

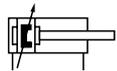
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-20°C ... +80°C (SLXH: -10°C ... +150°C)
Max. stroke	2.700 mm
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Alternatively the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Cylinder tube: Al (anodized) End caps: Al-die-cast (painted) Piston rod: steel hard chrome plated (optional 1.4301) Seals: PU, NBR (optional FKM)
	Cylinders in accordance with 2014/34/EU (ATEX) available.(page 13)

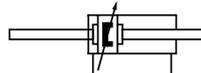


Double acting Al-profile cylinder with integrated sensor grooves, adjustable cushions and magnetic piston for proximity sensors. The sensors can be installed directly into the sensor grooves of the Al-profile. Standard stroke lengths in table below, additional lengths on request.

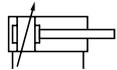
Versions



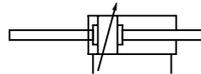
050, 054, 000, 004
double acting, adjustable cushioning,
with magnetic piston



450, 454, 400, 404
double acting, double end piston rod, adjustab-
le cushioning, with magnetic piston



152, 102
double acting, adjustable cushioning



552, 502
double acting, double end piston rod, adjusta-
ble cushioning

Order code

SLX*--*-****-****-******

Series	<ul style="list-style-type: none"> SLX standard SLXC low temperature version SLXCD low temperature version, with metal scraper SLXD with metal scraper SLXH high temperature version SLXL low friction version 	Options	<ul style="list-style-type: none"> ATEX cylinders in accordance with 2014/34/EU (ATEX) E8 piston rod seal E8, two-part, with plastic scraper
Piston Ø	<ul style="list-style-type: none"> 032 32 mm 040 40 mm 050 50 mm 063 63 mm 080 80 mm 100 100 mm 125 125 mm 	Versions	<ul style="list-style-type: none"> 050 450 standard version 000 400 piston rod stainless steel 054 454 piston rod seal FKM 004 404 piston rod stainless steel , piston rod seal FKM 152 552 high temperature version (without magnetic piston) 102 502 high temperature version, piston rod stainless steel (without magnetic piston)
<p><i>Not all combinations are possible and available.</i></p> <p>* For longer stroke lengths please check the max buckling load.</p>		Stroke (mm)	<ul style="list-style-type: none"> XXXX max. 2.700 mm* Standard 25, 40, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500 mm

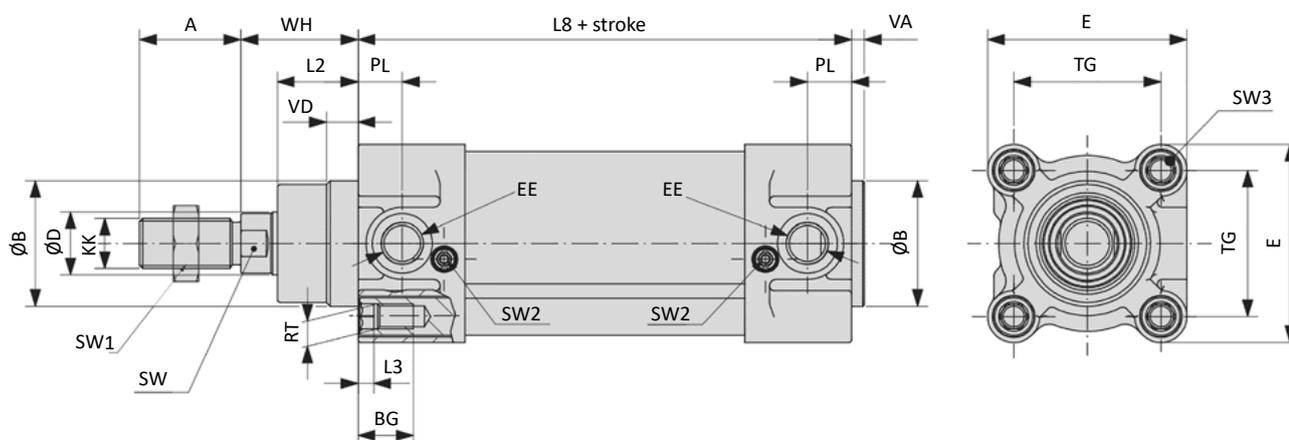
Series SLX

ISO 1552, double acting

Technical data

Model-no.:	SLX-032-...	SLX-040-...	SLX-050-...	SLX-063-...	SLX-080-...	SLX-100-...	SLX-125-...
Piston \varnothing (mm)	32	40	50	63	80	100	125
Force at 6 bar (N)	Extension	434	678	1060	1682	2713	6623
	Retraction	373	570	890	1513	2448	6189
Connection	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Piston rod thread	M10 x 1,25	M12 x 1,25	M16 x 1,5	M16 x 1,5	M20 x 1,5	M20 x 1,5	M27 x 2
Cushioning length (mm)	27	29	32	32	32	32	42

