PRESSURE REDUCING VALVE

EUROBRASS 146

- **Direct acting brass pressure reducing valve;**
- **PN 25;**
- **Adjustable outlet pressure between 0,5 and 6 bar;**
- **Brass diaphragm mechanism;**
- **Pressure compensation system;**
- **Female threading with fittings;**
- **Max temperature of use 80° C;**

FIELDS:

The pressure reducing valves series EUROBRASSBLU 146 are suitable for reduction and control of pressure in plants with the following characteristics:

Max inlet pressure:	**25 bar**
Field of action (outlet pressure):	**0,5 - 6 bar**
Max temperature of use:	**80° C**
Threading of connection:	**ISO 228**
Tested according to rules:	**DIN EN 1567**
Suitable fluids:	**Water, compressed air**
Reduction rate :	**10 : 1**

MATERIALS:

Metal of the body:	**Brass alloy CW617N UNI EN 12165 - CB753S EN 1984**
Metal of the inner parts:	**Brass alloy CW614N UNI EN 12165**
Seat:	**Stainless steel AISI 303**
Bar:	**Brass alloy CW614N UNI EN 12165 - Stainless steel AISI 303**
O-rings:	**NBR 70sh**
Flat gaskets:	**Fasit Italy**
Lubricant:	**Alimentary grease**
Plastic parts:	**Ultramid® A3K (BASF)**

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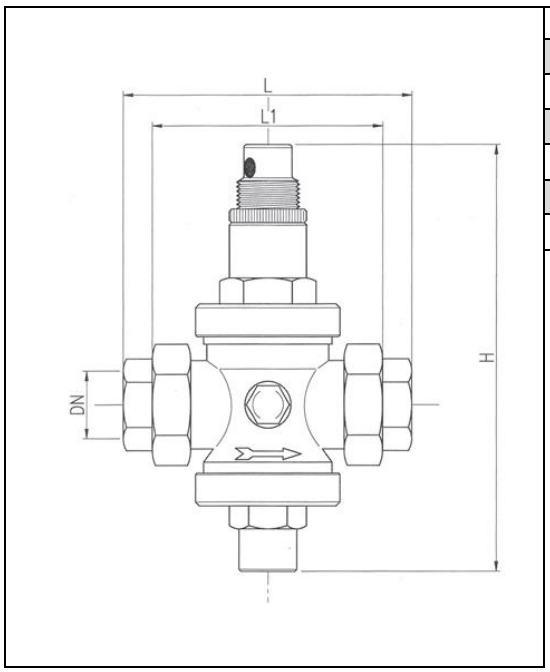
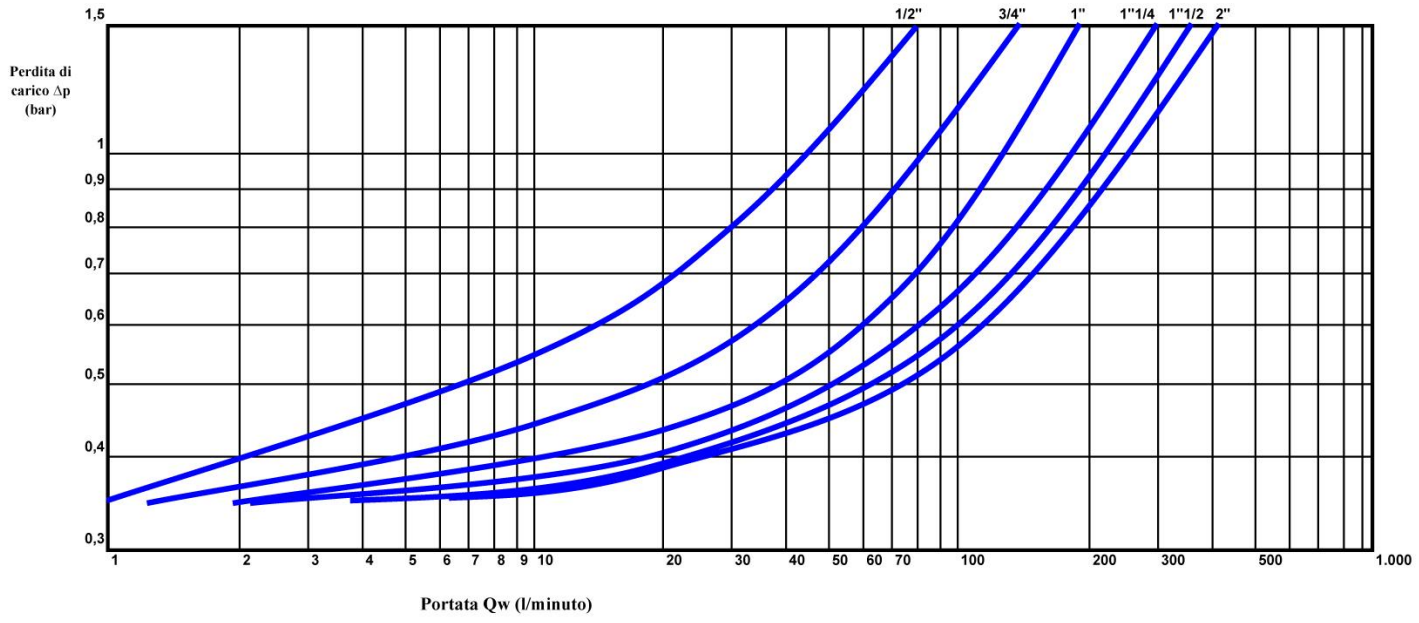
N. 225639

