

# Series MX-PRO proportional pressure regulator and proportional flow valve

New versions

Regulator and valve ports (standard and Manifold): G1/2 Regulator: with built-in pressure gauge or G1/8 threaded ports Valve: without pressure gauge









Series MX-PRO electronic proportional pressure regulator is the result of combining advanced technology of Series K8P electronic proportional micro regulator, with reliability and high performance of Series MX2 modular regulators. This new regulator ensures high precision in pressure regulation, high flow rate and low consumption. Moreover, it can take the most of Series MX ease of assembly to provide particularly compact Manifolds.

- » High precision
- » Low electric consumption
- » High exhaust flow
- » Modular with Series MX
- » MANIFOLD and external servo pilot supply versions available
- » Suitable for use with oxygen



# **GENERAL DATA**

	PROPORTIONAL PRESSURE REGULATOR	PROPORTIONAL FLOW VALVE
Construction	modular, compact, diaphragm type	modular, piston type
Materials	see material tables on the following pages	see material tables on the following pages
Ports	G1/2	G1/2
Mounting	vertical in-line, wall-mounting (by means of clamps)	vertical in-line, wall-mounting (by means of clamps)
Working pressure	0°C ÷ 50°C	0°C ÷ 50°C
Max inlet pressure	11 bar (10 bar), 4 bar (3 bar), 1.5 bar (1 bar), 8 bar (7 bar)	6 bar
Regulated pressure	0.5 ÷ 10 bar, 0.15 ÷ 3 bar, 0.05 ÷ 1 bar, 0.35 ÷ 7	-
Max servo-pilot pressure	4 bar (3 bar), 11 bar (10 bar), 1.5 bar (1 bar), 8 bar (7 bar)	4 bar (essential for the proper functioning)
Overpressure exhaust	with Relieving (standard) or without Relieving	NO
Nominal flow	see flow diagrams on the following pages	see flow diagrams on the following pages
Air specifications	filtered compressed air, non lubricated, class 7.4.4 according to ISO 8573.1 standard. If lubrication is necessary, please use only oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be 7.4.4 according to ISO 8573.1 standard.	filtered compressed air, non lubricated, class 7.4.4 according to ISO 8573.1 standard. If lubrication is necessary, please use only oils with maximum viscosity of 32 Cst and the version with external servo-pilot supply. The servo-pilot supply air quality class must be 7.4.4 according to ISO 8573.1 standard.
Pressure gauge	with built-in pressure gauge (standard) with G1/8 port	without pressure gauge
Analogical input	0-10 V DC Ripple ≤ 0.2%; 4 – 20 mA	0-10 V DC Ripple ≤ 0.2%; 4 – 20 mA
Analogical output	0.5 - 9.5 V DC [ Feedback ]	not relevant
Electrical supply	24 V DC ±10%	24 V DC ±10%
Electrical connection	M8 4 Pin (Male)	M8 4 Pin (Male)
Linearity	≤ ± 1% FS	±4% FS
Hysteresis	±0.5% FS	±8% FS
Repeatability	±0.5% FS	±0.35% FS
Sensibility	0.3% FS	5% FS
Protection class	IP51	IP51

#### **CODING EXAMPLE**

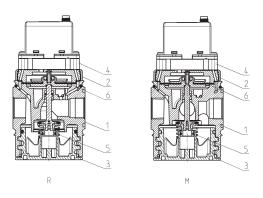
MX	2	-	1/2	-	R	CV	2	0	4	-	LH		
MX	SERIES	SERIES											
2	SIZE: 2 = G1/2												
1/2	PORTS: 1/2 = G1/2												
R	FUNCTIONING:  R = pressure regulator  M = Manifold pressure regulator  W = Manifold flow valve												
CV		cal command (	0-10 V DC (regulator o 4-20 mA (regulator or				EV = electrical command 0-10 V DC with external servo pilot supply EA = electrical command 4-20 mA with external servo pilot supply						
2	1 = working 2 = working 3 = working	SETTING RANG g pressure 0 ÷ :	3 bar 10 bar 1 bar			VALVE SETTING RA 8 = low flow 9 = high flow	ANGE:						
0	DESIGN TYP 0 = relievin 1 = without	g (regulator o	nly)										
4	PRESSURE GAUGE:  0 = without pressure gauge, with threaded port for gauges  2 = with built-in pressure gauge 0-6 bar (regulator only)  4 = with built-in pressure gauge 0-12 bar (regulator only)												
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left												
OX1	VERSIONS: = standard OX1 = for use with oxygen (in compliance with ASTM G93-03 Level E), FKM seals												

Further details about the assembly of a single component with fixing flanges or wall-mounting can be found in the AIR TREATMENT catalogue, section SERIES MX ASSEMBLED FRL.



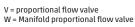
# Series MX-PRO proportional pressure regulator - materials

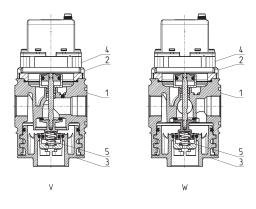
- R = proportional pressure regulator M = Manifold proportional pressure regulator



PARTS	MATERIALS, standard version	MATERIALS, oxygen version
1 = Body	Aluminium	Aluminium
2 = Covering	Polyacetal	РВТ
3 = Valve holder plug	Polyacetal	PBT
4 = Upper base	Aluminium	Aluminium
5 = Lower spring	Stainless steel	Stainless steel
6 = Diaphragm	NBR	FKM
Seals	NBR	FKM

#### Series MX-PRO proportional flow valve - materials





PARTS	MATERIALS, standard version	MATERIALS, oxygen version		
1 = Body	Aluminium	Aluminium		
2 = Covering	Polyacetal	PBT		
3 = Valve holder plug	Polyacetal	PBT		
4 = Upper base	Aluminium	Aluminium		
5 = Lower spring	Stainless steel	Stainless steel		
Seals	NBR	FKM		



