

CV11

CHECK VALVES

GENERAL FEATURES

Check valves are commonly used armatures that can be applied for liquid, gaseous and steam applications. They increase the process safety and can be used instead of complicated armatures. Because of short installation time and installation distance, small dimensions; Ayvaz disco check valve appears to be advantageous.

Check valves provide the flows just one way. When liquid flows through to flowing direction, check valves open and let it pass. But liquid tries to flow opposite direction of flowing, check valves close and prevent passing.

Connection:
Wafer type

Installation:
Installation can be done every position.

Typical Applications

Heating, airconditioning pipe lines
Wood-working, pulp and paper industry
Iron and steel industry, mining industry
Mineral-oil industry
Textile industry
Ship building
Water, condensate and steam lines

| Technical Specifications | |
|--------------------------|--------|
| Max. Working Pressure | 16 bar |
| Max. Working Temperature | 250°C |

| Diameters | |
|-----------|----------|
| DN (mm) | inch |
| 125-200 | 5" - 10" |

CONNECTIONS

| | |
|-------------------------------------|--|
| CV 11 Between Flanges/ Wafer Tip | BS 10 tables D,E,F DIN 2501 (PN/6/10/16) ANSI B 16.1 class 125 FF |
|-------------------------------------|--|

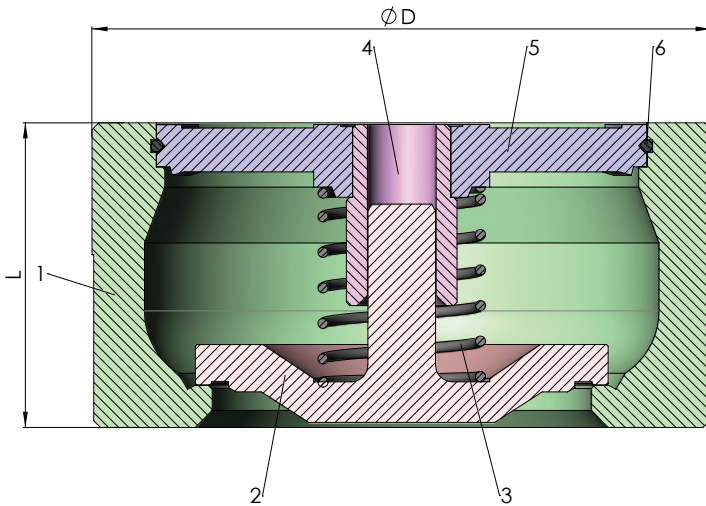
WORKING CONDITIONS

| | |
|-------------------------------|-------------|
| Nominal Pressure (PN) | 16 |
| Min. Temperature (°C) | -10 |
| Max. Working Pressure (bar) | 16-13-13 |
| Temp. related to Pressure(°C) | 120-200-300 |

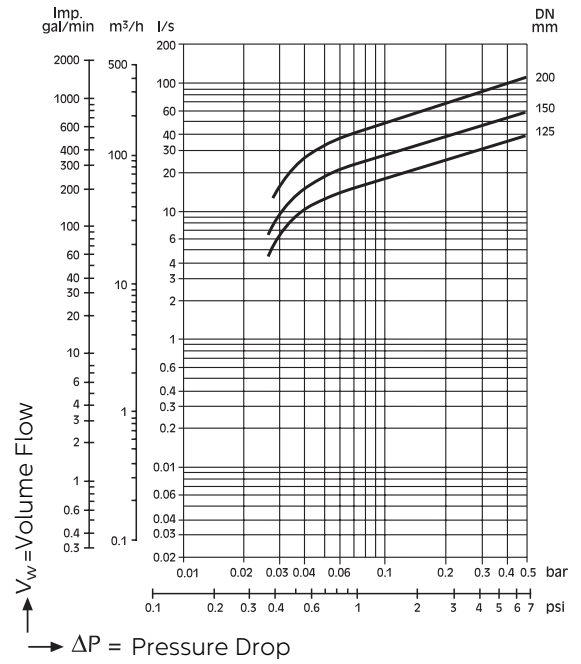
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The curves given in the chart are valid for water at 20°C. To read the pressure drop for other fluids the equivalent water volume flow rate must be calculated and used in the graph.

The values indicated in the chart are applicable to spring-loaded valves with horizontal flow.



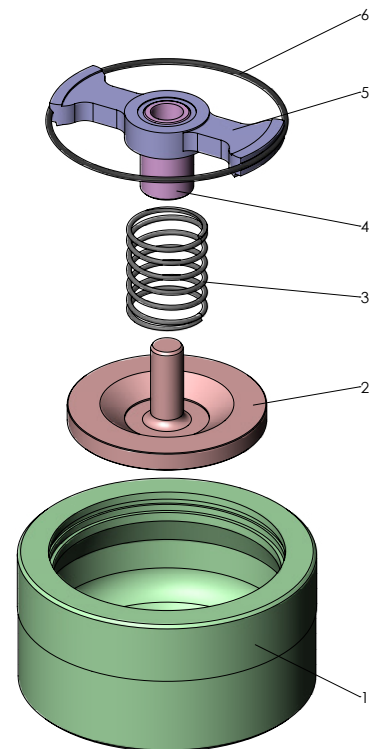
Pressure Graph



| SPARE PARTS | | CV 11 |
|-------------|----------------|-----------------|
| 1 | Body | GG-25 Cast Iron |
| 2 | Disc | GG-25 Cast Iron |
| 3 | Spring | Stainless Steel |
| 4 | Centering Part | Stainless Steel |
| 5 | Segment Holder | Cast Iron |
| 6 | Segment | Stainless Steel |

| Dimensions | | | | |
|------------|-----|-----|-----|-----|
| Dia. mm | 125 | 150 | 200 | 250 |
| D (mm) | 183 | 210 | 264 | 328 |
| L (mm) | 90 | 106 | 142 | 200 |

| OPENING PRESSURE MBAR | | | | |
|-----------------------|---------------------|-------------|------|----|
| DN | Flow Direction | | | |
| | Without Spring ↑ | Spring ↑ | ⇒ | ↓ |
| 125 | 10,5 | 31 | 20,5 | 10 |
| 150 | 11,5 | 33 | 21,5 | 10 |
| 200 | 11,2 | 32,4 | 21.2 | 10 |



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