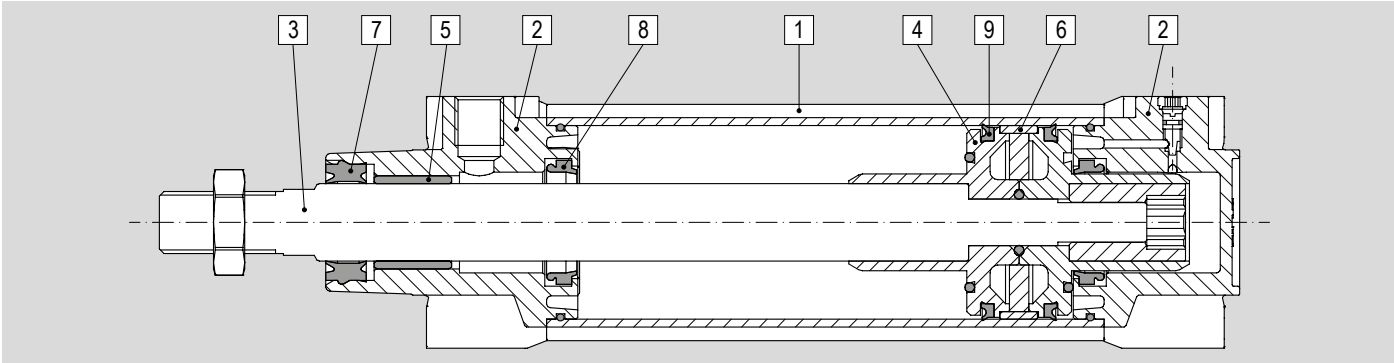
Standard seal kit code key

Cylinder bore	/	Seal kit	/	Cylinder type
63	/	SG	/	AMA
Ø 32, 40, 50, 63, 80, 100, 125, 160*, 200*, 250*, 320* mm *AMT type only		SG		AMA
				AMT
				BMA
				BMT



1 - CYLINDERS

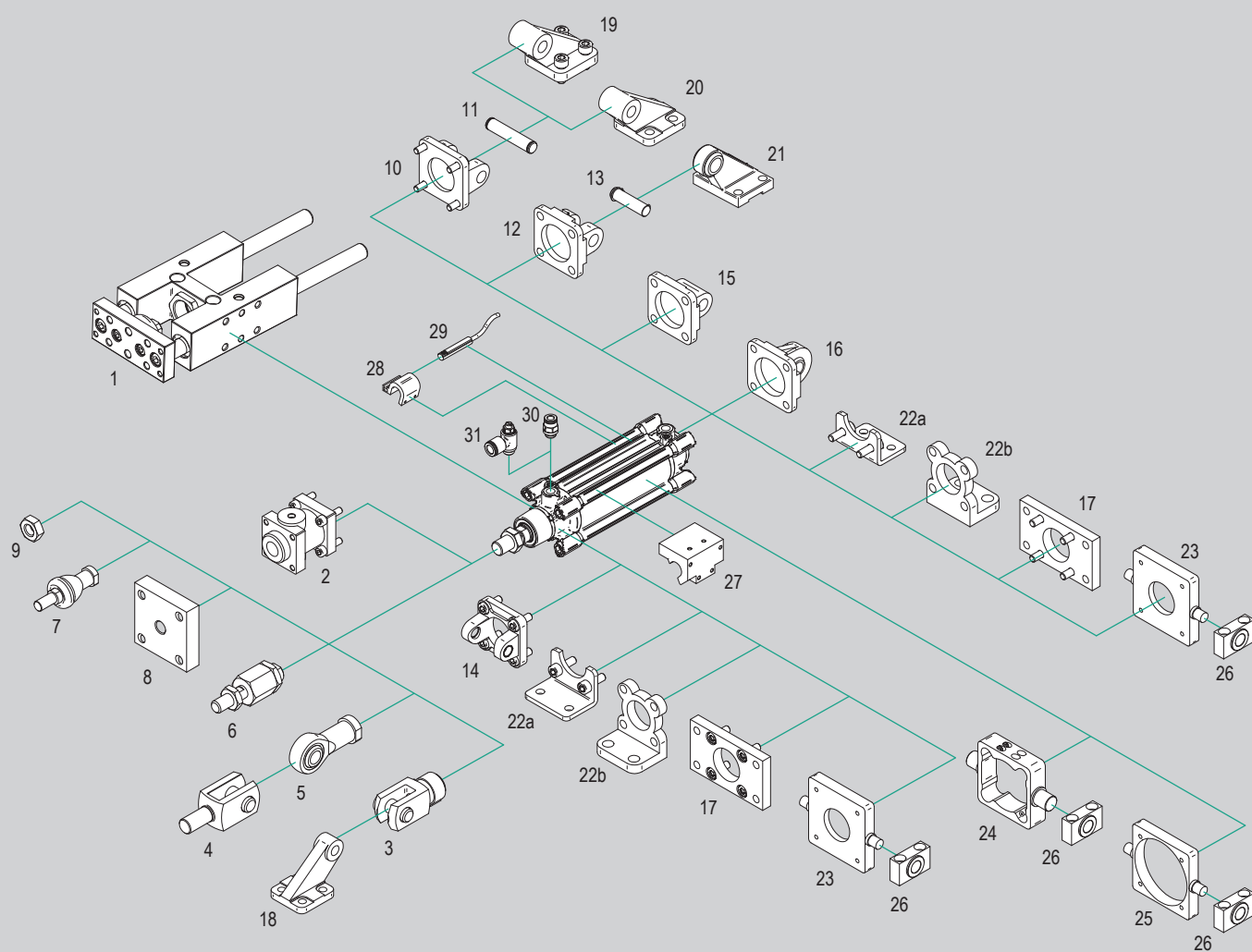
Standard materials



Position	Description	Material	
		Ø 32 ÷ 100	Ø 125 ÷ 320
1	Tube	Anodised aluminium	
2	Heads	Die cast painted aluminium (pownder coating for AMA and AMT type, spray for BMA and BMT type)	
3	Rod	Chrome-plated C45 steel	
4	Piston	Die cast painted aluminium	
5	Bushing	Self-lubricating sintered bronze	
6	Guide ring	Acetalic resin (POM)	
7	Rod seals	Polyurethane (PU)	
8	Cushioning seals	Polyurethane (PU)	
9	Piston seals	Polyurethane (PU)	NBR
-	Tie-rods (for type AMT and BMT only)	Zinc-plated steel	
-	Other seals	NBR	

Accessories

1 - CYLINDERS



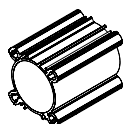
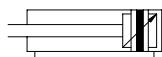
N.	Cylinder bore	Item	Description	Compliance	Matching				Code page	Data sheet page
					AMA	BMA	AMT	BMT		
1	Ø 32 ÷ 100	UGLB	Slide unit U-shaped	-	•	•	•	•	1.5.90	1.70.1
		UGPB UGPS	Slide unit H-shaped		•	•	•	•		
2	Ø 32 ÷ 125	ABS	Static rod brake		•	•	•	•		1.75.1
	Ø 32 ÷ 100	ABK	Dynamic rod brake		•	•	•	•		
3	Ø 32 ÷ 100	FF..ISO	ISO female clevis with clip	ISO 8140	•	•	•	•	1.5.91	1.85.10
	Ø 32 ÷ 320	FFP..ISO	ISO female clevis with pin and seeger		•	•	•	•		
	Ø 32 ÷ 125	FFN..ISO	ISO female clevis (body only)		•	•	•	•		
4	-	FEM..	Female clevis with male thread	-	•	•	•	•		1.85.11
5	Ø 32 ÷ 320	RF..SE	Bearing head (DIN 648K) with female thread	ISO 8139	•	•	•	•		1.88.1
6	Ø 32 ÷ 320	GB..	Bearing - Self-aligning articulated coupling	-	•	•	•	•	1.5.91	1.90.1
7	Ø 32 ÷ 100	RBI..	Bearing - Axial articulated coupling		•	•	•	•		1.90.10
		RBL..	Bearing - Angular articulated coupling		•	•	•	•		1.90.20
8	Ø 32 ÷ 200	GC..	Self-aligning coupling		•	•	•	•		1.90.30
9	Ø 32 ÷ 320	D..	Rod nut	UNI 5589	•	•	•	•		1.90.40
10	Ø 32 ÷ 320	CF..ALIS	Rear clevis	ISO MP2	•	•	•	•	1.5.92	1.90.70
		CF..AQIS			•	•	•	•		1.97.1
11	Ø 32 ÷ 320	SEC..AQIS	Pin with seeger	ISO AA4	•	•	•	•	1.5.92	1.98.1
12	Ø 32 ÷ 250	CFS..ALIS	Narrow rear clevis	ISO AB6	•	•	•	•	1.5.95	1.98.5
	Ø 32 ÷ 125	CFS..AQIS			•	•	•	•		1.97.2
13	Ø 32 ÷ 250	SEC..ARAQIS	Anti-rotating pin for narrow rear clevis	ISO AA6	•	•	•	•	1.5.92	1.98.1
14	Ø 32 ÷ 200	CFA..	Front clevis	ISO MP7	•	•	•	•	1.5.95	1.98.5
15	Ø 32 ÷ 320	CM..ALIS	Rear eye	ISO MP4	•	•	•	•	1.5.94	1.97.3
		CM..AQIS			•	•	•	•		1.97.3
16	Ø 32 ÷ 320	CMS..ALIS	Narrow rear eye with spherical bearing (DIN 648K)	ISO MP6	•	•	•	•	1.5.92	1.98.2
	Ø 32 ÷ 125	CMS..AQIS			•	•	•	•		1.98.2
17	Ø 32 ÷ 200	FLV..ALIS	Flange	ISO VDMA MF1-MF2	•	•	•	•	1.5.93	1.97.4
	Ø 32 ÷ 320	FLV..AQIS			•	•	•	•		1.98.4
18	Ø 32 ÷ 250	ASF..ALIS	Clevis hinge	ISO AB7	•	•	•	•	1.5.93	1.97.5
19	Ø 32 ÷ 250	ASV..ALIS	Rear 90° hinge	CETOP RP 107P	•	•	•	•		1.98.3
	Ø 32 ÷ 125	ASV..AQIS		ISO 6431	•	•	•	•		1.97.6
20	Ø 32 ÷ 200	AS..ALIS			•	•	•	•		1.97.6
21	Ø 32 ÷ 125	ASS..	Rear 90° hinge with spherical bearing (DIN 648K)	ISO CS7	•	•	•	•		1.98.3
22a	Ø 32 ÷ 320	PB..AQIS	Low foot	ISO MS1	•	•	•	•	1.5.94	1.98.4
22b	Ø 32 ÷ 200	P..ALIS	Foot	ISO MS3	•	•	•	•		1.98.4
23	Ø 32 ÷ 200	CTA..	Center trunnion for heads	ISO MT5/MT6	•	•	•	•		1.97.6
24	Ø 32 ÷ 125	CTS..	Center trunnion (profile barrel)	ISO MT4	•	•	-	-	1.5.93	1.98.7
		CTN..	Non adjustable center trunnion (threaded)		-	-	•	•		1.98.6
25	Ø 32 ÷ 200	CT..	Adjustable center trunnion (tie-rods)		-	-	•	•		1.98.6
26	Ø 32 ÷ 320	ST..	Support for center trunnion	ISO AT4	•	•	•	•	1.5.94	1.98.8
27	Ø 32 ÷ 200	PSV..	Plate for valves		•	•	•	•		2.39.1
28	Ø 32 ÷ 320	AS..	Bracket for T type magnetic reed switches	-	•	•	•	•	1.5.95	1.120.3
			Bracket for hi-temp. magnetic reed switches		•	•	•	•		1.120.4
29	Ø 32 ÷ 320	ASV..	Magnetic reed switch T groove	2014/34/EU	•	•	•	•		1.110.10
		ASC..	Magnetic reed switch C groove		•	•	-	-		1.110.30
		MK..	ATEX magnetic reed switch T groove		•	•	•	•		1.113.1
30	Ø 32 ÷ 320	ASH..	Hi-temperatures magnetic reed switch		•	•	•	•		1.111.1
31	Ø 32 ÷ 320	R..	Push-in fittings	-	•	•	•	•	4.2.1	
31	Ø 32 ÷ 320	V..C	Flow controls, for cylinders		•	•	•	•	4.94.1	