# Series MX-PRO proportional pressure regulator



Male connector M8 4 poles Pin 1: +24 V DC (Power supply) Pin 2: Command analogical signal 0-10 V DC or 4-20 mA

Pin 3: 0 V (Ground) common also for

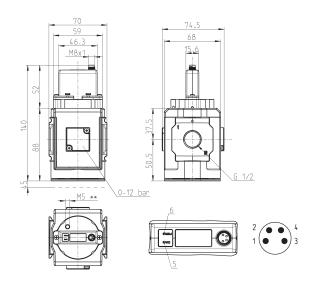
the command signal

Pin 4: Output analogical signal (according to the regulated pressure)

5 red LED 6 green LED

#### DRAWING NOTE:

\*\* = in the versions with external servo pilot supply only (MX2-1/2-REV... and MX2-1/2-REA...)



Mod.   Eletrical command				
MRZ-1/Z-R*VI**2	Mod.	Electrical command	Setting range	Pressure gauge
MX2-1/2-R*V2**0	MX2-1/2-R*V1**0	0-10 V DC	0 ÷ 3 bar	without pressure gauge
MX2-1/2-R*V2**0	MX2-1/2-R*V1**2	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-R*V2**2	MX2-1/2-R*V1**4	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-R*V2**4	MX2-1/2-R*V2**0	0-10 V DC	0 ÷ 10 bar	without pressure gauge
MX2-1/2-R*V3**0	MX2-1/2-R*V2**2	0-10 V DC	0 ÷ 10 bar	with built-in pressure gauge 0-6
MX2-1/2-R*V3**2	MX2-1/2-R*V2**4	0-10 V DC	0 ÷ 10 bar	with built-in pressure gauge 0-12
MX2-1/2-R*V4***0	MX2-1/2-R*V3**0	0-10 V DC	0 ÷ 1 bar	without pressure gauge
NX2-1/2-R°4Va°0         0-10 VDC         0 + 7 bar         with built-in pressure gauge           NX2-1/2-R°4Va°2         0-10 VDC         0 + 7 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4Va°2         0-10 VDC         0 + 7 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4Va°2         0-10 VDC         0 + 7 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4Va°2         4-20 mA         0 + 3 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4A2°4         4-20 mA         0 + 3 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4A2°2         4-20 mA         0 + 10 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4A2°2         4-20 mA         0 + 10 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4A3°6         4-20 mA         0 + 10 bar         with built-in pressure gauge         6-6           NX2-1/2-R°4A3°6         4-20 mA         0 + 1 bar         with built-in pressure gauge         6-8           NX2-1/2-R°4A3°6         4-20 mA         0 + 1 bar         with built-in pressure gauge         6-8           NX2-1/2-R°4A3°6         4-20 mA         0 + 7 bar         with built-in pressure gauge         6-8      <	MX2-1/2-R*V3**2	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-6
NX2-1/2-R°44°2	MX2-1/2-R*V3**4	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-12
NX2-1/2-R°44°*4         0-10 V DC         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°41°*0         4-20 mA         0 + 3 bar         without pressure gauge 0-6           MX2-1/2-R°41°*2         4-20 mA         0 + 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°41°*4         4-20 mA         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°42°*0         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°42°*0         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°42°*4         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°42°*0         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°32°*0         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°35°*2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°35°*4         4-20 mA         0 + 7 bar         without pressure gauge 0-12           MX2-1/2-R°44°*2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°44°*2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°44°*2 <td>MX2-1/2-R*V4**0</td> <td>0-10 V DC</td> <td>0 ÷ 7 bar</td> <td>without pressure gauge</td>	MX2-1/2-R*V4**0	0-10 V DC	0 ÷ 7 bar	without pressure gauge
MX2-1/2-R°A1°°0         4-20 mA         0+3 bar         without pressure gauge           MX2-1/2-R°A1°°2         4-20 mA         0+3 bar         with built-in pressure gauge 0+6           MX2-1/2-R°A2°°4         4-20 mA         0+3 bar         with built-in pressure gauge 0+12           MX2-1/2-R°A2°°4         4-20 mA         0+10 bar         without pressure gauge           MX2-1/2-R°A2°°2         4-20 mA         0+10 bar         with built-in pressure gauge 0+6           MX2-1/2-R°A2°°2         4-20 mA         0+10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°0         4-20 mA         0+10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2         4-20 mA         0+10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°2         4-20 mA         0+10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°2         4-20 mA         0+10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°2         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°44°°2         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°2         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°2         0-10 VDC	MX2-1/2-R*V4**2	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-R°A1°2         4-20 mA         0 + 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A2°4         4-20 mA         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A2°6         4-20 mA         0 + 10 bar         without pressure gauge 0-6           MX2-1/2-R°A2°2         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A2°3         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°0         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°4         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A9°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A9°0-0X1         0 -10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A1°0-0CX1 <td>MX2-1/2-R*V4**4</td> <td>0-10 V DC</td> <td>0 ÷ 7 bar</td> <td>with built-in pressure gauge 0-12</td>	MX2-1/2-R*V4**4	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-R°A1°°4         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A2°°0         4-20 mA         0 ÷ 10 bar         without pressure gauge           MX2-1/2-R°A2°°2         4-20 mA         0 ÷ 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A2°°4         4-20 mA         0 ÷ 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°0         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°2         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2         4-20 mA         0 ÷ 7 bar         without pressure gauge 0-12           MX2-1/2-R°A3°°2         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°2         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°4         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°4         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°4         0 -10 VDC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A1°°2-0X1	MX2-1/2-R*A1**0	4-20 mA	0 ÷ 3 bar	without pressure gauge
MX2-1/2-R°A2°°0         4-20 mA         0 + 10 bar         without pressure gauge           MX2-1/2-R°A2°°2         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A2°°2         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A2°°2         4-20 mA         0 + 1 bar         without pressure gauge 0-6           MX2-1/2-R°A5°°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A5°°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A5°°4         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A6°°0         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A6°°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°40°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V1°0°00X1         0 -10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V1°0°4-0X1         0 -10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V2°0°0-0X1         0 -10 VDC         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R	MX2-1/2-R*A1**2	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-R°A2°°2         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A2°°4         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°0         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°4         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°40°°4         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°4-0XI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°4-0XI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°4-0XI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°2-0XI         0-10 VDC         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°40°°2-0XI         0-10 VDC         0 + 1 bar         with built-in pressure gauge 0-12	MX2-1/2-R*A1**4	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-R°A2°°4         4-20 mA         0 + 10 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°0         4-20 mA         0 + 1 bar         without pressure gauge           MX2-1/2-R°A3°°2         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A3°°4         4-20 mA         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°2         4-20 mA         0 + 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V4°0-OXI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V1°2-OXI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V1°2-OXI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V2°0-OXI         0-10 VDC         0 + 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V2°0-OXI         0-10 VDC         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V2°0-OXI         0-10 VDC         0 + 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V2°0-OXI         0-10 VDC         0 + 1 bar         with built-in pressure gauge 0-12	MX2-1/2-R*A2**0	4-20 mA	0 ÷ 10 bar	without pressure gauge
