

# Figure 2840

DN80-DN400 PN10-16-25

# HELYON

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## Slow Closing Valve – Anti Slam

### CONSTRUCTION MATERIALS / COATING

**Body:** Ductile Iron EN GJS-500-7

**Internal Mechanisms:** Stainless steel and bronze

**Seat:** Elastomer NBR/EPDM of high durability

**Upper protection:** Steel with screen in stainless steel

**Bolting:** Internal in stainless steel A2 / External in galvanized steel

**Coating:** Non-toxic epoxy for drinkable water. Internal and External 200 microns thickness

Other material and special coating available upon request

### TECHNICAL DATA / ENGINEERING

TEST PRESSURE	BODY	SEAT
PN 10	15 bar	11 bar
PN 16	24 bar	18 bar
PN 25	38 bar	28 bar



### DESCRIPTION

The slow closing valve is recommended to be installed at the air valve inlet during the filling.

The design prevents the valve from slamming when closed which can cause "water hammer" and the resultant noise and damage to piping systems.

This valve is recommended to be installed at high points where water column separations or pipelines collapses may occur.

If the liquid speed is above 3 mt per second, the water hammer and therefore the float against the seat can easily damage the valve. The same happens to deep well turbine pumps where the speed is too high and can easily exceed 3 mt. per second.

#### Fluid

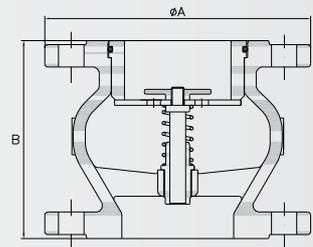
Clean water, consult operations and materials for ocean water, and processed crude water

### GENERAL DIMENSIONS AND WEIGHTS

DN	Connection	A	B	Weight
DN80	Flange	200	150	14
DN100	Flange	220	184	18
DN150	Flange	285	248	33
DN200	Flange	340	318	54
DN250	Flange	420	400	88
DN300	Flange	515	362	129
DN350	Flange	560	388	362
DN400	Flange	637	549	479

Dimensions in mm and weights in kgs

Connections: -PN10-16-25 s/EN -150# s/DIN



### ORDERING OPTIONS

- With disc generally open (NA)
- With disc generally closed (NC)

### FULFILLED STANDARDS

- EN 1074-1 & EN 1074-4
- AWWA C512

### SEQUENCE OF FUNCTIONS

This valve is specially designed to minimize water hammering in those systems where the working conditions are irregular and the valves are continuously opening and closing. In particular in those high points where the hydraulic gradient and the line conditions allow negative pressures or in those lines where the speed is 3,5 m/seg or even more.

If the liquid speed is above 3 mt per second, the water hammer and consequently the float against the seat can easily damage the valve. The same happens with deep well turbine pumps where the speed is too high and can easily exceed the mentioned 3 mt. per second.

