

High purity and rugged design for aggressive chemical filtration

The simple, yet rugged design of the filtration housing is an excellent solution to any aggressive chemical filtration problem. The two-piece design allows for ease of installation and a positive seal.

Series TFH uses high purity PFA materials of construction to provide the broadest available chemical compatibility and strong mechanical properties with the lowest possible extractables. Use this choice with a fluoropolymer cartridge for an all fluoropolymer filtration system.

Series TVH uses polyvinylidene fluoride (PVDF) materials of construction to provide excellent chemical compatibility and superior mechanical properties with the lowest possible extractables.

Both series accept a 10 in. (25.4 cm) 222 o-ring / flat SOE style cartridge. Choice of 3/4" NPT or 3/4" butt weld inlet and outlet connections available.



Benefits

- High purity PFA construction
- Also available in PVDF
- Broad chemical compatibility
- Extremely low extractables
- Standard 3/4" gauge connections upstream and downstream

Applications

- High purity acids and bases
- Fine Chemical
- Aggressive solvents
- Acid etch and BOE
- Photomask and Photoresist
 - Chemicals
 - Solvents
 - Developers

SPECIFICATIONS

Materials of Construction

Head and Bowl: High purity PFA
 O-Ring: FEP Encapsulated Viton®
 NPT Plugs: High purity PFA
 Threaded Head
 Inserts: PTFE coated 316
 Stainless steel

Connections

Inlet | Outlet: 3/4" NPT or Butt Weld
 Vent and Drain: 1/4" NPT

Maximum Operating Specifications

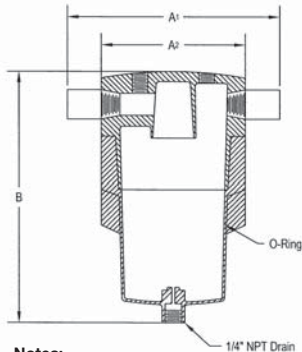
TFH (PFA):
 65psid (4.5bar) @ 203°F (95°C)
 75psid (5.2bar) @ 68°F (20°C)

TVH (PVDF):

110psig @ 203°F (95°C)
 150psig @ 68°F (20°C)

Cartridge Configurations Supported

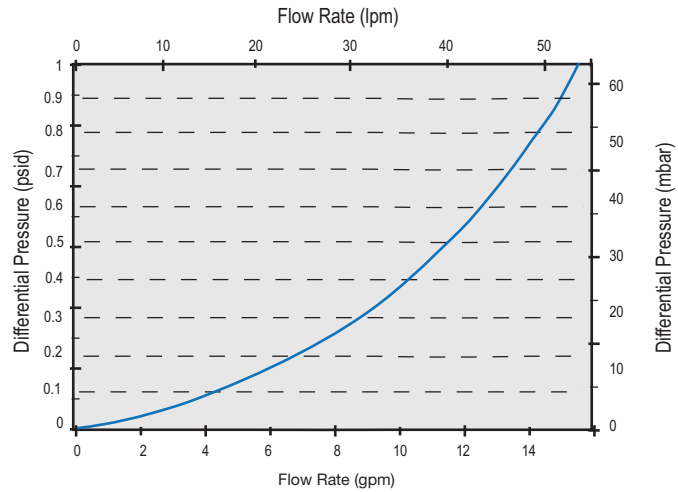
Size	Description
10"	222 Flat End Cap SS Reinforced 222 Flat End Cap



Notes:

- Dim. A1 = 3/4" Butt-weld
Dim. A2 = 3/4" NPT

Housing Differential Pressure vs. Liquid Flow Rate



Housing Part#	Overall Width (A)		Overall Length (B)		Minimum Clearance for Cartridge Removal	
	Inches	cm	Inches	cm	Inches	cm
TFH10N08N02T	4-7/8	12.4	16	40.6	13	33.0
TFH10W08N02T	7-21/32	19.4	16	40.6	13	33.0
TVH04N08N02T	4-7/8	12.4	7-25/32	19.8	6	15.2
TVH04W08N02T	7-21/32	19.4	7-25/32	19.8	6	15.2
TVH10N08N02T	4-7/8	12.4	16	40.6	13	33.0
TVH10W08N02T	7-21/32	19.4	16	40.6	13	33.0

This housing is not recommended for compressed air or gas service. It is suitable for use with fully compatible liquids (which do not soften, swell or adversely affect the product or its materials of construction) only. This housing is not recommended for acid service at the pressure shown.

Ordering Information

Model		Bowl Length		Connection Type		Connection Size		Drain/Vent Type		Drain/Vent Size		Seal Material	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
TFH	PFA	10	10"	N	NPT	08	3/4"	N	NPT	02	1/4"	T	FEP Encapsulated Viton®
TVH	PVDF			W	Butt-weld			W	Butt-weld				

Specifications are subject to change without notification.
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