



DZR Pressure Reducing Valve PN25 FIG.VA1072

Specification

- ✓ Direct Acting Piston Type
- ✓ Pressure Compensation System
- ✓ DZR Brass Body
- ✓ Stainless Steel Seat
- ✓ NBR/ EPDM Sealing Elements
- ✓ WRAS Approved Product

Features & Benefits

- ✓ Maintains constant downstream pressure
- ✓ Adjustable outlet pressure from 1 to 6 bar
- ✓ Factory preset to 3 bar
- ✓ Protects downstream equipment from pressure fluctuations
- ✓ Suitable for water and compressed air applications
- ✓ Corrosion-resistant DZR brass construction
- ✓ Long service life with minimal maintenance
- ✓ WRAS approved for potable water applications

Technical Data

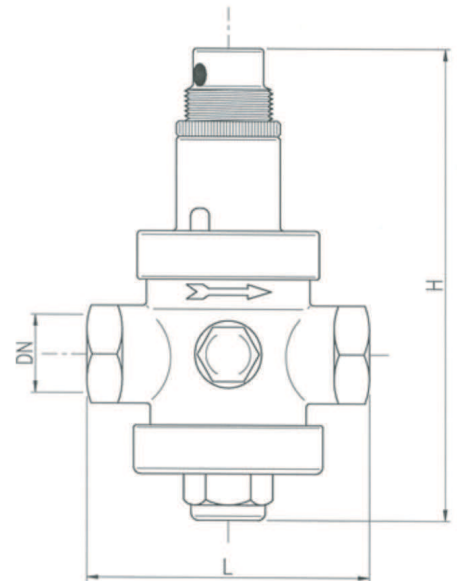
Pressure Rating	PN25
Maximum Inlet Pressure	25 bar
Outlet Pressure Range	1-6 bar
Factory Setting	3 bar
WRAS Working Temperature	Temperature: 80°C
Working Media	Water, Compressed Air
Connection	Female BSPP (ISO 228)
Size Range	½" - 4"

Main Dimensions (mm)

Item N	Size	DN	H mm	L mm	Weight Gr
143.12 .BG	½"	15	120	75	890
143.34 .BG	¾"	20	122	76	860
143.33 .BG	1"	25	160	90	1.340
143.114 .BG	1¼"	32	220	115	2.090
143.112 .BG	1½"	40	220	125	2.180
143.58 .BG	2"	50	250	140	3.100
143.160 .BG	2½"	65	260	148	4.100
143.80 .BG	3"	80	285	177	5.520
143.100 .BG	4"	100	310	190	6.970