Key

• matching accessory; - not matching accessory

Main features

32 ÷ 125



AMA

Bores Ø

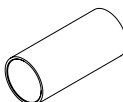
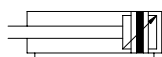
Double acting
Magnetic
With cushioning

Tube profile

Type



32 ÷ 125



AMT

Bores Ø

Double acting
Magnetic
With cushioning

Tube profile

Type



Technical data

Bore Ø mm			32	40	50	63	80	100	125
Fluid			Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.						
Pressure range			1 ÷ 10 bar						
Temperature range			-20°C ÷ +80°C (standard / V1)		-20°C ÷ +150°C (V)		-40°C ÷ +80°C (BT)		
Strokes			10 ÷ 2800 mm						
Cushion length			20	22	25	25	35	35	35
Port			1/8"	1/4"		3/8"		1/2"	
Rod thread			M10x1,25	M12x1,25	M16x1,5		M20x1,5		M27x2
Weight (g.)	Stroke zero		470	690	1.145	1.483	2.381	3.181	5.284
	Additional 10 mm	AMA	21	29	44	47	69	80	119
		AMT	21	29	44	47	69	80	119

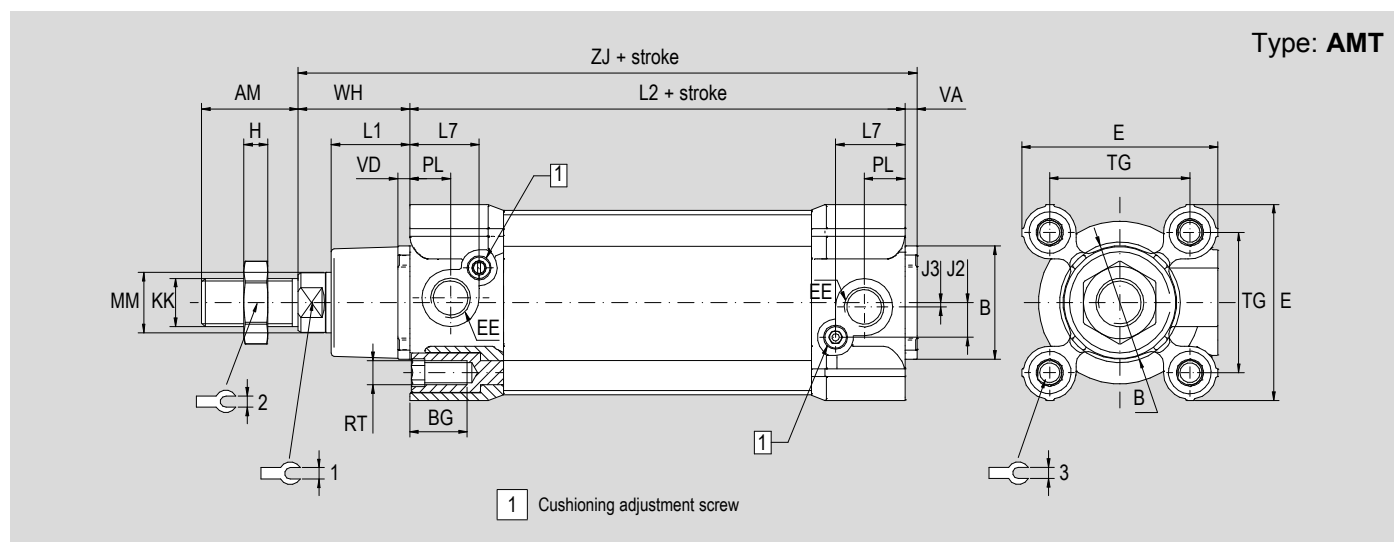
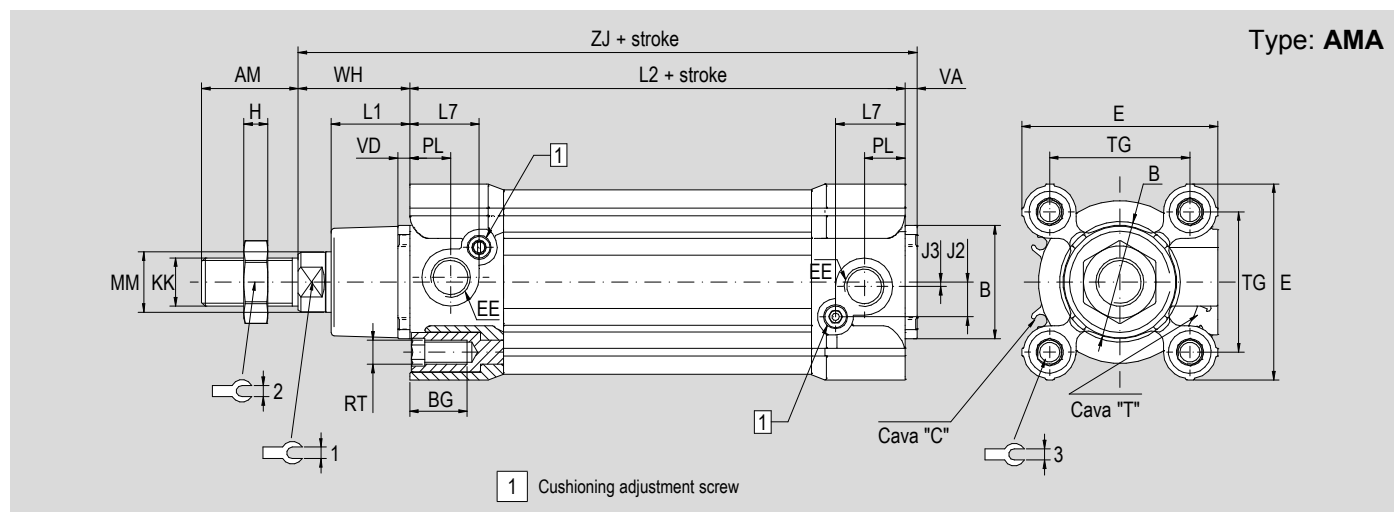
Standard strokes

Stroke mm	AMA Bore Ø mm						
	32	40	50	63	80	100	125
10							
25							
50							
80							
100							
125							
150							
160							
200							
250							
300							
320							
400							
450							
500							

Stroke mm	AMT Bore Ø mm						
	32	40	50	63	80	100	125
10							
25							
50							
80							
100							
125							
150							
160							
200							
250							
300							
320							
400							
450							
500							

