

→ Series 382

382

Pressure reducing valves
made of polyamide-coated
graphite cast iron with
flanged connections



■ MATERIAL



■ SPECIFICATION



DN50 to DN125



+ 5°C to + 65°C



Inlet pressure:
up to 25 bar
Outlet pressure:
0,5 to 12 bar
depending on version

■ SUITABLE FOR

Potable water cold



Potable water warm



■ EXAMPLES OF USE

Protection of supply networks, water supply systems in apartment buildings, commercial and industrial buildings or machines against excessive supply pressure. Use of pressure reducers when a constant supply pressure is required in the system.

- Protection against excess pressure
- Increasing comfort and reducing water consumption
- Drinking water supply systems
- Service water supply in industrial and building services engineering
- Machines / systems with connection to the drinking water network

■ FEATURES

- Upstream pressure-balanced diaphragm pressure reducer, constant downstream pressure even with highly fluctuating upstream pressures
- First-class flow performance and pressure control
- also regulates low flow rates, no bypass necessary
- High-quality, vortex-sintered polyamide coating provides excellent, long-lasting corrosion protection and cavitation resistance
- Simple adjustment using a spanner
- Adjustment dial for setting without operating pressure; bonnet can be positionable
- Valve insert as cartridge for quick and easy maintenance
- incl. flange gaskets made of EPDM with steel core (3mm) according to EN1514 (Approvals: Elastomer Guideline (W270, WRAS, ACS and FDA), temperature range -40 – 110°C) & pressure gauges on inlet and outlet side
- incl. 2x glycerine-filled Pressure gauges with stainless steel housing
- Lead-free in the contact area with drinking water
- Weight-optimised design

■ APPROVALS

UBA Conformity Confirmation Hygiene | pending

DIN-DVGW type examination (up to 30°C)

Type approval ACS

Type approval WRAS (up to 60°C)

TR ZU 032/2013 - TR ZU 010/2011 | pending

Classification society

DIN EN 1567

UBA BWGL for metallic materials

KTW-BWGL

■ MATERIALS

Component	Material	DIN EN
Body	Spheroidal graphite cast iron	0.7043
Coating	Polyamide	Polyamide
Valve insert	Stainless steel / Rubber	1.4404/1.4408 EPDM
Seal	Rubber	EPDM
Plug	Plastic	PA Glass fibre reinforced



Series 382 ■ VALVE VERSION

m	with diaphragm	High-quality, heat-resistant moulded elastomere, fabric-reinforced diaphragm. Pressure adjustment by means of non-rising spindle.
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■ MEDIUM

F	liquid	for drinking water. Other medium on request.
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■ TYPE OF LIFTING MECHANISM

0	without lifting device
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■ OUTLET PRESSURE RANGES

SP	Standard version	Inlet pressure: up to 16 bar (PN 16) or 25 bar (PN 25, for DN50 - DN125)	Outlet pressure: from 1,5 to 7 bar
HP	High-pressure version (from DN 50 to DN 125)	Inlet pressure: up to 16 bar (PN 16) or 25 bar (PN 25)	Outlet pressure: from 3 to 12 bar
LP	Low-pressure version (from DN 50 to DN 125)	Inlet pressure: up to 8 bar (PN 16)	Outlet pressure: from 0,5 to 3 bar

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN	50	65	80	100	125	150	200
Inlet / Outlet	50/50	65/65	80/80	100/100	125/125	150/150	200/200
	■	■	■	■	■	■	■

■ TYPE OF CONNECTION INLET / OUTLET FLANGE CONNECTIONS

FCD2A / FCD2A	Flange connection DIN EN 1092-2 PN16 sealing strip form B / Flange connection DIN EN 1092-2 PN16 sealing strip form B
FCD3A / FCD3A	Flange connection DIN EN 1092-2 PN25 sealing strip form B / Flange connection DIN EN 1092-2 PN25 sealing strip form B