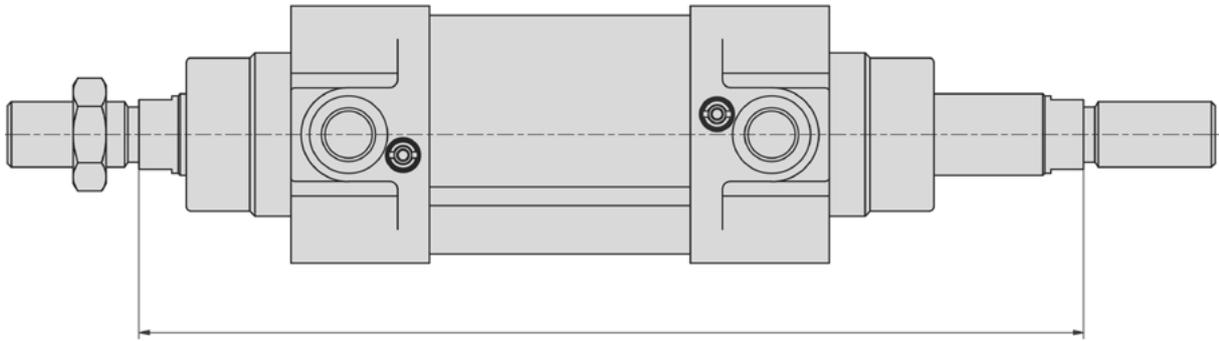
Dimensions series SLX



Piston- \varnothing	A	$\varnothing B$	BG	$\varnothing D$	E	EE	KK	L2	L3	L8
32	22	30	16,5	12	47	G1/8	M10 x 1,25	18	5	94
40	24	35	16,5	16	54	G1/4	M12 x 1,25	22	5	105
50	32	40	17,5	20	63	G1/4	M16 x 1,5	25,5	5	106
63	32	45	17,5	20	74	G3/8	M16 x 1,5	25	5	121
80	40	45	17,5	25	93,5	G3/8	M20 x 1,5	35	-	128
100	40	55	17,5	25	110	G1/2	M20 x 1,5	38	-	138
125	54	60	20,5	32	137,5	G1/2	M27 x 2	46	-	160

Piston- \varnothing	PL	RT	SW	SW1	SW2	SW3	TG	VA	VD	WH
32	12,5	M6	10	17	1,5	6	32,5	4	8	26
40	14	M6	13	19	1,5	6	38	4	10	30
50	14	M8	17	24	1,5	8	46,5	4	10	37
63	18,25	M8	17	24	1,5	8	56,5	4	10	37
80	18,5	M10	22	30	1,5	6	72	4	10	46
100	20	M10	22	30	1,5	6	89	4	12	51
125	29	M12	27	41	1,5	8	110	6	12	65

Dimensions series SLX (addition at double end piston rod)

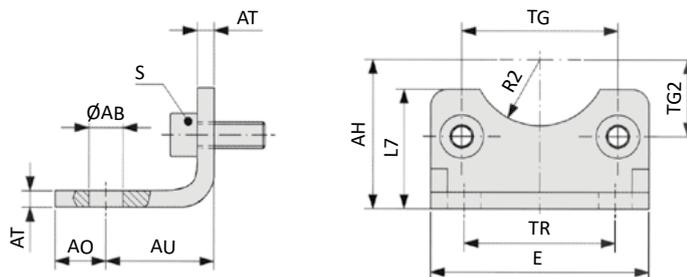


Piston- \varnothing (mm)	32	40	50	63	80	100	125
ZM	146	165	180	195	220	240	290

Series SLX

Mounting accessories

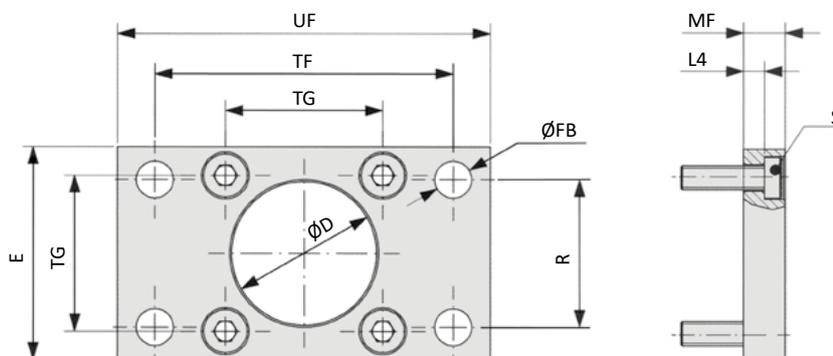
XLB-xxx-01 Foot mount



Model-no.:	Ø AB	AH	AO	AU	AT	E	L7	R2	S	TG	TG2	TR
XLB-032-01	7	32	11	24	4	45	30	15	M6 x 16	32,5	16,25	32
XLB-040-01	10	36	8	28	4	52	30	17,5	M6 x 16	38	19	36
XLB-050-01	10	45	15	32	5	65	36	20	M8 x 20	46,5	23,25	45
XLB-063-01	10	50	13	32	5	75	35	22,5	M8 x 20	56,5	28,25	50
XLB-080-01	12	63	14	41	6	95	47	22,5	M10 x 20	72	36	63
XLB-100-01	14,5	71	16	41	6	115	53	27,5	M10 x 20	89	44,5	75
XLB-125-01	16,5	90	25	45	8	140	70	30	M12 x 25	110*	55	90
<i>Tolerances and adjustments</i>	H14	JS16		± 0,2				H15		± 0,2 *± 0,3		JS14

Material: steel, zinc plated; 2 x 2 screws in accordance with EN ISO 4762 are included.

