



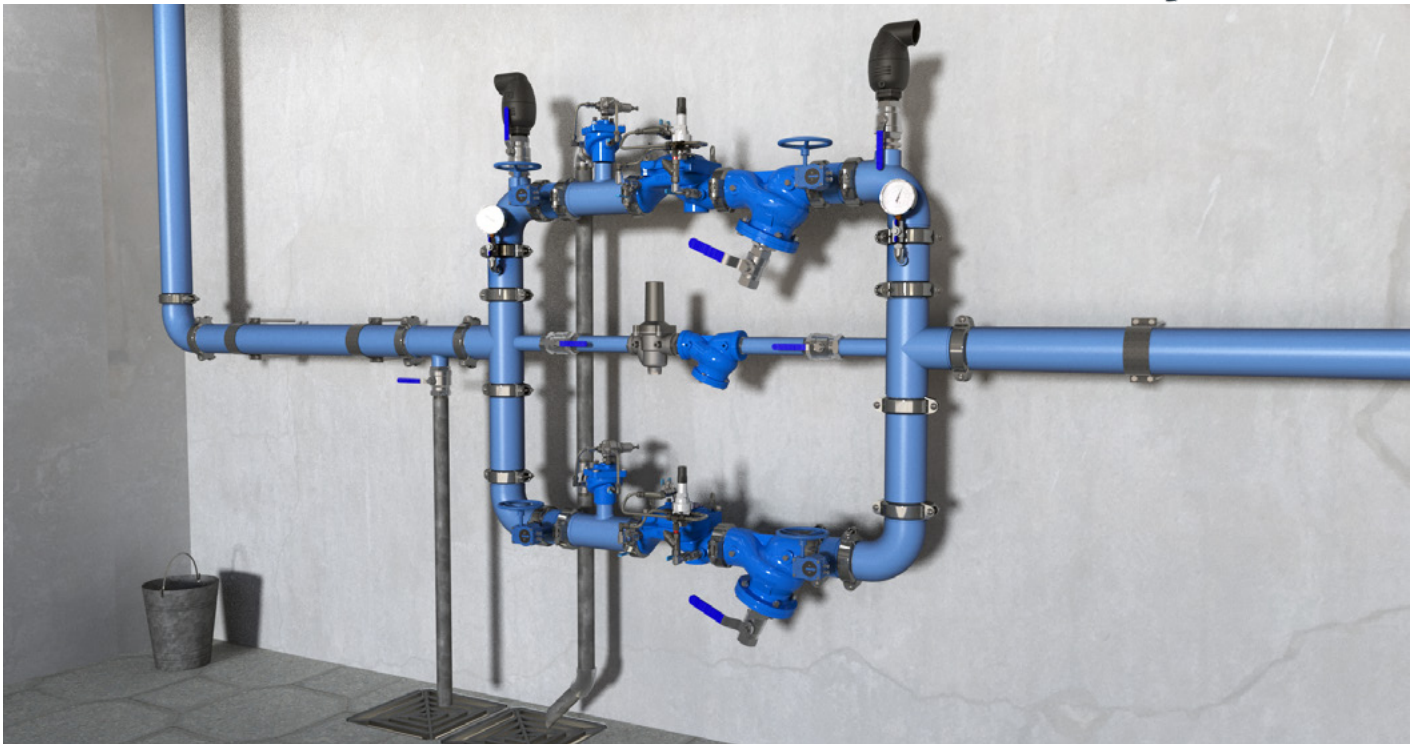
## QUICK PRESSURE RELIEF VALVE

### Model BC-43Q-P

Hydraulically operated, diaphragm actuated quick pressure relief valve that relieves excessive system pressure when such pressure rises above a pre-set value.

It responds immediately, accurately, and with high repeatability to a rise in system pressure by opening fully. It also provides smooth drip tight closing.

BERMAD 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valves balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valves only moving part.



Pressure Reducing Station, featuring BERMAD BC-43Q-P valves to relieve excessive downstream pressure, a redundant, parallel branch to minimize the possibility of total water shut-off and a low flow

bypass branch for low demand operation. For information on the other BERMAD products in this system please see the product data sheet for the BERMAD BC-420-P and BERMAD BC-70F-P.