MX2-1/2-R*03**0         4-20 mA         0+1 bar         without pressure gauge           MX2-1/2-R*03**0         4-20 mA         0+1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*03**0         4-20 mA         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**0         4-20 mA         0+7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**2         4-20 mA         0+7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**2         4-20 mA         0+7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**2         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**2         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**4         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**0-OX1         0-10 VDC         0+3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**0-OX1         0-10 VDC         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**0-OX1         0-10 VDC         0+1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**0-OX1         0-10 VDC         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*04**0-OX1	MX2-1/2-R*A2**2	4-20 mA	0 ÷ 10 bar	with built-in pressure gauge 0-6
MX2-1/2-R°A3°°2         4-20 mA         0+1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°4         4-20 mA         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°0         4-20 mA         0+7 bar         without pressure gauge 0-6           MX2-1/2-R°A4°°2         4-20 mA         0+7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°4         4-20 mA         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V1°°0-OX1         0-10 V DC         0+3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V1°°4-OX1         0-10 V DC         0+3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°0-OX1         0-10 V DC         0+3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-OX1         0-10 V DC         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-OX1         0-10 V DC         0+1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°4-OX1         0-10 V DC         0+1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°4-OX1         0-10 V DC         0+7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V4°°2-OX1         0-10 V DC         0+7 bar         with built-in pressure gauge 0-12 <t< td=""><td>MX2-1/2-R*A2**4</td><td>4-20 mA</td><td>0 ÷ 10 bar</td><td>with built-in pressure gauge 0-12</td></t<>	MX2-1/2-R*A2**4	4-20 mA	0 ÷ 10 bar	with built-in pressure gauge 0-12
MX2-1/2-R°A3°°4         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A4°°0         4-20 mA         0 ÷ 7 bar         without pressure gauge           MX2-1/2-R°A4°°2         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°°4         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V4°°0-0X1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V1°°2-QV1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-QX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V4°°0-QX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A3**0	4-20 mA	0 ÷ 1 bar	without pressure gauge
MX2-1/2-R*A4**0         4-20 mA         0 ÷ 7 bar         without pressure gauge           MX2-1/2-R*A4**0         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A4**0         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V1**0-0NI         0-10 VDC         0 ÷ 5 bar         with built-in pressure gauge           MX2-1/2-R*V1**0-2-OXI         0-10 VDC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V1**0-0-OXI         0-10 VDC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V3**0-OXI         0-10 VDC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V3**0-OXI         0-10 VDC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V3**0-OXI         0-10 VDC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V3**0-OXI         0-10 VDC         0 ÷ 7 bar         without pressure gauge 0-12           MX2-1/2-R*V4**0-OXI         0-10 VDC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*Q4**0-OXI         0-10 VDC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*Q4**0-OXI         0-10 VDC         0 ÷ 7 bar         with built-in pressure gauge 0-12	MX2-1/2-R*A3**2	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-R°A4°2         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A4°4         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V1°°0-OX1         0-10 V DC         0 ÷ 3 bar         withoult pressure gauge           MX2-1/2-R°V1°°2-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V1°°4-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°2-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°2-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V4°°2-OX1         0-10 V DC         0 ÷ 7 bar         without pressure gauge           MX2-1/2-R°V4°°2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A1°°2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A1°°2-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A1°°2-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6 </td <td>MX2-1/2-R*A3**4</td> <td>4-20 mA</td> <td>0 ÷ 1 bar</td> <td>with built-in pressure gauge 0-12</td>	MX2-1/2-R*A3**4	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-R°A4°*4         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0·12           MX2-1/2-R°V1**0-OX1         0-10 V DC         0 ÷ 3 bar         without pressure gauge           MX2-1/2-R°V1**0-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0·6           MX2-1/2-R°V1**0-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0·12           MX2-1/2-R°V3**0-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0·6           MX2-1/2-R°V3**0-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0·6           MX2-1/2-R°V4**0-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0·12           MX2-1/2-R°V4**0-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0·12           MX2-1/2-R°V4**0-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0·6           MX2-1/2-R°V4**4-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0·12           MX2-1/2-R°A1**0-0OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0·12           MX2-1/2-R°A1**0-COX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0·6           MX2-1/2-R°A3**0-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gau	MX2-1/2-R*A4**0	4-20 mA	0 ÷ 7 bar	without pressure gauge
MX2-1/2-ReV1°0-0X1         0-10 V DC         0 ÷ 3 bar         without pressure gauge           MX2-1/2-ReV1°2-0X1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-ReV1°4-0X1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV3°0-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-ReV3°0-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 7 bar         without pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-ReV4°0-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A4**2	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-R*V1**2-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V1**4-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V3**0-OX1         0-10 V DC         0 ÷ 1 bar         without pressure gauge 0-6           MX2-1/2-R*V3**2-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V4**0-OX1         0-10 V DC         0 ÷ 7 bar         without pressure gauge 0-12           MX2-1/2-R*V4**2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4**2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V4**4-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A1**0-OX1         4-20 mA         0 ÷ 3 bar         without pressure gauge 0-12           MX2-1/2-R*A1**0-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-	MX2-1/2-R*A4**4	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-R°V1°°4-OX1         0-10 V DC         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°V3°°0-OX1         0-10 V DC         0 ÷ 1 bar         without pressure gauge           MX2-1/2-R°V3°°2-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V3°°4-OX1         0-10 V DC         0 ÷ 7 bar         without pressure gauge           MX2-1/2-R°V4°°2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°V4°°4-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A1°°0-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A1°°2-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R°A1°°4-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R°A3°°2-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12	MX2-1/2-R*V1**0-0X1	0-10 V DC	0 ÷ 3 bar	without pressure gauge
