

**SHELCO MicroVantage™ HPI Series**  
*High Purity Multi-Cartridge Industrial Filter Housings*

**MicroVantage**  
**Ultra Premium Filter Series**



- 316L stainless steel construction with electro-polished finish for maximum durability and corrosion resistance
- Available with two closure options:
  - V-band clamp closure for quick and easy cartridge change outs
  - Swing Bolt closure for secure sealing
- Holds four through twenty one cartridges for optimal choice of flow rates
- Universal seat for either 222 flat/fin or double open-ended (DOE) style cartridges (226 style connectors are optional)
- Adjustable top plate accepts variable length cartridges
- Gauge Ports with stainless steel liquid pressure gauges (0-200 psi) provide easy monitoring for optimal system maintenance
- Raised Face Flanges for rugged connections
- Mounting legs provide secure installation

**Applications**

Water	Desalination
Chemicals	Food & Beverage
Electronics	Oil / Gas
Power	Inks / Paints / Coatings
Coolants	Pulp & Paper

**Specifications**

**Maximum Operating Pressure**  
150 psig (10.3 bar) @ 300°F (149°C)

**Connections**

Inlet /Outlet: RF flange (Standard)  
2" - 4HPI and 7HPI  
3" - 12HPI  
4" - 21HPI

*Optional: Sanitary Ferrules*

Drain Ports: 1/2" NPT

*Optional: Sanitary Ferrules*

Vent Ports: 1/4" NPT - 4HPI and 7HPI

1/2" NPT - 12HPI and 21HPI

*Optional: Sanitary Ferrules*

**Materials of Construction**

Head / Shell / Connections:

316L Stainless Steel Electro-polished

Closure:

Clamp – 304L Stainless Steel

Swing Bolts – Zinc Plated Steel

**Gaskets**

EPR (FDA Grade)

