

Installation

The fast acting pressure relief valve VRCA must be installed in a vertical position with isolation device to ensure the proper maintenance and, if required, setting on the field. The installation chamber, if within a closed environment of underground, shall be provided with a proper drainage system to avoid the risk of flooding during the valve's discharge. Shouldn't a valve be enough for the purpose we recommend the installation of two units in parallel with a manifold to be sized on request, and/or two or even more valves in series located on separated outlets.



Working conditions

Treated and raw water with a maximum temperature of 70°C.
 Maximum pressure 25 bar. Spring setting ranges: 1-8 bar, 8-16 bar, 16-25 bar.
 Higher pressure values on request.

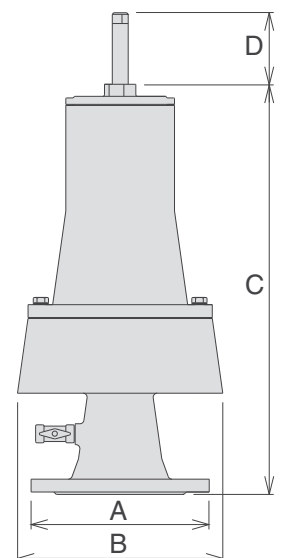
Standard

Certified and tested in compliance with EN 1074/5. Flanges according to EN 1092/2.
 Epoxy painting blue RAL 5005 applied through fluidized bed technology.
 Changes on flanges and painting on request.

Weights and dimensions

DN mm	A mm	B mm	C mm	D mm	Seat DN mm	Weight Kg
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

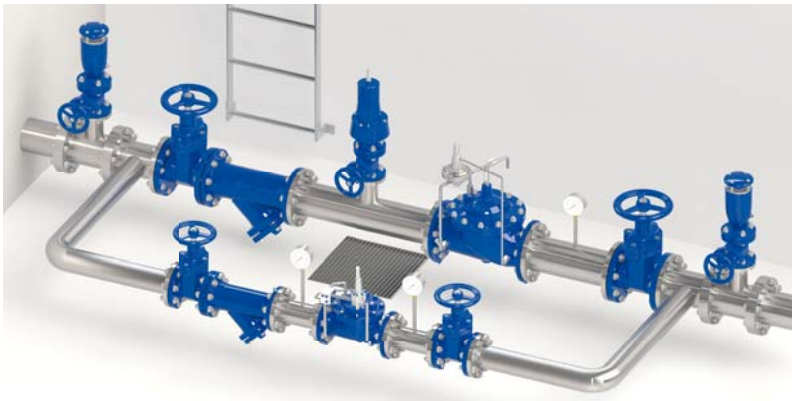
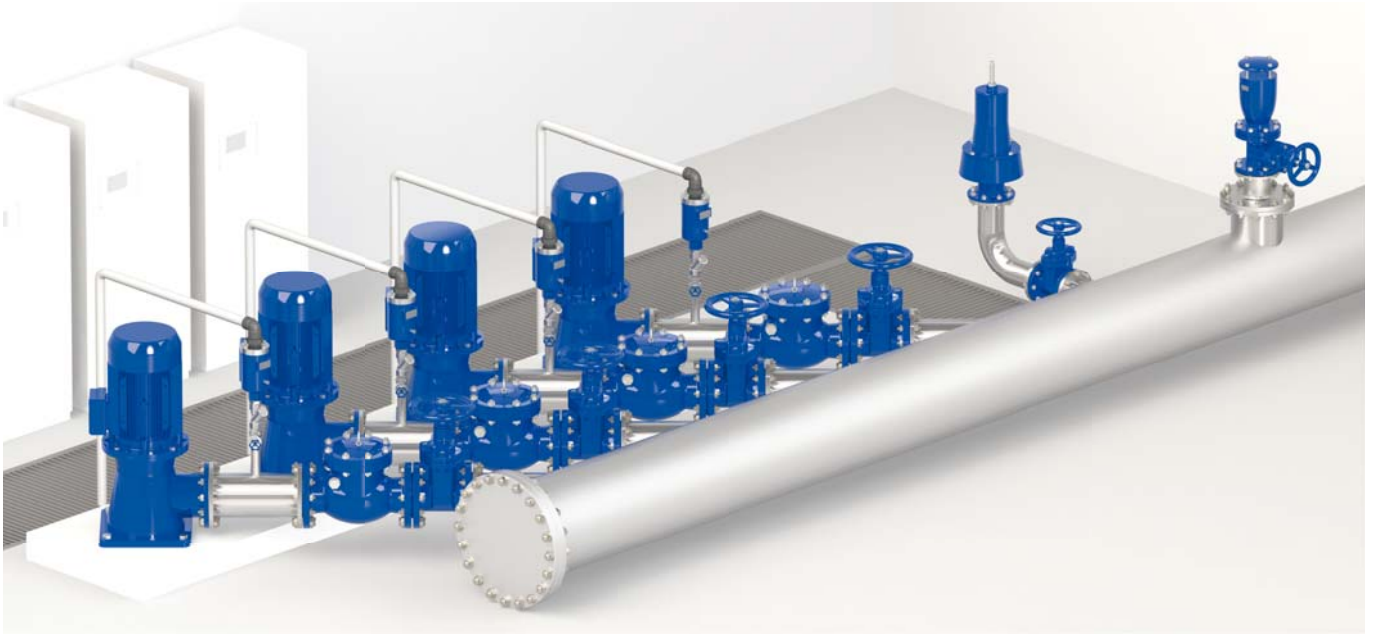
Values are approximate, consult CSA service for more details.



