

AI

Miniature limit switches

Univer limit switches, mounted on sub-bases with threaded connections or with quick couplings, may be combined with different types of manual operators for panel mounting complying with the various needs of the plant.

Available ATEX version upon request

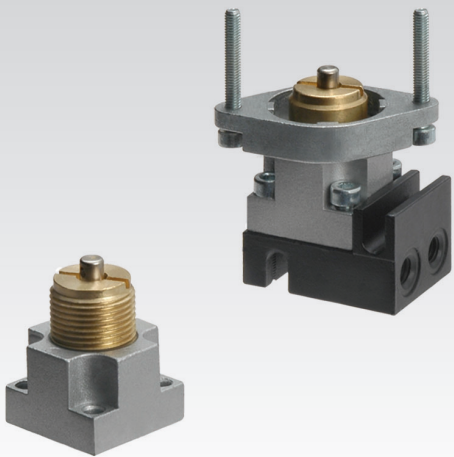
CE Ex II 2Gc IIC T5 II 2Dc T100°C

TECHNICAL CHARACTERISTICS

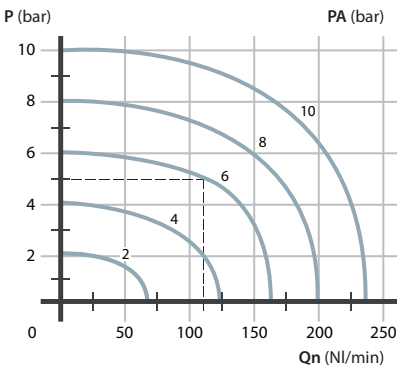
Ambient temperature	-10 ÷ +90 °C
Fluid temperature	max +50 °C
Fluid	50 µm filtered air, with or without lubrication
Commutation system	poppet
Ways/Positions	2/2 NC, 3/2 NC, 2/2 NO, 3/2 NO
Pressure	max 10 bar
Control	manual, mechanical
Return	mechanical spring
Connections	interface for sub-base
Nominal Ø	2,3 mm (1,5 sensible type)
Nominal flow rate (NI/min)	110 NI/min (55 sensible type)

CONSTRUCTIVE CHARACTERISTICS

Valve body	zamak
Seals	nitrile rubber
Sub-base	zamak
Spool	nickel-plated brass



Flow rate characteristics



P = Working pressure
PA = Supply pressure
Qn = Flow rate

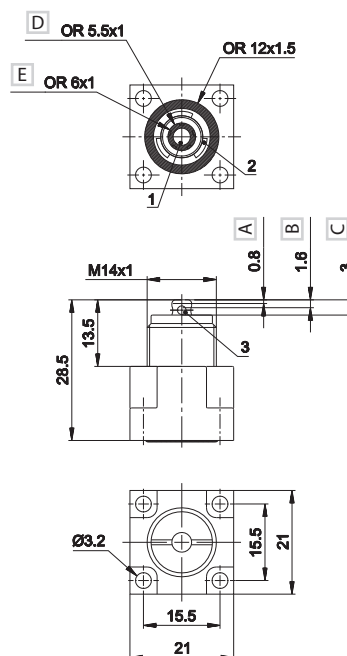
Mechanical push button - spring



- ☐ A Pre-stroke
- ☐ B Max opening
- ☐ C Total stroke
- ☐ D 3/2 NC - 3/2 NO - 2/2 NC
- ☐ E 2/2 NO

Symbol	Ø mm	Flow rate Nl/min	Force N	Weight Kg	Part no.
	2,3 1,5	110 55	15 4	0,040 0,040	AI-3500 AI-3500S (a)
	2,3 1,3	110 45	15 4	0,040 0,040	AI-3501 AI-3501S(a)
	2,3	110	15	0,040	AI-3502
	2,3	110	15	0,040	AI-3503

(a) = sensible (b) = 2/2 NO version available upon request



1 = Supply port
2 = Use
3 = Exhaust

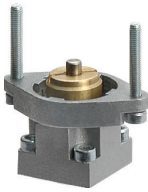
PNEUMATIC AND MECHANICAL ACTUATORS

MANUAL PUSH

	Pneumatic operator	AI-3550			Recessed button	■ BLACK ■ RED ■ GREEN	AI-3511 AI-3512 AI-3513	
	Amplified pneumatic operator	AI-3551			Head button	■ RED ■ BLACK	AI-3514 AI-3516	
	Roller operator 1 position	AI-3560			Button	■ GREEN ■ RED ■ BLACK	AI-3515 AI-3517 AI-3519	
	Ball-push operator 1 position	AI-3562			Accident prevention rotating selector	■ BLACK	AI-3520	
	Operator with omni-directional antenna 1 position	AI-3563			Rotating lever selector	■ BLACK	AI-3522	
	Roller lever operator 1 position	AI-3570			Lever operator	■ BLACK	AI-3523	
	Articulated roller operator 1 position	AI-3571			Omni-directional operator	■ BLACK	AI-3524	
	Key operator 1 position	AI-3572			Push-pull operator	■ BLACK	AI-3525	