*Optional: Buna, Silicone, Teflon Encapsulated Silicone, Viton*

**Cartridge Type**

222 or DOE style cartridges

*Optional: 226 adapters*

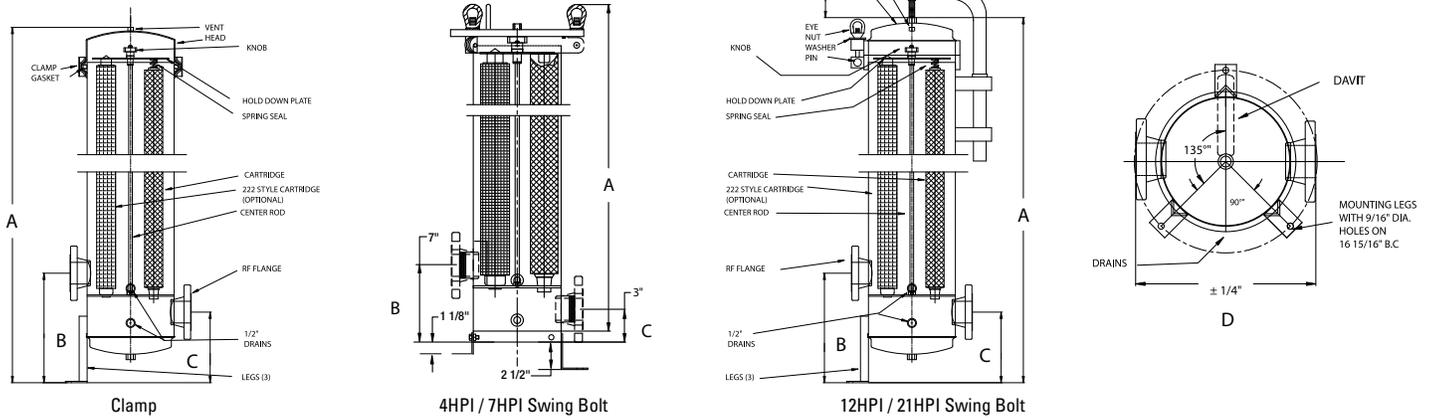
**Custom Options**

*See Ordering Guide for complete listing*

MODEL	QUANTITY (LENGTH) OF CARTRIDGES+	RATED FLOW CAPACITY* GPM(LPM)	MAXIMUM DIAMETER CARTRIDGE	CLAMP STYLE	SWING BOLT STYLE				
					A	B			
4HP1	4(10")	28(106)	2 3/4"	20 7/8" (53.02 cm)	22 1/4" (56.3 cm)	7" (17.8 cm)	3" (7.6 cm)	12" (30.48 cm)	
4HP12	4 (20")	56 (212)	2 3/4"	30 7/8" (78.42 cm)	32 1/4" (81.9 cm)	7" (17.8 cm)	3" (7.6 cm)	12" (30.48 cm)	
4HP13	4 (30")	84 (318)	2 3/4"	40 7/8" (103.82 cm)	42 1/4" (107.3 cm)	7" (17.8 cm)	3" (7.6 cm)	12" (30.48 cm)	
4HP14	4 (40")	112 (424)	2 3/4"	50 7/8" (129.22 cm)	52 1/4" (132.7 cm)	7" (17.8 cm)	3" (7.6 cm)	12" (30.48 cm)	
7HP11	7 (10")	49 (185.5)	2 3/4"	20 1/2" (52.1 cm)	21" (53.3 cm)	8 1/16" (20.5 cm)	3 3/16" (8.4 cm)	14" (35.56 cm)	
7HP12	7 (20")	98 (371)	2 3/4"	30 1/2" (77.5 cm)	40 1/2" (102.9 cm)	8 1/16" (20.5 cm)	3 3/16" (8.4 cm)	14" (35.56 cm)	
7HP13	7 (30")	157 (594.3)	2 3/4"	49 1/2" (125.7 cm)	50 1/2" (154 cm)	8 1/16" (20.5 cm)	3 3/16" (8.4 cm)	14" (35.56 cm)	
7HP14	7 (40")	196 (741.9)	2 3/4"	59 1/2" (151.1 cm)	60 1/2" (153.7 cm)	8 1/16" (20.5 cm)	3 3/16" (8.4 cm)	14" (35.56 cm)	
12HP13	12 (30")	252 (954)	2 3/4"	49 1/2" (125.7 cm)	50 1/2" (154 cm)	15 3/8" (39.1 cm)	10" (25.4 cm)	16 11/16" (42.5 cm)	12" (20.3 cm)
12HP14	12 (40")	336 (1272)	2 3/4"	59 1/2" (151.1 cm)	60 1/2" (153.7 cm)	15 3/8" (39.1 cm)	10" (25.4 cm)	16 11/16" (42.5 cm)	12" (20.3 cm)
21HP13	21 (30")	462 (1749)	2 3/4"	50 3/16" (127.5 cm)	50 3/16" (127.5 cm)		9 1/2" (24.1 cm)	21" (53.3 cm)	12" (25.4 cm)
21HP14	21 (40")	616 (2332)	2 3/4"	60 3/16" (152.9 cm)	60 3/16" (152.9 cm)		9 1/2" (24.1 cm)	21" (53.3 cm)	12" (25.4 cm)

+ Housings will accept cartridge lengths: 10" = (9 3/4" or 10"), 20" = (19 1/2" or 20"), 30" = (29 1/4" or 30") and 40" = (39" or 40")  
 \* Based upon 7 gpm per 10" length with a 25 micron wound cartridge at 2 PSID clean and viscosity of 1 cps. Flow rates are for guidelines only. Actual flow rates are based on fluid, viscosity, cartridge type, micron ratings and other factors.

### Dimensions



### Ordering Guide (Example: 4HP13C-316-226-2F-EP-E-GPA)

MODEL	LENGTH OF CARTRIDGES*	CLOSURE STYLE	MATERIAL	CARTRIDGE CONFIGURATION	CONNECTION SIZE**	CONNECTION TYPE	FINISH	GASKET	OPTIONS
4HP1	1 = 1 High	C = Clamp	316 = 316L	Blank =	2	F = Flange (standard)	EP = Electro-polished (standard)	E = EPR (Standard)	GPA = Gauge ports with Gauges (standard)
7HP1	2 = 2 High	SB = Swing Bolt		Universal	3	TC = Ferrules		B = Buna N	
12HP1	3 = 3 High			Seat for 222	4			S = Silicone	
21HP1	4 = 4 High			FIN/Flat and	6			V = Viton	
				DOE Style				TS = Teflon Encapsulated Silicone	
				Cartridges					
				226 = 226 Style (Fin/Flat)					

\*1 High and 2 High available only in 4HP1 and 7HP1 models

\*\* 2" connections available only with 4HP1 and 7HP1 models. 3" connections are standard for 12HP1 models, 4" connections are standard for 21HP1.

### Customization

Housings may be customized to meet your precise requirements. Contact Shelco's technical support staff or your distributor for more information.



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