Key
 Standard stroke

Standard dimensions

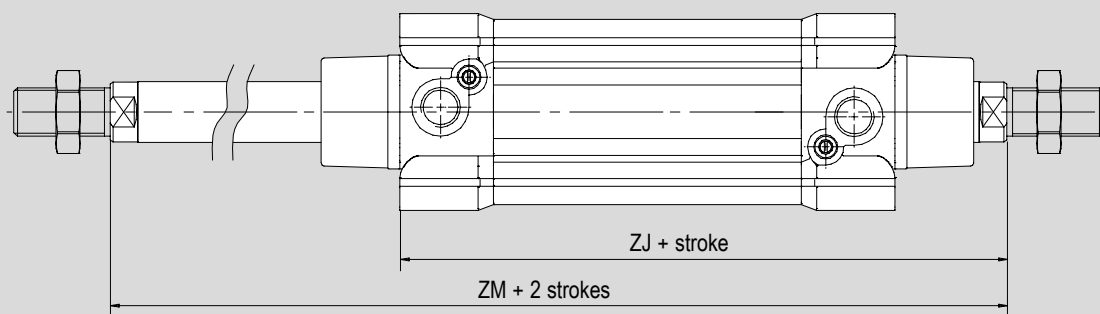


Ø (mm)	AM	ØB d11	BG	E	EE	J2	J3	ØKK	L1	L2	H
32	22	30	15	47	1/8"	7	3,5	M10x1,25	20	94	6
40	24	35	15	52	1/4"	7,5	4	M12x1,25	22	105	7
50	32	40	16	65	1/4"	11,5	1,5	M16x1,5	26	106	8
63	32	45	16	75	3/8"	13,5	1	M16x1,5	25	121	8
80	40	45	17	95	3/8"	13	1	M20x1,5	32	128	9
100	40	55	17	115	1/2"	15	6	M20x1,5	38	138	9
125	54	60	21	140	1/2"	17	8	M27x2	40	160	12

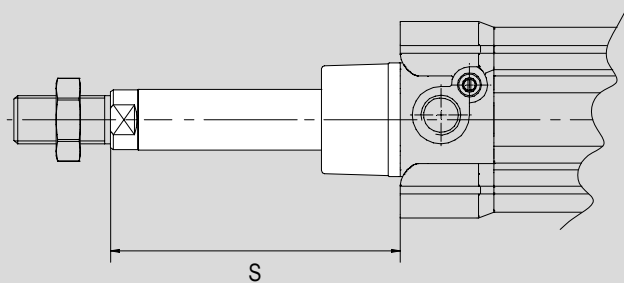
Ø (mm)	L7	ØMM f7	PL	RT	TG	VA	VD	WH	ZJ	≡ 1	≡ 2	≡ 3
32	19,4	12	8,5	M6	32,5	4	4	26	124	10	17	6
40	23	16	10	M6	38	4	4	30	139	13	19	6
50	23	20	13,5	M8	46,5	4	4	37	147	17	24	8
63	23	20	15	M8	56,5	4	4	37	162	17	24	8
80	30	25	21	M10	72	4	4	46	178	22	30	10
100	30,5	25	24	M10	89	4	4	51	193	22	30	10
125	27,5	32	23	M12	110	5	5	65	230	27	41	12

Dimensions with options

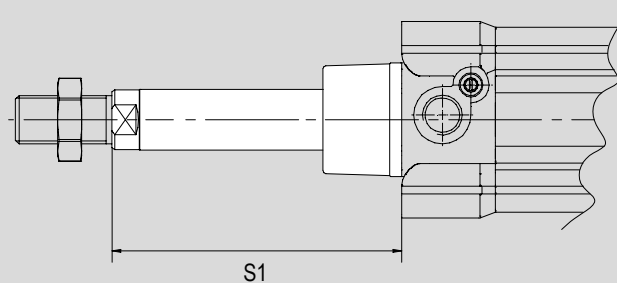
Type: ...P



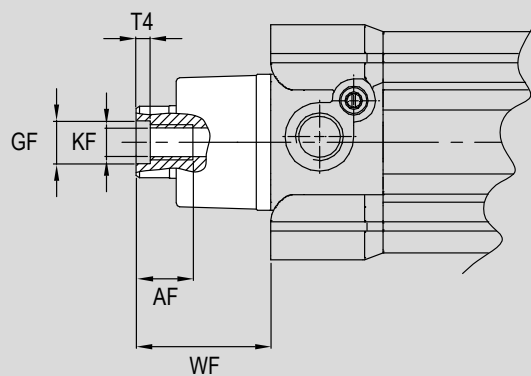
Type: ...B



Type: ...B1



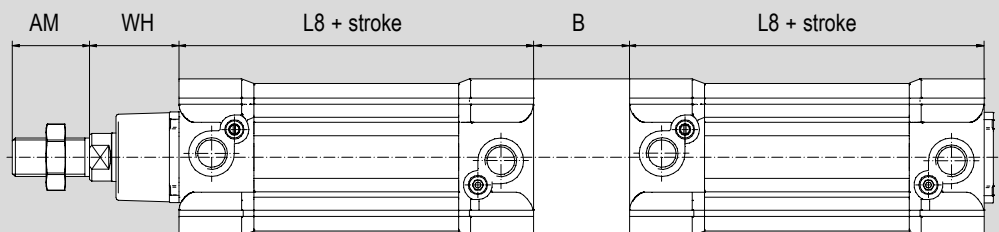
Type: ...F



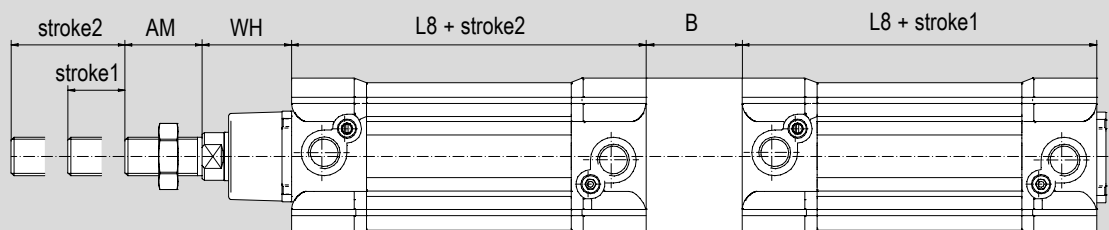
Ø mm	AF	GF	KF	T4	WF	S	S1	ZJ	ZM
32	12	8	M6	2,6	26	74	99	120	146
40	12	10	M8	3,3	30	85	106	135	165
50	16	12	M10	4,7	37	107	127	143	180
63	16	12	M10	4,7	37	107	129	158	195
80	20	14	M12	6,1	46	136	156	174	220
100	20	14	M12	6,1	51	143	181	189	240
125	32	18	M16	8	65	187	-	225	290

Dimensions tandem versions

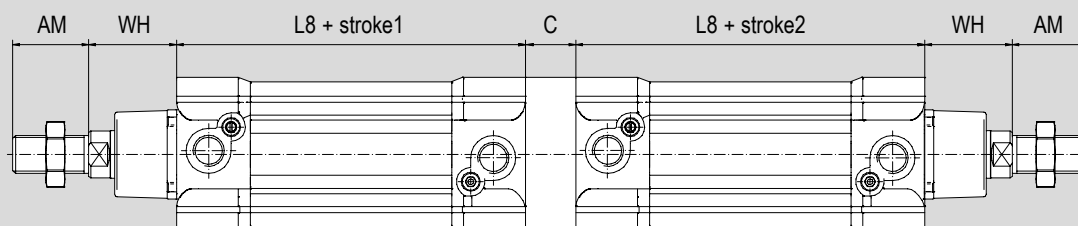
Type: ...TA1



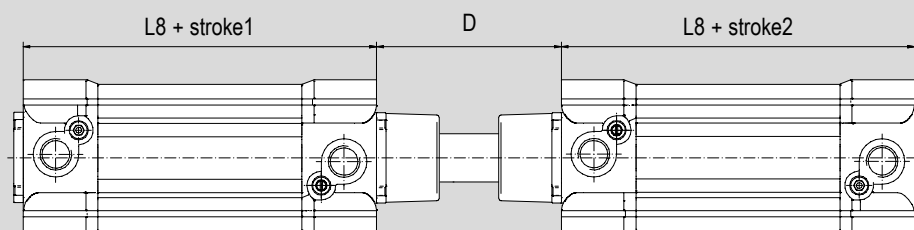
Type: ...TA2



Type: ...TA3



Type: ...TA4

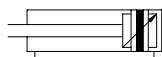


Ø mm	AM	B	C	D	L8	WH
32	22	40	12	48	94	26
40	24	44	12	54	105	30
50	32	52	16	69	106	37
63	32	50	16	69	121	37
80	40	64	20	86	128	46
100	40	76	20	91	138	51
125	54	80	35	120	160	65

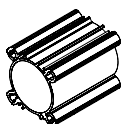
Main features

32 ÷ 125

Bores Ø



Double acting
Magnetic
With cushioning



Tube profile

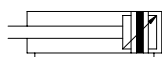
BMA

Type

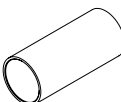


32 ÷ 125

Bores Ø



Double acting
Magnetic
With cushioning



Tube profile

BMT

Type



Technical data

Bore Ø mm			32	40	50	63	80	100	125
Fluid			Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.						
Pressure range			1 ÷ 10 bar						
Temperature range			-20°C ÷ +80°C (standard / V1)		-20°C ÷ +150°C (V)		-40°C ÷ +80°C (BT)		
Strokes			10 ÷ 2800 mm						
Cushion length			20	22	25	25	35	35	35
Port			1/8"	1/4"		3/8"		1/2"	
Rod thread			M10x1,25	M12x1,25	M16x1,5		M20x1,5		M27x2
Weight (g.)	Stroke zero		470	690	1.145	1.483	2.381	3.181	5.284
	Additional 10 mm	AMA	21	29	44	47	69	80	119
		AMT	21	29	44	47	69	80	119

