



Circuit selector Mod. SCS
Unidirectional valves Series VNR
Quick exhaust valves Series VSO - VSC
Valve with adjustable exhaust Mod. VMR



- » Mod. SCS: channelling of two signals coming alternately from two different points towards the same point
- » Series VNR: operations at low pressures
- » Series VSC VSO: able to increase the speed of cylinders
- » Series VSC VSO: depressurisation of tanks containing compressed air
- » Mod. VMR: able to maintain pressure constant at a set value which allows the overpressure to exhaust

Automatic valves are defined as those valves which change their state simply as a result of compressed air being present or absent at their inlets.

The circuit selector Mod. SCS - 668-06 enables two signals coming alternately from two different points to be channelled towards the same point.

The unidirectional valves Series VNR allow operation at low pressures both when there is a free flow and during retention.

Quick exhaust valves Series VSC and VSO are commonly used to increase the speed of cylinders or for rapid depressurisation of tanks containing compressed air.

The adjustable valves Mod. VMR 1/8-B10 allow to maintain tank/capacity at a constant pressure value and thus enable a quick exhaust in the atmosphere even in case of an internal overpressure.

## **GENERAL DATA**

Valve group automatic valves

Construction Mod. SCS, Series VNR, Series VSO and Series VSC: poppet-type

Mod. VMR: diaphragm type

Materials Series SCS: AL body - brass bush - NBR seals - Delrin poppet Series VNR: brass body - NBR seals - stainless steel spring

Series VSO: brass body - NBR seals Series VSC: brass body - Desmopan seal

Mod. VMR: brass body - zinc-plated steel spring - NBR seals

**Mounting** in any position

Ports according to the different models (see tables)

Operating temperature Mod. SCS, Series VNR, Series VSO and Series VSC: 0°C ÷ 80°C (with dry air -20°C)

Mod. VMR:  $-5^{\circ}$ C  $\div$  50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)

Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should

never be interrupted.

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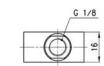
## Circuit selector Series SCS

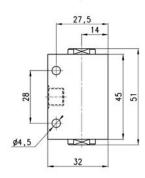
The selector is mounted by through holes in the body.



Materials used:

- AL body
- brass bush
- NBR seals
- Delrin poppet







DIMENSIONS		
Mod.	Q (NI/min)	P (bar)
SCS-668-06	800	0,2

Q = Flow P = Minimum working pressure

## Unidirectional valves Series VNR

The poppet-type construction of these valves allow operation at low pressures both when there is a free flow and during retention.



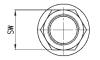
Ports: M5 - G1/8 - G1/4 - G3/8 - G1/2 - G3/4

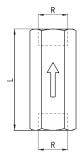
- Materials used: - brass body
- NBR seals
- stainless steel spring

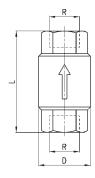
M5-G1/8-G1/4

G3/8-G1/2-G3/4









DIMENSIONS						
Mod.	R	L	SW	D	Q (NI/min)	P (bar)
VNR-205-M5	M5	25	8	9	50	1
VNR-210-1/8	G1/8	34	13	15	600	0,2
VNR-843-07	G1/4	43	17	20	1400	0,2
VNR-238-3/8	G3/8	55	23	34,5	3000	0,02
VNR-212-1/2	G1/2	58,5	27	34,5	5800	0,02
VNR-234-3/4	G3/4	65	33	41,5	8000	0,06

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- Q = Flow P = Minimum working pressure



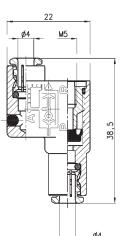
# Quick exhaust valves Series VSO

The models VSO 425 -M5 and VSO 426-04 are particularly suitable to be mounted on solenoid valves and valves incorporating a ø 4 cartridge.

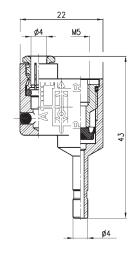
Ports: M5 or ø 4 cartridge Materials used:

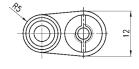
- brass body
- NBR seal

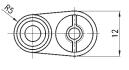
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Mod.	Q (NI/min) 1 > 2	Q (NI/min) 2 > 3	P (bar)
VSO 425-M5	50	100	1
VSO 426-04	50	100	1

 $Q = Flow at 6 bar \Delta P 1$ P = Minimum working pressure

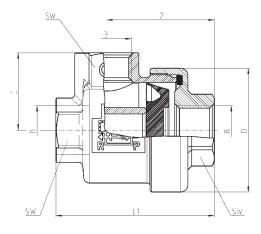
## Quick exhaust valves Series VSC



These models are particularly suitable to be mounted directly on the cylinder mouth through the use of a nipple. It is recommended to mount a silencer on the outlet.

Ports: G1/8 - G1/4 - G1/2 Materials used:

- brass body
- Desmopan seal





VSC 1

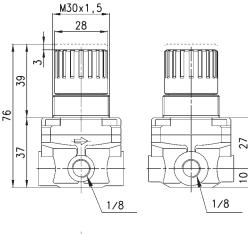
- Mod. В D Ε L1 L2 SW Q (NI/min) 1 > 2 Q (NI/min) 2 > 3 P (bar) VSC 588-1/8 1/8 28 17,5 36,5 25 14 650 1000 0,5 VSC 544-1/4 1/4 33 20,5 42 28,5 17 1100 2300 0,3 6700 VSC 522-1/2 1/2 57.5 39,5 24 4500 0,2 43 27
- Q = Flow at 6 bar ∆P 1
- P = Minimum working pressure

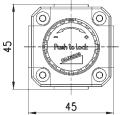


Valve with maximum adjustable pressure Mod. VMR 1/8-B10

Working pressure: 1 bar ÷ 8 bar





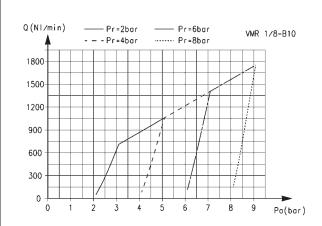




Mod.

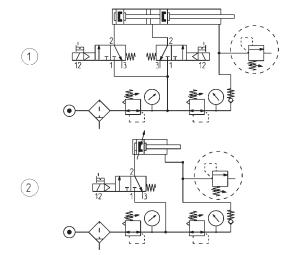
VMR 1/8-B10

## VALVE Mod. VMR 1/8-B10 - FLOW DIAGRAM and FUNCTIONING SCHEMES



FLOW DIAGRAM

Pa = Inlet pressure Pr = Regulated pressure Q = Flow



FUNCTIONING SCHEME 1: overpressure exhaust in a cylinder chamber or in a tank when the set value has been exceeded.

FUNCTIONING SCHEME 2: VMR valve with maximum adjustable pressure allows pressure in a cylinder chamber or in tank to exhaust in the atmosphere every time the set regulation value is exceeded.