→ Series 9000

9000

Pressure reducing valves made of lead-free gunmetal with threaded connections

SUITABLE FOR

Potable water cold	up to 40°C
Potable hot water	up to 85°C

EXAMPLES OF USE

Protection of water supply systems in single-family homes, apartment buildings, commercial and industrial buildings or machines against excessive supply pressure. Usage of pressure reducing valves when a constant supply pressure is required in the system.

- Protection against overpressure
- Increase of comfort and reduction of water consumption

- Drinking water supply systems
- Service water supply in industrial and building services engineering
- Machines / plants connected to the drinking water network
- Irrigation technology / Cattle fattening

FEATURES

- First class flow rate and pressure control
- Filter screen with 160µm mesh - protection of the system with easy cleaning and contamination detection with clear filter cup
- Housing made of lead-free gunmetal - ready for the drinking water supply of the future
- High-quality plastic from medical technology sector
- Adjustment scale visible from two angles for adjustment without pressure gauge / operating pressure

APPROVALS

DIN-DVGW type test approval (up to 80°C)

Type approval ACS

Type approval PZH

TR ZU 032/2013 - TR ZU 010/2011

WRAS

Type approval SVGW

Type approval ÜA (R-15.2.4-21-17231 Land Salzburg)

FDA | All materials in contact with media are FDA conform

Noise protection class P-IX 7444/I for DN15,20 and 25, P-IX 7445/II for DN32

Requirements

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

Classification society

American Bureau of Shipping	ABS
Registro Italiano Navale	RINA

MATERIAL

LEAD FREE

SPECIFICATION

1/2" – 2"

+5°C to +85°C

Inlet pressure:
up to 16 bar / 25 bar
Outlet pressure:
0,5 - 12 bar

MATERIALS

Component	Material	DIN EN
Body	Gunmetal lead-free	CuSn4Zn2PS
Valve insert	Plastic | Stainless steel | Elastomere	PPSU | 1.4404 | EPDM
Filter cup	Plastic or lead-free gunmetal	PA
Filter screen	Plastic | Stainless steel	POM | 1.4401
Spring housing	Plastic	PA Glass fibre reinforced
O-rings	Elastomere	EPDM
Plugd	Plastic	PA Glass fibre reinforced

Serie 9000 ■ VALVE VERSION

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

■ MEDIUM

F	liquid	for drinking water. Not suitable for steam. Other medium on request.

■ TYPE OF LIFTING MECHANISM

0	without lifting device

■ OUTLET PRESSURE RANGES

SP	Standard version	Inlet pressure: up to 16 bar / 25 bar	Outlet pressure: from 1,5 to 7 bar
HP	High-pressure version	Inlet pressure: up to 16 bar / 25 bar	Outlet pressure: from 3 to 12 bar
LP	Low-pressure version	Inlet pressure: up to 16 bar / 25 bar	Outlet pressure: from 0,5 to 3 bar

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	**15**	**20**	**25**	**32**	**40**	**50**
Inlet	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)	1 1/2“ (40)	2“ (50)
Outlet	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)	1 1/2“ (40)	2“ (50)

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

BSP-Tm / BSP-Tm	Standard threaded male connection	Male thread BSP-T / Male thread BSP-T	DIN EN 10226 / DIN EN 10226
Threaded connection hose nozzle	on request	according to customer configuration	
Bulkhead fitting with push-in connection	on request	according to customer configuration	

■ NOMINAL PRESSURE RATING PN

PN16	nominal pressure rating PN16, maximum inlet pressure 16 bar	version with filter cup made of plastic	operating temperature 40°C
PN25	nominal pressure rating PN25, maximum inlet pressure 25 bar	version with filter cup made of lead-free gunmetal	operating temperature 85°C

