

1. Standards

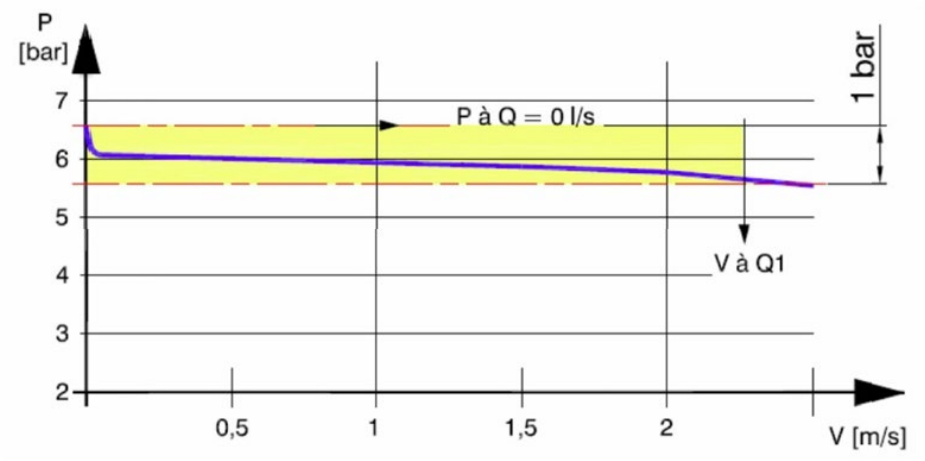
- ✓ Test pressure according to EN 12266-1, DIN 3230, BS 6755 and ISO 5208 standards:
  - Body : 24 bar.
  - Seat : 17,6 bar.
- ✓ Drilled flanges accoring to EN 1092-2 ISO PN 16 standard.
- ✓ Leakage class : ANSI/FCI 70-2 CLASS III
- ✓ ACS standard conformity 17 ACC NY 178

2. Caractéristiques

Use :	high rise buildings, industrial plants, irrigation or municipal water systems
Sizes :	DN40 to DN150
Connection :	A brides PN16
Min. temperature :	+1°C
Max. fluids temperature :	+60°C
Max. working pressure :	16 Bars
Up stream pressure :	40 bar max.
Downstream pressure :	2 – 14 bar (1 spring)
Characteristics :	Simple and robust design Low maintenance product Automatic and autonomous operation Easy adjustment and maintenance
Material :	Body and cover for high pressure in ductile iron GGG 40 epoxy coated.

Information provided as an indication and subject to possible modification

3. Performances



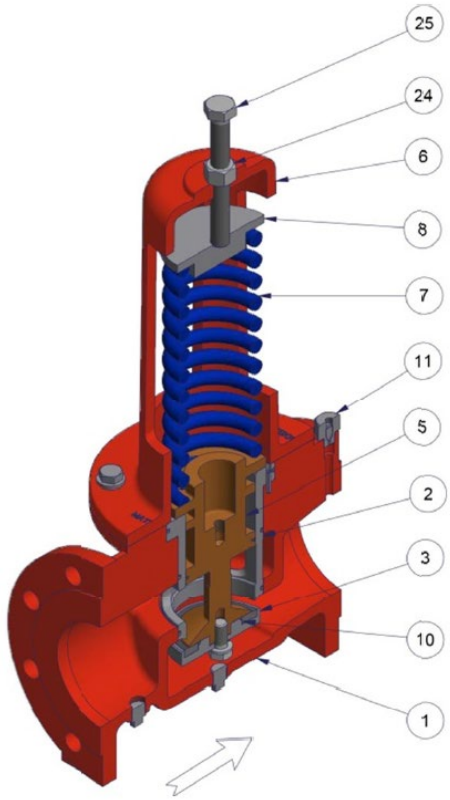
Pressure and flange drillings :

- PFA 10 bar – ISO PN10
- PFA 16 bar – ISO PN16
- PFA 25 bar – ISO PN25
- PFRA 40 bar – ISO PN40