XLB-xxx-02 Flange mount



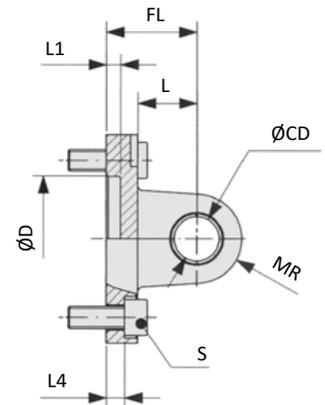
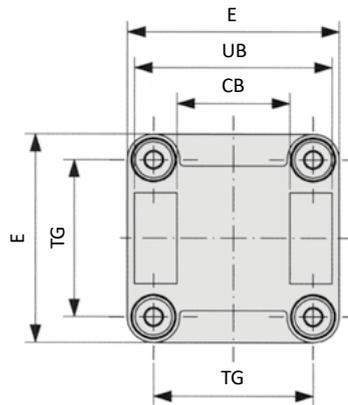
Model-no.:	Ø D	E	Ø FB	L4	MF	R	S	TF	TG	UF
XLB-032-02	30	45	7	5	10	32	M6 x 20	64	32,5	80
XLB-040-02	35	52	9	5	10	36	M6 x 20	72	38	90
XLB-050-02	40	65	9	6,5	12	45	M8 x 20	90	46,5	110
XLB-063-02	45	75	9	6,5	12	50	M8 x 20	100	56,5	120
XLB-080-02	45	95	12	9	16	63	M10 x 25	126	72	150
XLB-100-02	55	115	14	9	16	75	M10 x 25	150	89	170
XLB-125-02	60	140	16	10,5	20	90	M12 x 25	180	110*	205
<i>Tolerances and adjustments</i>	H11		H13	- 0,5	JS14	JS14		JS14	± 0,2 *± 0,3	

Material: steel, zinc plated; 4 screws in accordance with DIN 7984 are included.

XLB-xxx-04 Clevis mount with bushing



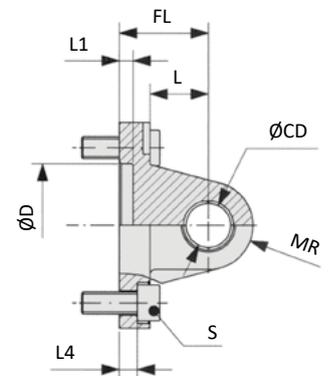
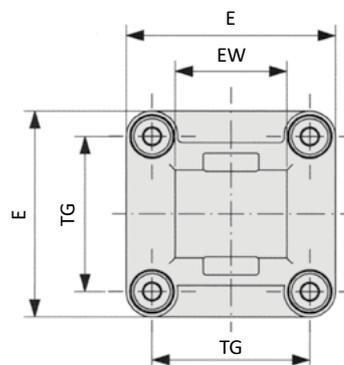
Inclusive clevis pin
order no: XLB-xxx-48



Model-no.:	CB	Ø CD	Ø D	E	FL	L	L1	L4	MR	S	TG	UB
XLB-032-04	26	10	30	45	22	13	5	5,5	10	M6 x 20	32,5	45
XLB-040-04	28	12	35	52	25	16	5	5,5	12	M6 x 20	38	52
XLB-050-04	32	12	40	65	27	16	5	6,5	12	M8 x 20	46,5	60
XLB-063-04	40	16	45	75	32	21	5	6,5	16	M8 x 20	56,5	70
XLB-080-04	50	16	45	95	36	22	5	10	16	M10 x 25	72	90
XLB-100-04	60	20	55	115	41	27	5	10	20	M10 x 25	89	110
XLB-125-04	70	25	60	140	50	30	7	10	25	M12 x 25	110*	130
<i>Tolerances and adjustments</i>	H14	H9	H11		± 0,2			± 0,5			± 0,2 *± 0,3	h13

Materials: Al, bushing steel and PTFE; 4 screws in accordance with EN ISO 4762 are included.

XLB-xxx-05 Swivel mount

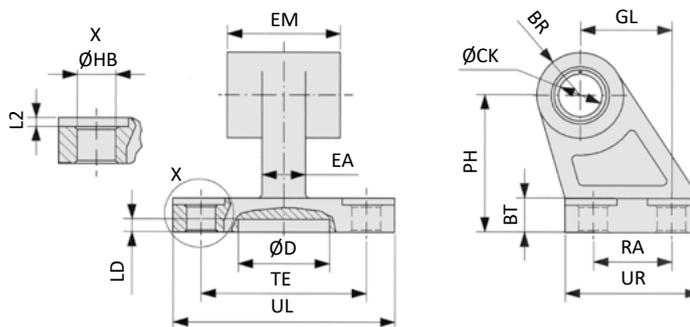


Model-no.:	Ø CD	Ø D	E	EW	FL	L	L1	L4	MR	S	TG
XLB-032-05	10	30	45	26	22	13	5	5,5	10	M6 x 20	32,5
XLB-040-05	12	35	52	28	25	16	5	5,5	12	M6 x 20	38
XLB-050-05	12	40	65	32	27	16	5	6,5	12	M8 x 20	46,5
XLB-063-05	16	45	75	40	32	21	5	6,5	16	M8 x 20	56,5
XLB-080-05	16	45	95	50	36	22	5	10	16	M10 x 25	72
XLB-100-05	20	55	115	60	41	27	5	10	20	M10 x 25	89
XLB-125-05	25	60	140	70	50	30	7	10	25	M12 x 25	110*
<i>Tolerances and adjustments</i>	H9	H11			± 0,2			± 0,5			± 0,2 *± 0,3

Materials: Al, bushing steel and PTFE; 4 screws in accordance with EN ISO 4762 are included.

