

Check Valves are self acted by the media pressure and are devised to prevent the flow return to the pressurized side of the system. Piston Check Valves provide a larger pressure drop in the pipe line, this design permits a faster closure reaction and more tightness. Swing Check Valves are provided with a bolted disc that opens by the medium pressure and closes against a vertical seat when the system pressure is off and there is a back flow. Piston Check Valves are provided with a guided piston which is loaded by a spring and closes the disc against a horizontal valve seat.

Body to cover joint design to apply a uniform load to the gasket

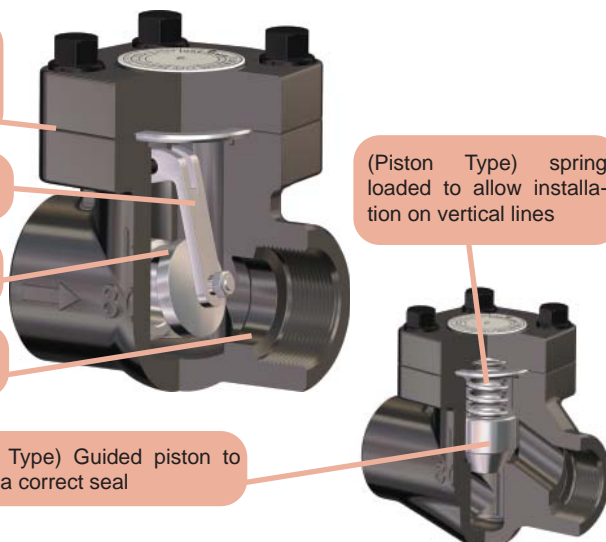
(Swing Disc) Disc hold by bolted arm

(Swing Disc) Vertical seat, avoids trapping of media particles

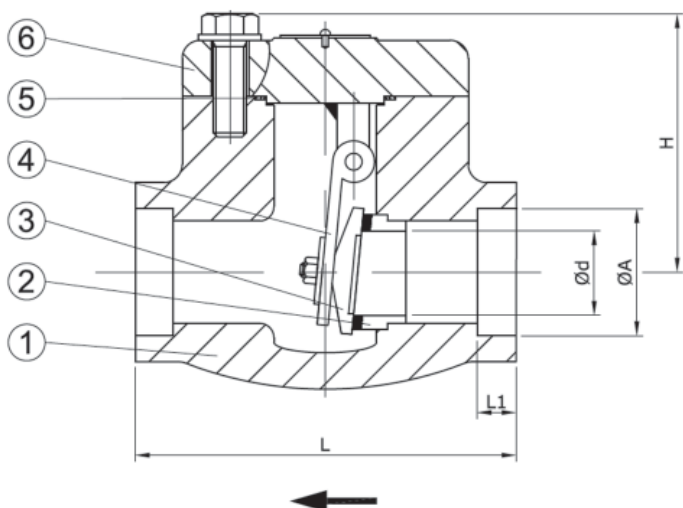
(Swing Disc), Full Bore, low pressure drop

(Piston Type) spring loaded to allow installation on vertical lines

(Piston Type) Guided piston to assure a correct seal



API 602 / ASME B.16.34 design* Self Acting Non return valves * Closure element by bolted arm or guided piston* Uni-directional design (observe arrow direction when installing)* Standard Design Pressure Range: ANSI Class 800* Standard Size range 1/2" to 2"* Design Temperature Range: up to 425°C (observe pressure / Temperature relation chart to ANSI B.16.34) * face to face length ANSI B.16.34 * Ends: ANSI B.16.25 and BW ANSI B.16.11 SW and Threaded NPT standard * Inspection and Test standards API 598



Main Parts and Materials

| Nº | PART | MATERIALES |
|----|----------------------|------------------------|
| 1 | BODY | ASTM A105N |
| 2 | SEAT | (SEE TRIM CHART) |
| 3 | DISC | (SEE TRIM CHART) |
| 4 | SPRING (PISTON TYPE) | AISI 302 |
| 5 | UNION GASKET | SPIRAL WOUND ST. STEEL |
| 6 | COVER | ASTM A105N |

| Fig. 39A0 | Disc | Seat |
|-----------|--------------|-----------|
| TRIM #1 | A216WCB+13Cr | A105+13Cr |
| TRIM #5 | A216WCB+HF | A105+HF |
| TRIM #8 | A216WCB+13Cr | A105+HF |

* HF = Material endurecido / Hard faced

Main Valve Dimensions (mm)

| DN | | L | H | Ød | ØA | L1 |
|--------|----|-----|-----|------|------|------|
| inch | mm | | | | | |
| 1/2" | 15 | 79 | 61 | 9 | 22,2 | 9,6 |
| 3/4" | 20 | 92 | 61 | 12 | 27,7 | 12,7 |
| 1" | 25 | 111 | 78 | 17,5 | 34,5 | 12,7 |
| 1 1/4" | 32 | 120 | 84 | 22,5 | 43,2 | 12,7 |
| 1 1/2" | 40 | 120 | 101 | 29,5 | 49,1 | 12,7 |
| 2" | 50 | 140 | 120 | 35 | 61,1 | 15,9 |

Options

Special Alloy valves * Pressure Seal for high pressure service*

Main Duties

Process*Saturated Steam (Trim #5) *Oil products*

Check Valves are self acted by the media pressure and are devised to prevent the flow return to the pressurized side of the system. Swing Check Valves are provided with a bolted disc that opens by the medium pressure and closes against a vertical seat when the system pressure is off and there is a back flow. Swing Check Valves are featured by its rugged design, simple design and easy maintenance.