### Typical Application

- Burst protection and protection against the effects of extreme pressure in potable water supply lines in buildings
  - Relief of excessive pressure at potable water pumping stations
  - Safety valve protecting against high pressure in potable water pressure reduction systems
  - Where moderate operation of pressure relief systems is required
- Note:** The BERMAD BC-43Q-P requires proper drainage, where drainage is limited, consider the BERMAD BC-794-P



## Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Full bore valve port area and hydrodynamic body ensure unobstructed flow path; minimal pressure loss with low cavitation damage
- Fully supported and balanced rolling diaphragm - low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward three major components design - easy and simple on-site inline maintenance with minimal down time
- 2-way pilot and control loop provide immediate and accurate response to sudden pressure variations
- Line Pressure Driven - Independent operation, no external power needed
- On-site adjustable pilot allows simple and easy calibration of required pressure level
- Valve Operation Indication (optional) - Immediate notification to maintenance personnel

## Technical Data

### General:

#### End connections:

- Grooved: 2", 3"-8"
- Flanged: 1½"-14"
- Threaded: 1½"-3"

**Pressure Rating:** 230 psi; PN16

**Valve Pattern:** Y (Oblique) / Angle

#### Working Temperature:

Cold Water up to 122°F; 50°C

#### Optional Higher Temperatures:

Available on request

### Main Valve Materials:

#### Body, Cover and Partition:

- Standard: Ductile Iron
- Optional: Stainless Steel 316

**Spring:** Stainless Steel

#### Diaphragm Assembly:

- NR / EPDM with Reinforcing Vulcanized Radial Seal Disk:
- 1½"-6": Plastic
- 8"- 10": Iron
- 12"-14": Iron with St.St Upper Guide

**Coating:** Blue Fusion bonded epoxy

### Control Trim Materials:

#### Control Accessories:

- Stainless Steel / Bronze & Brass
- NBR / EPDM

**Tubing:** Stainless Steel / Copper

**Fittings:** Stainless Steel / Brass

\* For other optional material consult BERMAD.

\*\* Materials may vary according to sanitary standard.

## How to Order

Please Specify the requested valve in the following sequence:

BERMAD Segment	Size <sup>1</sup>	Model	Approval Group	End Connections & Pressure Rating	Ordering code would be																																																				
BC	3"	43Q	P0	16	BC-3"-43Q-P0-16																																																				
Buildings & Constructions	<table border="1"> <thead> <tr> <th>Inch</th> <th>mm</th> </tr> </thead> <tbody> <tr><td>1½"</td><td>40</td></tr> <tr><td>2"</td><td>50</td></tr> <tr><td>2½"</td><td>65</td></tr> <tr><td>3"</td><td>80</td></tr> <tr><td>4"</td><td>100</td></tr> <tr><td>6"</td><td>150</td></tr> <tr><td>8"</td><td>200</td></tr> <tr><td>10"</td><td>250</td></tr> <tr><td>12"</td><td>300</td></tr> </tbody> </table>	Inch	mm	1½"	40	2"	50	2½"	65	3"	80	4"	100	6"	150	8"	200	10"	250	12"	300	<table border="1"> <thead> <tr> <th colspan="2">Potable Water<sup>2</sup></th> </tr> </thead> <tbody> <tr> <td>European Standards</td> <td><b>P1</b></td> </tr> <tr> <td>NSF 61/372</td> <td><b>P2</b></td> </tr> <tr> <td>Australia Standards</td> <td><b>P3</b></td> </tr> <tr> <td>Unregistered</td> <td><b>P0</b></td> </tr> </tbody> </table>	Potable Water <sup>2</sup>		European Standards	<b>P1</b>	NSF 61/372	<b>P2</b>	Australia Standards	<b>P3</b>	Unregistered	<b>P0</b>	<table border="1"> <thead> <tr> <th colspan="3">Up to 250 psi / PN16</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Grooved</td> <td>ANSI C606</td> <td><b>VI</b></td> </tr> <tr> <td>BS 1378</td> <td><b>VB</b></td> </tr> <tr> <td rowspan="3">Flanged</td> <td>ISO-16</td> <td><b>16</b></td> </tr> <tr> <td>ABNT16</td> <td><b>B6</b></td> </tr> <tr> <td>ANSI 150</td> <td><b>A5</b></td> </tr> <tr> <td rowspan="2">Threaded</td> <td>AST-*</td> <td><b>S*</b></td> </tr> <tr> <td>BSP</td> <td><b>BP</b></td> </tr> <tr> <td></td> <td>NPT</td> <td><b>NP</b></td> </tr> </tbody> </table>	Up to 250 psi / PN16			Grooved	ANSI C606	<b>VI</b>	BS 1378	<b>VB</b>	Flanged	ISO-16	<b>16</b>	ABNT16	<b>B6</b>	ANSI 150	<b>A5</b>	Threaded	AST-*	<b>S*</b>	BSP	<b>BP</b>		NPT	<b>NP</b>	<ol style="list-style-type: none"> <li>Larger sizes available on request</li> <li>BERMAD complies with a wide range of international potable water standards. Please consult with BERMAD about compliance.</li> </ol>
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ACS  
France



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Russia



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Poland



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