



Miniature limit switches

- Miniature limit switches, mounted on threaded bases or fitted with quick-connect fittings, can be paired with various manual control panel actuators, meeting a wide range of system requirements.



Fluid	50 µm filtered air, with or without lubrication
Temperature ambient	-10 ÷ +90°C
Temperature fluid	max +50°C
Commutation system	poppet
Ways/Position	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 bore (mm)	2,3 mm (1,5 sensible type)
Nominal flow rate (NL/min)	110 NL/min (55 sensible type)
Valve body	zamak
Seals	NBR
Sub-base	zamak
Spool	nickel-plated brass

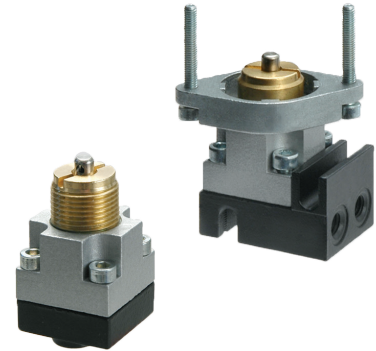


Reference standard

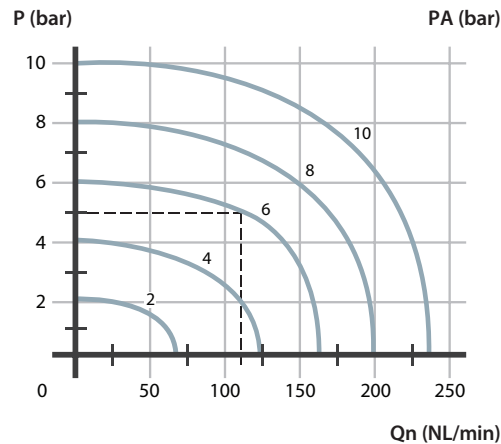
II 2G Ex h IICT5 Gb



II 2D Ex h IICT100°C Db



FLOW RATE CHARACTERISTICS

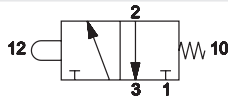
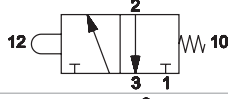
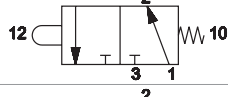
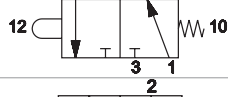
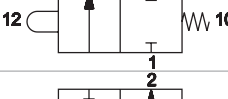


P (bar) = Working pressure

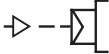
PA (bar) = Supply pressure

Qn (NL/min) = Flow rate

MECHANICAL PUSH BUTTON - SPRING

	Code	Way	Return	Ø	Flow rate NI/min	Force N	Weight Kg	Note	
	AI-3500	3/2 NC	mechanical spring	2,3	110	15	0,040	-	
	AI-3500S	3/2 NC	mechanical spring	1,5	55	4	0,040	Sensible	
	AI-3501	3/2 NO	mechanical spring	2,3	110	15	0,040	-	
	AI-3501S	3/2 NO	mechanical spring	1,3	45	4	0,040	Sensible	
	AI-3502	2/2 NC	mechanical spring	2,3	110	15	0,040	-	
	AI-3503	2/2 NO	mechanical spring	2,3	110	15	0,040	On request	

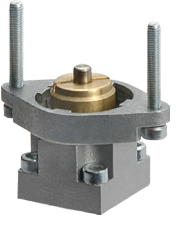
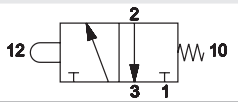
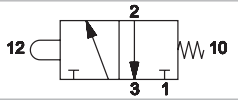
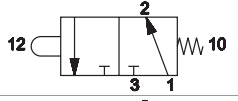
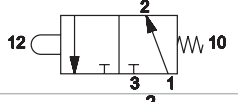
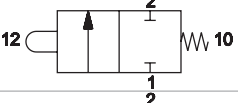
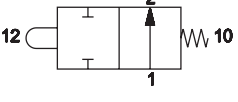
PNEUMATIC AND MECHANICAL ACTUATORS

	AI-3550	Pneumatic operator	
	AI-3551	Amplified pneumatic operator	
	AI-3560	Roller operator 1 position	
	AI-3562	Ball-push operator 1 position	
	AI-3563	Operator with omni-directional antenna 1 position	
	AI-3570	Roller lever operator 1 position	
	AI-3571	Articulated roller operator 1 position	
	AI-3572	Key operator 1 position	

