→ Series 9160

9160

Pressure reducing valves with threaded connection

SUITABLE FOR

Potable water cold	up to 40°C
Potable water hot	up to 60°C

EXAMPLES OF USE

Protection of water-bearing devices, machines and water supply systems in single-family and multi-family homes against excessive supply pressure. Use of pressure reducers, if a constant supply pressure is required in the system.

- Protection against overpressure
- Increasing comfort and reducing water consumption

- Coffee machines
- Water dispensers, soft drink dispensers
- Drinking water supply systems Apartment & single-family house

FEATURES

- Compact design, ideal for tight spaces in machines
- Adjustment scale for setting without pressure gauge / operating pressure
- Internal and external thread connection (DN15+DN20)
- Filter screen with mesh size 350µm

MATERIAL

SPECIFICATION

3/8“ - 3/4“

+5°C to 60°C

Inlet pressure:
up to 16 bar
Outlet pressure:
1 - 6 bar

APPROVALS

DIN-DVGW type examination

DVGW Hygiene

Type approval WRAS

Type approval ACS

FDA | All materials in contact with the medium are FDA compliant

Requirements

DIN EN 1567
DIN 4109
UBA BWGL for metallic materials
DVGW W270
Elastomere guideline
KTW guideline

MATERIALS

Component	Material	DIN EN
Body	dezincification-resistant brass	CC770S
Valve insert	Plastic | Stainless steel | Elastomere	POM / 1.4301 / EPDM
Filter screen	Stainless Steel	1.4301
Spring housing	Plastic	PA Glass fibre reinforced
O-rings	Elastomere	EPDM
Plugd	Plastic	PA Glass fibre reinforced

Series 9160 ■ VALVE VERSION

m	with diaphragm	High-quality, heat-resistant moulded elastomer membrane with fabric reinforced.	

■ MEDIUM

f	liquid	For drinking water. Not suitable for steam. Other media on request.	

■ TYPE OF LIFTING MECHANISM

0	without lifting device		

■ OUTLET PRESSURE RANGES

SP	Standard version	Inlet pressure: up to 16 bar (PN 16)	Outlet pressure: 1 to 6 bar

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	**8**	**15**	**20**
Inlet	3/8“ (10)	1/2“ (15)	3/4“ (20)
Outlet	3/8“ (10)	1/2“ (15)	3/4“ (20)

■ TYPE OF CONNECTION INLET / OUTLET FLANGE CONNECTIONS

mf / mf	Standard DN 15 + DN 20	Version with internal and external thread	DIN EN ISO 228-1 / DIN EN ISO 228-1
f / f	Standard DN 8	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
m/m	Standard DN 8	Male thread BSP-P / Male thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
BSP-Tm / BSP-Tm	On request	Male thread BSP-T / Male thread BSP-T	DIN EN 10226 / DIN EN 10226

■ SEALS

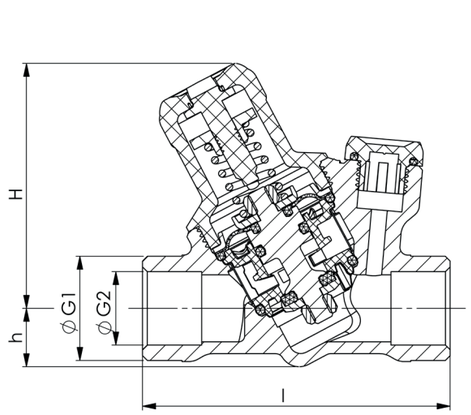
EPDM	Ethylene propylene diene	Elastomere moulded diaphragm and seals approvals according to drinking water directive

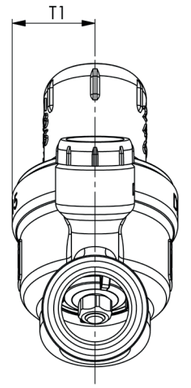
■ NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

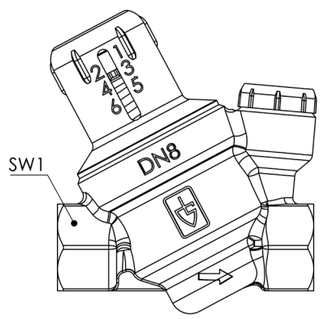
Series 9160: Connection, installation dimensions, ranges of adjustment					
Nominal diameter	**DN**	**8 f/f**	**8 m/m**	**15**	**20**
Connection body DIN EN ISO 228-1	**G1**	-	G 3/8"	G 3/4"	G 1"
Connection body	**G2**	G 3/8"	-	G 1/2"	G 3/4"
Inlet pressure	**bar**	max. 16	max. 16	max. 16	max. 16
Operating temperature	**°C**	60	60	60	60
Outlet pressure range SP	**bar**	1 - 6	1 - 6	1 - 6	1 - 6
Installation dimensions in mm	**l**	65	80	78	86
	L*	-	-	138	156
	H	60	60	62	62
	h	17	17	15	17
	T1	21	21	21	21
	SW1	22	-	-	-
Pressure gauge connection DIN ISO228-1	**G3**	1/4" radial	1/4" radial	1/4" radial	1/4" radial
Weight	**Kg**	0,29	0,29	0,31	0,35
Coefficient of flow Kvs	**m³/h**	1,9	1,9	2,3	2,5

*Threaded grommets are not included in the scope of delivery. Available as accessories.

