

HIGH FLOW-Filterhousing Series PVA

The HIGH FLOW series were designed for critical applications. High quality stainless steel 1.4301 (AISI 304) and 1.4404 (AISI 316L), electropolished housing surfaces and avoidance of rough edges provide for one maximum biological safety at the sterilization of air and other under pressurized gases. HIGH FLOW housings are designed to be that the air or gas flow turbulence in the filter elements is passed. The result are lowest pressure losses over filter housing and filter element.

Product Features

- CE marking in accordance with the Pressure Equipment Directive 97/23 / EC (PED) for fluid group 2 (fluid group 1 on request)
- "Click-Lock" system for element fixation using double O-ring and double bayonet to prevent bypasses
- Electropolished housing inner surface, no corners and edges to increase the biological safety
- Made of high quality stainless steel 1.4301 (AISI 304) and 1.4404 (AISI 316L)
- Flow optimized conception with low pressure losses for an economical and cost effective filtration
- Low dead space volume
- Can be used with sterile filter elements Series BIO-X II, HIGH FLOW BIO-X, Tetpor Air and HIGH FLOW TETPOR II.
- Can be used with steam filter elements of ZCSS and ZCHS series
- Available in almost all common connection sizes and connection types
- Optionally available with housing heating (Steam jacket or electric heating jacket)

Housing series PVA

The PVA housing series has been developed for all areas of general air and gas sterilization. Can be used as a steam filter housing.



Technical Data housing

- Housing material: stainless steel 1.4301 (AISI 304)
- Surface quality inside: Electropolished Ra <0.8 µm
- Surface quality outside: Mechanically polished
- Venting and emptying:
- ¼ "female thread with blind plug
- Operating pressure: Max. 16 bar,
- PVA-182 and PVA-193 max. 12 bar
- Operating temperature: Max. 150 ° C (special seal up to 200 ° C)
- O-ring material: EPDM, aseptic seal

Recommended sterile filter elements: HIGH FLOW BIO-X

- Support body outside: heat-stabilized polypropylene
- Support body inside: 2.5 "and 5" elements, heat-stabilized Polypropylene, 10 ", 20" and 30 "elements, stainless steel 1.4404
- Retention rate: 0.01 micron
- Operating temperature: Max. 80 ° C (continuous)
- Sterilisable: with saturated steam up to max. 145 ° C (= 3 bar g)
- Biological safety according to the current USP Plastics and BS 5736 specifications
- Validation: aerosol bacteria challenge test (Validation document available on request)

Recommended steam filter elements: ZCSS and ZCHS series

Technical data elements ZCSS

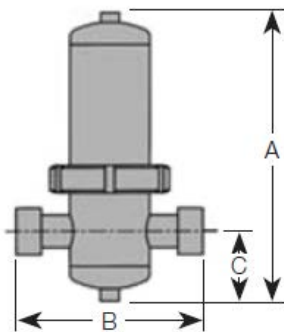
- Filter medium: Stainless steel 1.4404 microporous, sintered
- End Caps: Stainless Steel 1.4404 Potting Compound: None, completely welded construction
- O-ring material: EPDM
- Separation rate: 1 µm (culinary quality) and 25 µm

Technical data elements ZCHS

- Filter medium: Stainless steel 1.4404, star-shaped pleated
- Inner and outer support: stainless steel 1.4571
- End caps: stainless steel 1.4404
- O-ring material: Viton
- Separation rate: 1 µm (culinary quality)