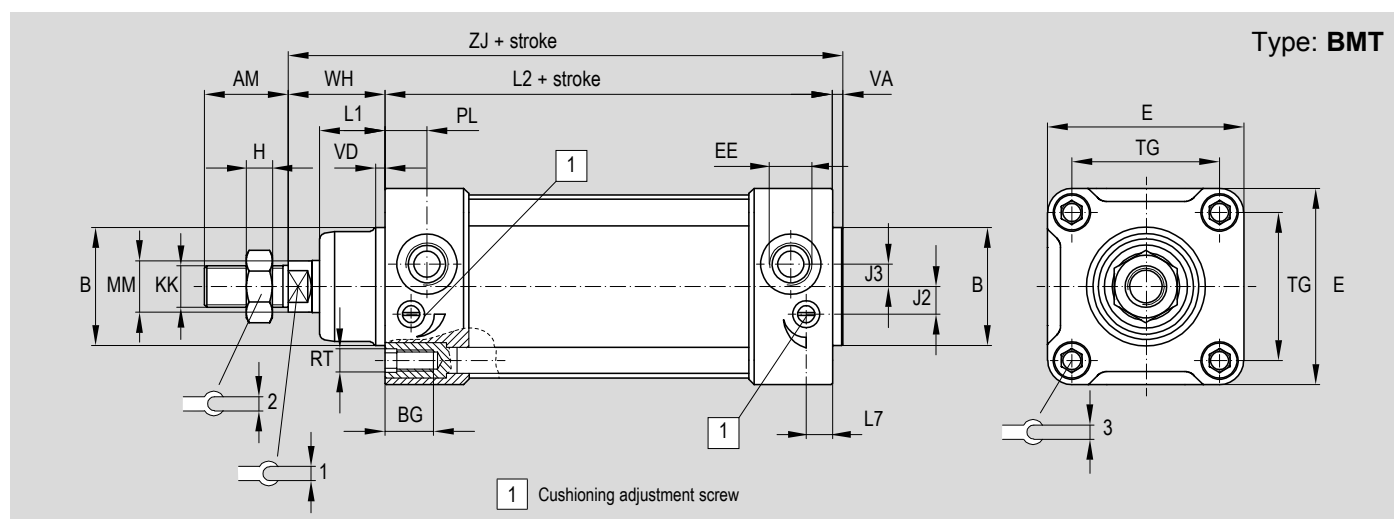
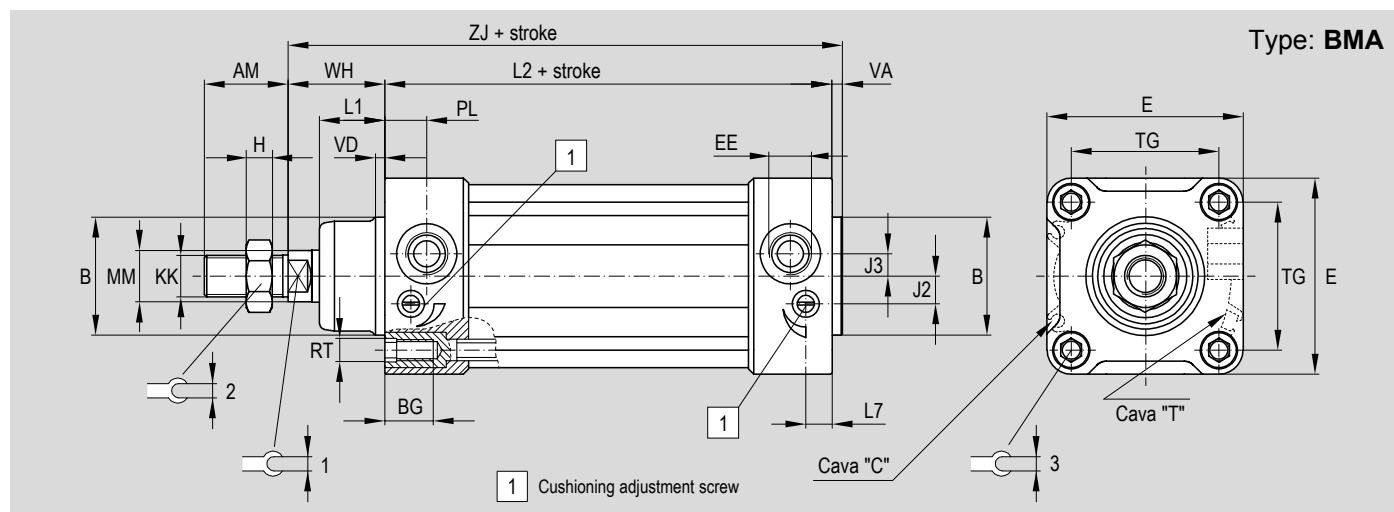
Standard strokes

Stroke mm	BMA Bore Ø mm						
	32	40	50	63	80	100	125
10							
25							
50							
80							
100							
125							
150							
160							
200							
250							
300							
320							
400							
450							
500							

Stroke mm	BMT Bore Ø mm						
	32	40	50	63	80	100	125
10							
25							
50							
80							
100							
125							
150							
160							
200							
250							
300							
320							
400							
450							
500							

Key
☐ Standard stroke

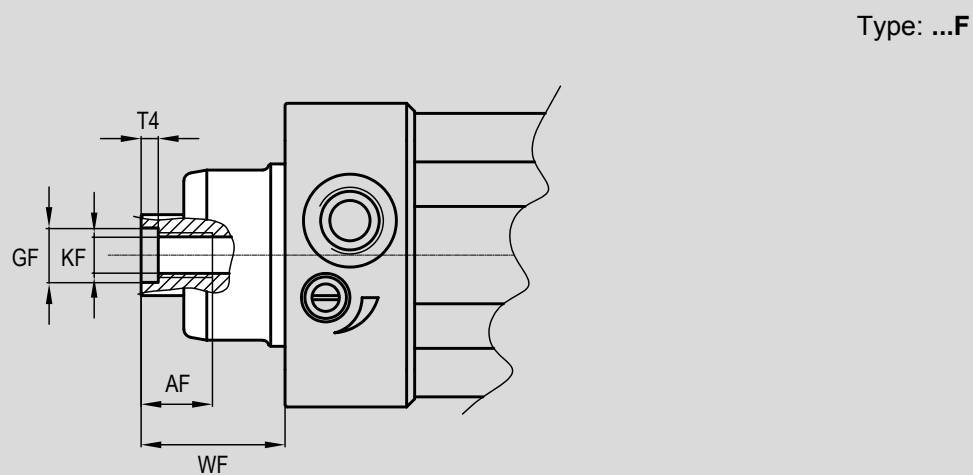
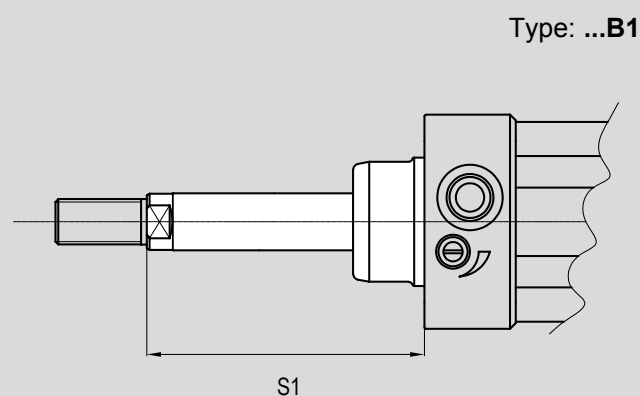
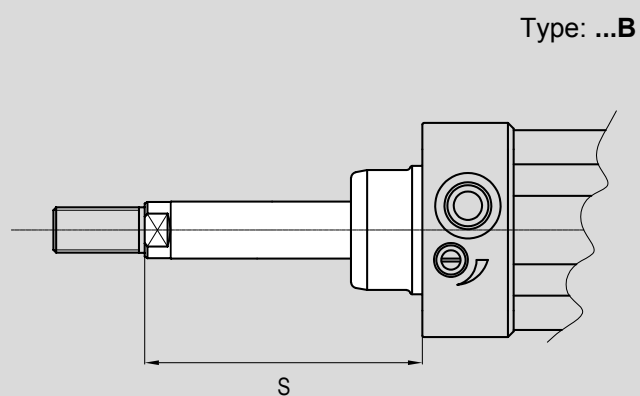
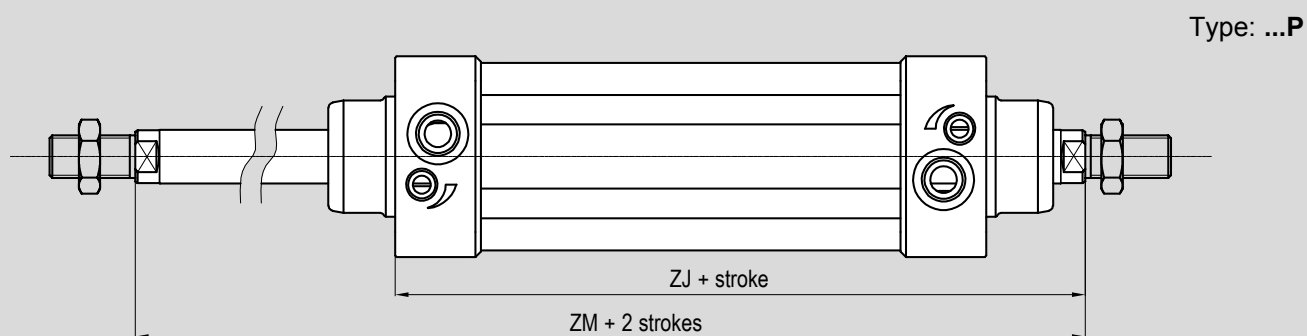
Standard dimensions