■ SEALS

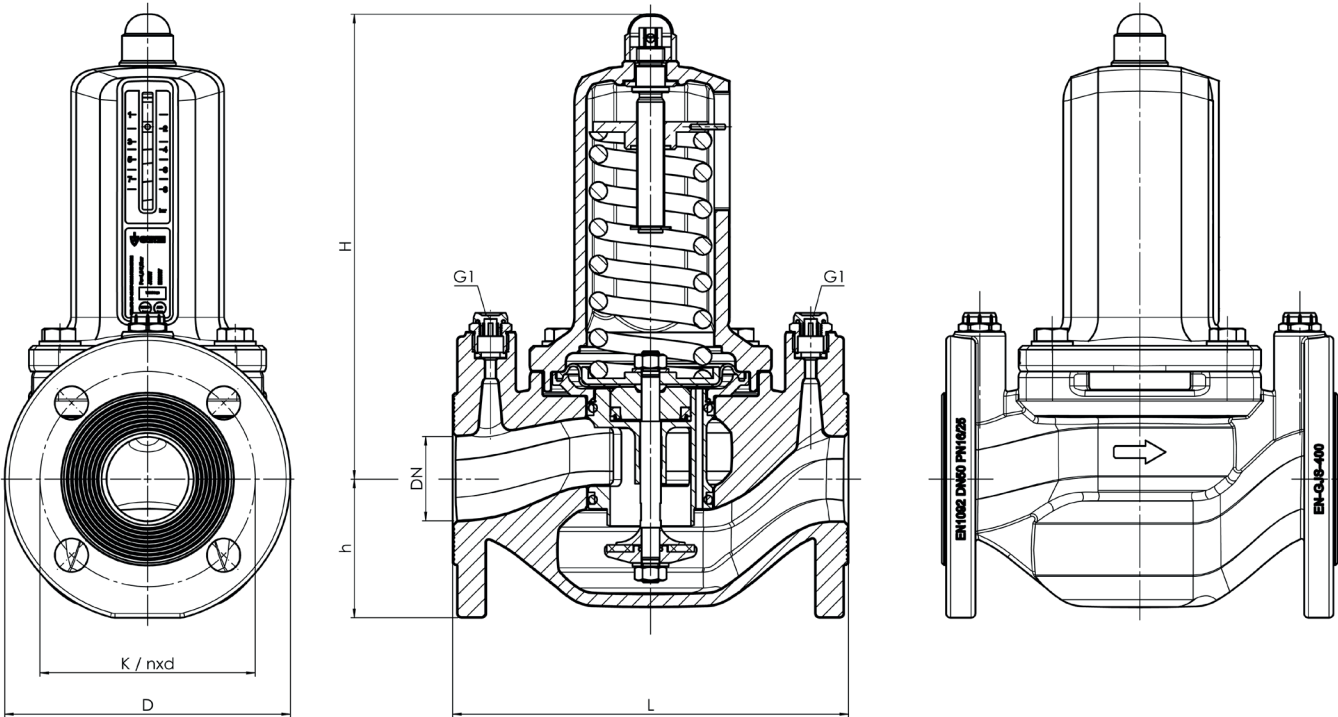
EPDM	Ethylene propylene diene	Elastomer moulded diaphragms and seals Approvals according to UBA KTW-BWGL
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Series 382: Connection, installation dimensions, ranges of adjustment													
Nominal diameter	DN	50		65		80		100		125		150	200
Pressure rating	PN	PN16	PN25	PN16	PN25	PN16	PN25	PN16	PN25	PN16	PN25	PN16	PN16
Inlet pressure	bar	16	25	16	25	16	25	16	25	16	25		
Outlet pressure SP	bar	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7	1,5 - 7		
Outlet pressure HP	bar	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12	3 - 12		
Outlet pressure LP	bar	0,5 - 3	-	0,5 - 3	-	0,5 - 3	-	0,5 - 3	-	0,5 - 3	-		
Installation dimensions in mm	L	230	230	290	290	310	310	350	350	400	400		
	H	270	270	260	260	285	285	275	275	275	275		
	h	83	83	93	93	100	100	110	113	120	130		
	D	165	165	185	185	200	200	220	235	250	270		
	K / nxd	125 / 4x19	125 / 4x19	145 / 4x19	145 / 8x19	160 / 8x19	160 / 8x19	180 / 8x19	190 / 8x23	210 / 8x19	220 / 8x28		
Pressure gauge connection DIN ISO228-1	G1	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"		
Weight	Kg	18	18	19	19	24	24	27	28	32	33		
Coefficient of flow Kvs	m³/h	24	24	26	26	42	42	57	57	63	63		

in development

in development

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS



Series 382 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Outlet pressure	Nominal diameter DN	Connection type		Connection size		Options	Seal	Quantity
						Inlet	Outlet	Inlet	Outlet			
382	m	F	0	HP	50	FCD2A	FCD2A	50	50		EPDM	5
382	m	F	0	SP	100	FCD3A	FCD3A	100	100		EPDM	2
382		F	0									

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐	C05	Sealing material Manufacturer certification (FDA, USP 3, 3-A,...), Please indicate description of certificate:	☐
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	☐	C06	ATEX evaluation acc. to 2014/34/EU	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐			☐