MAIN DIMENSIONS OF THE PRESSURE REDUCING VALVES EUROBRASS 146



ITEM	DN	Weight gr	H	L
146.12	½"	920	120	112
146.34	¾"	1.600	160	135
146.33	1"	1.850	166	140
146.114	1" ¼	2.950	220	170
146.112	1" ½	3.400	220	175
146.58	2"	5.300	250	200

FLOW RATE vs PRESSURE DROP CHART:



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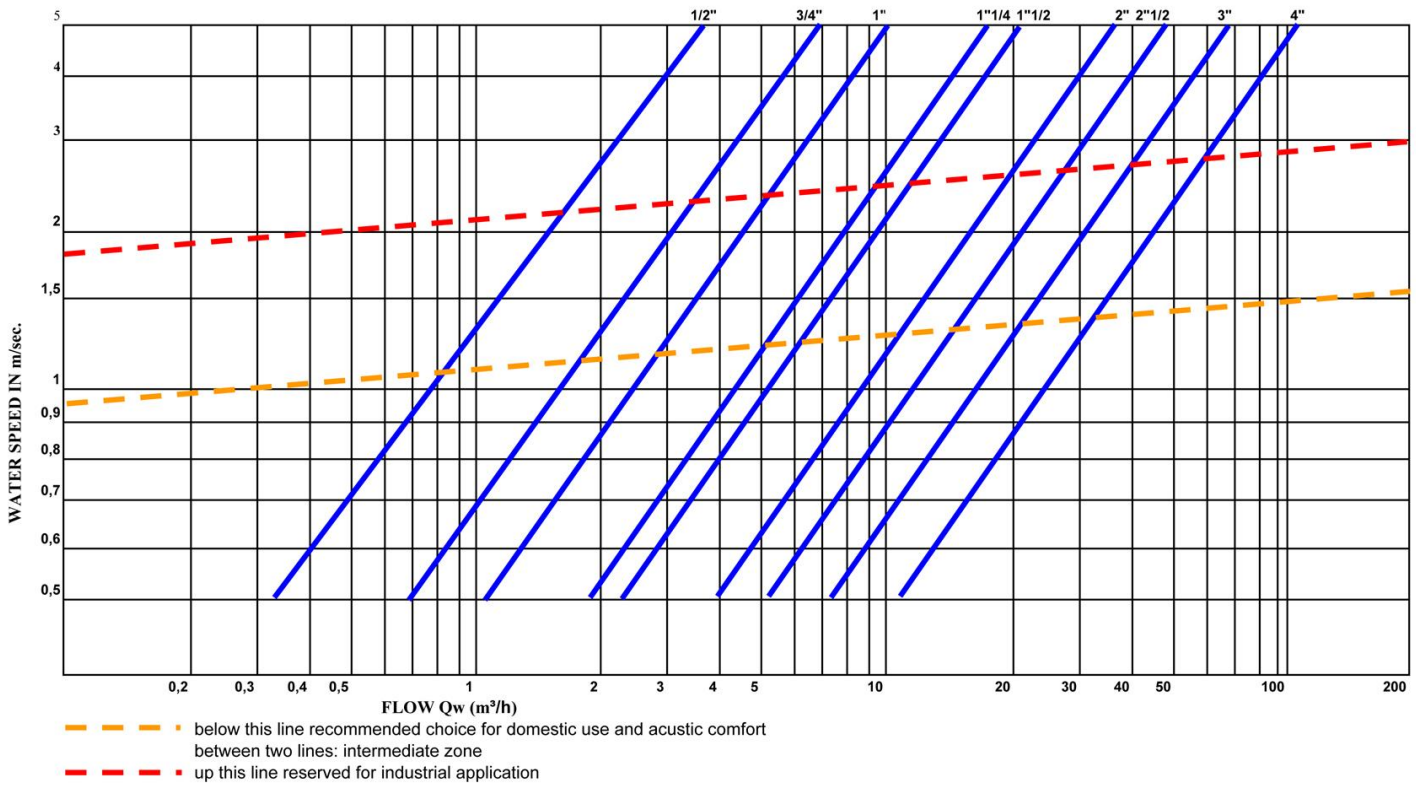
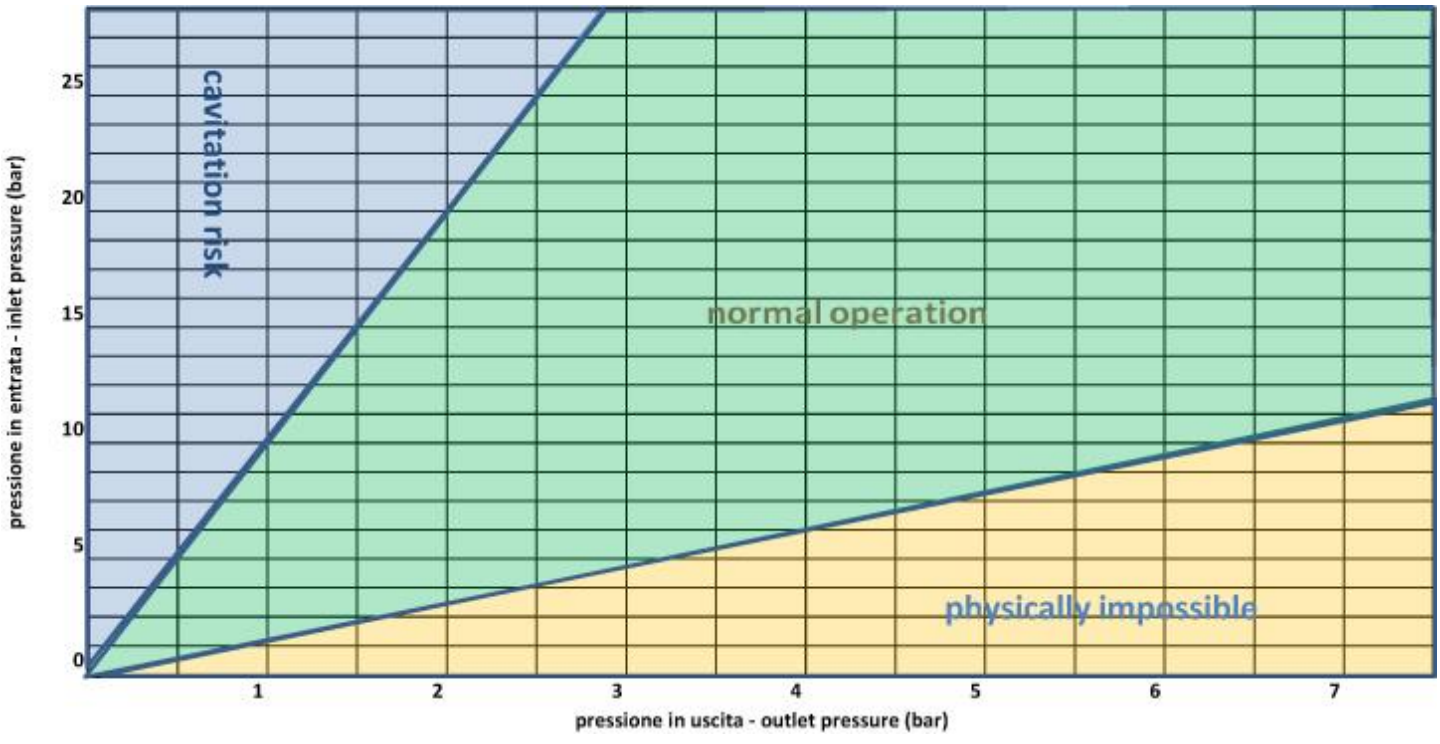
FLOW vs FLOW CHART:



