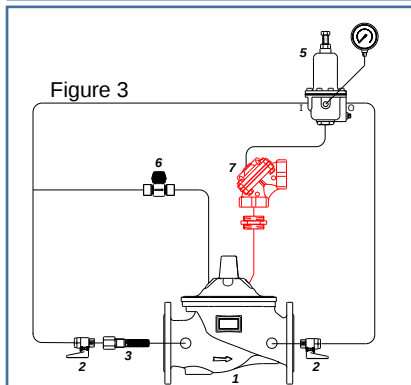
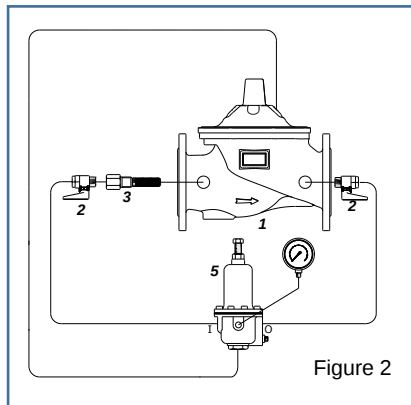
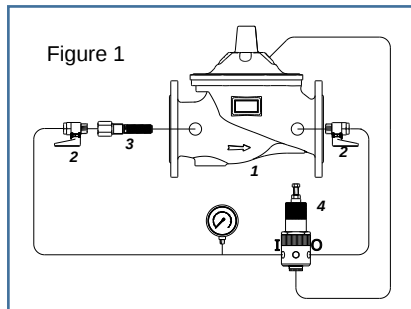


### DESCRIPTION:

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.

### MAIN CONTROL SYSTEM COMPONENTS:

- 1) Main Valve
- 2) Ball Valve
- 3) Finger Filter
- 4) QRP2W Quick Pressure Relief Pilot  
Sizes: 2"-5" (PN16) Figure1
- 5) PSBP Pressure Sustaining Pilot  
Sizes: 2"-8" (PN16-25)-Figure2
- 6) Needle Valve
- 7) 64 Series Valve 2" (8" and above size) – Figure3



### 77QR

### Quick Pressure Relief Valve



### TECHNICAL SPECIFICATIONS:

| General Specifications           |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Operation Pressure               | 0,5 bar – 25 bar                                                                        |
| Working Temperature              | (-10°C) - (80°C)                                                                        |
| Size Range                       | 2" – 8"                                                                                 |
| Main Valve Type                  | Diaphragm Actuated<br>Disc Closed<br>Globe<br>Single Chamber                            |
| Material Properties              |                                                                                         |
| Body - Cover                     | Ductile Iron                                                                            |
| Diaphragm                        | Reinforced Natural Rubber (standard)<br>EPDM (optional)                                 |
| Internals                        | Stainless Steel, Ductile Iron w/ epoxy coated                                           |
| Coating                          | Epoxy Powder (Blue)                                                                     |
| Seals                            | NBR                                                                                     |
| Control System                   |                                                                                         |
| Pressure Relief Pilot "QRP2W"    | Brass (standard)<br>Stainless Steel (optional)                                          |
| Pressure Sustaining Pilot "PSBP" | Brass (standard)<br>Stainless Steel (optional)                                          |
| 64 Series Basic Valve            | for 8" and above size                                                                   |
| Fittings                         | Forged Brass (standard)<br>Stainless Steel (optional)                                   |
| Tubing                           | Copper (standard)<br>Reinforced nylon airbrake (optional)<br>Stainless Steel (optional) |
| Connection                       |                                                                                         |
| Flanged                          | TS EN 1092/2 (standard)<br>ANSI Class 150 (optional)                                    |

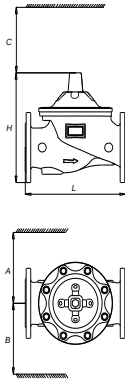
### QUICK SIZING:

■ 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.