Series SLX Mounting accessories

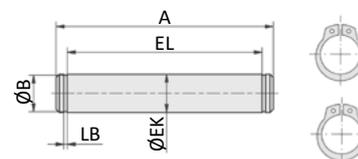
XLB-xxx-06 Swivel mount 90°



Model-no.:	BR	BT	ØCK	Ø D	EA	EM	GL	ØHB	L2	LD	PH	RA	TE	UL	UR
XLB-032-06	10	8	10	21	10	26	21	6,6	1,6	3	32	18	38	51	31
XLB-040-06	11	10	12	21	15	28	24	6,6	1,6	3	36	22	41	54	35
XLB-050-06	13	12	12	21	16	32	33	9	1,6	3	45	30	50	65	45
XLB-063-06	15	14	16	21	16	40	37	9	1,6	3	50	35	52	67	50
XLB-080-06	15	14	16	21	20	50	47	11	2,5	3	63	40	66	86	60
XLB-100-06	19	17	20	11	20	60	55	11	2,5	3	71	50	76	96	70
XLB-125-06	22,5	20	25	21	30	70	70	14	3,2	3	90	60	94	124	90
<i>Tolerances and adjustments</i>			H9				JS14	H13			JS15	JS14	JS14		

Materials: Al, bushing steel and PTFE

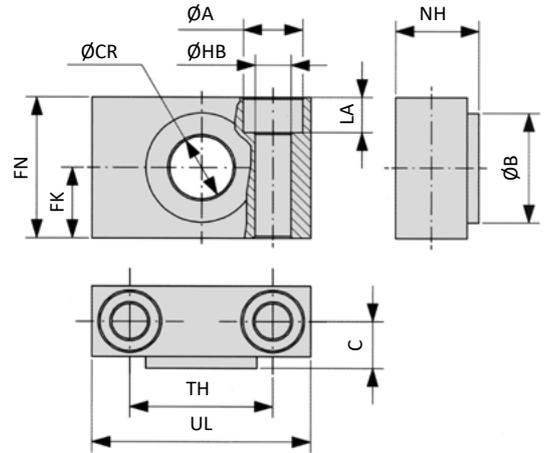
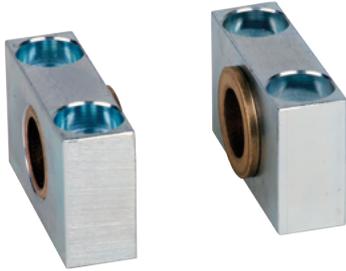
XLB-xxx-08 Clevis pin



Model-no.:	A	Ø B	Ø EK	EL	LB
XLB-032-08	53	9,6	10	46	1,1
XLB-040-08	60	11,5	12	53	1,1
XLB-050-08	68	11,5	12	61	1,1
XLB-063-08	78	15,2	16	71	1,1
XLB-080-08	98	15,2	16	91	1,1
XLB-100-08	118	19	20	111	1,3
XLB-125-08	139	23,9	25	132*	1,3
<i>Tolerances and adjustments</i>			e8	+2 *+3	

Material: steel, zinc plated; 2 snap rings are included.

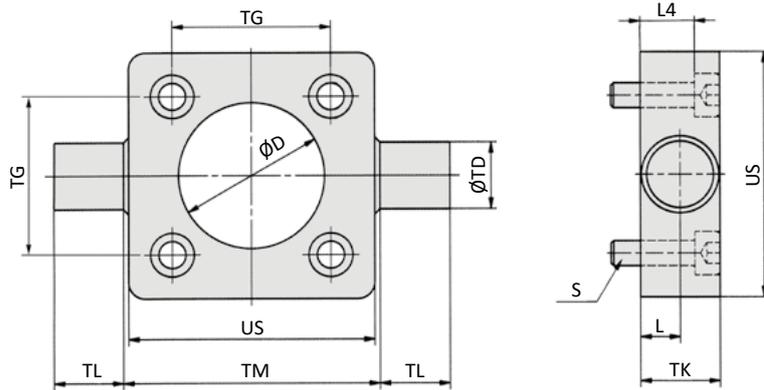
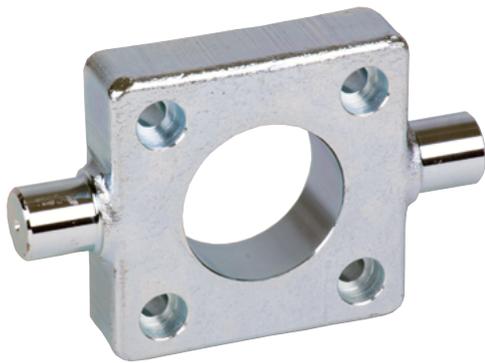
XLB-xxx-09 Bearing block



Model-no.:	Ø A	Ø B	C	Ø CR	FK	FN	Ø HB	LA	NH	TH	UL
XLB-032-09	11	22	10,5	12	15	30	6,6	7	18	32	46
XLB-040-09	15	28	12	16	18	36	9	9	21	36	55
XLB-063-09	18	32	13	20	20	40	11	11	23	42	65
XLB-100-09	20	39	16	25	25	50	14	13	28,5	50	75
<i>Tolerances and adjustments</i>				H9	± 0,1		H13			± 0,2	
Materials: Al, bronze bushing											

Series SLX Mounting accessories

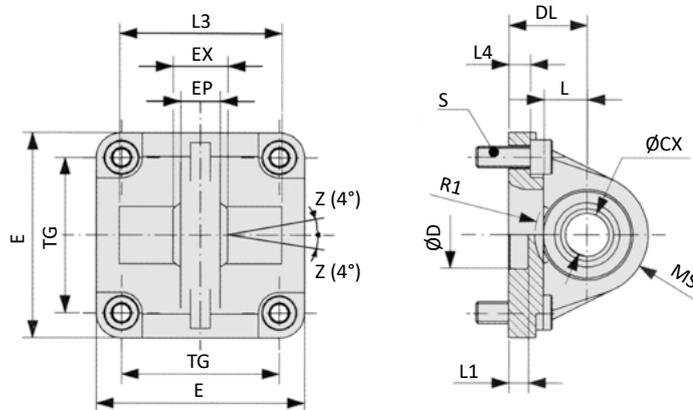
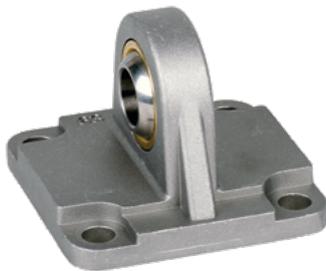
XLB-xxx-11 Trunnion mount



