

UNIDIRECTIONAL VALVES

SERIES VNR

Ports of Thread version: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1
 Dimensions of Tube/Tube version: Ø4, Ø6, Ø8, Ø10, Ø12



- In-line mounting thanks to integrated fittings
- Low operating pressures
- Robust design, brass body
- Version 6580 and 6510 in FKM with a wide range of chemical compatibility and operating temperatures extended
- Version for use with oxygen available

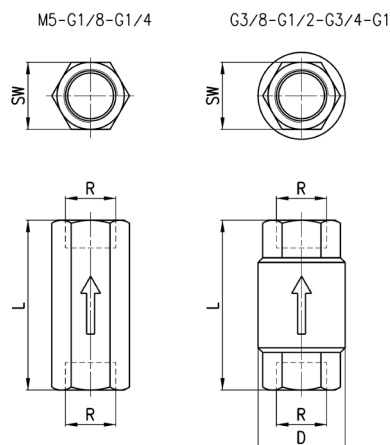
Series VNR unidirectional valves are available in the Thread or Integrated Fitting version. Thanks to their construction they operate at low pressures.

General Data

Valve group	Automatic valves
Construction	Poppet-type
Materials	Brass body stainless steel spring NBR/FKM seals (for version 6580)
Mounting	In any position
Dimensions thread version	M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1
Dimensions tube version	Ø 4, 6, 8 mm
Operating temperature	0 °C ÷ 80 °C; NBR (with dry air -20 / +80 °C) FKM (with dry air - 20 / +200 °C)
Medium	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.

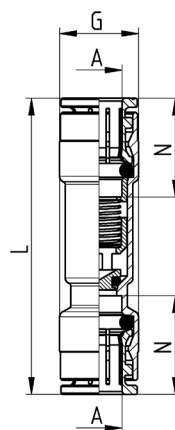
UNIDIRECTIONAL VALVES
SERIES VNR - DIMENSIONS

Series VNR unidirectional valves



Mod.	R	L	SW	D	Flow 6 bar $\Delta P1$ [Nl/min]	Min. operating pressure [bar]	Max. operating pressure [bar]
VNR-205-M5	M5	25	8	9	50	1	10
VNR-210-1/8	G1/8	34	13	15	600	0,2	10
VNR-843-07	G1/4	43	17	20	1400	0,2	10
VNR-238-3/8	G3/8	55	23	34,5	3000	0,02	25
VNR-212-1/2	G1/2	58,5	27	34,5	5800	0,02	25
VNR-234-3/4	G3/4	65	33	41,5	8000	0,06	25
VNR-201-01	G1	74,5	40	48	13000	0,06	25

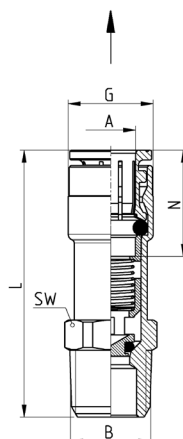
Series VNR unidirectional valves



Mod.	A	Dimensions	L	N	Flow 6 bar $\Delta P1$ [Nl/min]	Min. operating pressure [bar]	Max. operating pressure [bar]	Weight [g]
6580 4-VNR	4	9	40	14	85	0,5	10	13
6580 6-VNR	6	12	48	16	450	0,2	10	20
6580 8-VNR	8	14	52,5	17,5	900	0,2	10	30
6580 10-VNR	10	16,5	60	20,2	1500	0,2	10	40
6580 12-VNR	12	19	60	19	2000	0,2	10	50
6580 4-VNR-OX1*	4	9	40	14	85	0,2	10	13
6580 6-VNR-OX1*	6	12	48	16	400	0,2	10	20
6580 8-VNR-OX1*	8	14	52,5	17,5	850	0,2	10	30
6580 10-VNR-OX1*	10	16,5	60	20,2	1500	0,2	10	40
6580 12-VNR-OX1*	12	19	60	19	2000	0,2	10	50

* OX1 = for oxygen (non-volatile residue less than 550 mg/m³).

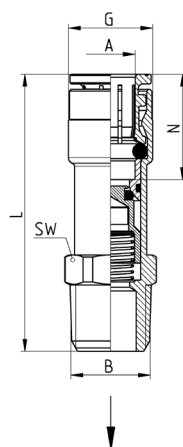
Series VNR unidirectional valves



Mod.	A	B	G	L	N	SW	Flow 6 bar ΔP1 [Nl/min]	Min. operating pressure [bar]	Max. operating pressure [bar]	Weight [g]
VNR60 4-M5	4	M5	9	275	12	10	85	0,2	10	13
VNR60 6-1/8	6	R1/8	12	375	16	12	450	0,2	10	18
VNR60 6-1/4	6	R1/4	12	41	16	14	450	0,2	10	22
VNR60 8-1/8	8	R1/8	14	405	175	14	900	0,2	10	23
VNR60 8-1/4	8	R1/4	14	44	175	14	900	0,2	10	25
VNR60 4-M5-OX1*	4	M5	9	275	12	10	85	0,2	10	13
VNR60 6-1/8-OX1*	6	R1/8	12	375	16	12	450	0,2	10	18
VNR60 6-1/4-OX1*	6	R1/4	12	41	16	14	450	0,2	10	22
VNR60 8-1/8-OX1*	8	R1/8	14	405	175	14	900	0,2	10	23
VNR60 8-1/4-OX1*	8	R1/4	14	44	175	14	900	0,2	10	25

* OX1 = for oxygen (non-volatile residue less than 550 mg/m³).

Series VNR unidirectional valves



Mod.	A	B	G	L	N	SW	Flow 6 bar ΔP1 [Nl/min]	Min. operating pressure [bar]	Max. operating pressure [bar]	Weight [g]
VNR60 M5-4	4	M5	9	295	12	10	85	0,2	10	14
VNR60 1/8-6	6	R1/8	12	395	16	12	450	0,2	10	19
VNR60 1/4-6	6	R1/4	12	43	16	14	450	0,2	10	23
VNR60 1/8-8	8	R1/8	14	425	175	14	900	0,2	10	24
VNR60 1/4-8	8	R1/4	14	46	175	14	900	0,2	10	26
VNR60 M5-4-OX1*	4	M5	9	295	12	10	85	0,2	10	14
VNR60 1/8-6-OX1*	6	R1/8	12	395	16	12	450	0,2	10	19
VNR60 1/4-6-OX1*	6	R1/4	12	43	16	14	450	0,2	10	23
VNR60 8-1/8-OX1*	8	R1/8	14	425	175	14	900	0,2	10	24
VNR60 1/4-8-OX1*	8	R1/4	14	46	175	14	900	0,2	10	26

* OX1 = for oxygen (non-volatile residue less than 550 mg/m³).