

HYFLO

FIRE PROTECTION

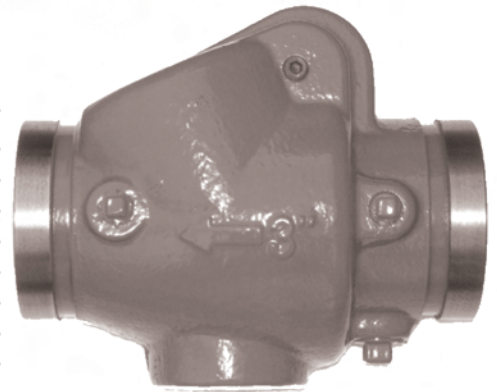
HYF-707-CK 350PSI Grooved-End Swing Check Valve

Application: Fire Protection/Air-condition/Plumping
 Installed in both Horizontal or Vertical Line with Upward Flow
 Easy and Fast to Maintain and Install
 Low Pressure Drop
 EPDM non-stick leak tight sealing
 All Stainless Steel Wetted Parts to Provide Superior Corrosion Resistance
 UL listed – FM approved

HYF-707-CK

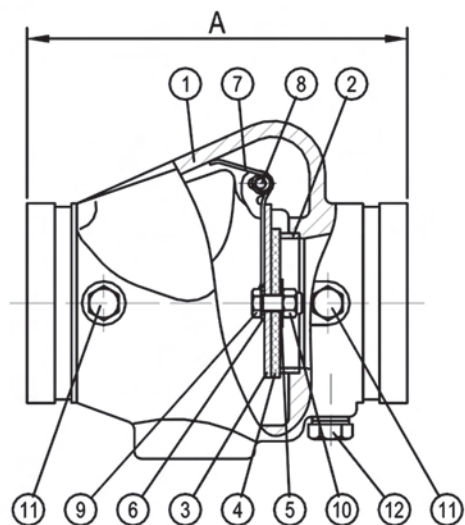
MATERIAL SPECIFICATIONS

| No. | PART | SPECIFICATION |
|-----|---------------|-------------------------|
| 1 | Body | Ductile Iron ASTM A 536 |
| 2 | Seat | Bronze |
| 3 | Clapper | Stainless Steel 304 |
| 4 | Facing Seal | EPDM Rubber |
| 5 | Clamping Ring | Stainless Steel 304 |
| 6 | Gasket | EPDM Rubber |
| 7 | Spring | Stainless Steel 304 |
| 8 | Hinge Pin | Stainless Steel 304 |
| 9 | Bolt | Stainless Steel 304 |
| 10 | Locknut | Stainless Steel 304 |
| 11 | Plug 1/4" NPT | Carbon Steel |
| 12 | Plug 1/2" NPT | Carbon Steel |



DIMENSION

| size | OD | | A | | Weight | |
|------|-----|-------|-------|-----|--------|------|
| | in. | mm | in. | mm | lbs | kg |
| 2 | 50 | 60.3 | 6.65 | 169 | 5.5 | 2.5 |
| 2½ | 65 | 73.0 | 7.20 | 183 | 8.8 | 4.0 |
| 3OD | 65 | 76.1 | 7.20 | 183 | 8.8 | 4.0 |
| 3 | 80 | 88.9 | 7.80 | 198 | 13.0 | 6.0 |
| 4 | 100 | 114.3 | 8.58 | 218 | 20.0 | 9.0 |
| 5½OD | 125 | 139.7 | 9.76 | 248 | 33.0 | 15.0 |
| 5 | 125 | 141.3 | 9.76 | 248 | 33.0 | 15.0 |
| 6½OD | 150 | 165.1 | 10.63 | 270 | 42.0 | 19.0 |
| 6 | 150 | 168.3 | 10.63 | 270 | 42.0 | 19.0 |
| 8 | 200 | 219.1 | 12.80 | 325 | 77.0 | 35.0 |
| 10 | 250 | 273.0 | | | | |
| 12 | 300 | 323.9 | | | | |



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Check Valve Performance Data

Formulas for C_v Values

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

Where: Q = Flow rate (gallons per minute: GPM)

ΔP = Pressure drop across valve (PSI)

C_v = Flow coefficient

| Nominal Size | Pipe O.D. | Cv (Full Open) | Nominal Size | Pipe O.D. | Cv (Full Open) | Nominal Size | Pipe O.D. | Cv (Full Open) |
|--------------|-----------|----------------|--------------|-----------|----------------|--------------|-----------|----------------|
| In. | mm | mm | In. | mm | mm | In. | mm | mm |
| 2 | 50 | 60.3 | 4 | 100 | 114.3 | 6½ OD | 150 | 165.1 |
| 2½ | 65 | 73.0 | 5½ OD | 125 | 139.7 | 6 | 150 | 168.3 |
| 3 OD | 56 | 76.1 | 5 | 125 | 141.3 | 8 | 200 | 219.1 |
| 3 | 80 | 88.9 | | | 700 | | | 1800 |