Model-no.:	Ø D	L	L4	S	Ø TD	TG	TK	TL	TM	US
XLB-032-11	30	6,5	8	M6 x 20	12	32,5	14	12	50	46
XLB-040-11	35	9	13	M6 x 25	16	38	19	16	63	59
XLB-050-11	40	9	11	M8 x 25	16	46,5	19	16	75	69
XLB-063-11	45	11,5	16	M8 x 30	20	56,5	24	20	90	84
XLB-080-11	45	11,5	14	M10 x 30	20	72	24	20	110	102
XLB-100-11	55	14	19	M10 x 35	25	89	29	25	132	125
XLB-125-11	60	15	18	M12 x 35	25	110*	30	25	160	150
<i>Tolerances and adjustments</i>	H 11	+ 0,2			e9	± 0,2 *± 0,3		h14	h14	

Material: steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included.

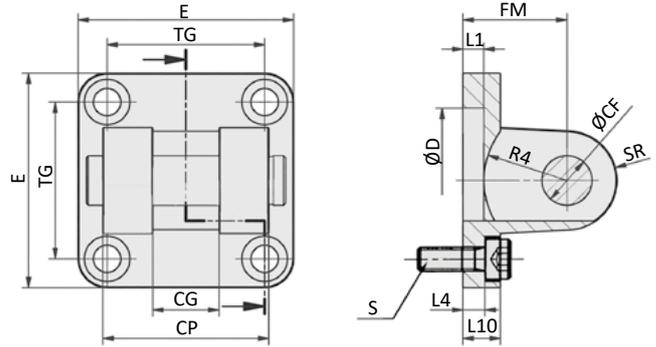
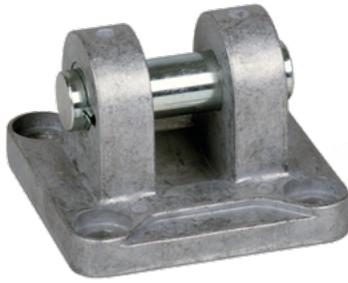
XLB-xxx-12 Swivel mount with spherical bearing



Model-no.:	Ø CX	Ø D	DL	E	EP	EX	L	L1	L3	L4	MS	R1	S	TG
XLB-032-12	10	30	22	45	10,5	14	12	7	-	5,5	16	-	M6 x 20	32,5
XLB-040-12	12	35	25	52	12	16	15	7	-	5,5	18	-	M6 x 20	38
XLB-050-12	16	40	27	65	15	21	15	7	51	6,5	21	19	M8 x 20	46,5
XLB-063-12	16	45	32	75	15	21	20	7	-	6,5	23	-	M8 x 20	56,5
XLB-080-12	20	45	36	95	18	25	20	9	74	10	28	24	M10 x 25	72
XLB-100-12	20	55	41	115	18	25	25	9	-	10	30	-	M10 x 25	89
XLB-125-12	30	60	50	140	25	37	30	9	-	10	40	-	M12 x 25	110*
<i>Tolerances and adjustments</i>	H7	H11	± 0,2			± 0,1				± 0,5				± 0,2 *± 0,3

Materials: Al, bearing steel, bronze bushing; 4 screws in accordance with EN ISO 4762 are included.

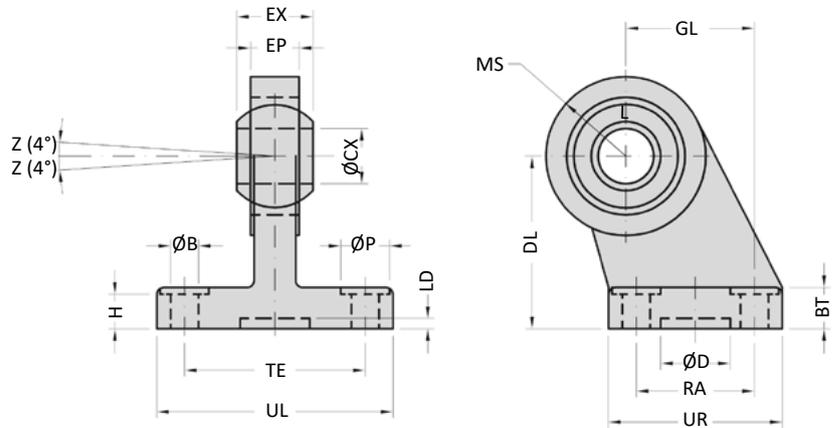
XLB-xxx-14 Clevis mount small with pin



Model-no.:	Ø CF	CG	CP	Ø D	E	FM	L1	L4	L10	R4	S	SR	TG
XLB-032-14	10	14	34	30	45	22	5	5,5	9	17	M6 x 20	10	32,5
XLB-040-14	12	16	40	35	52	25	5	5,5	9	20	M6 x 20	12	38
XLB-050-14	16	21	45	40	65	27	5	6,5	11	22	M8 x 20	14	46,5
XLB-063-14	16	21	51	45	75	32	5	6,5	11	25	M8 x 20	18	56,5
XLB-080-14	20	25	65	45	95	36	5	10	14	30	M10 x 25	20	72
XLB-100-14	20	25	75	55	115	41	5	10	14	32	M10 x 25	22	89
XLB-125-14	30	37	97	60	140	50	7	10	20	42	M12 x 25	25	110*
<i>Tolerances and adjustments</i>	F7	D10	d12	H11		± 0,2		± 0,5					± 0,2 *± 0,3

Materials: Al, bushing steel and PTFE, clevis pin steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included.

