

Direct Acting Pressure Reducing Valve

☞ Simple, Reliable and Accurate

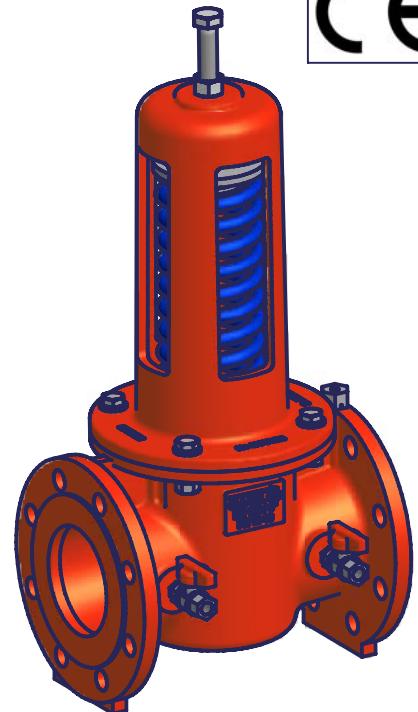
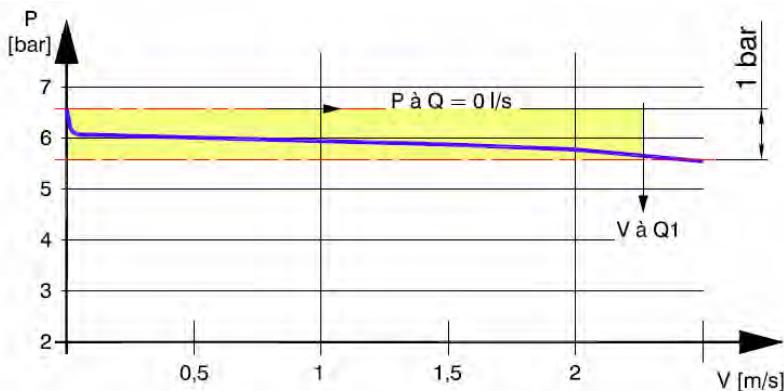
- Automatic and autonomous operation
- Easy adjustment and maintenance
- Approved materials
- Cla-Val guarantee
- AQUA 80-960 : Operation



The model AQUA 80-960 reduces a higher inlet pressure to a lower downstream pressure, regardless of upstream pressure and flow variations.

The simple and robust design of the model AQUA 80-960 allows stable operation, minimal maintenance as well an assembly in various positions.

- AQUA 80-960 : Performances and Characteristics



Sizes : DN 40 to DN 150

Pressure and flange drillings :

PFA 10 bar - ISO PN 10

PFA 16 bar - ISO PN 16

PFA 25 bar - ISO PN 25

Temperature range : 1° - 60°

Upstream pressure : 25 bar max.

Downstream pressure : 1,5 to 14 bar

Test : DESP 97/23/CE

Leakage class : ANSI/FCI 70-2 CLASS III

DN	40	50	65	80	100	125	150
Q1 [l/s]	2,7	4,0	7,0	11,0	17,0	26,0	38,0
Q2 [l/s]	2,5	3,9	6,6	10,0	15,7	24,5	35,3
Q3 [l/s]	5	8	13	20	31	48	70

Q1 : Flow based on 1 bar pressure drop across the valve

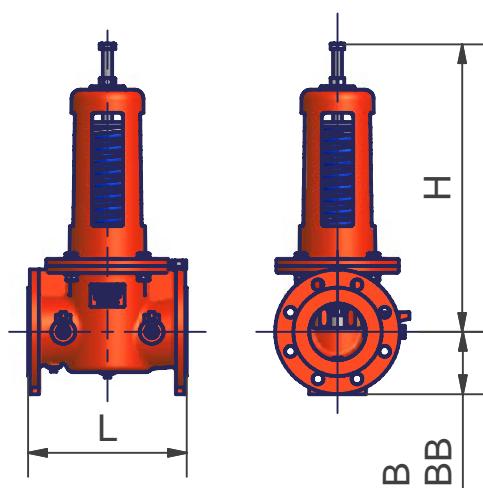
Q2 : Recommended flow based on 2 m/s velocity

Q3 : Intermittent flow based on 4 m/s velocity

- AQUA 80-960 : Dimensions

B : PN 10-16 / BB : PN 25

DN	40	50	60/65	80	100	125	150
L [mm]	230	230	240	260	280	320	350
H [mm]	300	300	370	430	510	560	560
B [mm]	83	83	93	100	110	125	143
BB [mm]					117,5	135	150
Weight [kg]	15	16	21	29	39	72	82



