

PNV

Sanitary housings for liquids filtration

Stainless steel filter housings with sanitary finishes for applications in food industry. The PNV series features Tri-Clover and DIN 11851 process connections is available in various configurations to accommodate 1 to 36 SOE Code 7 filter elements ranging from 10" to 40" length.



Main features

- Versions available with or without dual drainage.
- Steam sterilizable In-line.

Construction materials

Body: stainless steel AISI 316L.

Closure: V-Band stainless steel AISI 304 for housings up to 8 cartridges;
AISI 316 screw clamps for larger size.

Gaskets: silicone.

Surfaces finishing

External: mechanical polishing.

Internal: fine-brushed.

Roughness of the filtered side: $Ra \leq 0,8 \text{ mm}$ / ($Ra \leq 3,2 \text{ mm}$).

Design and construction

In accordance with PED and ATEX European Directive.

Documentation

EU PED / ATEX Declaration of conformity and user manual.

Models	Filter element		IN-OUT ASME BPE connections	Drainage	Vent	Weight	PED
	Q.ty	Size				Kg.	PED type
PNV-R25RR-0110B7-L8-S	1	2071	1"TC	1"TC	1½"TC	8	Art. 4 Par. 3
PNV-R25RR-0120B7-L8-S	1	2072				8,7	Art. 4 Par. 3
PNV-R25RR-0130B7-L8-S	1	2073				9,4	I
PNV-R40RR-0110B7-L8-S	1	2071	1½" TC	1½"TC		8	Art. 4 Par. 3
PNV-R40RR-0120B7-L8-S	1	2072				8,7	Art. 4 Par. 3
PNV-R40RR-0130B7-L8-S	1	2073				9,4	I
PNV-R40RR-0310B7-L8-S	3	2071				18	I
PNV-R40RR-0320B7-L8-S	3	2072				20	I
PNV-R40RR-0330B7-L8-S	3	2073				23	I
PNV-R50RR-0520B7-L8-S	5	2072	2" TC	1½"TC		22	II
PNV-R50RR-0530B7-L8-S	5	2073				24	II
PNV-R50RR-0820B7-L8-S	8	2072				30	II
PNV-R50RR-0830B7-L8-S	8	2073				34	II
PNV-R80RR-0820B7-L8-S	12	2072				70	II
PNV-R80RR-0830B7-L8-S	12	2073				75	II

Note: The models listed refer to standard versions; for different configurations, please see the options specified in the code information .

Code information

Serie	-	IN—OUT connections	Vent connection	Drainage connection	-	Cartridge Q.ty	Cartridge size	-	Roughness of the filtered side	-	O-Ring material
PNV		R25 1" Tri-Clover	R Tri-Clover	R Tri-Clover		01 1	10B7 10"		L8 Ra ≤ 0,8 mm		S Silicone
		R40 1½ Tri-Clover		X None		03 3	20B7 20"				E EPDM
		R50 2" Tri-Clover				05 5	30B7 30"				
		R80 3" Tri-Clover				08 8	40B7 40"				
		D25 DN25 DIN 11851				12 12					
		D40 DN40 DIN 11851				18 18					
		D50 DN50 DIN 11851				24 24					
		D80 DN80 DIN 11851				30 30					
		DA1 DN100 DIN 11851				36 36					

Example code

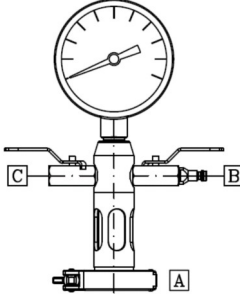
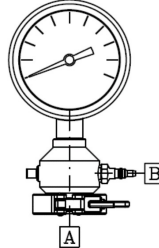
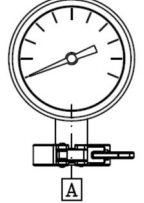
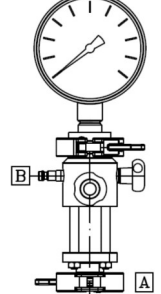
PNV	-	R50RR	-	0520B7	-	L8	-	S
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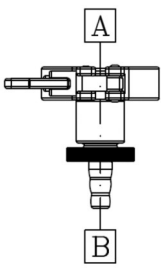
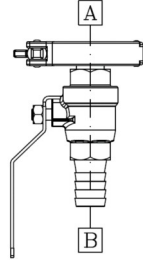
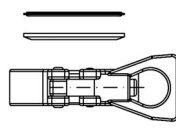
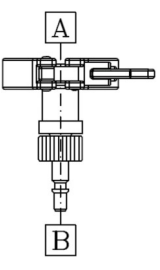
Operating Limits

Fluid state	PED fluid group	Min/Max temperature	Min/Max pressure
Liquid / Gas	Group 2 (not dangerous)	-20°C /+ 40 °C	-1/10 bar
Liquid / Gas		-20°C /+ 150 °C	-1/4 bar
Liquid	Group 1 (dangerous)	+10 / +80	0/4 bar

ATEX 2014/34/EU category

GAS	DUST
II -/2G Ex-h IIC T3...T6 -/Gb X	II -/2D Ex-h IIIC 150°C...85°C -/Db X

Extras	KC-M-M-R40-XS-SGL	KC-M-M-R40-XS-STB	*KC-M-N-R40-XS **KC-M-P-R40-XS	KC-M-N-R40-XS-SGS
Pressure gauge				
	Pressure gauge with sight glass and ball valves	Pressure gauge with Sanitary valve	Diaphragm pressure gauge	Pressure gauge with diaphragm , Sight glass and 2 sanitary valves
Materials:	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304
Gasket materials:	Silicone	Silicone	Silicone	Silicone
Pressure gauge diameter	100 mm	100 mm	* 100 mm ** 63 mm	100 mm
Pressure range:	0-10 bar			
Max temperature:	100°C			
Connections:	A-clamp 1½"	A-clamp 1½"	A - clamp 1½"	A - clamp 1½"
Valve:	B- ball valve in RECTUS 21KA Ø9mm	B- sanitary valve inStaubli RBE 03	-	B- n°2 sanitary valve in Staubli RBE 03

Extras	KC-V-S-R40-XS-HSB-PN18	KC-V-B-R40-XS-HSB-PN64	KC-V-T-R40-XS-XX-XX	KC-V-S-R40-XS-STB
Vent and drainage				
	Sanitary drainage valve	Ball valve	Cap and butterfly clamp	Sanitary sampling valve
Materials:	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304
Gasket materials:	silicone	silicone	silicone	silicone
Pressure design:	18 bar	64 bar	18 bar	10 bar
Max temperature:	150 °C			
Connections:	A- clamp 1½"	A- clamp 1½"	clamp 1"½"	A- clamp 1½"
	B-hose connector Ø 12 mm	B-hose connector Ø 21 mm		Staubli RBE 03

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The data are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.