Ø (mm)	AM	ØB d11	BG	E	EE	J2	J3	ØKK	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

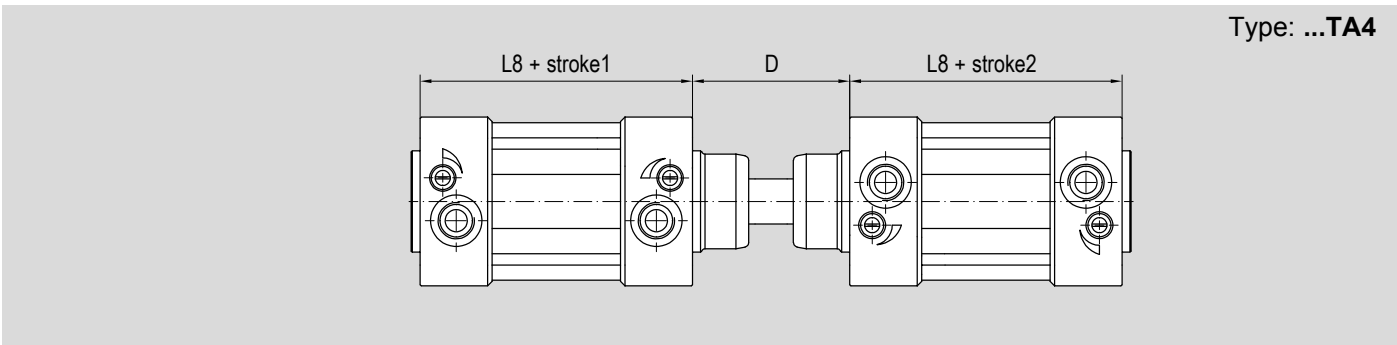
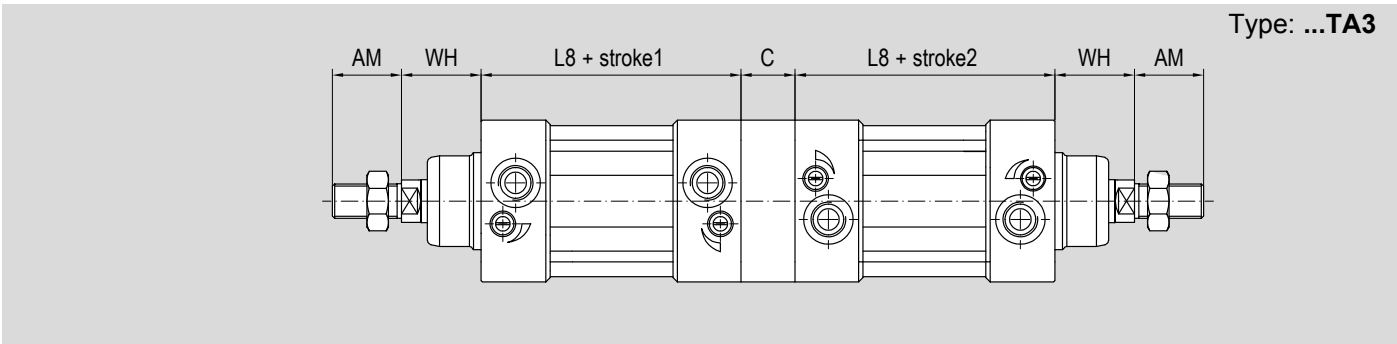
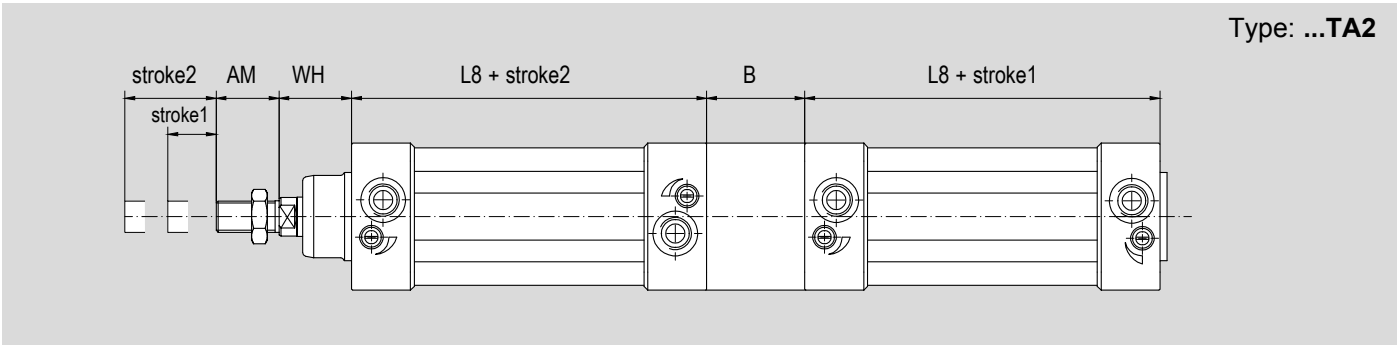
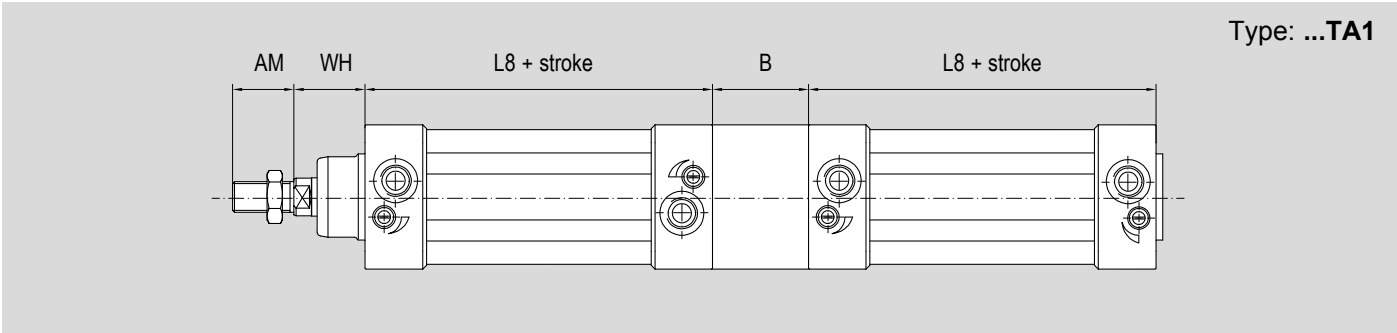
Ø (mm)	L7	ØMM f7	PL	RT	TG	VA	VD	WH	ZJ	≡ 1	≡ 2	≡ 3
32	18	12	11	M6	32,5	4	4	26	124	10	17	6
40	20	16	14	M6	38	4	4	30	139	13	19	6
50	20	20	15	M8	46,5	4	4	37	147	17	24	8
63	10	20	16	M8	56,5	4	4	37	162	17	24	8
80	13,5	25	20,5	M10	72	4	4	46	178	22	30	10
100	13	25	20	M10	89	4	4	51	193	22	30	10
125	30	32	25	M12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

Dimensions with options



Ø mm	AF	GF	KF	T4	WF	S	S1	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

Dimensions tandem versions

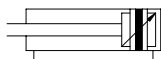


Ø mm	AM	B	C	D	L8	WH
32	22	40	12	48	94	26
40	24	44	12	54	105	30
50	32	52	16	69	106	37
63	32	50	16	69	121	37
80	40	64	20	86	128	46
100	40	76	20	91	138	51
125	54	80	35	120	160	65

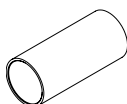
Main features

160 ÷ 320

Bores Ø



Double acting
Magnetic
With cushioning



Tube profile

AMT

Type



Technical data

Bore Ø mm		160	200	250	320
Fluid		Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.			
Pressure range		1 ÷ 10 bar			
Temperature range		-20°C ÷ +80°C (standard / V1)		-20°C ÷ +150°C (V)	-40°C ÷ +80°C (BT)
Strokes		10 ÷ 2800 mm			
Cushion length		46	47	40	40
Port		3/4"		1"	
Rod thread		M36x2		M42x2	M48x2
Weight (g.)	Stroke zero	11.507	14.532	26.811	47.996
	Additional 10 mm	234	250	384	597

