Return Line Filters

HV6RD Series

Flows to 1700 L/min (450 USgpm)
Pressures to 25 bar (360 PSI)

Features and Benefits

- Extremely large filtration area and flow capacity
- Designed for both in-tank and inline applications
- Easy filter replacement using screw-on lid.
- Vent and drain ports are standard.
- Anodization is not required for aluminum alloy when using water based fluids.
- Reusable contamination basket prevents re-entry of retained contaminant's into the reservoir during element replacement.
- Filters can be fitted with clogging indicators to monitor the contamination level of the element
- HV6RD duplex filters have a ball-type selector valve to provide continuous filtration and eliminate the need to shut-down the system during element changeout.

DESIGN SPECIFICATIONS

Rated flow:	Length 1 Length 2	1300 L/min (343 USgpm) 1700 L/min (450 USgpm)
Fluid compatibility:		Compatible with most petroleum oil, oil-in-water and water-in-oil fluids. Optional seals available for phosphate esters.
Temp range:		-30°C to +121°C (-22°F to +250°F)
Pressure rating:	Operating Fatigue	25 bar (360 PSI) 25 bar (360 PSI)
Material:	Head Housing Manifolds	Aluminum Aluminum Ductile Iron
Dry weight: (Approximate)	Length 1 Length 2	33,6 kg. (74 lbs) 79,8 kg. (176 lbs)

Series HV6RD Filter Model Code

Sample model code:

HV6RD1F2AB1C05

Note:

Elements used in the HV6RD are not dimensionally equivalent to elements in the HV6R series. An indicator is supplied for each side.

HV6RD	1	F	*	*	*	*	C	**	*
1	2	3	4	5	6	7	8	9	10

1 Filter Series - HV6RD

2 Element Collapse Rating

1 - 250 PSI Low Collapse

3 Port Options

F - Flanged

4 Valve Options

1 - Non-Bypass
2 - Bypass set at 25 PSI pressure
4 - Bypass set at 43 PSI cracking
6 - Bypass set at 87 PSI pressure

5 Indicator Options

AN - Visual 70 PSI, No Connector
KN - Visual 15 PSI, No Connector
LN - Visual 30 PSI, No Connector
JN - No Indicator (plug), No Connector
MB - Electrical 15 PSI, Brad Harrison
MJ - Electrical 15 PSI, Hirshman w 24 volt light
MK - Electrical 15 PSI, Hirshman w 115 volt light
ML - Electrical 15 PSI, Hirshman w 230 volt light
MH - Electrical 15 PSI, Hirshman
RB - Electrical 30 PSI, Brad Harrison
RJ - Electrical 30 PSI, Hirshman w 24 volt light
RK - Electrical 30 PSI, Hirshman w 115 volt light
RL - Electrical 30 PSI, Hirshman w 230 volt light
RH - Electrical 30 PSI, Hirshman
UB - Electrical 70 PSI, Brad Harrison
UJ - Electrical 70 PSI, Hirshman w 24 volt light
UK - Electrical 70 PSI, Hirshman w 115 volt light
UL - Electrical 70 PSI, Hirshman w 230 volt light
UH - Electrical 70 PSI, Hirshman

6 Seal Material

B - Buna-N
V - Viton-A

7 Assembly Length

mm (inch)
1 - 606 (24)
2 - 1045 (41)

8 Element Construction

C - Standard Construction

9 Fluid Cleanliness Rating

Code	Target fluid cleanliness level
03	16/**14/12** or better
05	18/**16/14** or better
10	20/**18/15** or better
20	22/**19/16** or better

10 Facing Indicator Flow Path

A - Front inlet, front outlet
B - Front inlet, back outlet
C - Top inlet, front outlet
D - Top inlet, bottom outlet

Items not in bold are non-standard and may have a longer lead time

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V301 2 * * C *

1 2 3 4 5 6

V301 Element model code

Sample model code:

V30112B1C10

1 Filter Element - V301

2 Element Collapse Rating

2 - 250 PSI Collapse

3 Seal Material

B - Buna-N
V - Viton-A

4 Element Length

mm (inch)
1 - 254 (10)
2 - 693 (27)

