

SYNTESI series



REG regulator

Size:	SY1, SY2
Outlet press. range:	0÷2, 0÷4, 0÷8, 0÷12 bar
Inlet pressure:	Up to 15 bar
Working temp.:	Up to +50°C
Connection:	BSP 1/8" ÷ 3/8" female thread for SY1 BSP 3/8" ÷ 1" female thread for SY2
Pressure gauge port:	BSP 1/8" female thread for SY1 BSP 1/4" female thread for SY2
Flow rate:	1200 l/min - 1/8" 2800 l/min - 1/4" 3350 l/min - 3/8" (SY1) 5300 l/min - 3/8" (SY2) 7400 l/min - 1/2" 7600 l/min - 3/4", 1" (input pressure 6 bar and $\Delta p = 1$ bar)

Instead of a flat membrane, SYNTESI pressure regulator employs a rolling membrane, which guarantees:

- greater nominal flow rate - a result of increased membrane stroke,
- quicker response to the change of settings - a result of reduced dynamic and static friction,
- greater accuracy in maintaining outlet pressure settings at variable flow rates and supply pressure.

If the outlet pressure rises above the set value, the membrane opens the relief valve and vents the regulator until the pressure drops to the set level. The regulator has a push-lock mechanism which locks the knob in any position when it is pushed down. A blocking plate enables padlock assembly, securing from an unintentional change of outlet pressure setting. Additional 1/8" connections, one at the front and one at the back, can be used for pressure gauges, pressure switches or push-in connections. The air taken in through these elements is appropriately reduced.

REG	SY1	02
element	size	outlet pressure range
REG - regulator	SY1 SY2	02 - 0÷2 bar 04 - 0÷4 bar 08 - 0÷8 bar 012 - 0÷12 bar

The elements of SYNTESI system can be easily used to build FRL unit according to customer specifications. The connection set and bushings facilitate assembly.

code	type	connection	outlet pressure range
MW-5610R100	REG SY1 02	without bushing	0 ÷ 2
MW-5610R120	REG SY1 04		0 ÷ 4
MW-5610R140	REG SY1 08		0 ÷ 8
MW-5610R160	REG SY1 012		0 ÷ 12
MW-5620R100	REG SY2 02	without bushing	0 ÷ 2
MW-5620R120	REG SY2 04		0 ÷ 4
MW-5620R140	REG SY2 08		0 ÷ 8
MW-5620R160	REG SY2 012		0 ÷ 12

X - AISI 304 steel version, code example: MW-5X10F100