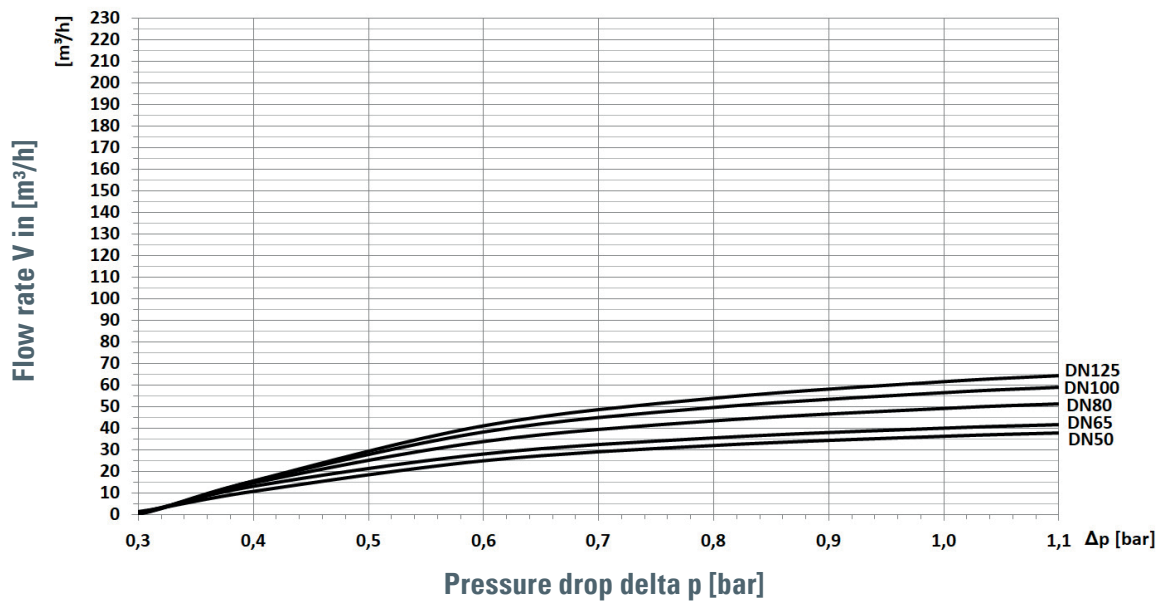
■ ADMISSIONS / ACCREDITATIONS

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	☐		☐

Series 382

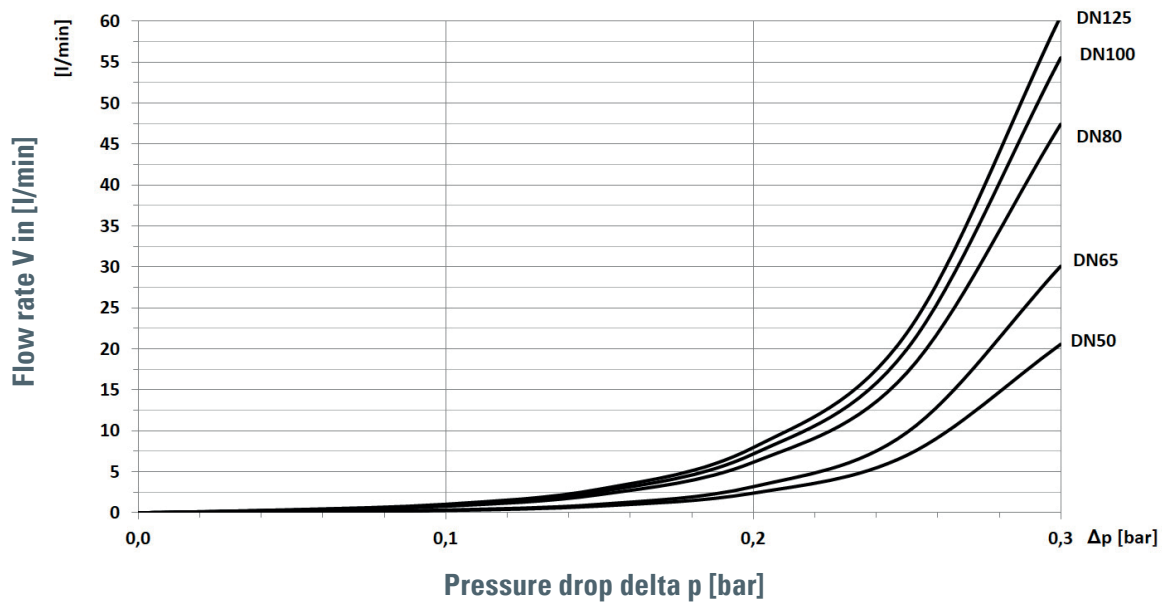
Dimensioning by pressure loss on the outlet pressure side

Flow chart water



Control characteristics in the low flow range

Flow chart water



Series 382

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.

Actual cubic meters are based on the prevailing pressure of the medium on the outlet side of the pressure reducer.

