

Visual flow indicators

Technopolymer ends

ENDS

Polypropylene based (PP) technopolymer, black colour, matte finish.

AXIS AND ROTOR PROPELLER

Polypropylene based (PP) technopolymer, red colour.

TUBULAR WINDOW

Borosilicate glass, high-resistance, also suitable for use with glycol-based solutions.

Maximum visibility of the flow from all angles.

TIE RODS

AISI 316L stainless steel.

SCREWS AND NUTS

Zinc-plated steel.

STANDARD EXECUTIONS

Cylindrical gas threading according to UNI ISO 228/1 or conical gas NPT - ANSI-ASME B1-20.

- **HVF.**: brass bosses and NBR synthetic rubber gasket.
- **HVF-SST**: AISI 316 stainless steel bosses and packing ring in VITON[®]**.

MAXIMUM CONTINUOUS WORKING TEMPERATURE

100° C.

FEATURES AND APPLICATIONS

The indicator can be mounted in any position.

In case of mounting on rigid tubes, it is recommended to place the indicator perfectly aligned with the tubes.

The indicator operates with two-way liquid flows.

For rotating the propeller it is required a minimum fluid flow rate (Q^{**}) depending on the type of fluid and its viscosity (shown in cSt, see table)

SPECIAL EXECUTIONS ON REQUEST

- Bosses with NPT conical threads.
- Axis and rotor propeller in blue colour.

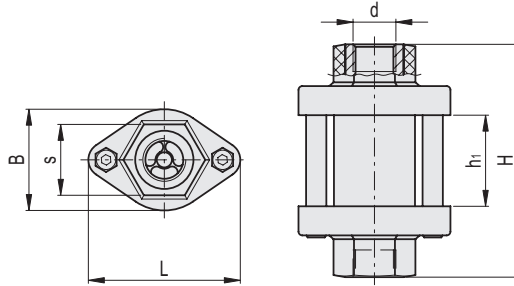
* Registered trademark by Corning Inc.

** Registered trademark by DuPont Dow Elastomers.



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Accessories for hydraulic systems 15



HVF. (G1/4 - G3/8 - G1/2)

| Code | Description | d | H | L | B | h1 | s | Q max* l/min | P max # Bar | Q** l/min H2O | Q** l/min 0+40 cSt | Q** l/min 41+150 cSt | ΔP max ## Bar | ⚖ |
|--------|-------------|-------|----|----|----|----|----|-----------------|----------------|---------------------|--------------------------|----------------------------|------------------|-----|
| 111301 | HVF.66-1/4 | G 1/4 | 66 | 44 | 27 | 22 | 20 | 10 | 25 | 0.6 | 2.5 | 3.5 | 0.15 | 74 |
| 111311 | HVF.92-3/8 | G 3/8 | 92 | 60 | 40 | 36 | 28 | 20 | 15 | 1.2 | 3 | 4 | 0.25 | 176 |
| 111321 | HVF.92-1/2 | G 1/2 | 92 | 60 | 40 | 36 | 28 | 40 | 15 | 1.2 | 3 | 4 | 0.3 | 167 |

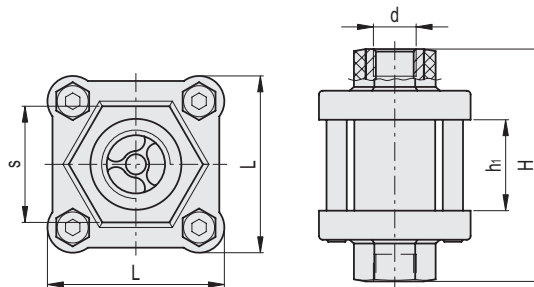
HVF. (NPT 1/4 - 3/8 - 1/2)

| | | | | | | | | | | | | | | |
|--------|----------------|---------|----|----|----|----|----|----|----|-----|-----|-----|------|-----|
| 111304 | HVF.66-1/4 NPT | 1/4 NPT | 66 | 44 | 27 | 22 | 20 | 10 | 25 | 0.6 | 2.5 | 3.5 | 0.15 | 74 |
| 111317 | HVF.92-3/8 NPT | 3/8 NPT | 92 | 60 | 40 | 36 | 28 | 20 | 15 | 1.2 | 3 | 4 | 0.25 | 176 |
| 111324 | HVF.92-1/2 NPT | 1/2 NPT | 92 | 60 | 40 | 36 | 28 | 40 | 15 | 1.2 | 3 | 4 | 0.3 | 167 |

HVF-SST (G1/4 - G3/8 - G1/2)

STAINLESS STEEL

| | | | | | | | | | | | | | | |
|--------|----------------|-------|----|----|----|----|----|----|----|-----|-----|-----|------|-----|
| 111302 | HVF.66-SST-1/4 | G 1/4 | 66 | 44 | 27 | 22 | 20 | 10 | 25 | 0.6 | 2.5 | 3.5 | 0.15 | 74 |
| 111312 | HVF.92-SST-3/8 | G 3/8 | 92 | 60 | 40 | 36 | 28 | 20 | 15 | 1.2 | 3 | 4 | 0.25 | 176 |
| 111322 | HVF.92-SST-1/2 | G 1/2 | 92 | 60 | 40 | 36 | 28 | 40 | 15 | 1.2 | 3 | 4 | 0.3 | 167 |



HVF. (G3/4 - G1)

| Code | Description | d | H | L | h1 | s | Q max* l/min | P max # Bar | Q** l/min H2O | Q** l/min 0+40 cSt | Q** l/min 41+150 cSt | ΔP max ## Bar | ⚖ |
|--------|-------------|-------|-----|----|----|----|-----------------|----------------|---------------------|--------------------------|----------------------------|------------------|-----|
| 111331 | HVF.114-3/4 | G 3/4 | 114 | 70 | 46 | 46 | 60 | 12 | 2.1 | 3.7 | 5 | 0.17 | 663 |
| 111341 | HVF.114-1 | G 1 | 114 | 70 | 46 | 46 | 80 | 12 | 2.1 | 3.7 | 5 | 0.15 | 667 |

HVF. (NPT 3/4 - 1)

| | | | | | | | | | | | | | |
|--------|-----------------|---------|-----|----|----|----|----|----|-----|-----|---|------|-----|
| 111333 | HVF.114-3/4 NPT | 3/4 NPT | 114 | 70 | 46 | 46 | 60 | 12 | 2.1 | 3.7 | 5 | 0.17 | 663 |
| 111346 | HVF.114-1 NPT | 1 NPT | 114 | 70 | 46 | 46 | 80 | 12 | 2.1 | 3.7 | 5 | 0.15 | 667 |

HVF-SST (G3/4 - G1)

STAINLESS STEEL

| | | | | | | | | | | | | | |
|--------|-----------------|-------|-----|----|----|----|----|----|-----|-----|---|------|-----|
| 111332 | HVF.114-SST-3/4 | G 3/4 | 114 | 70 | 46 | 46 | 60 | 12 | 2.1 | 3.7 | 5 | 0.17 | 663 |
| 111342 | HVF.114-SST-1 | G 1 | 114 | 70 | 46 | 46 | 80 | 12 | 2.1 | 3.7 | 5 | 0.15 | 667 |

* Maximum flow rate

Maximum pressure

** Minimum flow rate to start the rotor for fluids of different viscosity

Pressure drop due to the indicator presence