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Example of common applications

Pumping station. The following pictures shows some common applications for the fast acting pressure relief valve VRCA. The VRCA is installed downstream of pumps check valves, as close to the drain as possible. The installation in vertical position, away from the main pipe, avoid potential spurts generated during discharge. Particular of the installation with an anti surge combination air valve CSA FOX / Lynx 3F AS for the protection against negative pressure conditions.



Burst valves and opening/closing devices

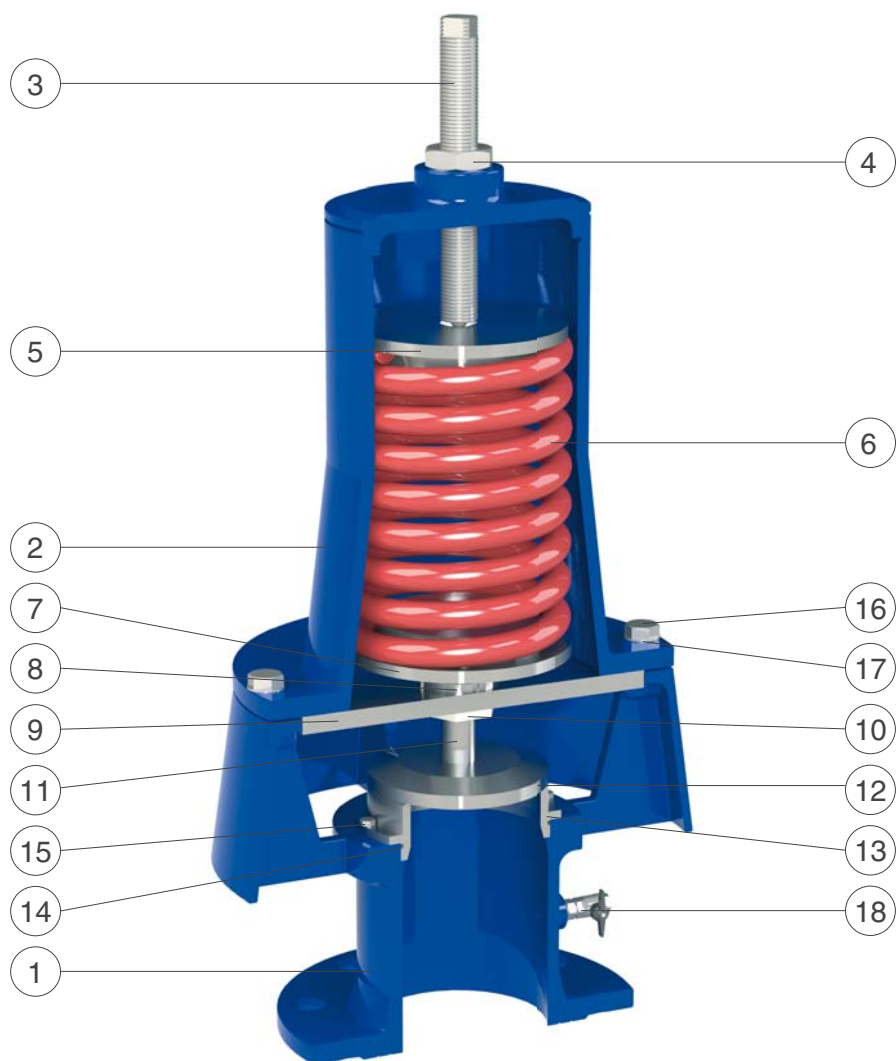
The VRCA is installed upstream of fast closing devices, such as burst flow automatic control valve Mod XLC 380/480 model, due to the potential upsurge created by the flow interruption. Air valves CSA combination anti-surge FOX or LYNX 3F AS or RFP are always recommended upstream and downstream of the installation.



Level control

In case of level control, especially with valve controlling the minimum and maximum, the risk of overpressure and danger to the pipeline has to be considered. We strongly recommend, should that be the case, to install a VRCA upstream of the regulating device or to contact CSA for different solutions.

Technical details



N.	Component	Standard material	Optional
1	Body	ductile cast iron GJS 500-7 or GJS 450-10	
2	Cap	duct. cast iron GJS 500-7 or 450-10 and painted steel	
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 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	stainless steel AISI 316

The list of materials and components is subject to changes without notice.

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