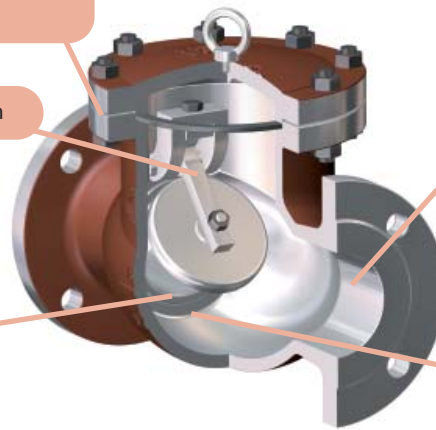
Body to cover joint design to apply a uniform load to the gasket

Disc hold by bolted arm

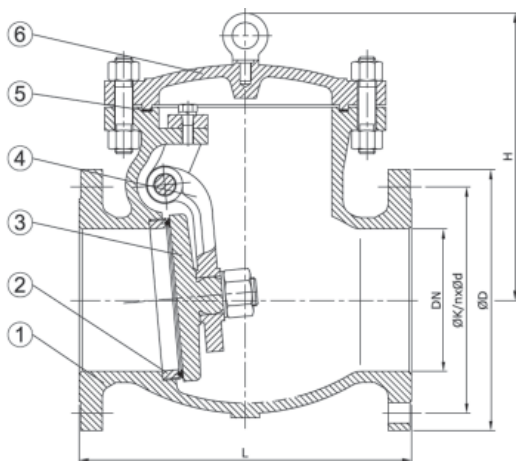
Full Bore, low pressure drop

Vertical seat, avoids trapping of media particles

Diverse trim specifications are available to provide an increased duration



API 6D/ASME B16.34 Design Self Acting Non return valves * Closure element by bolted arm * Uni-directional design (observe arrow direction when installing)* Standard Design Pressure Range: ANSI Class 150#, 300# (others on request: 600#, 900#, 1500#, 2500#)* Standard Size range 2" – 36"* Design Temperature Range: 450°C (observe pressure / Temperature relation chart to ANSI B.16.34) * face to face length ANSI B.16.10 * Ends: Flanged to ANSI B.16.5, RF & RTJ finishing, / BW ends to ANSI B.16.25 and SW to ANSI B.16.11 standard * Inspection and Test standards API 598



Main Parts and Materials

| Nº | PART | MATERIALES |
|----|--------------|------------------------|
| 1 | BODY | ASTM A216 WCB |
| 2 | SEAT | (SEE TRIM CHART) |
| 3 | DISC | (SEE TRIM CHART) |
| 4 | ARM | STEEL |
| 5 | UNION GASKET | SPIRAL WOUND ST. STEEL |
| 6 | COVER | ASTM A216 WCB |

(Standard Materials, other material are provided on request)

| Fig.3SA0 | Disc | Seat |
|----------|--------|-------------|
| TRIM #1 | F6A | A276-410 |
| TRIM #5 | F6A+HF | A276-410+HF |
| TRIM #8 | F6A | A276-410+HF |

* HF = Material endurecido / Hard faced

Main Valve Dimensions (mm)

| | DN | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|----------------------|----|------|------|------|------|------|-------|-------|-------|-------|
| L (RF) (150#) | | 203 | 216 | 241 | 292 | 330 | 356 | 495 | 622 | 699 |
| L (RF) (300#) | | 267 | 292 | 318 | 356 | 400 | 445 | 533 | 622 | 711 |
| H (150#) | | 132 | 147 | 176 | 198 | 255 | 320 | 380 | 440 | 480 |
| H (300#) | | 144 | 169 | 210 | 260 | 295 | 326 | 380 | 440 | 520 |
| K (150#) | | 120 | 140 | 152 | 191 | 216 | 241 | 298 | 362 | 432 |
| nxød (150#) | | 4x19 | 4x19 | 4x19 | 8x19 | 8x22 | 8x22 | 8x22 | 12x25 | 12x25 |
| K (300#) | | 127 | 149 | 168 | 200 | 235 | 270 | 330 | 387 | 451 |
| nxød (300#) | | 8x19 | 8x22 | 8x22 | 8x22 | 8x22 | 12x22 | 12x25 | 16x29 | 16x32 |

Options

Diverse materials of construction and Trim combinations * Special designs*

Main Duties

Process*Saturated Steam (Trim #5) *Oil products*