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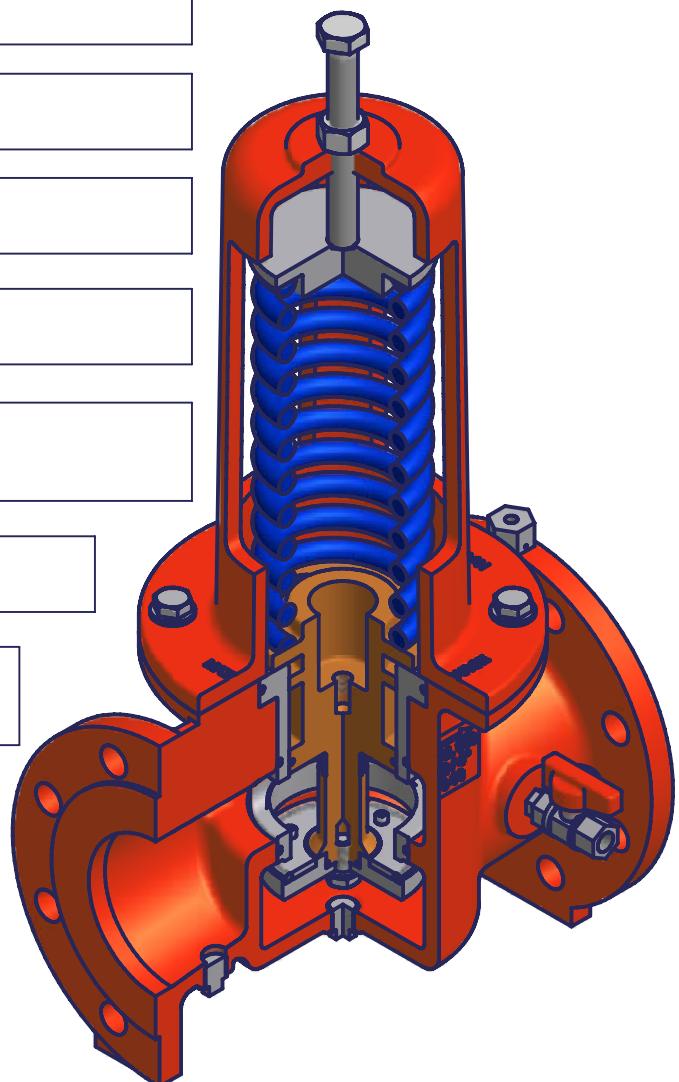
Downstream pressure reducing valve AQUA 80-960, of new and original design, can be used in high rise buildings, industrial plants, irrigation or municipal water systems.

A one spring range only and cover maintenance are unique advantages of the model AQUA 80-960. All moving parts are in a single, easily top removable insert.

- ✓ Top removable insert.
- ✓ Easy disassembling, tool available.
- ✓ Low maintenance product.
- ✓ Upstream pressure : 25 bar max.
- ✓ Pressure downstream:
1,5 to 14 bar with 1 spring only.
- ✓ Flexible mounting position.
- ✓ 4 m/s velocity for appropriate Fire Protection.

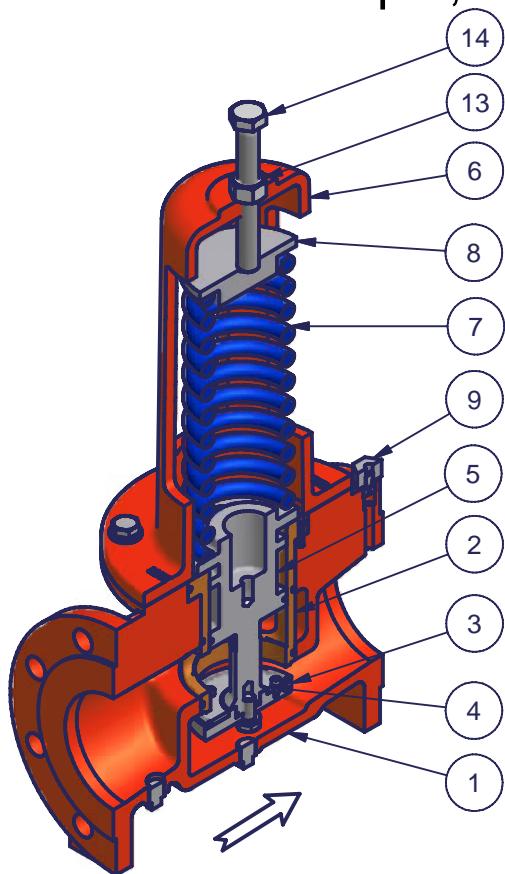
Unique !

**Top removable
And 1 spring only !**



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● AQUA 80-960 : Construction

- Body and cover for high pressure in ductile iron GGG 40 epoxy coated.
- Valve / Disc guide in stainless steel.
- Seat stainless steel.
- Screws and bolts stainless steel.

POS	TITRE	MATIERE
1	Body	Ductile iron - GGG 40
2	Seat	Stainless steel - AISI 316
3	Disc retainer	Stainless steel - AISI 303/304
4	Disc guide	Stainless steel - AISI 303/304
5	Piston	Bronze - ASTM B62
6	Cover	Ductile iron - GGG 40
7	Spring	Steel
8	Spring guide	Stainless steel - AISI 303/304
9	Air release plug	Stainless steel - AISI 303/304
13	Blocking nut	Stainless steel - AISI 303/304
14	Adjusting tangent	Stainless steel - AISI 303/304

● AQUA 80-960 : Installation et Maintenance

The pressure reducing valve is assembled as shown on the typical installation schematic. Proper mounting is indicated by the inlet plate or flow arrows.

The Pressure reducing valve AQUA 80-960 can be assembled in any position.

To vent the valve use the flange air release plug (9).

Adjust downstream pressure using the cover adjusting screw (14). Turn the adjusting screw clockwise to increase the outlet pressure, counterclockwise to decrease pressure.

Internal piston and parts can be disassembled without removing the valve body from the main line. Upstream and downstream gate valve (1) drip tight closed.

Typical installation :

- 1) Gate valve (downstream and upstream)
- 2) H - Strainer, AQUA 90-501
- 3) Downstream pressure valve AQUA 80-960
- 4) Dismantling joint
- 5) Air valve AQUA 70-506