Specification sterile filter housings with sterile filter elements

Order-No.	Flow rate m ³ /h	Connection type	Connection	Dimensions			Pressure stage	Connection code	Matching sterile filter elements
				A	B	C			
PVA-2BCE-IG	90	inner thread	G 1/4	220	147	55	PN 16	T-Code	ZCHB-BT-S1
PVA-5BCE-IG	110	inner thread	G 3/8	220	147	55	PN 16	T-Code	ZCHB-BT-S1
PVA-7BCE-IG	150	inner thread	G 1/2	220	151	55	PN 16	T-Code	ZCHB-BT-S1
PVA-9BCE-IG	220	inner thread	G 3/4	220	151	55	PN 16	T-Code	ZCHB-BT-S1
PVA-11ACE-IG	290	inner thread	G 1	312	188	75	PN 16	T-Code	ZCHB-AT-S1
PVA-12ACE-IG	380	inner thread	G 1 1/4	312	198	75	PN 16	T-Code	ZCHB-AT-S1
PVA-13ACE-IG	450	inner thread	G 1 1/2	312	198	75	PN 16	T-Code	ZCHB-AT-S1
PVA-141CE-IG	780	inner thread	G 2	486	233	80	PN 16	C-Code	ZCHB-1C
PVA-142CE-IG	1150	inner thread	G 2	792	233	80	PN 16	C-Code	ZCHB-2C
PVA-182CE-IG	1470	inner thread	G 2 1/2	792	275	110	PN 16	C-Code	ZCHB-2C
PVA-193CE-IG	1950	inner thread	G 3	1056	298	110	PN 16	T-Code	ZCHB-3C
PVA-2BCE-AE	90	weld end	DN 8	220	147	55	PN 16	T-Code	ZCHB-BT-S1
PVA-5BCE-AE	110	weld end	DN 10	220	147	55	PN 16	T-Code	ZCHB-BT-S1
PVA-7BCE-AE	150	weld end	DN 15	220	151	55	PN 16	T-Code	ZCHB-BT-S1
PVA-9BCE-AE	220	weld end	DN 20	220	151	55	PN 16	T-Code	ZCHB-BT-S1
PVA-11ACE-AE	290	weld end	DN 25	312	188	75	PN 16	T-Code	ZCHB-AT-S1
PVA-12ACE-AE	380	weld end	DN 32	312	198	75	PN 16	T-Code	ZCHB-AT-S1
PVA-13ACE-AE	450	weld end	DN 40	312	198	75	PN 16	C-Code	ZCHB-AT-S1
PVA-141CE-AE	780	weld end	DN 50	486	233	80	PN 16	C-Code	ZCHB-1C
PVA-142CE-AE	1150	weld end	DN 50	792	233	80	PN 16	C-Code	ZCHB-2C
PVA-182CE-AE	1470	weld end	DN 65	792	275	110	PN 16	C-Code	ZCHB-2C
PVA-193CE-AE	1950	weld end	DN 80	1056	298	110	PN 16	C-Code	ZCHB-3C
PVA-2DPE-IG	90	inner thread	G 1/4	220	147	55	PN 16	double o-ring plug	ME 03/10
PVA-5DPE-IG	110	inner thread	G 3/8	220	147	55	PN 16	double o-ring plug	ME 04/10
PVA-7DPE-IG	150	inner thread	G 1/2	220	151	55	PN 16	double o-ring plug	ME 04/20
PVA-9DPE-IG	220	inner thread	G 3/4	220	151	55	PN 16	double o-ring plug	ME 05/20
PVA-11DPE-IG	290	inner thread	G 1	312	188	75	PN 16	double o-ring plug	ME 05/25
PVA-12DPE-IG	380	inner thread	G 1 1/4	312	198	75	PN 16	double o-ring plug	ME 07/25
PVA-13DPE-IG	450	inner thread	G 1 1/2	312	198	75	PN 16	double o-ring plug	ME 07/30
PVA-141DPE-IG	780	inner thread	G 2	486	233	80	PN 16	double o-ring plug	ME 10/30
PVA-142DPE-IG	1150	inner thread	G 2	792	233	80	PN 16	double o-ring plug	ME 15/30
PVA-182DPE-IG	1470	inner thread	G 2 1/2	792	275	110	PN 16	double o-ring plug	ME 20/30
PVA-193DPE-IG	1950	inner thread	G 3	1056	298	110	PN 16	double o-ring plug	ME 30/30
PVA-2DPE-AE	90	weld end	DN 8	220	147	55	PN 16	double o-ring plug	ME 03/10
PVA-5DPE-AE	110	weld end	DN 10	220	147	55	PN 16	double o-ring plug	ME 04/10
PVA-7DPE-AE	150	weld end	DN 15	220	151	55	PN 16	double o-ring plug	ME 04/20
PVA-9DPE-AE	220	weld end	DN 20	220	151	55	PN 16	double o-ring plug	ME 05/20
PVA-11DPE-AE	290	weld end	DN 25	312	188	75	PN 16	double o-ring plug	ME 05/25
PVA-12DPE-AE	380	weld end	DN 32	312	198	75	PN 16	double o-ring plug	ME 07/25
PVA-13DPE-AE	450	weld end	DN 40	312	198	75	PN 16	double o-ring plug	ME 07/30
PVA-141DPE-AE	780	weld end	DN 50	486	233	80	PN 16	double o-ring plug	ME 10/30
PVA-142DPE-AE	1150	weld end	DN 50	792	233	80	PN 16	double o-ring plug	ME 15/30
PVA-182DPE-AE	1470	weld end	DN 65	792	275	110	PN 16	double o-ring plug	ME 20/30
PVA-193DPE-AE	1950	weld end	DN 80	1056	298	110	PN 16	double o-ring plug	ME 30/30



