

Actuators

Cartridge Cylinders

Ø 6-16 mm



CA - CAF Series

Pg. 15.3

Mini Cylinders ISO 6432

Ø 8-25 mm



Mini Series

Pg. 15.5

Mini Stainless Steel ISO 6432

Ø 16-25 mm



Mini Stainless Steel Series

Pg. 15.14

Limited Space

Ø 32-63 mm



A95 Series

Pg. 15.17

Compact Cylinders

Ø 12-100 mm



Q Series

Pg. 15.24

ISO 15552 Cylinders

Ø 32-125 mm



L Series

Pg. 15.37

ISO 6431 Cylinders

Ø 160-320 mm



E Series

Pg. 15.44

ISO 15552 Cylinders

Ø 32-125 mm



X Series

Pg. 15.46

Stainless Steel ISO 15552

Ø 32-125 mm



V Series

Pg. 15.51

Twin Rod Cylinders

Ø 32-100 mm



NHA Series

Pg. 15.54

Compact Cylinders

Ø 20-100 mm



W Series

Pg. 15.58

Cylinder Accessories

ISO 6431 - ISO 15552 - ISO 21287



Pg. 15.66

Guided Units

ISO 15552 - Ø 12-25 mm
ISO 6431 VDMA - Ø 32-100 mm



Pg. 15.76

Rodless Cylinders

Ø 16-63 mm



R Series

Pg. 15.85

Rotary Actuators

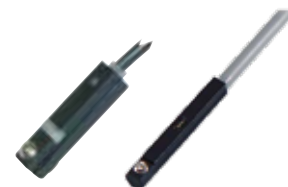
Ø 32-100 mm



XR Series

Pg. 15.96

Magnetic Position Sensing Switches



Sensor

Pg. 15.99

A collection of various AIGNEP pneumatic cylinders and actuators, including single-acting and double-acting models, arranged on a dark surface. One cylinder in the foreground has a label with the AIGNEP logo and technical specifications.

SERIES X - ISO 15552



TECHNICAL CHARACTERISTICS



Component Parts and Materials

- 1 Chrome plated C40 steel piston rod
- 2 Zinc plated steel jam nut
- 3 Polyurethane rod seal or FKM
- 4 Aluminum end cap
- 5 Polyurethane cushion seals or FKM
- 6 Zinc plated steel cushion adjustment screw
- 7 Aluminum end cap
- 8 Anodized aluminum body
- 9 Zinc plated steel screws
- 10 Sintered bronze rod bearing
- 11 Polyurethane piston seals or FKM
- 12 Plastroferrite magnet
- 13 Aluminum piston
- 14 Support magnet
- 15 Aluminum piston
- 16 NBR o-ring seals or FKM
- 17 NBR o-ring seals or FKM



Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

PED
2014/68/UE

SILICON
FREE

ATEX
2014/34/UE


Pressures

1 bar (0.1 MPa) / 14.5 psi
10 bar (0.7 MPa) / 145 psi



Temperatures

0 °C / 32 °F (-20 °C / -4 °F with dry air)
+ 80 °C / 176 °F



Media

Filtered and lubricated or
non-lubricated compressed air.



Functions

Single acting magnetic or non-magnetic.
Double acting single or double end rod,
magnetic or non-magnetic, cushioned or
non-cushioned and tandem.



Bores

from 32 to 125 mm



Standard Strokes

from 25 to 1000 mm
Strokes on demand: up to 2700 mm

FORCES, SPRING LOADS AND AIR CONSUMPTION

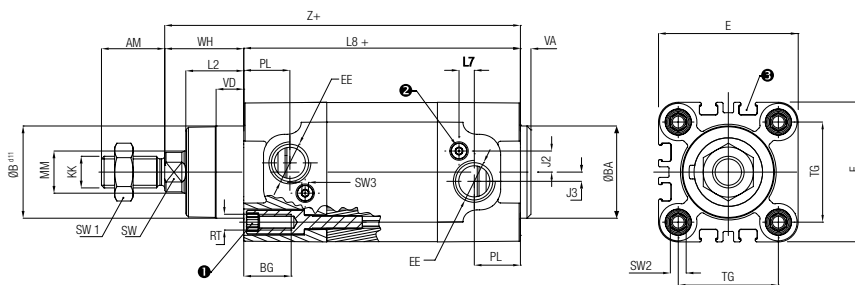
See Pg. 15.34-15.35

Series		Ø (mm)	Stroke (mm)		Special version
X H		0 3 2	0 0 2 5		V S
▲ XB	Single acting - magnetic	032	0025	0320	VS Only Rod Seals in FKM
● XH	Double acting - cushioned - magnetic	040	0050	0350	IS Stainless steel rod
● XL	Double acting - cushioned - magnetic with double rod end	050	0075	0400	V All FKM seals
		063	0080	0450	R Metal Scraper
		080	0100	0500	
		100	0125	0600	
		125	0150	0700	
			0160	0800	
			0200	0900	
			0250	1000	
			0300		
			Intermediate or longer strokes are available upon request. Maximum stroke 2700 mm.		