CAVITATION CHART:



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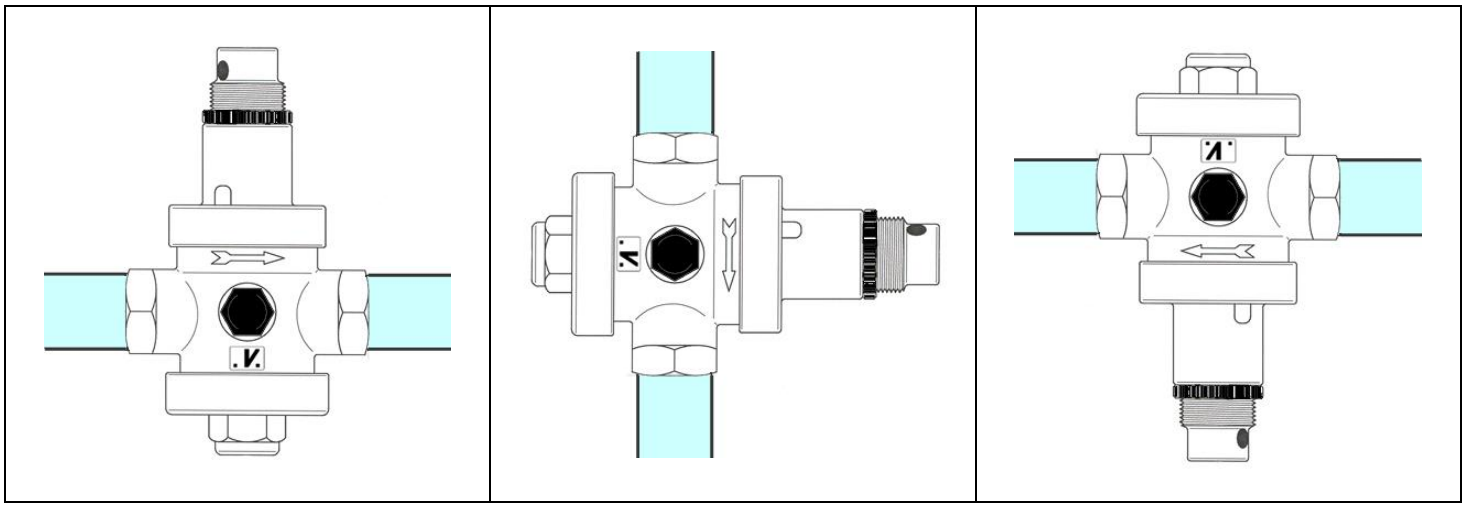
BEST HYDRAULIC DISCHARGE OF PRESSURE REDUCERS EUROBRASS 146

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 Eurobrass 146; the values are exposed both in litres/minute and cbm/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
EUROBRASS 146	½"	20 - 50	1,2 - 3
EUROBRASS 146	¾"	50 - 75	3 - 4,5
EUROBRASS 146	1"	75 - 95	4,5 - 6
EUROBRASS 146	1" ¼	95 - 130	6 - 8
EUROBRASS 146	1" ½	110 - 140	7 - 8,5
EUROBRASS 146	2"	120 - 160	7,5 - 10

INSTALLATION OF THE PRESSURE REDUCING VALVE

The pressure reducers EUROBRASS 146 don't get the effects – for their functioning – of the 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 downstream (thermostatic mixers, taps, etc.).
When there is a device which produce and store hot water or in situation when 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 just after the pressure reducing valve will avoid this problem.
We recommend moreover to install a Stopshock valve to prevent water hammer which can damage the inner parts of the pressure reducer and other devices in the waterworks.

