Automatic valves Series SCS, VNR, VSO, VSC and VMR



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



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.

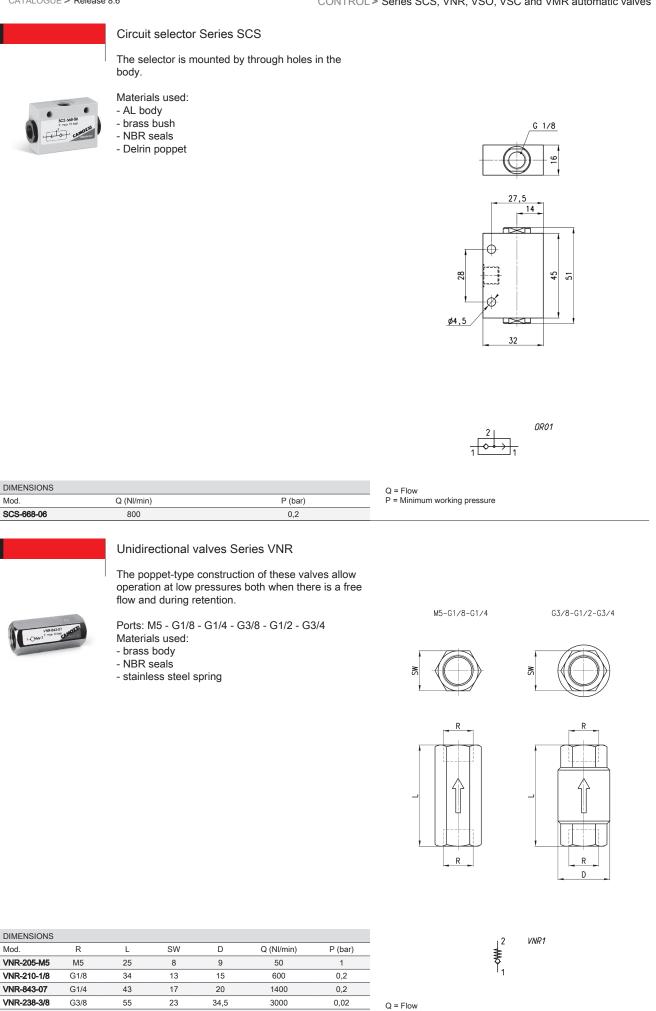
- » Mod. SCS: channelling of two signals coming alternately from two different points towards the same point
- » Series VNR: operations at low pressures
- » Series VSC VSO: able to increase the speed of cylinders
- » Series VSC VSO: depressurisation of tanks containing compressed air
- » Mod. VMR: able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

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°C ÷ 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.



2

CONTROL



Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

58,5

65

27

33

34,5

41,5

5800

8000

0,02

0,06

G1/2

G3/4

VNR-212-1/2

VNR-234-3/4

P = Minimum working pressure



VSO...-M5



Quick exhaust valves Series VSO

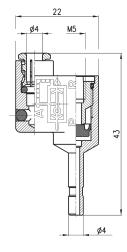
The models VSO 425 -M5 and VSO 426-04 are particularly suitable to be mounted on solenoid valves and valves incorporating a ø 4 cartridge.

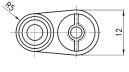
Ports: M5 or ø 4 cartridge Materials used:

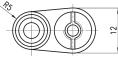
- brass body
- NBR seal

22 М5 Ø4

VS0...-04









ŝ 38,

Ø4

1	VSC 1
-	

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 Δ 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

SW SW SW



Mod.	В	D	Е	L1	L2	SW	Q (NI/min) 1 > 2	Q (Nl/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
VSC 522-1/2	1/2	43	27	57,5	39,5	24	4500	6700	0,2

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

CONTROL

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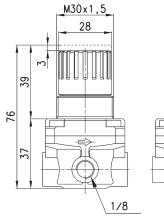
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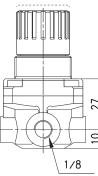


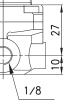
Valve with maximum adjustable pressure Mod. VMR 1/8-B10

Working pressure: 1 bar ÷ 8 bar









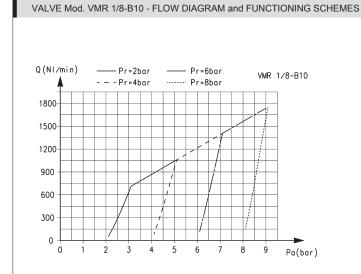
45 0 45



2

VMP1

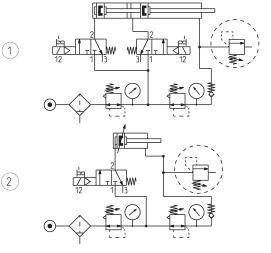
Mod. VMR 1/8-B10



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.