HYDROSTATIC TEST PRESSURE

- ✓ Shell - 37.5 bar
- ✓ Seat - 27.5 bar



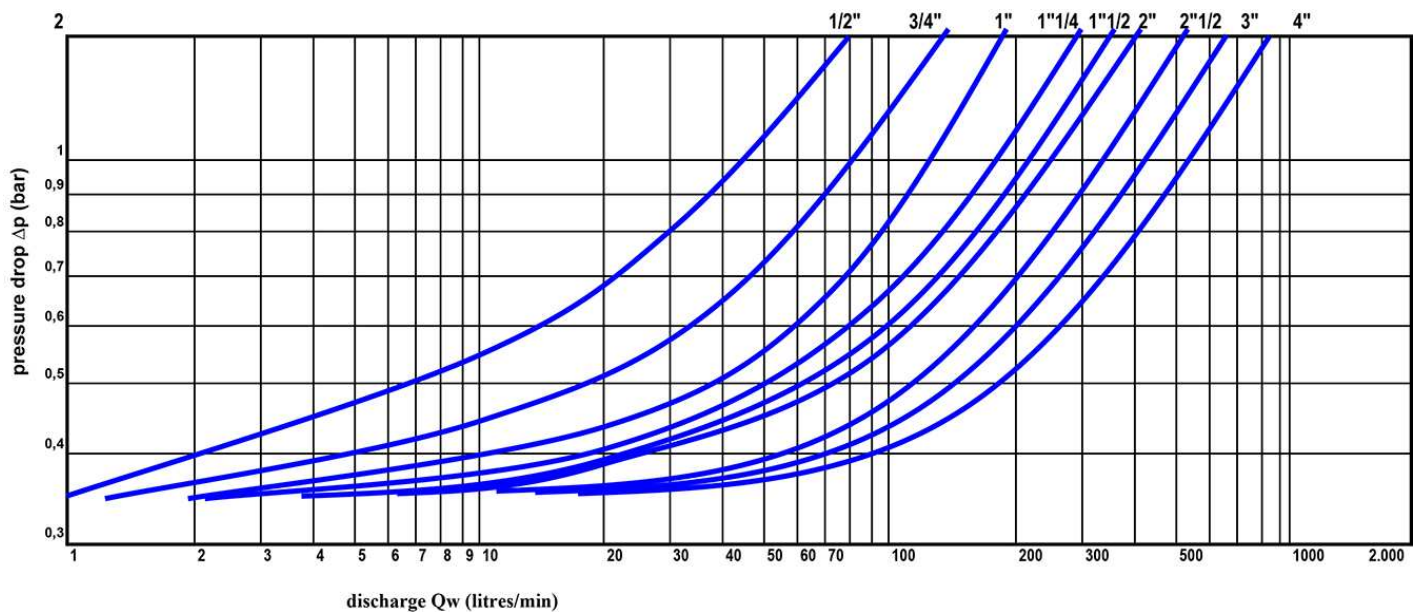
Notes

Specifications, materials and dimensions shown are subject to change without prior notice

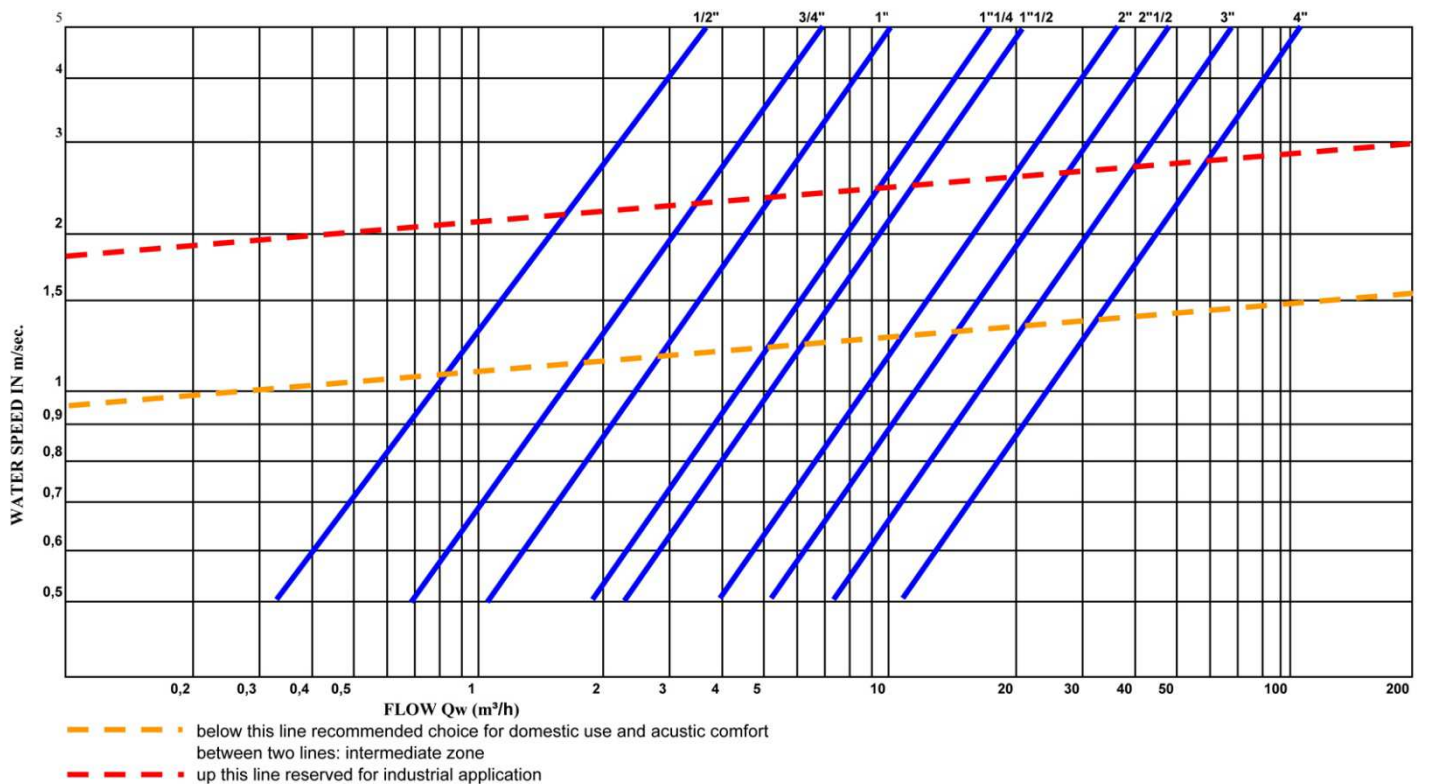


FLOW RATE vs PRESSURE DROP CHART:

Pressure always under control



FLOW vs FLOW CHART:



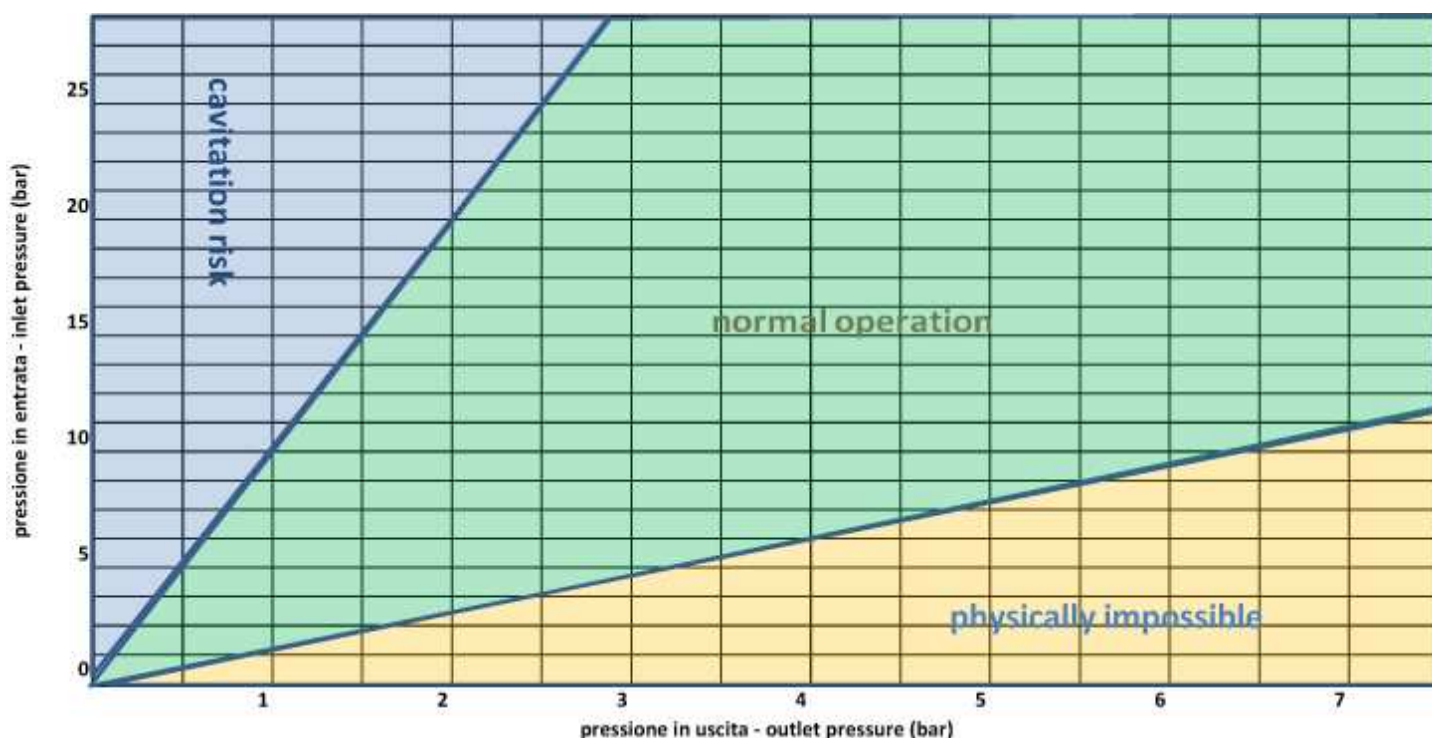
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CAVITATION CHART:

