ART 678 Gunmetal Pressure Reducing Valve





WRA

Maximum Inlet pressure: 16 Bar Outlet pressure: 1.5 - 7.0 Bar

Other Outlet Pressures Available

It is recommended that a reduction ratio no greater than 5:1 is achieved to

+5°C to +85°C

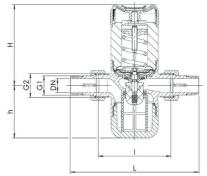
Low Pressure: 0.5 - 3.0 Bar High Pressure: 3.0 - 12.0 Bar

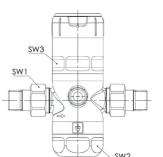
Working temp: EPDM Seal

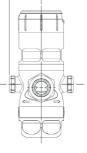
avoid the risk of cavitation.

Technical data Standard Version Features

- Standard threaded connections:
 - Male thread BSPT (ISO 7/1)
- Suitable for liquids
- BS EN 1567, ISO 3822, PED 2014/68/EU, PESR 2016
- Test certificate to EN10204-3.1 available on request
- Also available in Stainless Steel ART 478







Τ1

Connection	DN	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Inlet pressure SP	bar	16	16	16	16	16	16
Outlet pressure SP	bar	1.5 - 7.0	1.5 - 7.0	1.5 - 7.0	1.5 - 7.0	1.5 - 7.0	1.5 - 7.0
Installation dimensions	L	136	152	170	191	220	254
in mm	1	80	90	100	105	130	140
	Н	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
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

V1. Dimensions in mm

Pg. 1/4

This data sheet is designed as a guide and should not be regarded as wholly accurate in every detail. We reserve the right to amend the specification of any product without notice.

ART 678



Part Name	Materials
Body	Gunmetal
Valve Insert	Plastic + EPDM
Filter Cup	Plastic
Filter Screen	Plastic
Spring Housing	Plastic PA Glass Fibre Reinforced
O-Rings	EPDM
Plugs	Plastic PA Glass Fibre Reinforced

Typical Applications

- Potable water supply
- Process water supply in industrial and building technology
- Machines / plants connected to the drinking water network
- Irrigation technology

Valve version

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

Complete valve insert SP/HP (order code: 679 Insert-DN..-seal) available as replacement part can be exchanged without removing the valve.

Complete valve insert LP (order code: 679 LP Insert-DN..-seal) available as replacement part can be exchanged without removing the valve.

Built-in filter screen with 160µm mesh and made of stainless steel.

Medium

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

Type of lifting mechanism

O Without lifting device

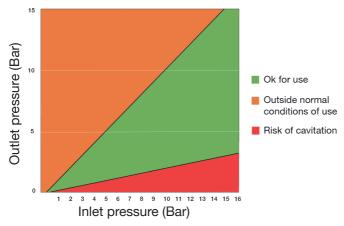
Outlet pressure ranges

SP	Standard version	Inlet pressure: 16 Bar	Outlet pressure: from 1.5 to 7.0 bar
HP	High-pressure version	Inlet pressure: 16 Bar	Outlet pressure: from 3.0 to 12.0 bar
LP	Low-pressure version	Inlet pressure: 16 Bar	Outlet pressure: from 0.5 to 3.0 bar



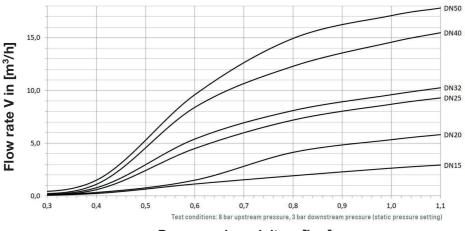


Cavitation Chart



Capacity Charts

Dimensioning by pressure loss on the outlet pressure side Flow chart water



Pressure drop delta p [bar]

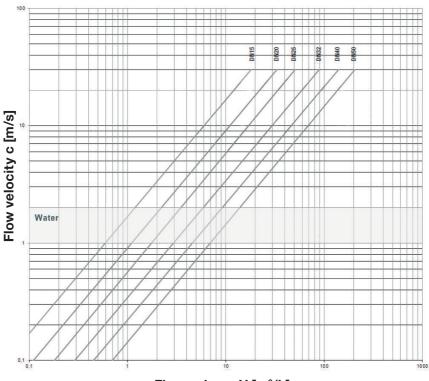
Dimensioning by flow velocity.

For liquids:

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

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Flow volume V [m³/h]