


 $C_v = .16 - 1.47$ 

## Series VNR Check Valves

 $C_v = .16 - 1.47$ 

Check Valves VNR

Ports M5 (10-32 UNF), 1/8", 1/4"



### TECHNICAL SPECIFICATIONS

Construction	Poppet type
Mounting	In-line
Materials	Nickel-plated brass body, Brass body, Buna-N seals, Polyurethane seals, Stainless steel spring
Port sizes	M5 (10-32 UNF), 1/8", 1/4", 3/8", 1/2" NPTF;
Installation	In-line
Operating temperature	32°F - 175°F, (dry air necessary down to - 4° F)
Fluid	Filtered air
Lubricant	Oil compatible with Buna-N, (3° - 10° E)

### PNEUMATIC DATA

Operating pressure	0.2 - 10 bar (3 - 145 psi)
Nominal pressure	6 bar (87 psi)
Nominal flow	*Qn Series VNR: M5 = 150NL/Min. (5.3 SCFM); 1/8" = 600 NL/min. (21.18 SCFM) 1/4" = 1400 NL/min. (49.44 SCFM)
Lubricant	not required
Cv	M5 = .16; 1/8" = .63; 1/4" = 1.47

\*Qn flowrate (SCFM) determined with a supply pressure of 6 bar, (87 psi), and with a pressure drop of 1 bar, (14.5 psi).

\*\*\*Dimensions are in millimeters.

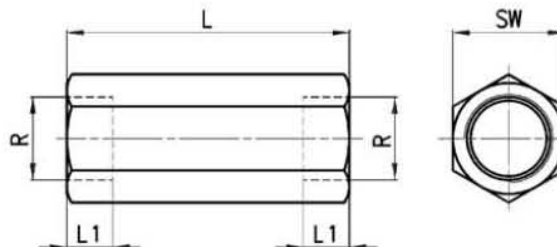


## Check Valves

The check valves in the VNR Series are available with M5 (10-32 UNF), 1/8" and 1/4" ports. They must be used when it is required to intercept 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 (1/4")
- Buna-N seals
- stainless steel spring
- internals brass



### VNR-205-M5

Qn\*\* = 150 NL/min Minimum operating pressure = 1 bar (14.5 psi)

### VNR-210-02

Qn\* = 600 NL/min Minimum operating pressure = 0.3 bar (4.3 psi)

### VNR-843-07TF

Qn\* = 1400 NL/min Minimum operating pressure = 0.2 bar (2.9 psi)

\* Qn = determined with 6 bar and Dp = 1 bar

\*\* Qn = determined with 6 bar and Dp = 2 bar



## DIMENSIONS

Mod.	R	L	L1	SW
<b>VNR-205-M5</b>	10-32 UNF	25	6	8
<b>VNR-210-02</b>	1/8"	34	7	13
<b>VNR-843-07TF</b>	1/4"	48	9	17

**3**
**AIR PILOT VALVES**