For actuators dimensions see section "Accessories>Actuators"

Mechanical push button for panel mounting - spring



A 3/2 NC - 3/2 NO - 2/2 NC
B 2/2 NO

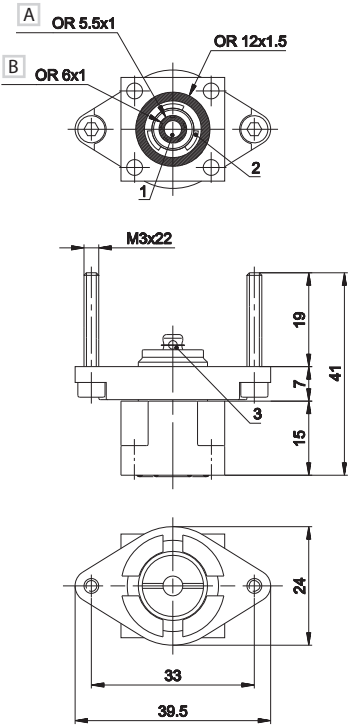
	Symbol	Ø mm	Flow rate NI/min	Force N	Weight Kg	Part no.
3/2 NC		2,3	110	15	0,055	AI-3500Q
		1,5	55	4	0,055	AI-3500SQ (a)
3/2 NO		2,3	110	15	0,055	AI-3501Q
		1,3	45	4	0,055	AI-3501SQ (a)
2/2 NC		2,3	110	15	0,055	AI-3502Q
2/2 NO (b)		2,3	110	15	0,055	AI-3503Q

(a) = sensible (b) = upon request only 2/2 NO version

MANUAL PUSH

	Recessed button	■BLACK ■RED ■GREEN	AI-3511Q AI-3512Q AI-3513Q
	Head button	■RED ■BLACK ■RED ■BLACK	AI-3514Q AI-3516Q AI-3514QD AI-3516QD
	Button	■GREEN ■RED ■BLACK	AI-3515Q AI-3517Q AI-3519Q
	Accident prevention rotating selector	■BLACK ■BLACK	AI-3520Q AI-3521Q
	Rotating lever selector	■BLACK ■BLACK	AI-3522Q AI-3523Q
	Lever operator	■BLACK	AI-3524Q
	Omni-directional operator	■BLACK	AI-3525Q
	Push-pull operator	■BLACK	AI-3526Q

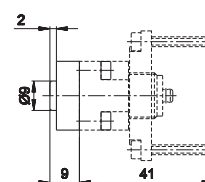
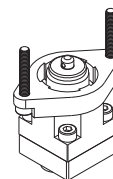
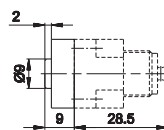
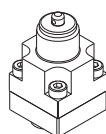
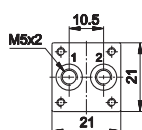
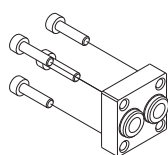
For actuators dimensions see section "Accessories>Actuators"



AI-3610

AI-3610 + AI-3500

AI-3610 + AI-3500Q

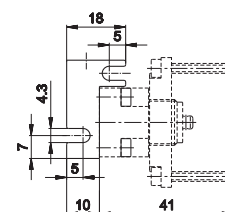
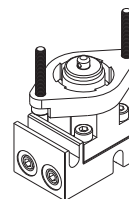
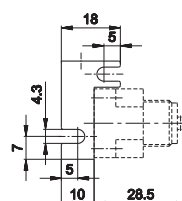
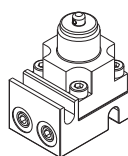
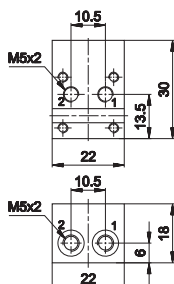
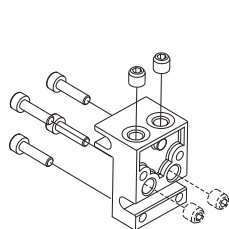


Sub-base with M5 threaded connections
weight: 0,020 Kg

AI-3612

AI-3612 + AI-3500

AI-3612 + AI-3500Q



Sub-base with M5 side or dorsal threaded connections
weight: 0,020 Kg

Part numbers include M3x12 fixing screws (4 pcs) and M5x5 dowel pins to close the unused ways. The M5x5 dowel pins must be mounted with loctite (243 type). Be sure that loctite does not obstruct the ports or sink inside the valve. The dowel pins must be screwed till reaching the base surface. Avoid screwing them completely.