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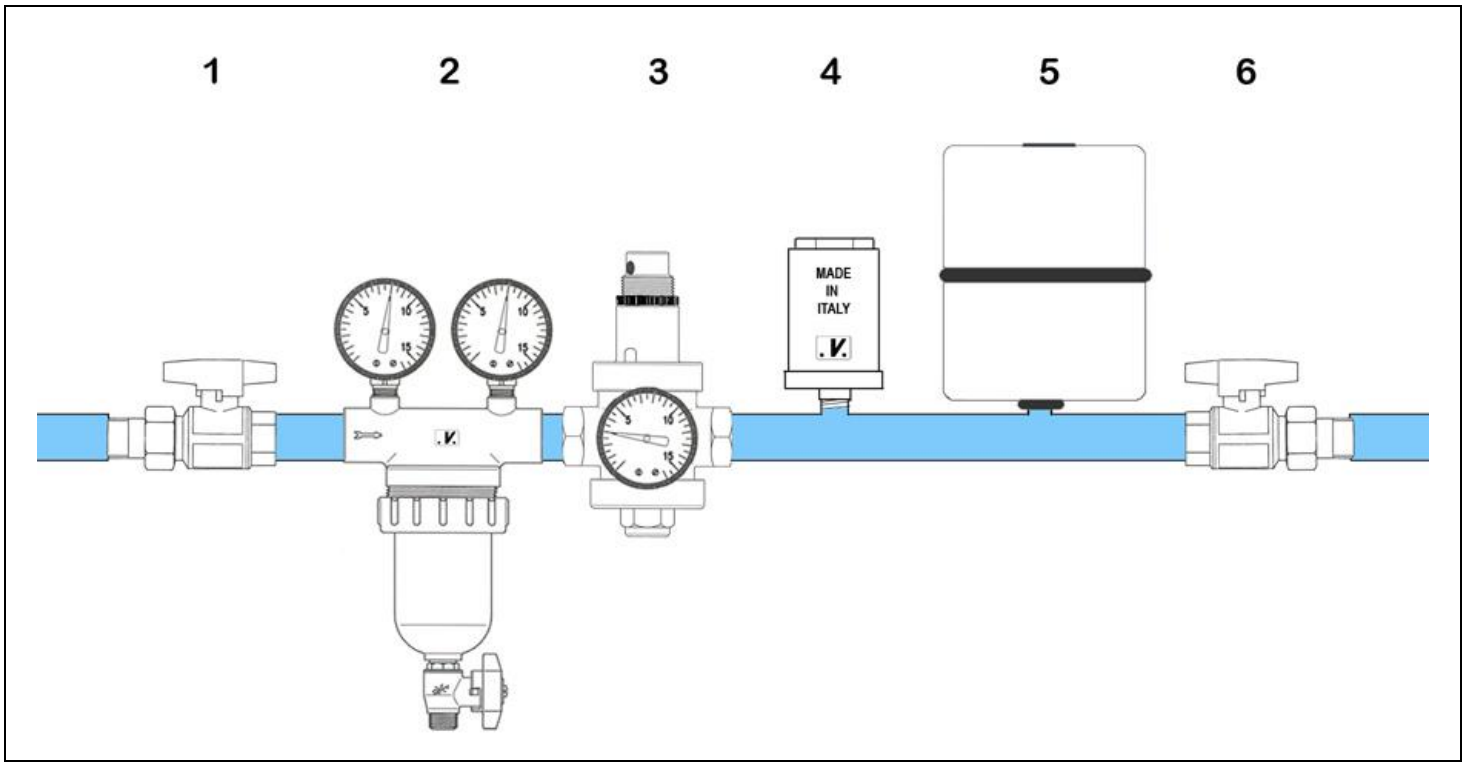
Recommended installation of the pressure reducing valve:



1 – BALL VALVE
2 – NEPTUN SELF-CLEANING FILTER
3 – EUROBRASS PRESSURE REDUCER
4 – STOPSHOCK VALVE
5 – EXPANSION VESSEL
6 – BALL VALVE

HOW TO ADJUST THE PRESSURE

All Malgorani pressure reducers are tested before being packaged; during the proof they are pre-set at the outlet pressure of 3 bars.
Installation or any change of outlet pressure must be performed by qualified personnel; 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.
A correct setting must be made while the outlet flow is closed.

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