

DESCRIPTION

Armaş "QR" model quick relief control valve is the safety control valve designed to protect system by releasing pressure surges to atmosphere quickly caused from sudden changes in water speed because pumps put into/out of service frequently in water network elevation lines. When network pressure goes beyond set point, valve opens by itself quickly and protects system by releasing over pressure. When line pressure decreases to normal level, it is closed slowly and automatically as wholly sealed without causing surge.

PURCHASE SPECIFICATIONS

The valve will be diaphragm actuated disc closing automatic hydraulic control valve which works with line pressure. Double-chamber diaphragm actuator provides quicker and non-impact opening/closing thanks to disc-closing valve design and prevents blockage by showing less sensitivity against solid substances within fluid.

ORDER INFORMATION

Please submit following information to our sales department while ordering.

Maximum flow rate	: m³/h
Maximum network/line pressure	: bar
Main line size	: mm
Valve connection type	: ---
Maximum upstream pressure	: bar
Desired upstream pressure	: bar

CONTROL SYSTEM COMPONENTS

- 1 Quick Pressure Relief Pilot Valve
- 2 Ball Valves
- 3 In-line Finger Filter
- 4 Pressure Gauge
- 5 Adjustment Bolt

QUICK SIZING

• Quick Pressure control valve is mounted on network in TE configuration.

• Since valve's function is to release pressure, valve diameter may be selected as equal to or in closest smaller size than main pipe diameter. Valve diameter should be selected as smaller than main pipe diameter. Following empirical formula may be used in determining diameter of quick pressure relief control valve. Where;

$$D = \sqrt{\frac{250 \times Q}{Hm}}$$

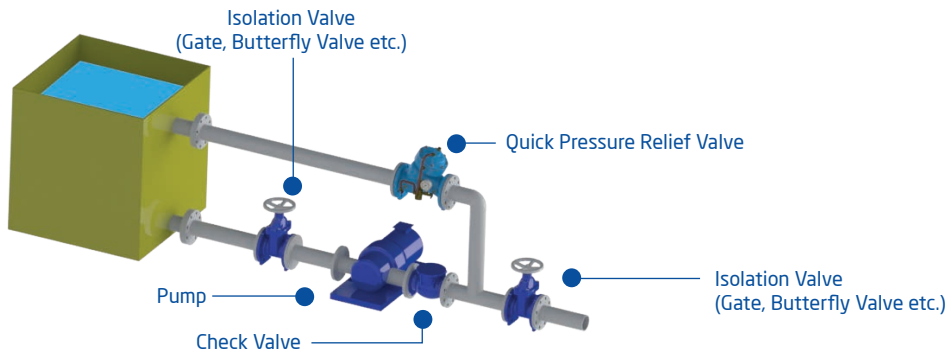
D = Diameter of quick pressure relief control valve (mm)

Q = System Flow Rate (m³/h)

Hm = System Operating Pressure (meter → 1 bar ≈ 10 meter)

• Valve closing time is proportional with pipe length. As system pipe length increases, valve closing time should be increased.

TYPICAL APPLICATION



Armaş Quick Pressure Relief Valves protect pipe-line and system equipments during pressure fluctuations.