Ø (mm)	Stroke (mm)																				
	25	50	75	80	100	125	150	160	200	250	300	320	350	400	450	500	600	700	800	900	1000
32	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
40	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
50	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
63	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
80	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
100	▲●	▲●	▲●	▲●	▲●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
125	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

XB

SINGLE ACTING - MAGNETIC



+ = Add Stroke

Ø	ØB d11	VD	VA	L2	WH	Ømm	SW	KK	AM	SW1	ZJ	L8	BG	RT	SW2	E	TG	EE	PL	J3
32	30	10	4	20	26	12	10	M10X1.25	22	17	145	119	18	M6	6	46	32.5	G1/8	18	4
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	160	130	18	M6	6	54	38	G1/4	17.5	3.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	168	131	20	M8	8	64	46.5	G1/4	20.5	7
63	45	15	4	29	37	20	17	M16X1.5	32	22	183	146	20	M8	8	74	56.5	G3/8	22	8
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	199	153	19	M10	6	94	72	G3/8	22	11
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	214.5	163	19	M10	6	111	89	G1/2	26	9

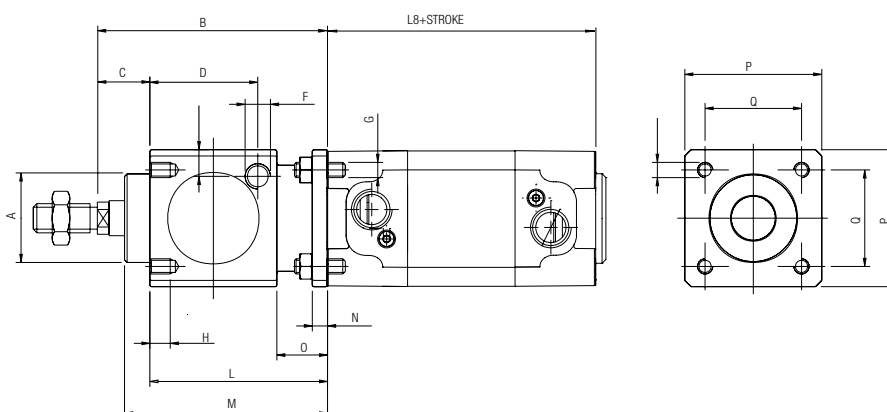
- KEY
- ① = Socket head screw with female thread for mounting attachments.
- ② = Adjustment screw for adjustable end-position cushioning.
- ③ = Slot for proximity sensor.

SERIES X - WITH PISTON LOCK ISO 15552

XHB

DOUBLE ACTING - CUSHIONED - MAGNETIC WITH PISTON ROD LOCK

XLB: AVAILABLE DOUBLE ROD END



Ø	A	B	C	D	E	F	G	H	L	M	N	O	P	Q	L8
32	30	86	26	33.25	9	1/8"G	M6	8	60	67.5	6	20	47	32.5	94
40	34.5	100	30	42.5	9	1/8"G	M6	8	70	80	6	20	54	38	105
50	40	127	37	58	12.5	1/8"G	M8	12	90	100	8	24	65	46.5	106
63	45	127	37	59	17.5	1/8"G	M8	12	90	100	8	24	75	56.5	121
80	45	156	46	69	17.5	1/4"G	M10	16	110	120	12	32	95	72	128
100	55	161	51	69	20	1/4"G	M10	16	110	120	12	32	114	89	138
125	60	205	65	84.5	19	1/4"G	M12	20	140	156	20	45	138	110	160



Pressures

Without Pressures:
LOCKED

Cylinder Supply Pressure

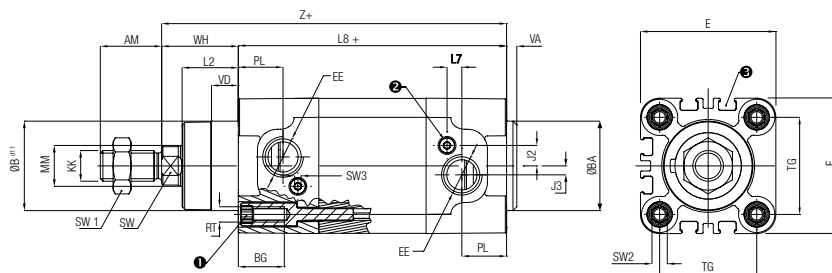
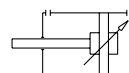
0 ÷ 7 bar (0 ÷ 0.7 Mpa)
7 ÷ 10 bar (0.7 ÷ 1 Mpa)