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS







Version 2025 / 11

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Series 9160 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Outlet pressure	Nominal diameter DN	Connection type		Connection size		Seal	Options	Optional: fixed setting	Quantity
						Inlet	Outlet	Inlet	Outlet				
9160	**m**	**F**	**0**	*SP*	*8*	**f**	**f**	*10*	*10*	*EPDM*			
9160	**m**	**F**	**0**	*SP*	*15*	**mf**	**mf**	*15*	*15*	*EPDM*			
9160	**m**	**F**	**0**	*SP*	*20*	**mf**	**mf**	*20*	*20*	*EPDM*			
9160													

■ PROPERTIES, VARIANTS, SUPPLEMENTS

S17	Supply with manometers 0-10 bar with PTFE Ring	☐
A31	Supplied with connector John Guest 8mm	☐
A31-1	Supplied with connector John Guest 8mm and Manometer 0-10 bar with PTFE Ring	☐
A32	with integrated backflow preventer Typ EA	☐
A32-1	with integrated backflow preventer Typ EA and connector John Guest 8mm	☐
A32-2	with integrated backflow preventer Typ EA, connector John Guest 8mm and manometer 0-10 bar with PTFE Ring	☐
A32-3	with integrated backflow preventer Typ EA and manometer 0-10 bar with PTFE Ring	☐

■ APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐
C05-1	Manufacturer certificates FDA	☐

■ ADMISSIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	☒
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	☐
AB1	Deutscher Verein des Gas- und Wasserfaches, DVGW type approval	☐
AB2	Water regulations and advisory scheme WRAS type approval	☐
AB3	Attestation de Conformité Sanitaire, ACS type approval	☐

■ ENQUIRY

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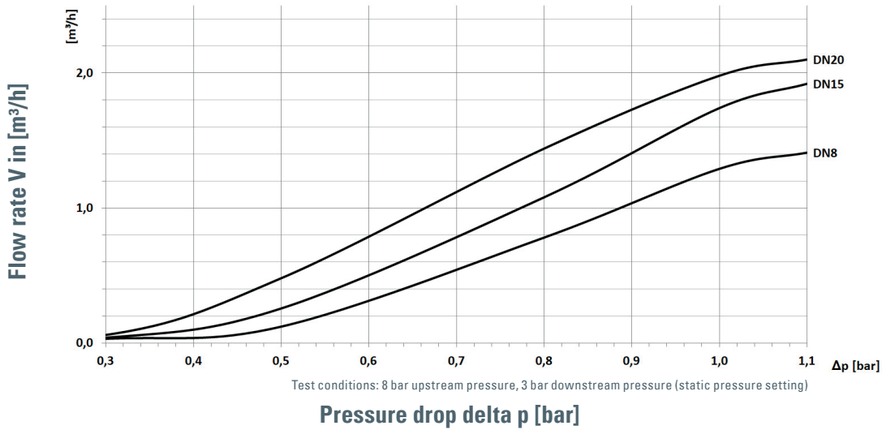
■ CAPACITY CHARTS

Series 9160:

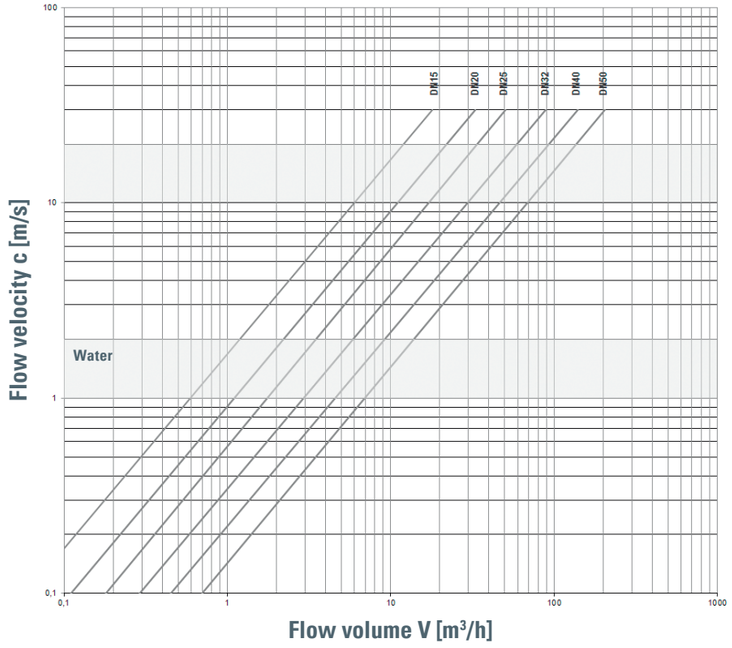
Dimensioning by pressure loss on the outlet pressure side

Flow chart water



Test conditions: 8 bar upstream pressure, 3 bar downstream pressure (static pressure setting)

Pressure drop delta p [bar]

Dimensioning by flow velocity

For liquids:
With help of the chart you can determine the nominal diameter (DN) for a given flow volume V (m³/h). According to DVGW-guidelines (DIN 1988) a flow velocity of 2 m/s in domestic water supply systems should not be exceeded.