5 Element Construction

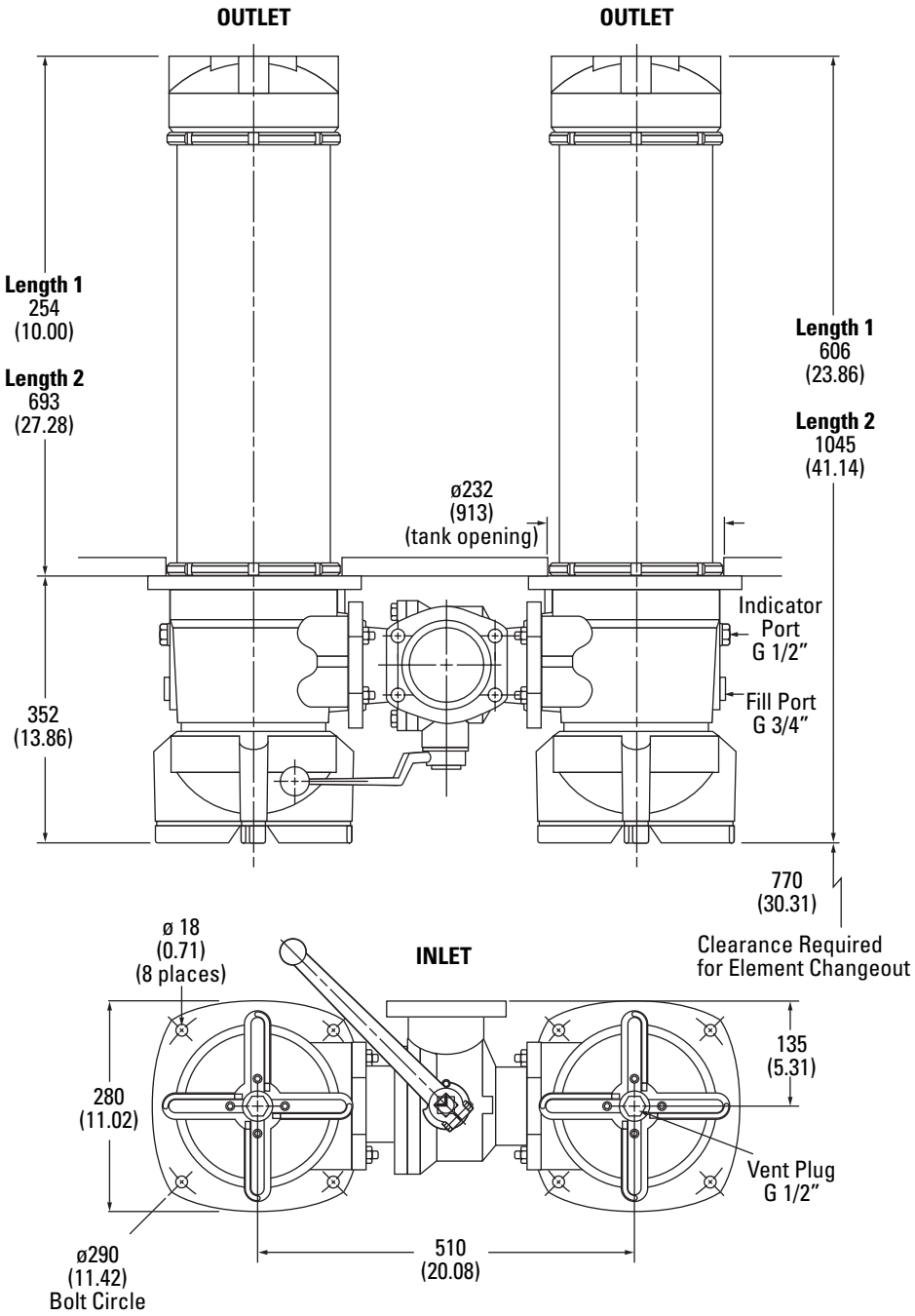
C - C-pak (grade 3, 5, 10, 20)

6 Fluid Cleanliness Rating

Code	Target fluid cleanliness level
03	16/**14/12** or better
05	18/**16/14** or better
10	20/**18/15** or better
20	22/**19/16** or better

Housing Dimensions

mm (inch)



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Flow Data

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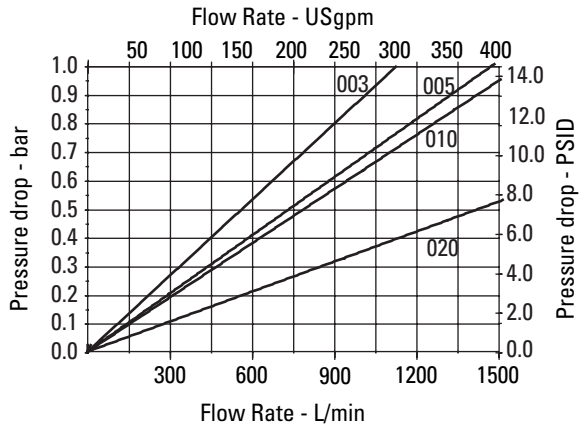
Flow versus pressure drop:

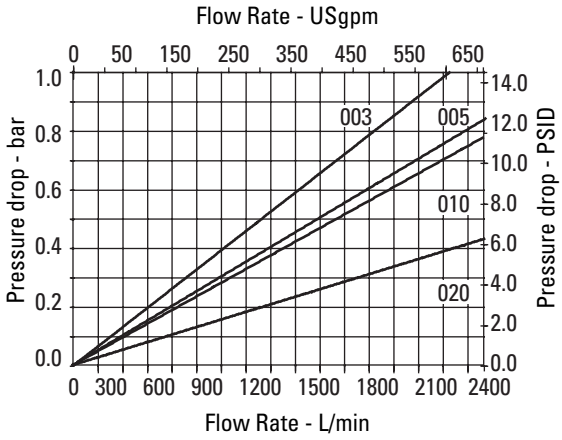
150 SUS (32 cSt) oil with specific gravity of ≤0.9

Element Flow Data

HV6RD C-Pak Length 1

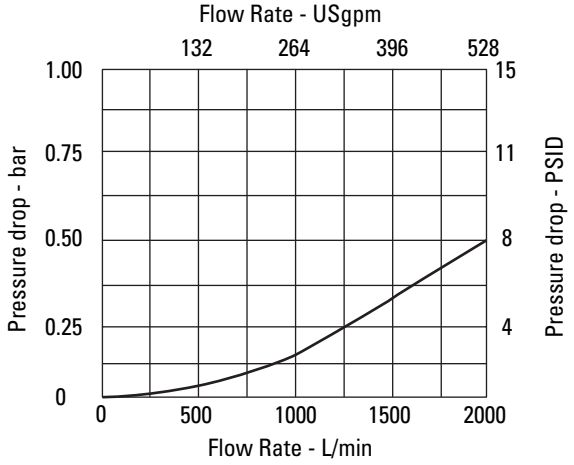


HV6RD C-Pack Length 2



Housing/Bypass Valve Flow Data

Housing



Bypass Valve