Specification steam filter housing with element type ZCSS * - ** T

Order-No.	Flow rate kg/h *		Connection type	Connection	Dimensions			Pressure stage	Connection code	Matching steam filter elements
	1 µm	25 µm			A	B	C			
PVA-2BCE-IG	8	12	inner thread	G 1/4	220	147	55	PN 16	T-Code	ZCSSB-**T
PVA-5BCE-IG	10	15	inner thread	G 3/8	220	147	55	PN 16	T-Code	ZCSSB-**T
PVA-7BCE-IG	12	35	inner thread	G 1/2	220	151	55	PN 16	T-Code	ZCSSB-**T
PVA-9BCE-IG	14	55	inner thread	G 3/4	220	151	55	PN 16	T-Code	ZCSSB-**T
PVA-11ACE-IG	20	90	inner thread	G 1	312	188	75	PN 16	T-Code	ZCSSA-**T
PVA-12ACE-IG	25	100	inner thread	G 1 1/4	312	198	75	PN 16	T-Code	ZCSSA-**T
PVA-13ACE-IG	30	120	inner thread	G 1 1/2	312	198	75	PN 16	T-Code	ZCSSA-**T
PVA-141CE-IG	60	300	inner thread	G 2	486	233	80	PN 16	C-Code	ZCSS1-**T
PVA-142CE-IG	100	350	inner thread	G 2	792	233	80	PN 16	C-Code	ZCSS2-**T
PVA-182CE-IG	125	620	inner thread	G 2 1/2	792	275	110	PN 16	C-Code	ZCSS2-**T
PVA-193CE-IG	200	900	inner thread	G 3	1056	298	110	PN 16	T-Code	ZCSS3-**T
PVA-2BCE-AE	8	12	weld end	DN 8	220	147	55	PN 16	T-Code	ZCSSB-**T
PVA-5BCE-AE	10	15	weld end	DN 10	220	147	55	PN 16	T-Code	ZCSSB-**T
PVA-7BCE-AE	12	35	weld end	DN 15	220	151	55	PN 16	T-Code	ZCSSB-**T
PVA-9BCE-AE	14	55	weld end	DN 20	220	151	55	PN 16	T-Code	ZCSSB-**T
PVA-11ACE-AE	20	90	weld end	DN 25	312	188	75	PN 16	T-Code	ZCSSA-**T
PVA-12ACE-AE	25	100	weld end	DN 32	312	198	75	PN 16	T-Code	ZCSSA-**T
PVA-13ACE-AE	30	120	weld end	DN 40	312	198	75	PN 16	C-Code	ZCSSA-**T
PVA-141CE-AE	60	300	weld end	DN 50	486	233	80	PN 16	C-Code	ZCSS1-**T
PVA-142CE-AE	100	350	weld end	DN 50	792	233	80	PN 16	C-Code	ZCSS2-**T
PVA-182CE-AE	125	620	weld end	DN 65	792	275	110	PN 16	C-Code	ZCSS2-**T
PVA-193CE-AE	200	900	weld end	DN 80	1056	298	110	PN 16	C-Code	ZCSS3-**T

Specification steam filter housing with Elementtyp ZCHS - ** T

Order-No.	Flow rate kg/h *		Connection type	Connection	Dimensions			Pressure stage	Connection code	Matching steam filter elements
	1 µm	25 µm			A	B	C			
PVA-2BCE-IG	8		inner thread	G 1/4	220	147	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-5BCE-IG	10		inner thread	G 3/8	220	147	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-7BCE-IG	12		inner thread	G 1/2	220	151	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-9BCE-IG	14		inner thread	G 3/4	220	151	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-11BCE-IG	20		inner thread	G 1	312	188	75	PN 16	T-Code	ZCHS-A-001T
PVA-12ACE-IG	25		inner thread	G 1 1/4	312	198	75	PN 16	T-Code	ZCHS-A-001T
PVA-13ACE-IG	30		inner thread	G 1 1/2	312	198	75	PN 16	T-Code	ZCHS-A-001T
PVA-141CE-IG	60		inner thread	G 2	486	233	80	PN 16	C-Code	ZCHS-1-001C-V
PVA-142CE-IG	100		inner thread	G 2	792	233	80	PN 16	C-Code	ZCHS-2-001C-V
PVA-182CE-IG	125		inner thread	G 2 1/2	792	275	110	PN 16	C-Code	ZCHS-2-001C-V
PVA-193CE-IG	200		inner thread	G 3	1056	298	110	PN 16	T-Code	ZCHS-3-001C-/V
PVA-2BCE-AE	8		weld end	DN 8	220	147	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-5BCE-AE	10		weld end	DN 10	220	147	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-7BCE-AE	12		weld end	DN 15	220	151	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-9BCE-AE	14		weld end	DN 20	220	151	55	PN 16	T-Code	ZCHS-B-001T-V
PVA-11ACE-AE	20		weld end	DN 25	312	188	75	PN 16	T-Code	ZCHS-A-001T
PVA-12ACE-AE	25		weld end	DN 32	312	198	75	PN 16	T-Code	ZCHS-A-001T
PVA-13ACE-AE	30		weld end	DN 40	312	198	75	PN 16	C-Code	ZCHS-A-001T
PVA-141CE-AE	60		weld end	DN 50	486	233	80	PN 16	C-Code	ZCHS-1-001C-V
PVA-142CE-AE	100		weld end	DN 50	792	233	80	PN 16	C-Code	ZCHS-2-001C-V
PVA-182CE-AE	125		weld end	DN 65	792	275	110	PN 16	C-Code	ZCHS-2-001C-V
PVA-193CE-AE	200		weld end	DN 80	1056	298	110	PN 16	C-Code	ZCHS-3-001C-/V

