Series MX lockable isolation 3/2-way valves

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1 Modular

Manual, electro-pneumatic, servo-pilot and pneumatic control

Automation



- » Standard tamperproof lock-out (manual valve)
- » One/more locks for the lockout feature (manual valve)
- » Actuation at 24 V, 110 V or 230 V
- » Exhaust in atmosphere

Manual isolation valves are ideal to allow an easy access to the FRL group. The system is depressurized with the de-activation of the valve.

Electropneumatic isolation valves: ideal where manual access is difficult, they allow a maximum positioning flexibility and are designed to pressurize or depressurize pneumatic systems. The builtin manual override guarantees security in case of an emergency. The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs.

A special configurator, available on Camozzi website at http://catalogue. camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

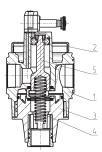
GENERAL DATA	
Construction	modular, compact, spool-type
Materials	see TABLE OF MATERIALS on the following page
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Operating pressure	Manual valve: -0,8 bar ÷ 10 bar Electro-pneumatic valve: 2 bar ÷ 10 bar Servopilot or pneumatic valve: -0,8 bar ÷ 10 bar (with pilot 3.5 ÷ 10 bar)
Nominal flow	see FLOW DIAGRAMS on the following pages
Nominal exhaust flow at 6 bar with $\Delta p = 1$ bar	MX2: 6000 Nl/min MX3: 9200 Nl/min
Fluid	compressed air

CODING EXAMPLE

MX	2 -	3/8	-	V	01	-	LH
МХ	SERIES						
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1						
3/8	PORT: 3/8 = 63/8 1/2 = 61/2 3/4 = 63/4 1 = 61						
V	3/2-WAY VALVE						
01	DESIGN TYPE: 01 = lockable manual control 16 = electro-pneumatic control 17 = servo-pilot control 36 = pneumatic control						
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left						

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

Lockable isolation 3/2-way valves Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Valve holder plug	Polyacetal
4 = Lower spring	Zinc-plated steel
5 = Spool	Stainless steel (MXV16 - V17 - V36) Aluminium (MXV01)
Seals	NBR

NOMINAL FLOW DIAGRAM FOR VALVES Mod. MX...V01

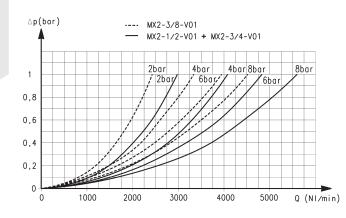


Diagram for lockable manual control valves MX2

Δp = Pressure drop (bar) Q = Flow (Nl/min)

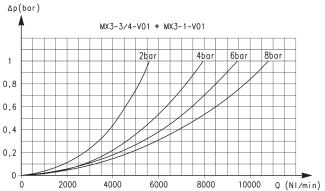


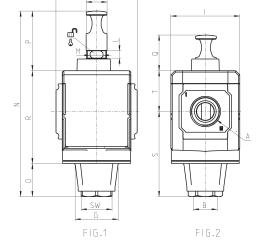
Diagram for lockable manual control valves MX3

 Δp = Pressure drop Q = Flow

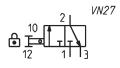
Lockable manual valves Series MX - dimensions



Fig. 1 = closed valve Fig. 2 = open valve



VN27 = Lockable bistable manual valve 3/2



Mod.	А	В	C	F	G	Ι	L	М	Ν	0	Р	Q	R	S	SW	Т	Weight (Kg)
MX2-3/8-V01	G3/8	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX2-1/2-V01	G 1/2	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX2-3/4-V01	G3/4	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX3-3/4-V01	G3/4	G3/4	89,5	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5	0.9
MX3-1-V01	G1	G3/4	89,5	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5	0.9

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Automation

SERIES MX 3/2-WAY ISOLATION VALVES



NOMINAL FLOW DIAGRAMS FOR VALVES Mod. MX...V16

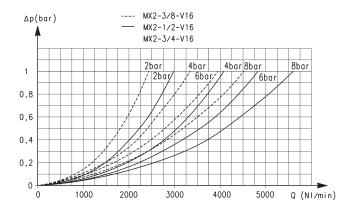


Diagram for electro-pneumatic control valves MX2

Δp = Pressure drop (bar) Q = Flow (Nl/min)