MX2-1/2-R*V3**0-0X1         0-10 V DC         0 ÷ 1 bar         without pressure gauge           MX2-1/2-R*V3**2-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V3**4-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V4**0-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4**4-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*04**0-0X1         4-20 mA         0 ÷ 3 bar         without pressure gauge 0-12           MX2-1/2-R*A1**0-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A1**4-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-0X1         4-20 mA         0 ÷ 1 bar         without pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12	MX2-1/2-R*V1**2-0X1	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-R*V3**2-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V3**4-0X1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V4**0-0X1         0-10 V DC         0 ÷ 7 bar         without pressure gauge 0-6           MX2-1/2-R*V4**4-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4**4-0X1         0-10 V DC         0 ÷ 7 bar         without pressure gauge 0-12           MX2-1/2-R*A1**0-0X1         4-20 mA         0 ÷ 3 bar         without pressure gauge 0-6           MX2-1/2-R*A1**4-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**0-0X1         4-20 mA         0 ÷ 1 bar         without pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6 <td>MX2-1/2-R*V1**4-0X1</td> <td>0-10 V DC</td> <td>0 ÷ 3 bar</td> <td>with built-in pressure gauge 0-12</td>	MX2-1/2-R*V1**4-0X1	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-R*V3**4-OX1         0-10 V DC         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*V4**0-OX1         0-10 V DC         0 ÷ 7 bar         without pressure gauge 0-6           MX2-1/2-R*V4**2-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4**4-OX1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A1**0-OX1         4-20 mA         0 ÷ 3 bar         without pressure gauge 0-6           MX2-1/2-R*A1**2-OX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**0-OX1         4-20 mA         0 ÷ 1 bar         without pressure gauge 0-12           MX2-1/2-R*A3**2-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-OX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4**0-OX1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A4**2-OX1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*V3**0-0X1	0-10 V DC	0 ÷ 1 bar	without pressure gauge
MX2-1/2-R*V4*0-0X1         0-10 V DC         0 ÷ 7 bar         without pressure gauge           MX2-1/2-R*V4*2-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4*4-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A1*0-0X1         4-20 mA         0 ÷ 3 bar         without pressure gauge           MX2-1/2-R*A1*0-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A1*0-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3*0-0X1         4-20 mA         0 ÷ 1 bar         without pressure gauge 0-6           MX2-1/2-R*A3*0-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3*0-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3*0-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4*0-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A4*0-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*V3**2-0X1	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-R*V4**2-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-6           MX2-1/2-R*V4**4-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A1**0-0X1         4-20 mA         0 ÷ 3 bar         without pressure gauge           MX2-1/2-R*A1**2-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A1**4-0X1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-0X1         4-20 mA         0 ÷ 1 bar         without pressure gauge           MX2-1/2-R*A3**2-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**4-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge	MX2-1/2-R*V3**4-0X1	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-R*V4*4-0X1         0-10 V DC         0 ÷ 7 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A1*0-0X1         4-20 mA         0 ÷ 3 bar         with out pressure gauge           MX2-1/2-R*A1*2-QX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A1*4-QX1         4-20 mA         0 ÷ 3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3*0-0X1         4-20 mA         0 ÷ 1 bar         without pressure gauge           MX2-1/2-R*A3*2-QX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3*4-QX1         4-20 mA         0 ÷ 1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4*0-0X1         4-20 mA         0 ÷ 7 bar         without pressure gauge 0-6           MX2-1/2-R*A4*2-0X1         4-20 mA         0 ÷ 7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*V4**0-0X1	0-10 V DC	0 ÷ 7 bar	without pressure gauge
MX2-1/2-R*A1**0-0X1         4-20 mA         0÷3 bar         without pressure gauge           MX2-1/2-R*A1**2-0X1         4-20 mA         0÷3 bar         with built-in pressure gauge 0·6           MX2-1/2-R*A1**4-0X1         4-20 mA         0÷3 bar         with built-in pressure gauge 0·12           MX2-1/2-R*A3**0-0X1         4-20 mA         0÷1 bar         without pressure gauge           MX2-1/2-R*A3**2-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0·6           MX2-1/2-R*A3**4-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0·12           MX2-1/2-R*A4**0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge	MX2-1/2-R*V4**2-0X1	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-R*A1**2-0X1         4-20 mA         0÷3 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A1**4-0X1         4-20 mA         0÷3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-0X1         4-20 mA         0÷1 bar         without pressure gauge           MX2-1/2-R*A3**2-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4**0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*V4**4-0X1	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-R*A1**4-0X1         4-20 mA         0÷3 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A3**0-0X1         4-20 mA         0÷1 bar         without pressure gauge           MX2-1/2-R*A3**2-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4**0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A1**0-0X1	4-20 mA	0 ÷ 3 bar	without pressure gauge
MX2-1/2-R*A3*0-0X1         4-20 mA         0÷1 bar         without pressure gauge           MX2-1/2-R*A3*0-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3*0+0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4*0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4*0-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A1**2-0X1	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-R*A3**2-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-6           MX2-1/2-R*A3**4-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4**0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A1**4-0X1	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-R*A3*4-0X1         4-20 mA         0÷1 bar         with built-in pressure gauge 0-12           MX2-1/2-R*A4*0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4*2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A3**0-0X1	4-20 mA	0 ÷ 1 bar	without pressure gauge
MX2-1/2-R*A4**0-0X1         4-20 mA         0÷7 bar         without pressure gauge           MX2-1/2-R*A4**2-0X1         4-20 mA         0÷7 bar         with built-in pressure gauge 0-6	MX2-1/2-R*A3**2-0X1	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-6
<b>MX2-1/2-R*A4</b> ** <b>2-0X1</b> 4-20 mA 0 ÷ 7 bar with built-in pressure gauge 0-6	MX2-1/2-R*A3**4-0X1	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-12
	MX2-1/2-R*A4**0-0X1	4-20 mA	0 ÷ 7 bar	without pressure gauge
<b>MX2-1/2-R*A4</b> ** <b>4-0X1</b> 4-20 mA 0 ÷ 7 bar with built-in pressure gauge 0-12	MX2-1/2-R*A4**2-0X1	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-6
	MX2-1/2-R*A4**4-0X1	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-12