Minimum release pressure

2.5 bar (0.25 Mpa)
3 bar (0.3 Mpa)

XH

DOUBLE ACTING - CUSHIONED - MAGNETIC

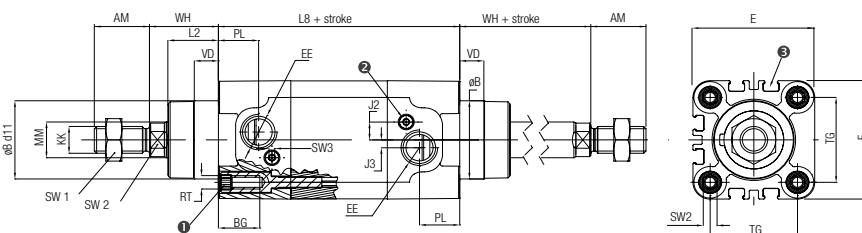
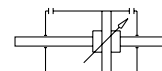


+ = Add Stroke

Ø	ØB d11	VD	VA	L2	WH	Ømm	SW	KK	AM	SW1	ZJ	L8	BG	RT	SW2	E	TG	EE	PL	J3	J2	L7	SW3
32	30	10	4	20	26	12	10	M10X1.25	22	17	120	94	18	M6	6	46	32.5	G1/8	18	4	6.5	2	2.5
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	135	105	18	M6	6	54	38	G1/4	17.5	3.5	8	5.8	2.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	143	106	20	M8	8	64	46.5	G1/4	20.5	7	10	2	4
63	45	15	4	29	37	20	17	M16X1.5	32	22	158	121	20	M8	8	74	56.5	G3/8	22	11	8.5	4	4
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	174	128	19	M10	6	94	72	G3/8	22	11	8.5	4	4
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	189.5	138	19	M10	6	111	89	G1/2	26	9	12.5	5	4
125	60	20	6	50	65	32	27	M27X2	54	41	225	160	21	M12	8	135	110	G1/2	30	9	12.5	2.5	4

XL

DOUBLE ACTING - CUSHIONED - MAGNETIC WITH DOUBLE ROD END



+ = Add Stroke

Ø	ØB d11	VD	VA	L2	WH	Ømm	SW	KK	AM	SW1	ZJ	L8	BG	RT	SW2	E	TG	EE	PL	J3	J2	L7	SW3
32	30	10	4	20	26	12	10	M10X1.25	22	17	120	94	18	M6	6	46	32.5	G1/8	18	4	6.5	2	2.5
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	135	105	18	M6	6	54	38	G1/4	17.5	3.5	8	5.8	2.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	143	106	20	M8	8	64	46.5	G1/4	20.5	7	10	2	4
63	45	15	4	29	37	20	17	M16X1.5	32	22	158	121	20	M8	8	74	56.5	G3/8	22	11	8.5	4	4
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	174	128	19	M10	6	94	72	G3/8	22	11	8.5	4	4
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	189.5	138	19	M10	6	111	89	G1/2	26	9	12.5	5	4
125	60	20	6	50	65	32	27	M27X2	54	41	225	160	21	M12	8	135	110	G1/2	30	9	12.5	2.5	4

KEY

① = Socket head screw with female thread for mounting attachments.

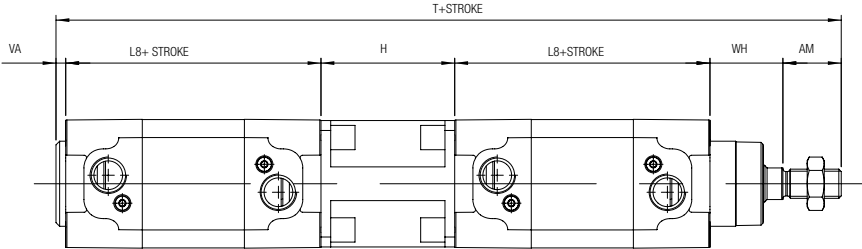
② = Adjustment screw for adjustable end-position cushioning.

③ = Slot for proximity sensor.

SERIES X - TANDEM ISO 15552

XHT

TANDEM DOUBLE ACTING - MAGNETIC



Ø	VA	WH	AM	LB	H	T
32	4	26	22	94	55	295
40	4	30	24	105	55	323
50	4	37	32	106	68	353
63	4	37	32	121	68	383
80	4	46	40	128	92	438
100	4	51.5	40	138	92	463.5
125	6	65	54	160	120	565

For further information please contact our tecnichal departement.