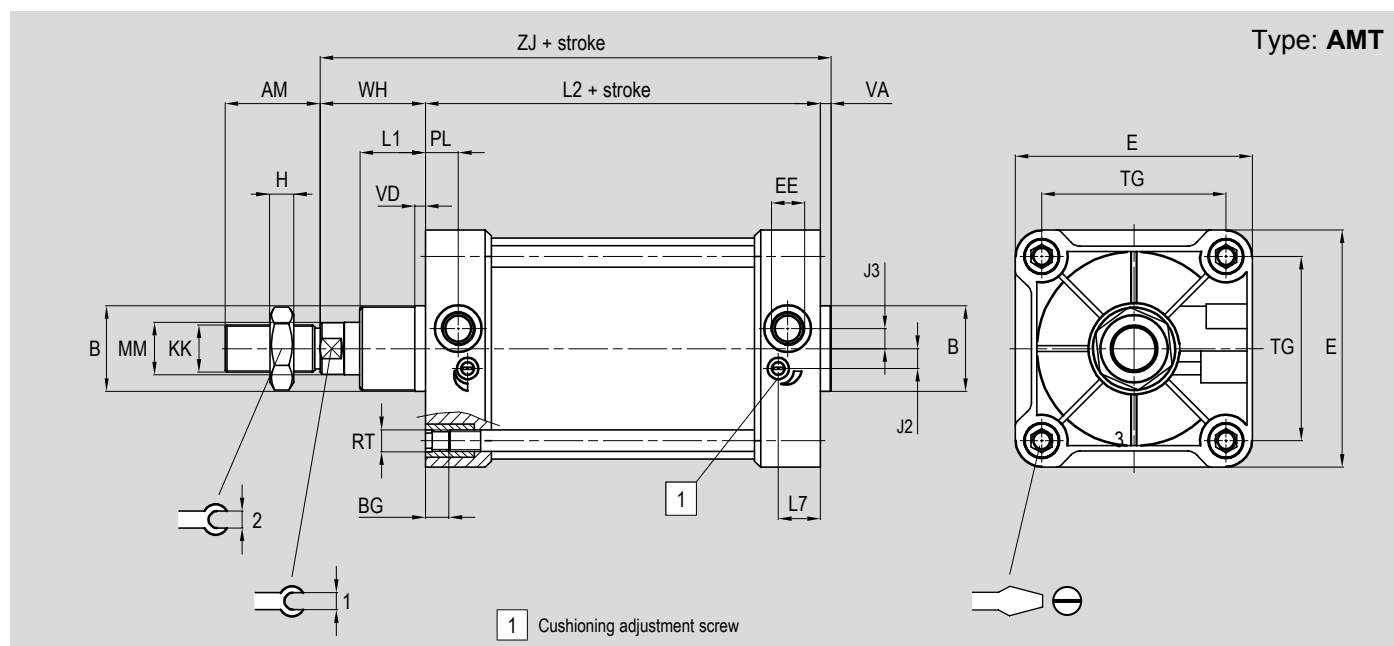
Standard strokes

Stroke mm	AMT Bore Ø mm			
	160	200	250	320
10				
25				
50				
80				
100				
125				
150				
160				
200				
250				
300				
320				
400				
450				
500				

Key

☐ Standard stroke

Standard dimensions

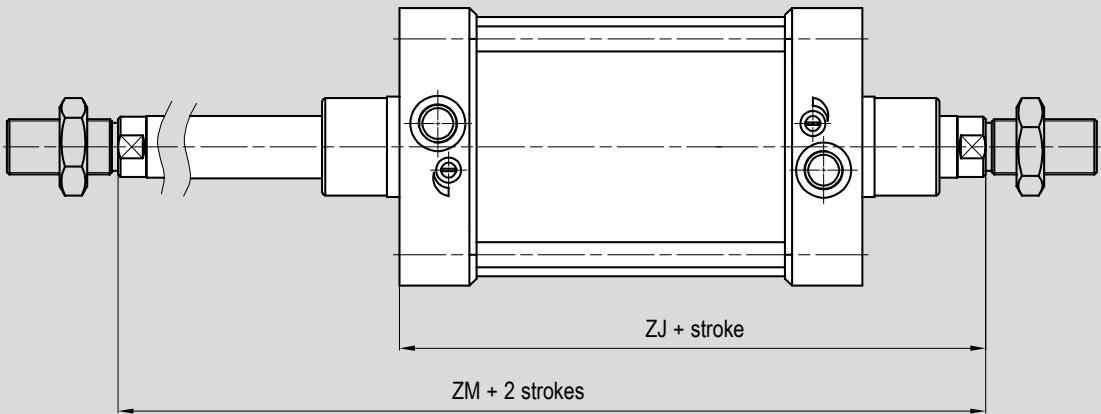


Ø (mm)	AM	ØB d11	BG	E	EE	J2	J3	ØKK	L1	L2	H
160	72	65	24	180	G 3/4	15	15	M36x2	50	180	14
200	72	75	24	220	G 3/4	15	15	M36x2	65	180	14
250	84	90	25	270	G 1	25	25	M42x2	75	200	20
320	96	110	30	350	G 1	35	35	M48x2	90	220	17

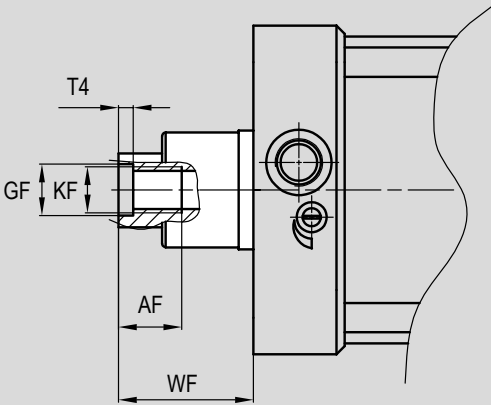
Ø (mm)	L7	ØMM f7	PL	RT	TG	VA	VD	WH	ZJ	≡ 1	≡ 2	≡ 3
160	32	40	25	M16	140	6	8	80	266	36	55	25x3,7
200	34	40	25	M16	175	6	25	95	281	36	55	25x3,7
250	40	50	30	M20	220	8	25	105	313	46	65	32x5,5
320	45	63	30	M24	270	10	25	120	350	55	75	36x5,5

Dimensions with options

Type: ...P

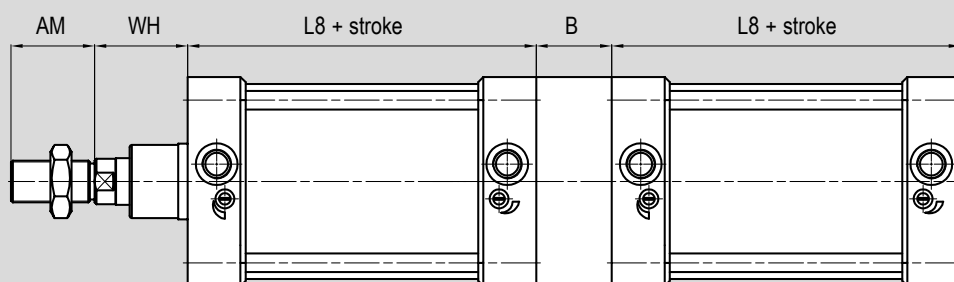


Type: ...F



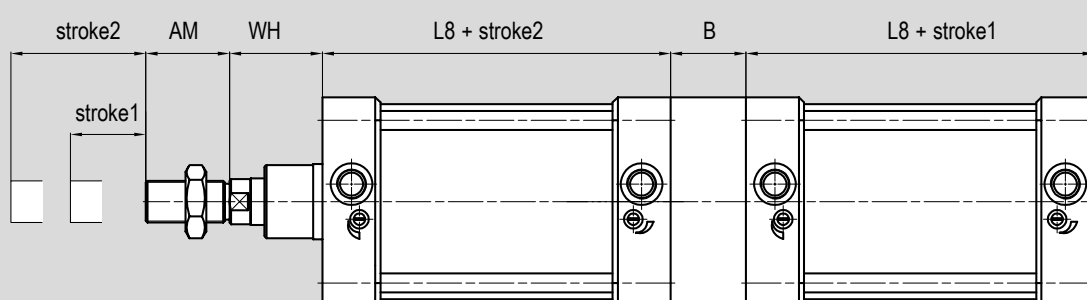
Ø mm	AF	KF	T4	WF	GF	ZJ	ZM
160	36	M20	10	80	22	260	340
200	36	M20	10	95	22	275	370
250	40	M24	12	105	26	305	410
320	50	M30	15	120	32	340	460

Dimensions tandem versions

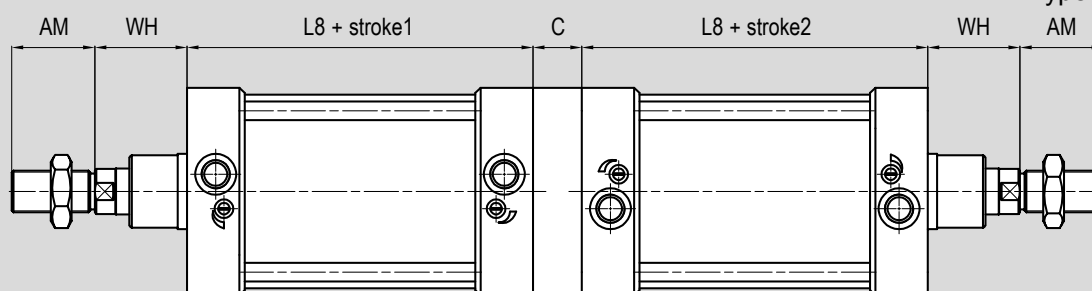


Type: ...TA1

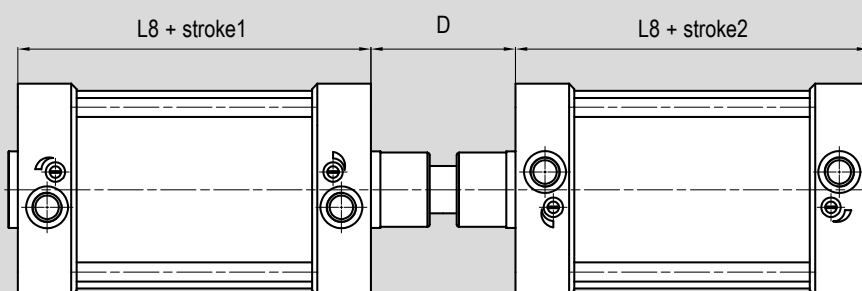
1 - CYLINDERS



Type: ...TA2



Type: ...TA3



Type: ...TA4

Ø mm	AM	B	C	D	L8	WH
160	72	100	50	152	180	80
200	72	130	50	167	180	95
250	84	150	60	180	200	105
320	96	180	70	200	220	120

Slide unit U-shaped, UGLB..

	For cylinder Ø mm	Code	Item	Compliance
	32	*	UGLB32/...	-
	40	*	UGLB40/...	
	50	*	UGLB50/...	
	63	*	UGLB63/...	
	80	*	UGLB80/...	
	100	*	UGLB100/...	