#### TABLE NOTES:

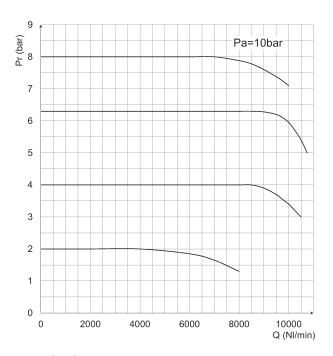
LH = add LH at the end of the code for air inlet from the right to the left

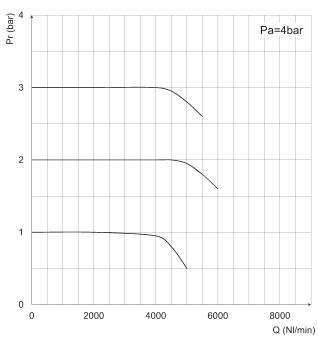
<sup>\* =</sup> versions with or without external pilot supply

<sup>\*\* =</sup> versions with our without relieving

# CAMOZZI Automation

#### PRESSURE REGULATOR FLOW DIAGRAMS - STANDARD VERSION





Pr = Regulated pressure

Q = Flow

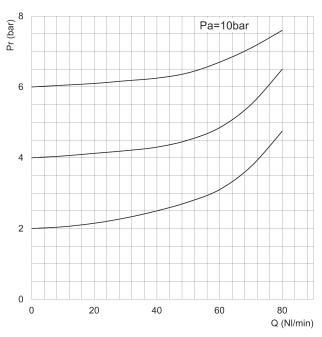
Pa = Inlet pressure

Pr = Regulated pressure

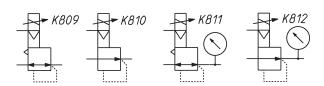
Q = Flow

Pa = Inlet pressure

#### **EXHAUST FLOW DIAGRAM AND PNEUMATIC SYMBOLS**



K801 K802 K803 K804



Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

K801 = relieving, electrical command

K802 = NO relieving, electrical command

K803 = relieving, electrical command, built-in pressure gauge

K804 = NO relieving, electrical command, built-in pressure gauge

K809 = relieving, electrical command, ext. servo pilot supply

K810 = NO reliev., electrical command, ext. servo pilot supply

K811 = reliev., el. com., built-in pr. gauge, ext. servo pilot supply

K812 = NO reliev., el. com., built-in pr. gauge, ext. servo pilot sup.



# Series MX-PRO proportional pressure regulator



Male connector M8 4 poles Pin 1: +24 V DC (Power supply) Pin 2: Command analogical signal

0-10 V DC or 4-20 mA

Pin 3: 0 V (Ground) common also for

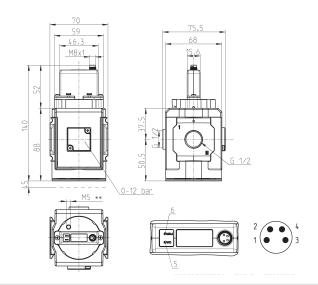
the command signal

Pin 4: Output analogical signal (according to the regulated pressure)

5 red LED 6 green LED

#### DRAWING NOTE:

\*\* = in the versions with external servo pilot supply only (MX2-1/2-REV... and MX2-1/2-REA...)