MANUAL ACTUATORS

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

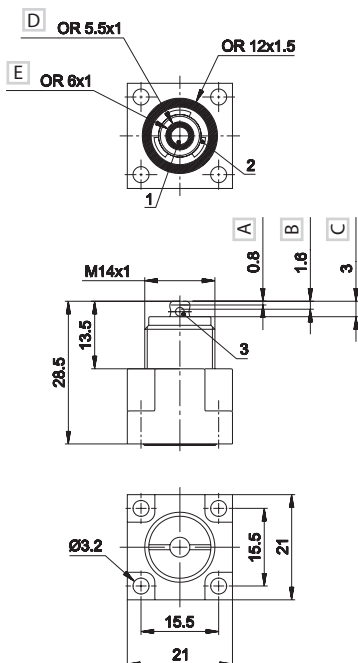
MECHANICAL PUSH BUTTON FOR PANEL MOUNTING - SPRING

	Code	Way	Return	Ø	Flow rate NI/min	Force N	Weight Kg	Note	
	AI-3500Q	3/2 NC	mechanical spring	2,3	110	15	0,055	-	
	AI-3500SQ	3/2 NC	mechanical spring	1,5	55	4	0,055	Sensibile	
	AI-3501Q	3/2 NO	mechanical spring	2,3	110	15	0,055	-	
	AI-3501SQ	3/2 NO	mechanical spring	1,3	45	4	0,055	Sensibile	
	AI-3502Q	2/2 NC	mechanical spring	2,3	110	15	0,055	-	
	AI-3503Q	2/2 NO	mechanical spring	2,3	110	15	0,055	A richiesta	

MANUAL ACTUATORS

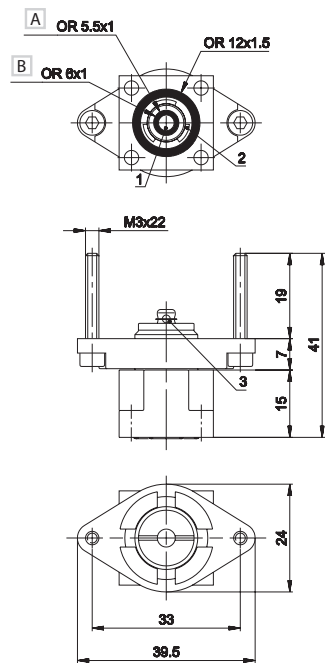
	AI-3511Q	■ BLACK	Recessed button	
	AI-3512Q	■ RED		
	AI-3513Q	■ GREEN		
	AI-3514Q	■ RED	Head button	
	AI-3516Q	■ BLACK		
	AI-3514QD	■ RED		
	AI-3516QD	■ BLACK		
	AI-3515Q	■ GREEN	Button	
	AI-3517Q	■ RED		
	AI-3519Q	■ BLACK		
	AI-3520Q	■ BLACK	Accident prevention rotating selector	
	AI-3521Q	■ BLACK	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

MECHANICAL PUSH BUTTON - SPRING



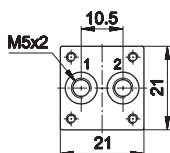
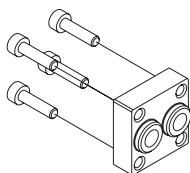
- 1 Supply port
- 2 Use
- 3 Exhaust
- A Pre-stroke
- B Max opening
- C Total stroke
- D 3/2 NC-3/2 NO-2/2 NC
- E 2/2 NO

MECHANICAL PUSH BUTTON FOR PANEL MOUNTING - SPRING



- 1 Supply port
- 2 Use
- 3 Exhaust
- A 3/2 NC-3/2 NO-2/2 NC
- B 2/2 NO

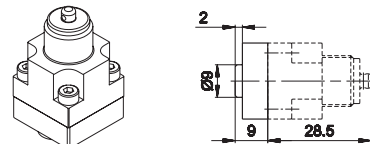
SUB-BASE WITH BOTTOM CONNECTIONS M5



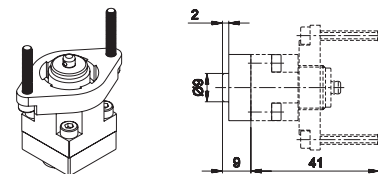
AI-3610

Sub-bases are supplied with M3x12 fixing screws (4 pcs) and M5x5 grub screws (2pcs) to close the unused ways.

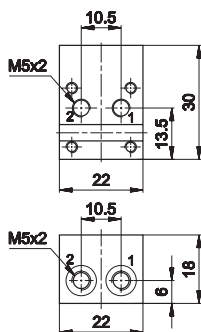
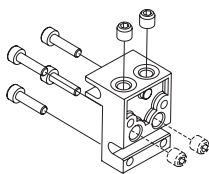
AI-3610 + AI-3500



AI-3610 + AI-3500Q



SUB-BASE WITH SIDE OR BOTTOM CONNECTIONS M5

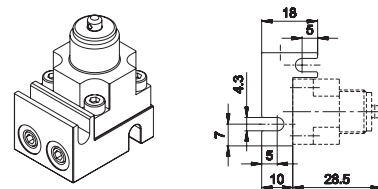


AI-3612

Grub screws must be fixed with sealing loctite (243 type), being sure that loctite does not obstruct the ports or sink inside the valve.

Grub screws must be screwed until reaching the base surface. Avoid screwing them completely.

AI-3612 + AI-3500



AI-3612 + AI-3500Q