Pressure always under control



BEST HYDRAULIC DISCHARGE OF PRESSURE REDUCERS DZR BRASS 143

In order to choose the best pressure reducers for any plant, we suggest to follow the indications mentioned in the underexposed table with the best running pressure of the valves DZR BRASS143; the values are exposed both in litres/minute and com/hour, and indicate the field of use where you can obtain the best functioning, silence and smaller loss of charge of the valves

MODEL	SIZE	AVERAGE HYDRAULIC DISCHARGE L/min	AVERAGE HYDRAULIC DISCHARGE Cbm/hour
DZR BRASS143	8/3"	15 - 30	0,9 - 1,8
DZR BRASS143	1/2"	20 - 50	1,2 - 3
DZR BRASS143	3/4"	50 - 75	3 - 4,5
DZR BRASS143	1"	75 - 95	4,5 - 6
DZR BRASS143	1" 1/4	95 - 130	6 - 8
DZR BRASS143	1" 1/2	110 - 140	7 - 8,5
DZR BRASS143	2"	120 - 160	7,5 - 10
DZR BRASS143	2" 1/2	140 - 180	8,5 - 11
DZR BRASS143	3"	160 - 220	10 - 13,2
DZR BRASS143	4"	200 - 260	12 - 15,6

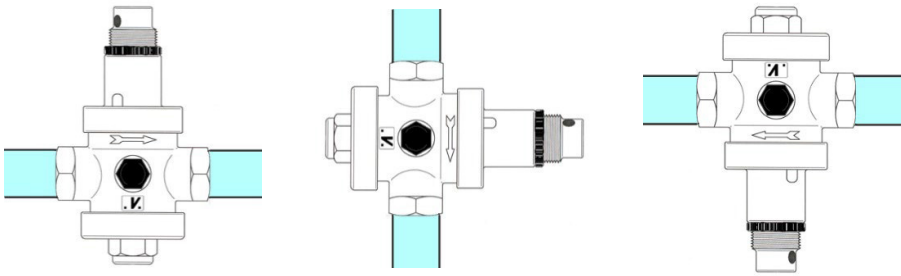
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INSTALLATION GUIDELINES

Pressure always under control

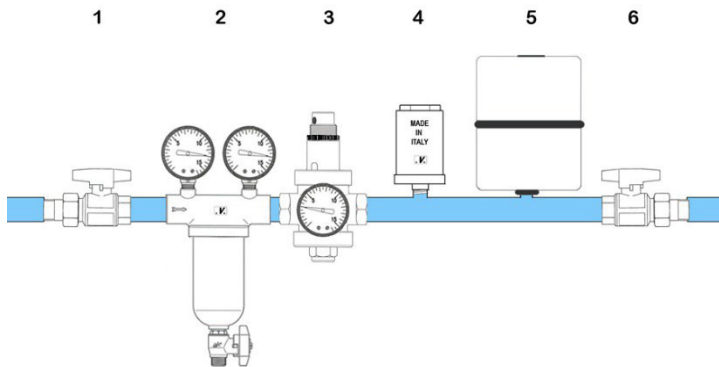


The pressure reducers DZR BRASS 143 don't get the effects, in their functioning, of gravity force; therefore they can be installed in the plant in any position :

Pressure reducing valves can be damaged by dirty water; therefore we advise to install a self-cleaning filter upstream before the pressure reducer, in order to protect the valve and any other mechanism (thermostatic mixers, taps, etc.).

When there is a device which produce or store hot water or pipes are exposed to sudden changes in temperature, an increase of outlet pressure may occur; this event is due to the raise in pressure that follows the temperature rising: an expansion vessel bet ween downstream the pressure reducing valve will avoid this problem.

We recommend moreover to install a Stopshock valve to prevent water hammer which would damage the inner parts of the pressure reducer and other devices in the waterworks Recommended installation :



- 1 – Ball valve
- 2 – Self-cleaning filter
- 3 – Pressure reducing valve
- 4 – Water hammer absorber
- 5 – Expansion tank
- 6 – Ball valve



All VANTEC pressure reducers are tested before being packaged; during test they are pre-set at the outlet pressure of 3 bars; outlet pressure can be easily adjusted once the pressure reducing valve is installed on site

In order to modify the outlet pressure, once removed the seal, you should only loosen the fixing ring and turn the spring holder as indicated in the pictures sequence. By turning clockwise the pressure increases, while counter-clockwise the pressure decreases. Right setting should be made while the plant outlet is closed

⚠ WARNING: Installation or any change of outlet pressure must be performed by qualified personnel

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