Mod.	Electrical command	Setting range	Pressure gauge
MX2-1/2-M*V1**0	0-10 V DC	0 ÷ 3 bar	without pressure gauge
MX2-1/2-M*V1**2	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V1**4	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V2**0	0-10 V DC	0 ÷ 10 bar	without pressure gauge
MX2-1/2-M*V2**2	0-10 V DC	0 ÷ 10 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V2**4	0-10 V DC	0 ÷ 10 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V3**0	0-10 V DC	0 ÷ 1 bar	without pressure gauge
MX2-1/2-M*V3**2	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V3**4	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V4**0	0-10 V DC	0 ÷ 7 bar	without pressure gauge
MX2-1/2-M*V4**2	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V4**4	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A1**0	4-20 mA	0 ÷ 3 bar	without pressure gauge
MX2-1/2-M*A1**2	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A1**4	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A2**0	4-20 mA	0 ÷ 10 bar	without pressure gauge
MX2-1/2-M*A2**2	4-20 mA	0 ÷ 10 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A2**4	4-20 mA	0 ÷ 10 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A3**0	4-20 mA	0 ÷ 1 bar	without pressure gauge
MX2-1/2-M*A3**2	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A3**4	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A4**0	4-20 mA	0 ÷ 7 bar	without pressure gauge
MX2-1/2-M*A4**2	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A4**4	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V1**0-0X1	0-10 V DC	0 ÷ 3 bar	without pressure gauge
MX2-1/2-M*V1**2-0X1	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V1**4-0X1	0-10 V DC	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V3**0-0X1	0-10 V DC	0 ÷ 1 bar	without pressure gauge
MX2-1/2-M*V3**2-0X1	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V3**4-0X1	0-10 V DC	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-M*V4**0-0X1	0-10 V DC	0 ÷ 7 bar	without pressure gauge
MX2-1/2-M*V4**2-0X1	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-M*V4**4-0X1	0-10 V DC	0 ÷ 7 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A1**0-OX1	4-20 mA	0 ÷ 3 bar	without pressure gauge
MX2-1/2-M*A1**2-OX1	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A1**4-0X1	4-20 mA	0 ÷ 3 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A3**0-OX1	4-20 mA	0 ÷ 1 bar	without pressure gauge
MX2-1/2-M*A3**2-0X1	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A3**4-0X1	4-20 mA	0 ÷ 1 bar	with built-in pressure gauge 0-12
MX2-1/2-M*A4**0-0X1	4-20 mA	0 ÷ 7 bar	without pressure gauge
MX2-1/2-M*A4**2-0X1	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-6
MX2-1/2-M*A4**4-0X1	4-20 mA	0 ÷ 7 bar	with built-in pressure gauge 0-12

#### TABLE NOTES:

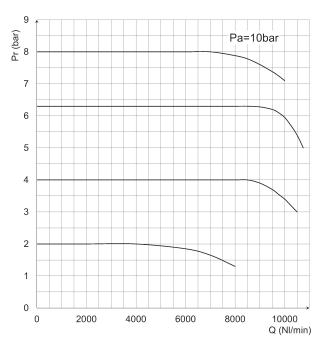
LH = add LH at the end of the code for air inlet from the right to the left

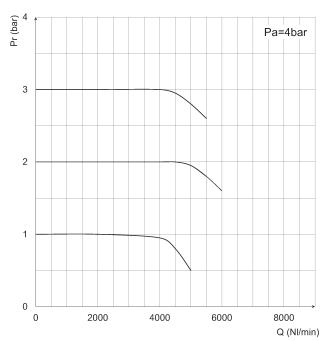
<sup>\* =</sup> versions with or without external pilot supply

<sup>\*\* =</sup> versions with our without relieving

# CAMOZZI Automation

#### PRESSURE REGULATOR FLOW DIAGRAMS - MANIFOLD VERSION





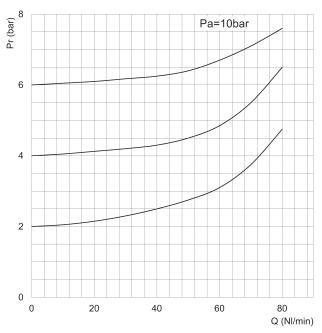
Pr = Regulated pressure Q = Flow

Pa = Inlet pressure

Pr = Regulated pressure Q = Flow

Pa = Inlet pressure

# **EXHAUST FLOW DIAGRAM - MANIFOLD VERSION**

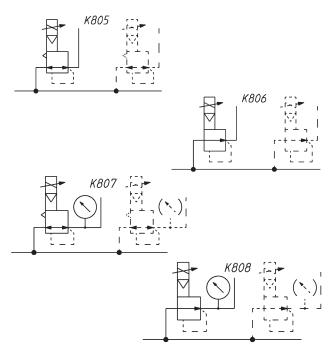


Pr = Regulated pressure Q = Flow

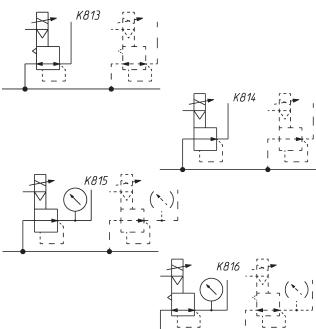
Pa = Inlet pressure



#### **PNEUMATIC SYMBOLS - MANIFOLD VERSION**



K805 = MANIFOLD reg., relieving, electrical command
K806 = MANIFOLD reg., NO relieving, electrical command
K807 = MANIFOLD reg., relieving, electrical command
and built-in pressure gauge
K808 = MANIFOLD reg., NO relieving, electrical command
and built-in pressure gauge



K813 = MANIFOLD reg., relieving, electrical command, and external servo pilot supply K814 = MANIFOLD reg., NO relieving, electrical command, and external servo pilot supply K815 = MANIFOLD reg., relieving, electrical command, built-in pressure gauge and external servo pilot supply K816 = MANIFOLD reg., NO relieving, electrical command, built-in pressure gauge and external servo pilot supply



