Check & Quick Exhaust Valves
Series SCS, VNR, VSC and VSO - BSP/METRIC

Check valves VNR
Quick exhaust valves VSC - VSO
Shuttle valve SCS
Ports M5, G1/8, G1/4, G1/2
Cartridge ø4 mm

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.

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve group</td>
<td>automatic valves</td>
</tr>
<tr>
<td>Construction</td>
<td>poppet-type</td>
</tr>
<tr>
<td>Mounting</td>
<td>in any position</td>
</tr>
<tr>
<td>Ports</td>
<td>M5 - G1/8 - G1/4 - G1/2</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>32°F - 175°F, (dry air necessary down to -4°F)</td>
</tr>
<tr>
<td>Fluid</td>
<td>filtered air</td>
</tr>
<tr>
<td>Lubricant</td>
<td>compatible with Buna-N (3° - 10° E)</td>
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</tbody>
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### PNEUMATIC DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Operating pressure</td>
<td>see single valve</td>
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</table>

The company reserves the right to vary models and dimensions without notice. These products are designed for industrial applications and are not suitable for sale to the general public.
Shuttle Valves

The shuttle valve, Mod. SCS-668-06, enables two signals coming alternately from two different points to be channelled towards the same point.
The special design ensures that there is a perfect seal between the inlets, thereby preventing distorted signals or harmful air losses.
The selector is mounted by through holes in the body.
Materials used:
- aluminium body
- OT58 (brass) bush, MG
- Buna-N seals
- Delrin poppet

Qn* = 800 Nl/min
Minimum operating pressure = 0.2 Bar
*Qn = determinated with 6 bar and DP = 1 bar

Check Valves

The unidirectional valves in the VNR Series are available with M5, 1/8 and 1/4 ports. They must be used when it is required to block a flow in one direction only. The design of these valves is of the poppet type and this feature allows operation at low pressures both when there is a free flow and during retention.
Materials used:
- OT58 (brass) body (nickel-plated body 1/4")
- Buna-N seals
- stainless steel spring

VNR-205-M5
Qn** = 150 Nl/min
Minimum operating pressure = 1 bar
*Qn = determinated with 6 bar and DP = 1 bar

VNR-210-1/8
Qn* = 600 Nl/min
Minimum operating pressure = 0.3 bar
*Qn = determinated with 6 bar and DP = 2 bar

VNR-843-07
Qn* = 1400 Nl/min
Minimum operating pressure = 0.2 bar
* Qn = determinated with 6 bar and DP = 1 bar
** Qn = determinated with 6 bar and DP = 2 bar

| DIMENSIONS |
|---|---|---|---|
| Mod. | R | L | L1 | SW |
| VNR-205-M5 | M5 | 25 | 6 | 8 |
| VNR-210-1/8 | G1/8 | 34 | 7 | 13 |
| VNR-843-07 | G1/4 | 48 | 9 | 17 |
Quick exhaust valves Series VSO

Quick exhaust valves are commonly used to increase the speed of cylinders or for rapid depressurisation of tanks containing compressed air. The models VSO 425-M5 and VSO 426-04 are specially designed for mounting on solenoid valves and valves incorporating a dia. 4 cartridge. We recommend that a silencer be mounted on the outlet.

Materials used:
- OT58 (brass) body, nickel-plated
- Buna-N seal

Nominal flowrate
from P → A Qn = ~ 50 Nl/min.
from A → R Qn = ~ 100 Nl/min.
Qn* = determined with 6 bar and DP = 1 bar
Minimum operating pressure = 1 bar

Quick exhaust valves Series VSC

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

We recommend that a silencer be mounted on the outlet.

Materials used:
- OT58 (brass) body (nickel-plated)
- Desmopan seal (Polyurethane)

VSC 588-1/8 Qn = P → A 650 Nl/min
A → R 1000 Nl/min
Minimum operating pressure = 0.5 bar
VSC 544-1/4 Qn = P → A 1100 Nl/min
A → R 1900 Nl/min
Minimum operating pressure = 0.3 bar
VSC 522 1/2 Qn = P → A 4500 Nl/min
A → R 6300 Nl/min
Minimum operating pressure = 0.2 bar
Qn* = determined with 6 bar and DP = 1 bar

| DIMENSIONS (MM) |
|-----------------|-----|-----|-----|-----|-----|
| Mod.            | B   | D   | L1  | L2  | SW  | (SDFM) QN P → A | (SDFM) QN A → R |
| VSC 588 - 1/8   | 61/8| 28  | 36.5| 25  | 14  | 650             | 1000            |
| VSC 544 - 1/4   | 61/4| 33  | 42  | 28.5| 17  | 1100            | 1900            |
| VSC 522 - 1/2   | 61/2| 43  | 57.5| 39.5| 24  | 4500            | 6300            |

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