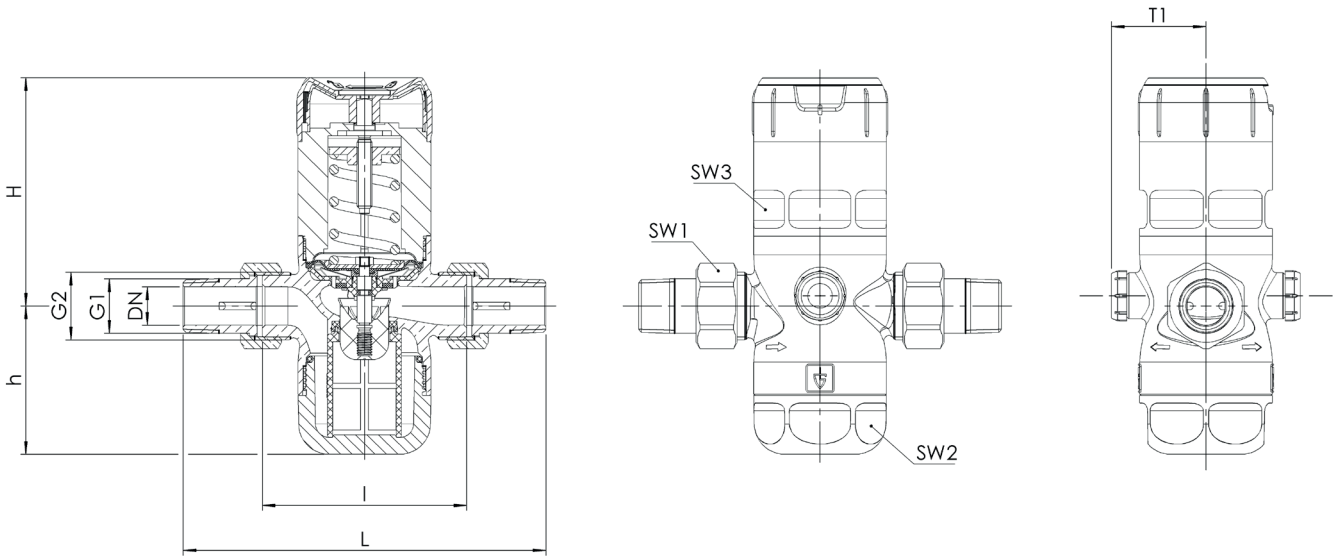
■ SEALS

EPDM	Ethylene propylene diene	Elastomere moulded diaphragm and seals

Series 9000: Connection, installation dimensions, ranges of adjustment							
Nominal diameter	DN	15	20	25	32	40	50
Threaded nozzle connection DIN EN 10226-1	G1	R 1/2"	R 3/4"	R 1"	R 1 1/4"	R 1 1/2"	R 2"
Connection body DIN ISO 228-1	G2	G 3/4"	G 1"	G 1 1/4"	G 1 1/2"	G 2"	G 2 1/2"
Inlet pressure filter cup made of plastic	bar	max. 16	max. 16	max. 16	max. 16	max. 16	max. 16
Inlet pressure filter cup made of lead-free gunmetal	bar	max. 25	max. 25	max. 25	max. 25	max. 25	max. 25
Operating temperature filter cup made of plastic	°C	40	40	40	40	40	40
Operating temperature filter cup made of lead-free gunmetal	°C	85	85	85	85	85	85
Outlet pressure range SP / presetting 3 bar	bar	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7
Outlet pressure range HP / presetting 5 bar	bar	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12
Outlet pressure range LP / presetting 1 bar	bar	0,5 - 3	0,5 - 3	0,5 - 3	0,5 - 3	0,5 - 3	0,5 - 3
Installation dimensions in mm	L	136	152	170	191	220	254
	l	80	90	100	105	130	140
	H	89	89	111	111	151	151
	h	58	58	64	64	94	94
	T1	37	37	46	46	50	50
	SW1	30	37	46	52	65	80
	SW2	46	46	66	66	75	75
	SW3	46	46	65	65	75	75
	G3	1/4“ axial	1/4“ axial	1/4“ axial	1/4“ axial	1/4“ axial	1/4“ axial
Weight	kg	0,8	0,9	1,7	1,9	3,9	4,5
Coefficient of flow Kvs	m³/h	3,4	4,4	9,3	10,5	19,5	20,5

Installation dimensions without threaded connection like series 681 and D06F.

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



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Series 9000 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Outlet pressure range	Nominal diameter DN	Connection type		Connection size		PN	Options	Seal	Quantity
						Inlet	Outlet	Inlet	Outlet				
9000	m	F	0	*SP*	*20*	*BSP-T m*	*BSP-T m*	*20*	*20*	*PN16*	*S111*	*EPDM*	*8*
9000	m	F	0	*SP*	*15*	*BSP-T m*	*BSP-T m*	*15*	*15*	*PN16*		*EPDM*	*4*
9000	m	F	0										
9000	m	F	0										

■ PROPERTIES

S17	Supply with manometers: plastic housing, brass connection thread, max. operating temperature 60°C (SP: 0- 10 bar | LP: 0 – 4 bar | HP: 0 – 25 bar)	☐
S20	Supply without threaded connections	☐
S111	Supply with threaded connections lead-free	☐