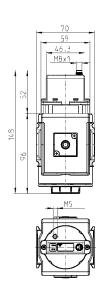
# Series MX-PRO proportional flow valve

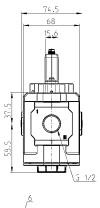


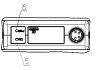
Male connector M8 4 poles
Pin 1: +24 V DC (Power supply)
Pin 2: Command analogical signal
0-10 V DC or 4-20 mA
Pin 3: 0 V (Ground) common also for
the command signal
Pin 4: Output analogical signal
(according to the regulated
pressure)

5 red LED 6 green LED









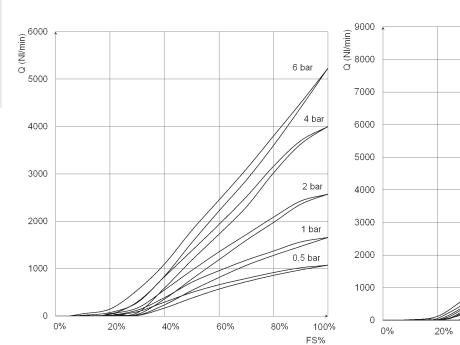


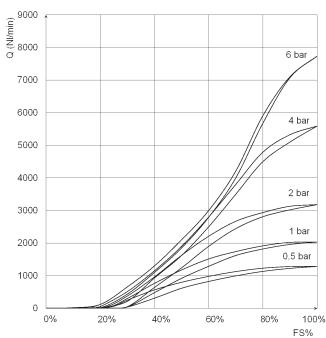
Mod.	Electrical command	Setting range
MX2-1/2-VEV810	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-VEA810	4-20 mA, external servo pilot supply	low flow
MX2-1/2-VEV910	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-VEA910	4-20 mA, external servo pilot supply	high flow
MX2-1/2-VEV810-LH	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-VEA810-LH	4-20 mA, external servo pilot supply	low flow
MX2-1/2-VEV910-LH	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-VEA910-LH	4-20 mA, external servo pilot supply	high flow
MX2-1/2-VEV810-OX1	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-VEA810-OX1	4-20 mA, external servo pilot supply	low flow
MX2-1/2-VEV910-OX1	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-VEA910-OX1	4-20 mA, external servo pilot supply	high flow
MX2-1/2-VEV810-LHOX1	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-VEA810-LHOX1	4-20 mA, external servo pilot supply	low flow
MX2-1/2-VEV910-LHOX1	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-VEA910-LHOX1	4-20 mA, external servo pilot supply	high flow

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#### **VALVE FLOW DIAGRAMS**





Low flow version

Q (Nl/min) = flow FS% = full scale command signal

High flow

Q (Nl/min) = flow FS% = full scale command signal

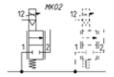
# CAMOZZI Automation

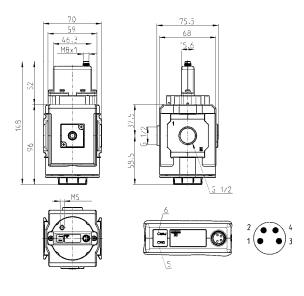
# Series MX-PRO Manifold proportional flow valve



Male connector M8 4 poles
Pin 1: +24 V DC (Power supply)
Pin 2: Command analogical signal
0-10 V DC or 4-20 mA
Pin 3: 0 V (Ground) common also for
the command signal
Pin 4: Output analogical signal
(according to the regulated
pressure)

5 red LED 6 green LED

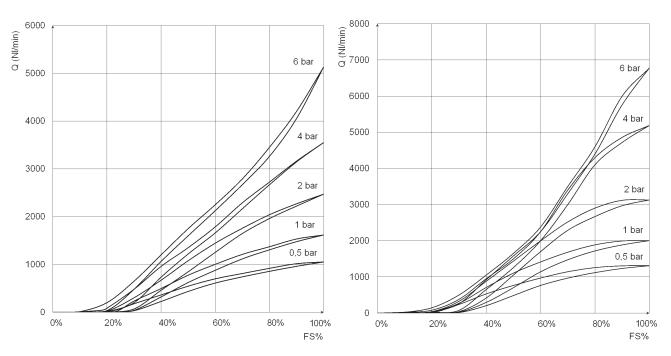




Mod.	Electrical command	Setting range
MX2-1/2-WEV810	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-WEA810	4-20 mA, external servo pilot supply	low flow
MX2-1/2-WEV910	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-WEA910	4-20 mA, external servo pilot supply	high flow
MX2-1/2-WEV810-LH	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-WEA810-LH	4-20 mA, external servo pilot supply	low flow
MX2-1/2-WEV910-LH	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-WEA910-LH	4-20 mA, external servo pilot supply	high flow
MX2-1/2-WEV810-0X1	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-WEA810-0X1	4-20 mA, external servo pilot supply	low flow
MX2-1/2-WEV910-0X1	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-WEA910-0X1	4-20 mA, external servo pilot supply	high flow
MX2-1/2-WEV810-LHOX1	0-10 V DC, external servo pilot supply	low flow
MX2-1/2-WEA810-LHOX1	4-20 mA, external servo pilot supply	low flow
MX2-1/2-WEV910-LHOX1	0-10 V DC, external servo pilot supply	high flow
MX2-1/2-WEA910-LHOX1	4-20 mA, external servo pilot supply	high flow