XLB-xxx-16 Swivel mount with spherical bearing 90°

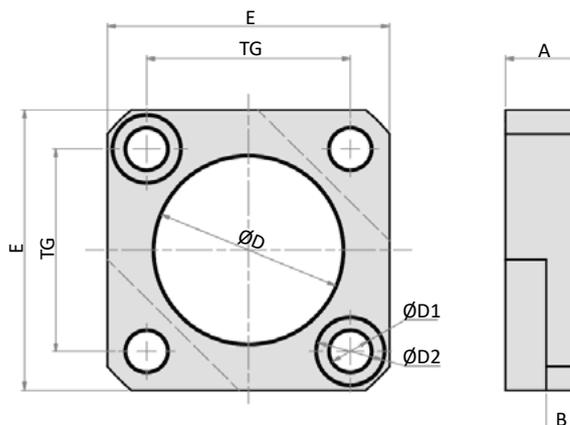


Model-no.:	Ø B	BT	ØCX	ØD	DL	EP	EX	GL	H	LD	MS	ØP	RA	TE	UL	UR
XLB-032-16	6,6	10	10	20	32	10,5	14	21	8,5	3	15	11	18	38	51	31
XLB-040-16	6,6	10	12	20	36	12	16	24	8,5	3	18	11	22	41	54	35
XLB-050-16	9	12	16	20	45	15	21	33	10,5	3	20	15	30	50	65	45
XLB-063-16	9	12	16	20	50	15	21	37	10,5	3	23	15	35	52	67	50
XLB-080-16	11	14	20	20	60	18	25	47	11,5	3	27	18	40	66	86	60
XLB-100-16	11	15	20	20	70	18	25	55	12,5	3	30	18	50	76	96	70
XLB-125-16	13,5	20	30	20	90	25	37	70	17	3	40	20	60	94	124	90
<i>Tolerances and adjustments</i>	H13		H7	H13	JS15	max	0 -0,1	JS15	+0,5 0		max	H13	JS14	JS14	max	max

Materials: steel, bearing steel, bronze bushing

Series SLX Mounting accessories

XLB-xxx-23 Multi-position adapter



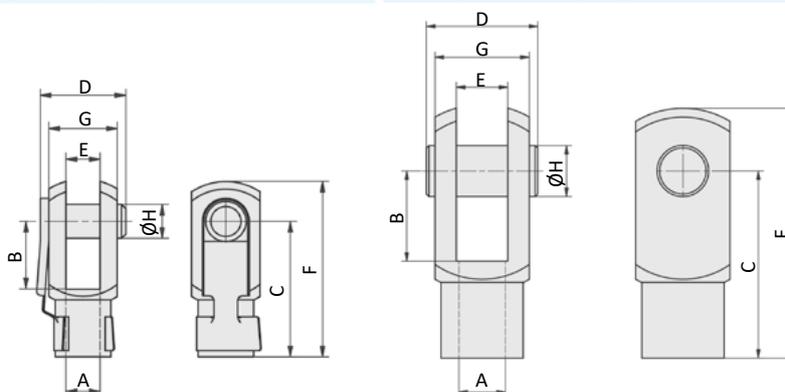
Model-no.:	A	B	Ø D	Ø D1	Ø D2	E	TG
XLB-032-23	12	5,5	30	6,5	10,6	45	32,5
XLB-040-23	12	5,5	35	6,5	10,6	50	38
XLB-050-23	16	7,5	40	8,5	13,5	65	46,5
XLB-063-23	16	7,5	45	8,5	13,5	75	56,5
XLB-080-23	20	9	45	10,5	16,5	90	72
XLB-100-23	20	10,5	55	10,5	16,5	105	89
XLB-125-23	30	15	68	12,5	18,5	130	110

Materials: Al, mounting material are included.

RD-xx, FD-xxx Rod clevis

Spring loaded pin (RD-25, FD-40...80)

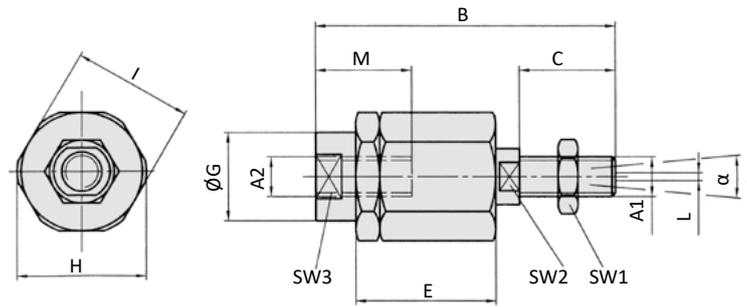
Clevis pin with snap rings (FD-125)



Model-no.:	for cylinder Ø	A	B	C	D	E	F	G	Ø H
RD-25	32	M10 x 1,25	20	40	26	10	52	20	10
FD-40	40	M12 x 1,25	24	48	32	12	62	24	12
FD-63	50, 63	M16 x 1,5	32	64	40	16	83	32	16
FD-80	80, 100	M20 x 1,5	40	80	50	20	105	40	20
FD-125	125	M27 x 2	54	110	65	30	148	55	30