■ CERTIFICATES / 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)	☐

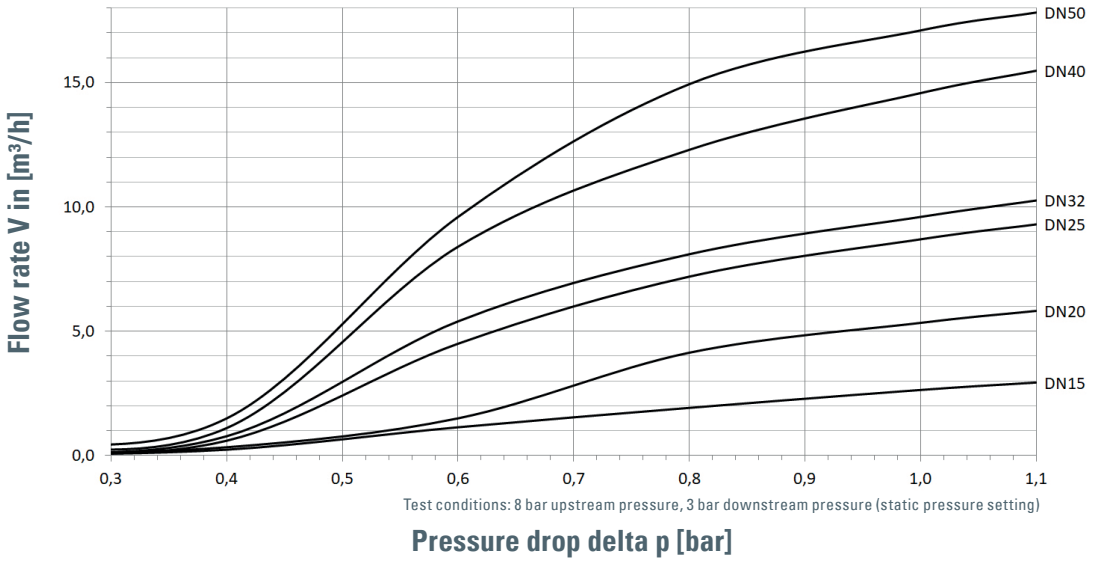
■ ADMISSIONS / ACCREDITATIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	☒	**AB3**	Attestation de Conformité Sanitaire, ACS type approval	☐
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	☐	**AB5**	Schweizerischer Verein des Gas- and Wasserfaches - type approval	☐
AB1	Deutscher Verein des Gas- and Wasserfaches, DVGW type approval	☐	**AK3**	American Bureau of Shipping (ABS) type approval	☐
AB2	Water regulations and advisory scheme WRAS type approval	☐	**AK6**	Registro Italiano Navale (RINA) type approval	☐
		☐			☐

Series 9000:

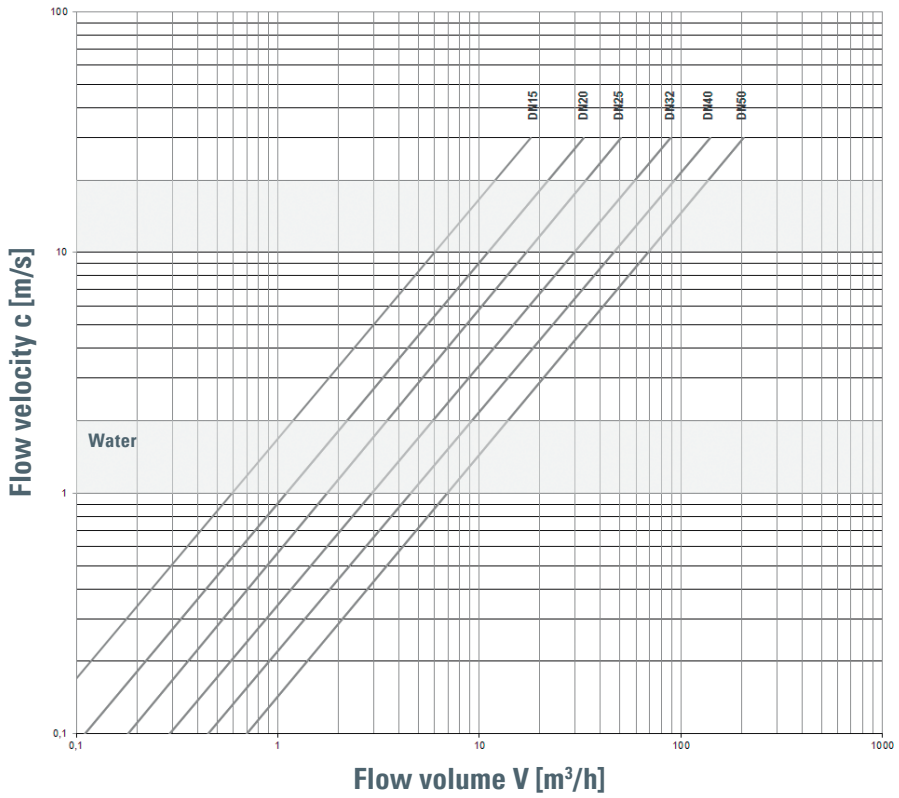
Dimensioning by pressure loss on the outlet pressure side

Flow chart water



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.



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