SERIES MX-PRO PROPORTIONAL REGULATOR AND VALVE

#### **VALVE FLOW DIAGRAMS - MANIFOLD VERSION**



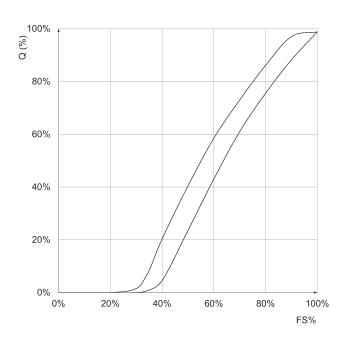
Low flow version

Q (Nl/min) = flow FS% = full scale command signal High flow version

Q (Nl/min) = flow FS% = full scale command signal

#### Flow characteristic curve of a proportional valve

Q% = flow FS% = full scale command signal



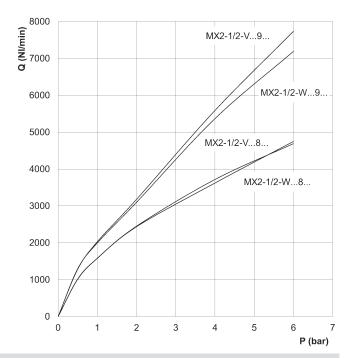


### Valve maximum flow and response times

Maximum flow according to the inlet pressure

#### DIAGRAM LEGEND:

Q = flow (Nl/min) P = inlet pressure (bar)



Pin	Туре		Flow at steady speed [Nl/min]	Command [V]		Load respo	nse time (ms)			Exhaust response time (ms)				
					0-10%	0-50%	0-90%	0-99%	0-10%	0-50%	0-90%	0-99%		
2 bar	Low flow	Standard	915	6	351	452.4	967.2	6240	171.6	284.7	487.5	624		
		Manifold	1000	6.3	327.6	421.2	951.6	6162	249.6	366.6	577.2	780		
	High flow	Standard	960	4.7	331.5	444.6	1279.2	6942	245.7	329.16	526.5	702		
		Manifold	960	4.2	313	420	1156	9700	200	340	540	800		
4 bar	Low flow	Standard	952	5.4	319.8	436.8	1029.6	7410	187.2	304.2	491.4	624		
		Manifold	925	5.3	284.7	408.72	1474.2	6240	237.9	370.5	557.7	897		
	High flow	Standard	970	4.4	279.24	429	1177.8	7878	225	351	526.5	741		
	_	Manifold	940	3.8	230	400	1680	8500	175	360	580	900		

Set flow: about 1000 NI/min



# Rapid clamp kit

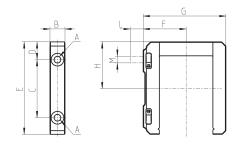


The kit MX2-X is supplied with: 1 rapid clamp, 1 0-ring OR 3125 \*, 2 exagonal nuts M5, 2 screws M5x69.

The kit MX2-Z is supplied with: 1 rapid clamp, 1 0-ring OR 3125 \*, 1 exagonal nut M5, 1 screw M5x69, 1 screw M5x85 for wall fixing.

\* it can be ordered separately (cod. 160-39-11/19)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.



DIMENSIONS												
Mod.	Α	В	С	D	E	F	G	Н	L	M	Notes	
MX2-X	5.2	12	46	14	73.5	37.5	70.5	37	-	-		
MX2-Z	5.2	12	46	14	73.5	37.5	70.5	37	14	M5	kit with wall fixing screw	

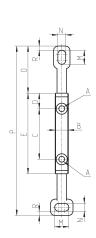
# Rapid clamp kit with wall fixing brackets

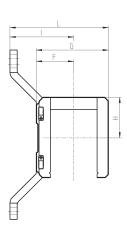


The kit MX2-Y is supplied with: 1 wall rapid clamp, 1 O-ring OR 3125 \*\*, 2 exagonal nuts, 2 screws M5x69.

\*\* it can be separately ordered (cod. 160-39-11/19)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.





Mod.	Α	В	C	D	E	F	G	Н	- 1	L	М	N	0	Р	R
MX2-Y	5,2	12	46	14	73,5	32,5	70,5	37	70,5	103	12	6,5	42	152	4

# **C**₹ CAMOZZI

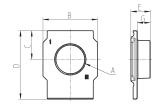
# Terminal flanges (IN/OUT)



The kit is supplied with: - 1 flange INLET side

- 1 flange OUTLET side

Materials: painted aluminium flanges.



Mod.	Α	В	С	D	E	G
MX2-1/2-FL	G1/2	50	26,5	63,5	17	11

#### Rapid clamps kit + flanges



Mod.	The kit is supplied with:	
MX2-1/2-HH	1x MX2-1/2-FL + 2x MX2-X	
MX2-1/2-JJ	1x MX2-1/2-FL + 2x MX2-Z	

# Rapid clamps kit with wall fixing brackets + flanges



Mod.	The kit is supplied with:
MX2-1/2-KK	1x MX2-1/2-FL + 2x MX2-Y

SERIES MX-PRO PROPORTIONAL REGULATOR AND VALVE

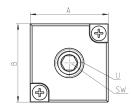
# Block for pressure gauge fixing

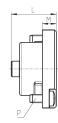


The kit is supplied with: 1 block

- 1 grain
- 2 screws

_	J C. C
1	sea

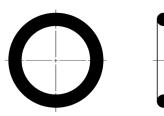




DIMENSIONS							
Mod.	Α	В	L	М	Р	U	SW
MX2-R26/1-P	28	28	16.5	5	M3X7	1/8	5

# O-ring for assembling



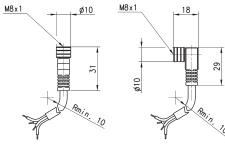


Mod.	0-ring	For assembly	
160-39-11/19	OR 3125	MX2	

# Circular M8 4-pole connectors, Female



With PU sheathing, non shielded cable. Protection class: IP65



Mod.	Type of connector	Cable length (m)
CS-DF04EG-E200	straight	2
CS-DF04EG-E500	straight	5
CS-DR04EG-E200	right angle (90 degrees)	2

right angle (90 degrees)

CS-DR04EG-E500