

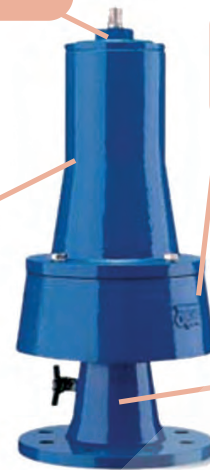
Overpressure relief valves (also known as anti water hammer valves) mean an effective protection against pressure surge in water lines thus cushioning the water hammer effect. It will discharge a sufficient quantity of water to avoid overpressure in the pipeline. The valve is pre set at a determined blowing off pressure, usually 5% to 10% above the working pressure, when pressure reaches the set s, it opens and blows off the water to atmosphere. This simple principle avoids the excess pressure in the water ducts. Once the system pressure reestablishes to the set point, the valve closes by effect of the spring.

Rugged design, pressure resistant, self acting valve with no auxiliary power required, in site adjustable spring.

Absolute seat tightness, no cavitation effect thanks to its special flat gasket.

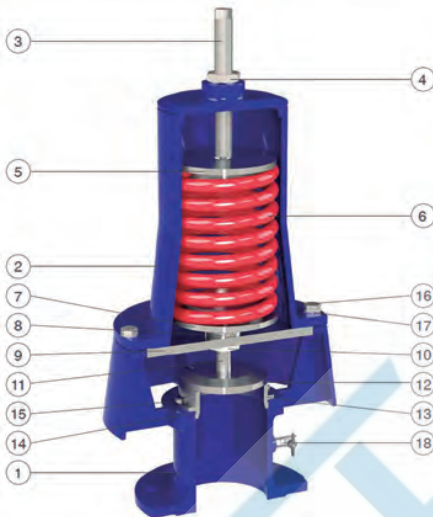
Precise setting, no hysteresis thanks to the balanced spring.

High resistant inlet nozzle, drainage and gauge in takes.

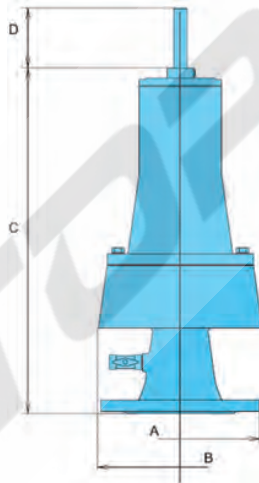


VRCA Series Pressure Relief Valves* Self acting valve and loaded with spring * Design Pressure PN 25*Size Range: DN 50/65 up to DN 200 inlet size* Flange Process Connection PN 16(PN 40 on request)* Set pressure ranges: (0-8 bar); (8-16 bar); (16-25 bar) other larger ranges on request.

Main Parts and Materials



Main Valve Dimensions (mm)



DN	A	B	C	D	Seat	Weigth
50/65	185	185	417	40	40	14
80/100	235	242	540	50	62	28
150	300	404	720	220	137	75
200	360	404	720	220	137	79



N.	Component	Standard Material	Optional
1	Body	ductile cast iron GJS 500-7	
2	Cap	ductile cast iron GJS 500-7 e painted steel Fe 37	
3	Driving screw	stainless steel AISI 304	stainless steel AISI 316
4	Nut	stainless steel AISI 304	stainless steel AISI 316
5	Spring support	stainless steel AISI 303 (304 for DN 150-200)	stainless steel AISI 316
6	Spring	spring painted steel 52SiCrNi5	
7	Spring housing	stainless steel AISI 303 (304 for DN 150-200)	stainless steel AISI 316
8	Ring	stainless steel AISI 304	stainless steel AISI 316
9	Separation plate	s.s. AISI 304 (painted steel Fe 37 for DN 150-200)	stainless steel AISI 316
10	Driving sleeve	Delrin (s. s. AISI 304 for DN 150-200)	
11	Shaft	stainless steel AISI 304	stainless steel AISI 316
12	Obturator	stainless steel AISI 303 (304 for DN 150-200)	stainless steel AISI 316
13	Sealing seat	stainless steel AISI 304 (303 for DN 50/65)	stainless steel AISI 316
14	O-ring	NBR	EPDM/Viton
15	Screws	stainless steel AISI 304	stainless steel AISI 316
16	Screws	stainless steel AISI 304	stainless steel AISI 316
17	Washers	stainless steel AISI 304	stainless steel AISI 316
18	Ball valve 1/4"	nickel-plated brass OT58	stainless steel AISI 316

Additional Information

Please consult with our technical department to obtain the following additional information from our technical catalogues: Valve Nominal Size selection* Reaction Time * Operating and Maintenance Guidelines* Performance Graphs

Main Duties

Downstream outlet pumps to avoid the pressure surge on the Pump start up* Downstream a pressure reducing valve * Pressure Cushioning * downstream a quick closing valve*