* for code see page 1.70.3

Slide unit H-shaped, UGPB..

	For cylinder Ø mm	Code	Item	Compliance
	32	*	UGPB32/...	-
	40	*	UGPB40/...	
	50	*	UGPB50/...	
	63	*	UGPB63/...	
	80	*	UGPB80/...	
	100	*	UGPB100/...	

* for code see page 1.70.3

Slide unit H-shaped, UGPS..

	For cylinder Ø mm	Code	Item	Compliance
	32	*	UGPS32/...	-
	40	*	UGPS40/...	
	50	*	UGPS50/...	
	63	*	UGPS63/...	
	80	*	UGPS80/...	
	100	*	UGPS100/...	

* for code see page 1.70.3

Static rod brake* normally closed ABS..CRD

	For cylinder Ø mm	Code	Item	Compliance
	32	042001	ABS032CRD	-
	40	042002	ABS040CRD	
	50	042003	ABS050CRD	
	63	042004	ABS063CRD	
	80	042005	ABS080CRD	
	100	042006	ABS100CRD	
	125	042007	ABS125CRD	

* option B required

Static rod brake* normally open ABS..ARD

	For cylinder Ø mm	Code	Item	Compliance
	32	042011	ABS032ARD	-
	40	042012	ABS040ARD	
	50	042013	ABS050ARD	
	63	042014	ABS063ARD	
	80	042015	ABS080ARD	
	100	042016	ABS100ARD	
	125	042017	ABS125ARD	

* option B required

Dynamic rod brake* normally closed ABK..

	For cylinder Ø mm	Code	Item	Compliance
	32	042035	ABK032	-
	40	042036	ABK040	
	50	042037	ABK050	
	63	042038	ABK063	
	80	042039	ABK080	
	100	042040	ABK100	

* option B1 required

Female clevis with clip FF..ISO

	For cylinder Ø mm	Code	Item	Compliance
	32	041004 	FF10ISO	
	40	041005 	FF12ISO	
	50-63	041006 	FF16ISO	
	80-100	041007 	FF20ISO	

Female clevis with pin and seeger FFP..ISO

	For cylinder Ø mm	Code	Item	Compliance
	32	041051	FFP10ISO	
	40	041040	FFP12ISO	
	50-63	041013	FFP16ISO	
	80-100	041017	FFP20ISO	
	125	041009	FFP27ISO	
	160-200	041010	FFP36ISO	
	250	041068	FFP42ISO	
	320	041069	FFP48ISO	

Female clevis (body only) FFN..ISO

	For cylinder Ø mm	Code	Item	Compliance
	32	041014	FFN10ISO	
	40	041016	FFN12ISO	
	50-63	041012	FFN16ISO	
	80-100	041015	FFN20ISO	
	125	*	FFN27ISO	
	160-200	*	FFN36ISO	
	250	*	FFN42ISO	
	320	*	FFN48ISO	

* for code please contact the sales department

Female clevis with male thread FEM..

	For cylinder Ø mm	Code	Item	Compliance
	*	041061	FEM10	-
	*	041062	FEM12	
	*	041063	FEM16	
	*	041064	FEM20	
	*	041065	FEM27	
	*	041065	FEM27	

* for matching with bearing heads see page 1.88.1 and page 1.90.1

Bearing heads (DIN 648K) with female thread RF..SE

	For cylinder Ø mm	Code	Item	Compliance
	32	041554	RF10SE	
	40	041555	RF12SE	
	50-63	041557	RF16SE	
	80-100	041559	RF20SE	
	125	041562	RF30SE	
	160-200	041563	RF35SE	
	250	041571	RF40SE	
	320	041572	RF50SE	

Self-aligning articulated coupling GB..

	For cylinder Ø mm	Code	Item	Compliance
	32	041704	GB040	-
	40	041706	GB060	
	50-63	041708	GB100	
	80-100	041709	GB120	
	125	041711	GB130	
	160-200	041712	GB160-200	
	250	041713	GB250	
	320	041714	GB320	
	320	041714	GB320	

Axial articulated coupling RBL..

	For cylinder Ø mm	Code	Item	Compliance
	32	041604	RBL10	-
	40	041605	RBL12	
	50-63	041607	RBL16	
	80-100	041609	RBL20	

Angular articulated coupling RBL..

	For cylinder Ø mm	Code	Item	Compliance
	32	041654	RBL10	-
	40	041655	RBL12	
	50-63	041657	RBL16	
	80-100	041659	RBL20	

Self-aligning coupling GC..

	For cylinder Ø mm	Code	Item	Compliance
	32	041722	GCM10x1,25	-
	40	041723	GCM12x1,25	
	50-63	041724	GCM16x1,5	
	80-100	041725	GCM20x1,5	
	125	041726	GCM27x2	
	160-200	041727	GCM36x2	

Rod nut D..

	For cylinder Ø mm	Code	Item	Compliance
	32	041452	D10x1,25	
	40	041454	D12x1,25	
	50-63	041455	D16x1,5	
	80-100	041456	D20x1,5	
	125	041458	D27x2	
	160-200	041459	D36x2	
	250	041449	D42x2	
	320	041477	D48x2	
	320	041477	D48x2	

Rear clevis in aluminium with screws and pin CF..ALIS+VP

	For cylinder Ø mm	Code	Item	Compliance
	32	042050	CF032ALIS+VP	
	40	042051	CF040ALIS+VP	
	50	042052	CF050ALIS+VP	
	63	042053	CF063ALIS+VP	
	80	042054	CF080ALIS+VP	
	100	042055	CF100ALIS+VP	
	125	042056	CF125ALIS+VP	
	160	042057	CF160ALIS+VP	
	200	042058	CF200ALIS+VP	
	250	042059	CF250ALIS+VP	
	320	042060	CF320ALIS+VP	

Rear clevis in aluminium* with screws CF..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	040441	CF032ALIS+V	
	40	040442	CF040ALIS+V	
	50	040443	CF050ALIS+V	
	63	040444	CF063ALIS+V	
	80	040445	CF080ALIS+V	
	100	040446	CF100ALIS+V	
	125	040447	CF125ALIS+V	
	160	040448	CF160ALIS+V	
	200	040449	CF200ALIS+V	
	250	040450	CF250ALIS+V	
	320	040459	CF320ALIS+V	

* Available also in steel (item CF..AQIS+V) in Ø 32 ÷ 320, see page 1.98.1

Narrow rear clevis in aluminium with screws and pin CFS..ALIS+VP

	For cylinder Ø mm	Code	Item	Compliance
	32	042110	CFS032ALIS+VP	
	40	042111	CFS040ALIS+VP	
	50	042112	CFS050ALIS+VP	
	63	042113	CFS063ALIS+VP	
	80	042114	CFS080ALIS+VP	
	100	042115	CFS100ALIS+VP	
	125	042116	CFS125ALIS+VP	
	160	042117	CFS160ALIS+VP	
	200	042118	CFS200ALIS+VP	
	250	042148	CFS250ALIS+VP	

Narrow rear clevis in aluminium* with screws CFS..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	040451	CFS032ALIS+V	
	40	040452	CFS040ALIS+V	
	50	040453	CFS050ALIS+V	
	63	040454	CFS063ALIS+V	
	80	040455	CFS080ALIS+V	
	100	040456	CFS100ALIS+V	
	125	040457	CFS125ALIS+V	
	160	040458	CFS160ALIS+V	
	200	040498	CFS200ALIS+V	
	250	042499	CFS250ALIS+V	

Available also in steel (item CFS..AQIS+V) in Ø 32 ÷ 125, see page 1.98.1

Rear eye in aluminium* with screws CM..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042061	CM032ALIS+V	
	40	042062	CM040ALIS+V	
	50	042063	CM050ALIS+V	
	63	042064	CM063ALIS+V	
	80	042065	CM080ALIS+V	
	100	042066	CM100ALIS+V	
	125	042067	CM125ALIS+V	
	160	042068	CM160ALIS+V	
	200	042069	CM200ALIS+V	
	250	042070	CM250ALIS+V	
	320	042071	CM320ALIS+V	

Available also in steel (item CM..AQIS+V) in Ø 32 ÷ 320, see page 1.98.2

Narrow rear eye with bearing (DIN 648K) in aluminium* with screws CMS..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042101	CMS032ALIS+V	
	40	042102	CMS040ALIS+V	
	50	042103	CMS050ALIS+V	
	63	042104	CMS063ALIS+V	
	80	042105	CMS080ALIS+V	
	100	042106	CMS100ALIS+V	
	125	042107	CMS125ALIS+V	
	160	042108	CMS160ALIS+V	
	200	042109	CMS200ALIS+V	
	250	040160	CMS250ALIS+V	
	320	040197	CMS320ALIS+V	

Available also in steel (item CMS..AQIS+V) in Ø 32 ÷ 125, see page 1.98.2

Flange in aluminium with screws FLV..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042150	FLV032ALIS+V	  MF1 / MF2
	40	042151	FLV040ALIS+V	
	50	042152	FLV050ALIS+V	
	63	042153	FLV063ALIS+V	
	80	042154	FLV080ALIS+V	
	100	042155	FLV100ALIS+V	
	125	042156	FLV125ALIS+V	
	160	042157	FLV160ALIS+V	
	200	042158	FLV200ALIS+V	