DN	40/50	60/65	80	100	25	150
Q1 [l/s]	4	7	11	17	26	38
Q2 [l/s]	3,9	6,6	10	15,7	24,5	35,3
Q3 [l/s]	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

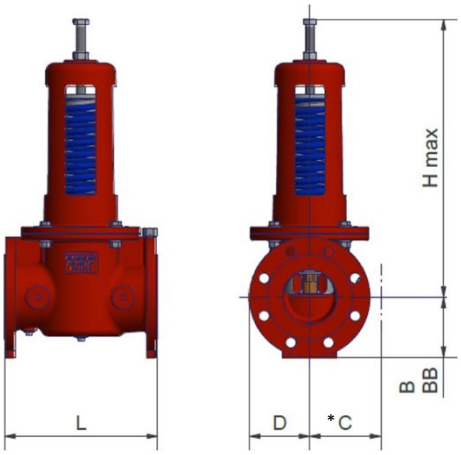
4. Construction



POS	DESCRIPTION	MATERIAL
1	Body	Ductile iron - GGG 40
2	Seat	Stainless steel - AISI 316
3	Disc retainer	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
10	Gasket	RBR
11	Air release plug	Stainless steel - AISI 303/304
24	Blocking nut	Stainless steel - AISI 303/304
25	Adjusting screw	Stainless steel - AISI 303/304

B:

5. Sizes



DN	40/50	60/65	80	100	125	150
L [mm]	230	240	260	280	320	350
H max. [mm]	325	400	460	575	815	815
B [mm]	83	13	20	110	125	143
BB [mm]				117.5	135	150
*C [mm] ~	248	258	365	275	300	315
D [mm]	83	93	100	110	135	150
Weight [kg]	13	18	27	45	90	100

PN 10-16 / BB: PN 25

6. Installation and maintenance

The pressure reducing valve AQUA 80-960B is assembled as shown on the typical installation schematic. Proper mountingis indicated by the inlet plate or flow arrows. The pressure reducing valve can be assembled in any position.

To vent the valve, use the flange air release plug (11).

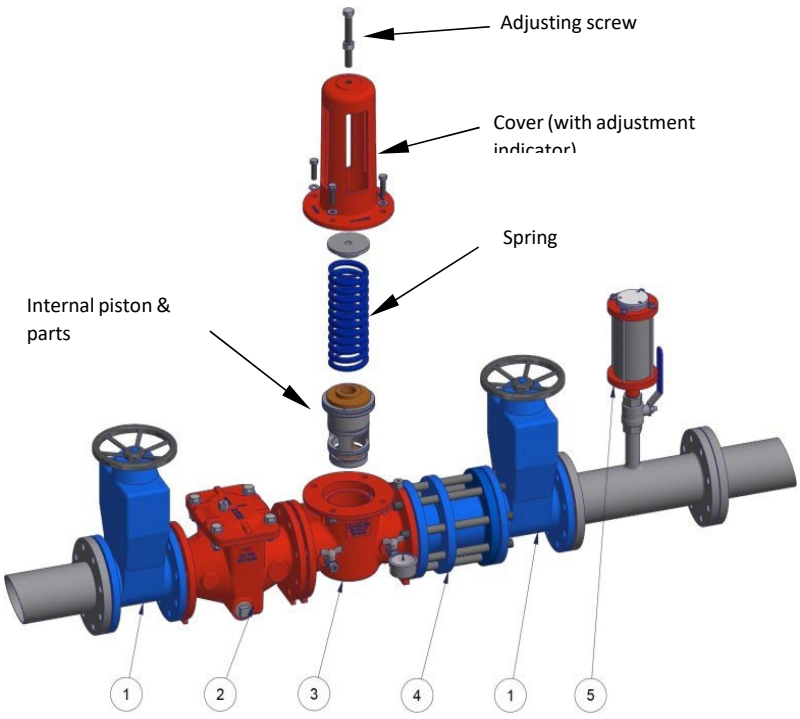
Adjust downstream pressure using the cover adjusting screw (25).

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 / upstream)
2) H-Strainer model
3) Downstream Pressure Reducing Valve
4) Dismantling joint
5) Air Valve model



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