Material: steel, zinc plated

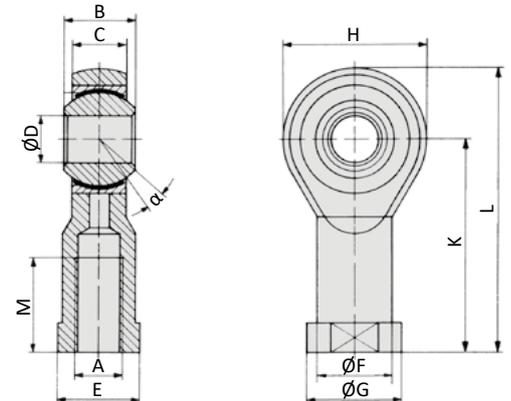
FK-xxx Flexible coupling



Model-no.:	for cylinder Ø	A1, A2	B	C	D	E	Ø G	H	I	L	M	SW1	SW2	SW3	α
FK-32	32	M10 x 1,25	71,5	20	7,5	35	22	32	30	2	22	17	12	19	8°
FK-40	40	M12 x 1,25	75	24	7,5	35	22	32	30	2	22	19	12	19	8°
FK-63	50, 63	M16 x 1,5	104	32	10	53	32	45	41	2	30	24	20	27	6°
FK-80	80, 100	M20 x 1,5	119	40	10	53	32	45	41	2	37	30	20	30	6°
FK-125	125	M27 x 2	147	54	10	60	57	70	65	2	48	41	24	54	8°

Material: steel, zinc plated

RO-xx, FO-xxx Rod eye



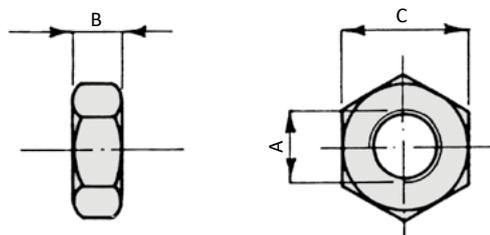
Model-no.:	for cylinder Ø	A	B	C	Ø D	E	Ø F	Ø G	H	K	L	M	α
RO-25	32	M10 x 1,25	14	10,5	10	17	15	19	28	43	57	20	13°
FO-40	40	M12 x 1,25	16	12	12	19	17,5	22	32	50	66	22	13°
FO-63	50, 63	M16 x 1,5	21	15	16	22	22	27	42	64	85	28	15°
FO-80	80, 100	M20 x 1,5	25	18	20	30	27,5	34	50	77	102	33	14°
FO-125	125	M27 x 2	37	25	30	41	40	50	70	110	145	51	17°

Materials: steel, zinc plated, bearing steel, bronze bushing

Series SLX

Mounting accessories

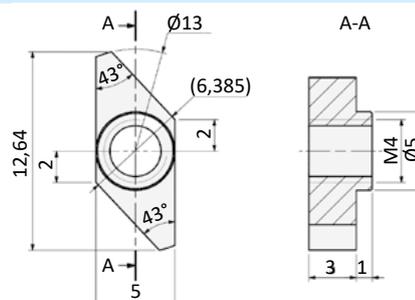
RD-xx, FD-xxx Piston rod nut



Model-no.:	for cylinder Ø	A	B	C
RD-25	32	M10 x 1,25	5	17
FD-40	40	M12 x 1,25	6	19
FD-63	50, 63	M16 x 1,5	8	24
FD-80	80, 100	M20 x 1,5	10	30
FD-125	125	M27 x 2	13,5	41

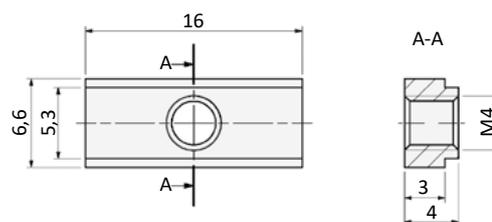
Material: steel, zinc plated

NST-T-4-U Slot nut



Material: steel, zinc plated

NST-T-4-V Slot nut



Material: steel, zinc plated



Piston rod cylinders

Device marking

Piston rod cylinders are marked as follows:

II 2G Ex h IIC T5...T4 Gb X
 II 2D Ex h IIIC T100°C...T135°C Db X
 -20°C T_{amb} +40°C...+60°C

Marking according to DIN EN ISO 80079-36/ -37.

Piston rod cylinders conform to Equipment category 2 and can be used in Zone 1 respectively Zone 21.

Available cylinders

Series	Versions
SLX	SLX, SLXH

Piston rod cylinders according ATEX are marked with following suffix:

-ATEX
-EX
-X



The operating instructions for the cylinder must be taken into account before putting into operation. These are included with each cylinder and are available at www.airtec.de.