Flange in steel with screws FLV..AQIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042119	FLV032AQIS+V	  MF1 / MF2
	40	042120	FLV040AQIS+V	
	50	042121	FLV050AQIS+V	
	63	042122	FLV063AQIS+V	
	80	042123	FLV080AQIS+V	
	100	042124	FLV100AQIS+V	
	125	042125	FLV125AQIS+V	
	160	042126	FLV160AQIS+V	
	200	042127	FLV200AQIS+V	
	250	042128	FLV250AQIS+V	
	320	040683	FLV320AQIS+V	

Rear 90° hinge in aluminium* with screws ASV..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042081	ASV032ALIS+V	 AB7  RP 107P
	40	042082	ASV040ALIS+V	
	50	042083	ASV050ALIS+V	
	63	042084	ASV063ALIS+V	
	80	042085	ASV080ALIS+V	
	100	042086	ASV100ALIS+V	
	125	042087	ASV125ALIS+V	
	160	042088	ASV160ALIS+V	
	200	042089	ASV200ALIS+V	
	250	042090	ASV250ALIS+V	

Clevis hinge in aluminium with screws ASF..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042161	ASF032ALIS+V	 RP 107P
	40	042162	ASF040ALIS+V	
	50	042163	ASF050ALIS+V	
	63	042164	ASF063ALIS+V	
	80	042165	ASF080ALIS+V	
	100	042166	ASF100ALIS+V	
	125	042167	ASF125ALIS+V	
	160	042168	ASF160ALIS+V	
	200	042169	ASF200ALIS+V	
	250	042170	ASF250ALIS+V	

*Available also in steel (item ASV..AQIS) in Ø 32 ÷ 125, see page 1.98.3

Adjustable center trunnion (tie rods)* in steel with grains CT..AQIS+GR

	For cylinder Ø mm	Code	Item	Compliance
	32	040581	CT032AQIS+GR	 MT4
	40	040582	CT040AQIS+GR	
	50	040583	CT050AQIS+GR	
	63	040584	CT063AQIS+GR	
	80	040585	CT080AQIS+GR	
	100	040586	CT100AQIS+GR	
	125	040587	CT125AQIS+GR	
	160	040588	CT160AQIS+GR	
	200	040589	CT200AQIS+GR	

*For trunnion mounted on the cylinder, please order together with the cylinder.

Non adjustable round trunnion (threaded)* in steel CTN..AQIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040052	CTN032AQIS	 MT4
	40	040053	CTN040AQIS	
	50	048590	CTN050AQIS	
	63	040564	CTN063AQIS	
	80	040096	CTN080AQIS	
	100	040097	CTN100AQIS	
	125	040098	CTN125AQIS	
	160	040099	CTN160AQIS	
	200	040100	CTN200AQIS	
	250	040110	CTN250AQIS	
	320	040590	CTN320AQIS	

*For trunnion mounted on the cylinder, please order together with the cylinder, indicating the XV dimension (cannot be modified), see page 1.98.7

Center trunnion (profile barrel)* in steel with grains CTS..AQIS+GR

	For cylinder Ø mm	Code	Item	Compliance
	32	040601	CTS032AQIS+GR	
	40	040602	CTS040AQIS+GR	
	50	040603	CTS050AQIS+GR	
	63	040604	CTS063AQIS+GR	
	80	040605	CTS080AQIS+GR	
	100	040606	CTS100AQIS+GR	
	125	040607	CTS125AQIS+GR	

*For trunnion mounted on the cylinder, please order together with the cylinder.

Center trunnion for heads in steel with screws CTA..AQIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	040591	CTA032AQIS+V	
	40	040592	CTA040AQIS+V	
	50	040593	CTA050AQIS+V	
	63	040594	CTA063AQIS+V	
	80	040595	CTA080AQIS+V	
	100	040596	CTA100AQIS+V	
	125	040598	CTA125AQIS+V	

Front clevis in aluminium with screws CFA..ALIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	040473	CFA032ALIS+V	
	40	040474	CFA040ALIS+V	
	50	040017	CFA050ALIS+V	
	63	040471	CFA063ALIS+V	
	80	040051	CFA080ALIS+V	
	100	040478	CFA100ALIS+V	
	125	040475	CFA125ALIS+V	
	160	040477	CFA160ALIS+V	
	200	040479	CFA200ALIS+V	

Low foot in steel* with screws PB..AQIS+V

	For cylinder Ø mm	Code	Item	Compliance
	32	042129	PB032AQIS+V	
	40	042130	PB040AQIS+V	
	50	042131	PB050AQIS+V	
	63	042132	PB063AQIS+V	
	80	042133	PB080AQIS+V	
	100	042134	PB100AQIS+V	
	125	042135	PB125AQIS+V	
	160	042136	PB160AQIS+V	
	200	042137	PB200AQIS+V	
	250	042138	PB250AQIS+V	
	320	042139	PB320AQIS+V	

*Supplied individually and available also in version foot, made of aluminium (item P..ALIS), in Ø 32 + 250, see page 1.97.6

Rear 90° hinge with bearing (DIN 648K) in steel ASS..AQIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040551	ASS032AQIS	
	40	040552	ASS040AQIS	
	50	040553	ASS050AQIS	
	63	040554	ASS063AQIS	
	80	040555	ASS080AQIS	
	100	040556	ASS100AQIS	
	125	040557	ASS125AQIS	

Rear 90° hinge in aluminium AS..ALIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040361	AS032ALIS	
	40	040362	AS040ALIS	
	50	040363	AS050ALIS	
	63	040364	AS063ALIS	
	80	040365	AS080ALIS	
	100	040366	AS100ALIS	
	125	040367	AS125ALIS	
	160	040368	AS160ALIS	
	200	040369	AS200ALIS	

Support for center trunnion* in steel ST..AQIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040681	ST032AQIS	
	40-50	040682	ST040/050AQIS	
	63-80	040684	ST063/080AQIS	
	100-125	040686	ST100/125AQIS	
	160-200	040688	ST160/200AQIS	

*Supplied individually

Plate for valves* PSV..

	For cylinder Ø mm	Code	Item	Compatibilità taglia valvola*
	32-40	071458	PSV/A1/AMA-32-40	1/8" - 1/4"
	50-63	071459	PSV/A1/AMA-50-63	
	80-125	071460	PSV/A1/AMA-80-100-125	1/8" - 1/4" - 1/2"
	160-200	070822	PSV/A1/AMT-160-200	1/4" - 1/2"

*For valves series A1 see from page 2.20.1

Anti-rotating pin with seeger* in steel SEC..ARAQIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040571	SEC032ARAQIS	
	40	040572	SEC040ARAQIS	
	50	040573	SEC050ARAQIS	
	63	040574	SEC063ARAQIS	
	80	040575	SEC080ARAQIS	
	100	040576	SEC100ARAQIS	
	125	040577	SEC125ARAQIS	
	160	040578	SEC160ARAQIS	
	200	040579	SEC200ARAQIS	

*Supplied with 1 seeger

Pin with seeger* in steel SEC..AQIS

	For cylinder Ø mm	Code	Item	Compliance
	32	040261	SEC032AQIS	
	40	040262	SEC040AQIS	
	50	040263	SEC050AQIS	
	63	040264	SEC063AQIS	
	80	040265	SEC080AQIS	
	100	040266	SEC100AQIS	
	125	040267	SEC125AQIS	
	160	040268	SEC160AQIS	
	200	040269	SEC200AQIS	
	250	040270	SEC250AQIS	
	320	040460	SEC320AQIS	

*Supplied with 2 seeger

Bracket AS.. for magnetic reed switches T groove

	For cylinder Ø mm	Code	Item	Cylinder matching
	32 ÷ 40	072908	AS101	AMA BMA
	50 ÷ 63	072909	AS102	
	80 ÷ 100	072910	AS103	
	125	072911	AS104	
	32 ÷ 40	072912	AS105	
	50 ÷ 100	072913	AS106	AMT BMT
	125	072909	AS102	
	160 ÷ 200	072910	AS103	
	250 ÷ 320	072917	AS110	

Bracket AS.. for high-temperatures magnetic reed switches

	For cylinder Ø mm	Code	Item	Cylinder matching
	32 ÷ 40	077838	AS114	AMA BMA
	50 ÷ 63	077651	AS113	
	80	074055	AS112	
	100	077839	AS115	
	125	074007	AS116	
	32 ÷ 40	074041	AS117	AMT BMT
	50 ÷ 63	074043	AS118	
	80 ÷ 100	074087	AS119	
	125	074155	AS120	
	160 ÷ 200	074169	AS121	

Magnetic reed switch T groove ASV..

	For cylinder Ø mm	Code	Item	Cylinder matching
	32 ÷ 320	070946	ASV1C525	AMA BMA AMT* BMT*
		071863	ASV1C550	
		071864	ASV1C51K	
		071189	ASV1C5M8	
		073639	ASV4D225	
		070246	ASV4D2M8	
		074900	ASV7N225	
		070247	ASV7N2M8	
		070372	ASV7M2M8	
		072918	ASV1H525	

*With bracket type AS.. for magnetic reed switches T groove

High-temperatures magnetic reed switches ASH..

	For cylinder Ø mm	Code	Item	Cylinder matching
	32 ÷ 320	074047	ASH6C550	AMA* BMA* AMT* BMT*

*With bracket type AS.. for high-temperatures magnetic reed switches

Magnetic reed switch C groove ASC..

	For cylinder Ø mm	Code	Item	Cylinder matching
	32 ÷ 320	070248	ASC1C525	AMA BMA
		070249	ASC7N2M8	
		070382	ASC7M2M8	

ATEX magnetic reed switch T groove MK..

	For cylinder Ø mm	Code	Item	Compliance	Cylinder matching
	32 ÷ 320	071120	MK500A		AMA BMA AMT* BMT*
		071108	MK502A		

*With bracket type AS.. for magnetic reed switches T groove