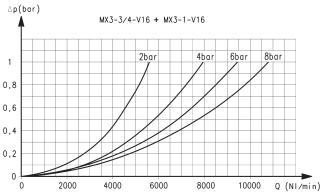


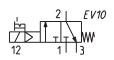
Diagram for electro-pneumatic control valves MX3

Δp = Pressure drop (bar) Q = Flow (Nl/min)

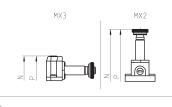
Series MX electro-pneumatically operated valves - dimensions

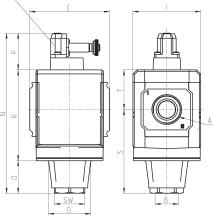


EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override



Mod.	А	В	С	G	I	Ν	0	Р	R	S	SW	Т	Weight (Kg)
MX2-3/8-V16	G3/8	G1/2	70	34.5	68	171	13	70	88	63.5	34	37.5	0.5
MX2-1/2-V16	G1/2	G1/2	70	34.5	68	171	13	70	88	63.5	34	37.5	0.5
MX2-3/4-V16	G3/4	G1/2	70	34.5	68	171	13	70	88	63.5	34	37.5	0.5
MX3-3/4-V16	G3/4	G3/4	89.5	48	76	180.5	37	41.5	102	94.5	34	44.5	0.9
MX3-1-V16	G1	G3/4	89.5	48	76	180.5	37	41.5	102	94.5	34	44.5	0.9



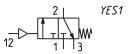


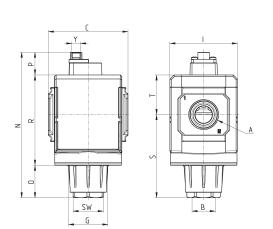
SERIES MX 3/2-WAY ISOLATION VALVES

Series MX pneumatically operated valves - dimensions



YES1 = pneumatically operated valve, 3/2, monostable, mechanical spring





Mod.	А	В	C	G	Ι	Ν	0	Р	R	S	SW	Т	Y (pilot supply)	Weight (Kg)
MX2-3/8-V36	G3/8	G1/2	70	34.5	68	122	13	21	88	63.5	34	37.5	G1/8	0.5
MX2-1/2-V36	G1/2	G1/2	70	34.5	68	122	13	21	88	63.5	34	37.5	G1/8	0.5
MX2-3/4-V36	G3/4	G1/2	70	34.5	68	122	13	21	88	63.5	34	37.5	G1/8	0.5
MX3-3/4-V36	G3/4	G3/4	89.5	48	76	164	37	25.5	102	94.5	34	44.5	G1/8	0.9
MX3-1-V36	G1	G3/4	89.5	48	76	164	37	25.5	102	94.5	34	44.5	G1/8	0.9



SERIES MX 3/2-WAY ISOLATION VALVES

FLOW DIAGRAM for valves Mod. MX...V17

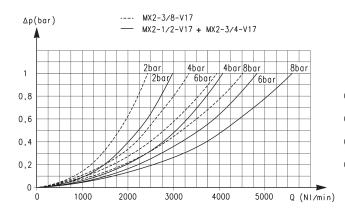


Diagram for servo-pilot control valves MX2

Δp = Pressure drop (bar) Q = Flow (Nl/min)

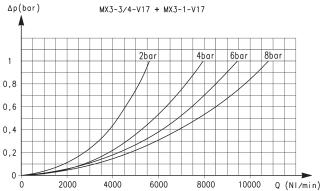


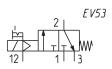
Diagram for servo-pilot control valves MX3

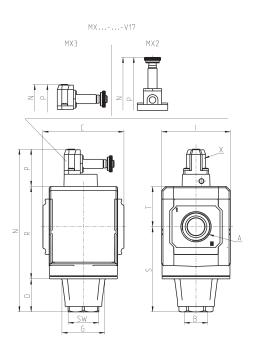
Δp = Pressure drop (bar) Q = Flow (Nl/min)

Series MX servo-pilot valves - dimensions



EV53 = solenoid valve, 3/2, monostable, solenoid pilot with separate air supply and bistable manual override





Mod.	А	В	С	G	I	Ν	0	Р	R	S	SW	Т	Х	Weight (Kg)
MX2-3/8-V17	G3/8	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX2-1/2-V17	G1/2	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX2-3/4-V17	G3/4	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX3-3/4-V17	G3/4	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	M5	0.9
MX3-1-V17	G1	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	M5	0.9

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