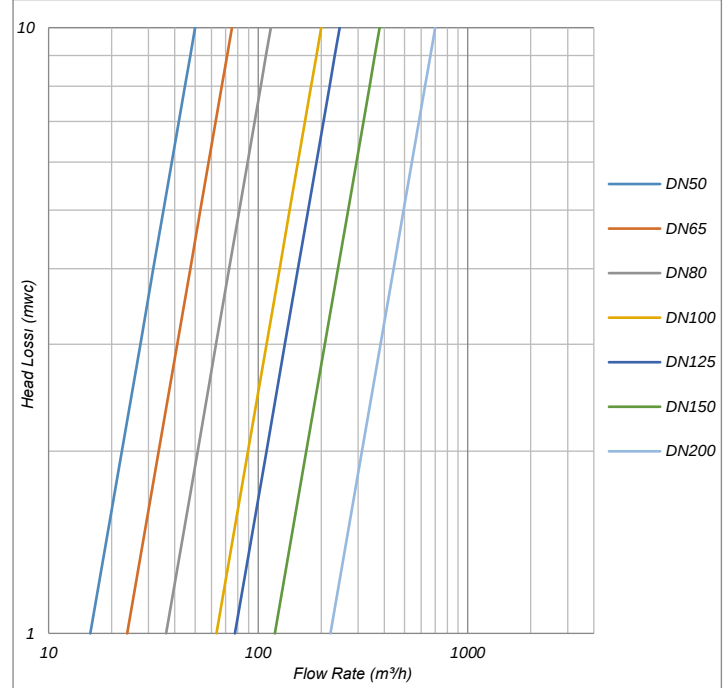
| Valve Size                | mm           | 50  | 65  | 80  | 100  | 125  | 150  | 200  |
|---------------------------|--------------|-----|-----|-----|------|------|------|------|
|                           | inch         | 2   | 2½  | 3   | 4    | 5    | 6    | 8    |
| Kv                        | m³/h @ 1 bar | 50  | 75  | 115 | 200  | 245  | 380  | 700  |
| Cv                        | gpm @ 1 psi  | 58  | 87  | 133 | 231  | 283  | 439  | 809  |
| Maximum Flow Continuance  | m³/h         | 39  | 66  | 100 | 156  | 243  | 350  | 622  |
|                           | gpm          | 171 | 289 | 438 | 685  | 1070 | 1541 | 2739 |
| Maximum Flow Intermittent | m³/h         | 78  | 131 | 199 | 311  | 486  | 573  | 848  |
|                           | gpm          | 342 | 579 | 876 | 1369 | 2140 | 2521 | 3735 |

### DIMENSIONS:

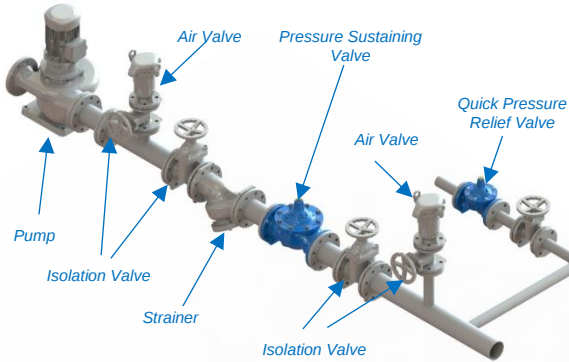
| Size |     | H,C | L   | A,B |
|------|-----|-----|-----|-----|
| inch | mm  | mm  | mm  | mm  |
| 2    | 50  | 260 | 230 | 390 |
| 2 ½  | 65  | 270 | 290 | 390 |
| 3    | 80  | 315 | 310 | 415 |
| 4    | 100 | 350 | 350 | 430 |
| 5    | 125 | 450 | 400 | 455 |
| 6    | 150 | 545 | 480 | 500 |
| 8    | 200 | 625 | 600 | 530 |



### FLOW CHART:



### TYPICAL INSTALLATION:



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