Series SLX

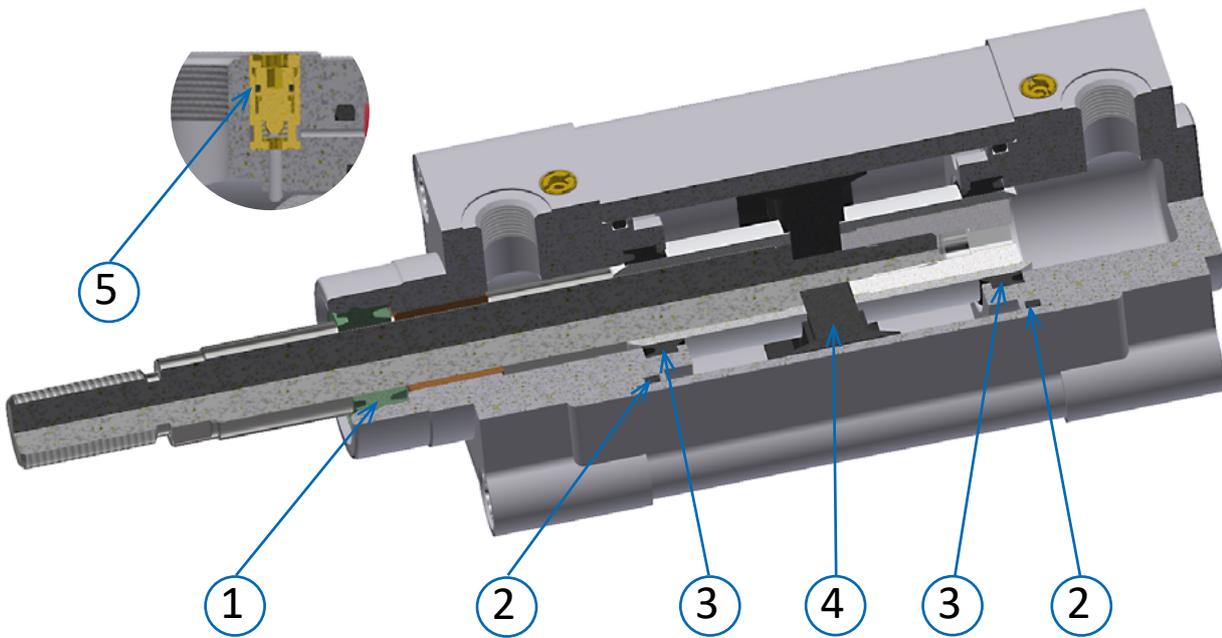
Seal kits

Order code

Series		Versions	
VS-XL	seal kit for series XL	01	standard version
		02	high temperature version
		03	double end piston rod
		04	double end piston rod, high temperature version

Piston Ø	
032	32 mm
040	40 mm
050	50 mm
063	63 mm
080	80 mm
100	100 mm
125	125 mm

Content



Standard version

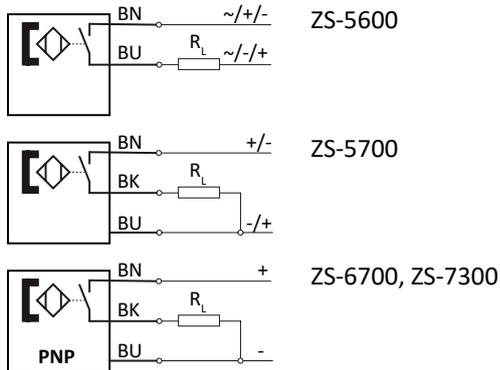
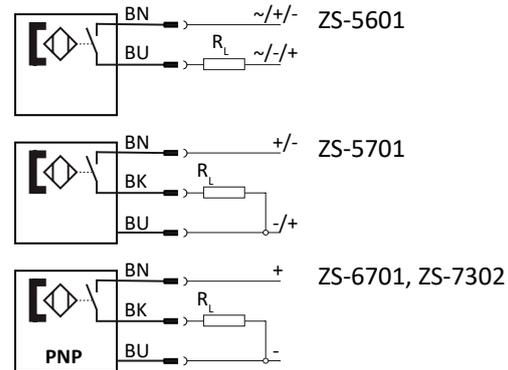
Position	Part	Quantity
1	piston rod seal (PUR)	1*
2	O-ring (NBR)	2
3	cushion seal (PUR)	2
4	piston with magnet (NBR)	1
5	O-ring (NBR)	2
6	grease	1

*2 pieces for version 03

High temperature version

Position	Part	Quantity
1	piston rod seal (FKM) + circlip	1*
2	O-ring (FKM)	2
3	cushion seal (FKM)	2
4	piston (FKM)	1
5	O-ring (FKM)	2
6	grease	1

*2 pieces for version 04

Proximity sensors with cable

Proximity sensors with plug

Technical data

Model-no.:	ZS-5600	ZS-5601	ZS-5700	ZS-5701
Design	2-pole Reed sensor	2-pole Reed sensor	3-pole Reed sensor	3-pole Reed sensor
Contact function	NO	NO	NO	NO
Rated operational voltage	5 ... 240 V AC / DC	5 ... 60 V AC / DC	5 ... 30 V DC	5 ... 30 V DC
Rated operational current I_E	3 ... 100 mA	3 ... 100 mA	≤ 500 mA	≤ 500 mA
Max. voltage drop at I_E	≤ 2.5	≤ 2.5	≤ 0.1	≤ 0.1
Breaking capacity	10 W	10 W	10 W	10 W
Cable length	3 m	0.3 m with M8 connection	5 m	0.3 m with M8 connection
Temperature range	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C
Protection	IP 67	IP 67	IP 67	IP 67
Switching status indication	LED red	LED red	LED yellow	LED yellow
Model-no.:	ZS-6700	ZS-6701	ZS-7300	ZS-7302
Design	3-pole inductive	3-pole inductive	3-pole inductive	3-pole inductive
Contact function	NO	NO	NO	NO
Output	PNP	PNP	PNP	PNP
Rated operational voltage	5 ... 30 V DC	5 ... 30 V DC	10 ... 30 V DC	10 ... 30 V DC
Rated operational current I_E	≤ 200 mA	≤ 200 mA	≤ 100 mA	≤ 100 mA
Max. voltage drop at I_E	≤ 1.0	≤ 1.0	≤ 2.5	≤ 2.5
Breaking capacity	6 W	6 W	3 W	3 W
Cable length	3 m	0.3 m with M8 connection	6 m	0.3 m with M12 connection
Temperature range	-10 ... +70°C	-10 ... +70°C	-20 ... +60°C	-20 ... +60°C
Protection	IP 67	IP 67	IP 67	IP 67
Switching status indication	LED green	LED green	LED yellow	LED yellow
	-	-	II 3G Ex nA T4 II 3D Ex tD A22 IP67 T 125°C	II 3D Ex tc IIIC T125°C Dc X

Series ZS

Proximity sensors

Cable with bushing for proximity sensors

Model-no.:	KA-30	KA-50	KA-51	KA-100	KA-101
Connection	M8, snap-in				
Version	straight	straight	elbow 90°	straight	elbow 90°
Cable length	3 m	5 m	5 m	10 m	10 m

Mounting

The sensors are mounted at the groove of the cylinder profile. It is fixed by turning the fixing screw at the sensor clockwise.