

PNT-R

Sanitary housings for hazardous fluids

High quality stainless steel housings with sanitary finishes for the filtration and sterilization of hazardous fluids in food and pharmaceutical application.

PNT-R series features Tri-Clover connections to ensure hygienic and leak-proof operations.

Available in multiple configurations to fit from 1 to 8 SOE filter elements.



Main features

- Versions with or without side vent port.
- Double bolt clamp closure system for single-cartridge housings and screw clamps for multi-cartridge housings
- Steam sterilizable in line .

Construction materials

Body: stainless steel AISI 316L.

Closure: stainless steel AISI 304 for single-cartridge
stainless steel AISI 316 for multi-cartridge

Gaskets: silicone.

Finishing

External: mechanical polishing.

Internal: fine brushed.

Filtered side roughness: $Ra \leq 0,8 \text{ mm}$

Design and construction

In accordance with PED e ATEX European Directive and food compatibility EC 1935/2004.

Suitable for fluids group 1 and 2 classified in accordance with CE 1227.

Documentation

UE declaration of conformity PED / ATEX and user manual.

Models	Filter element		IN-OUT connections ASME BPE	Drain	Vent	Weight	PED	
	Q.ty	Size				Kg.	PED	Fluid group
PNT-R25RR-0105B7-L8-S	1	20705	1"TC	1"TC	1½"TC	6,5	art.4 par 3	Group 1 (dangerous) & Group 2 (not dangerous)
PNT-R25RR-0110B7-L8-S	1	2071				7	I	
PNT-R25RR-0120B7-L8-S	1	2072				8	I	
PNT-R25RR-0130B7-L8-S	1	2073				9	II	
PNT-R40RR-0110B7-L8-S	1	2071	1½" TC	1½"TC		7	I	
PNT-R40RR-0120B7-L8-S	1	2072				8	I	
PNT-R40RR-0130B7-L8-S	1	2073				10	II	
PNT-R40RR-0310B7-L8-S	3	2071				18	II	
PNT-R40RR-0320B7-L8-S	3	2072				21	II	
PNT-R40RR-0330B7-L8-S	3	2073				23	II	
PNT-R50RR-0520B7-L8-S	5	2072	2" TC	1½"TC		22	II	
PNT-R50RR-0530B7-L8-S	5	2073				24	III	
PNT-R50RR-0820B7-L8-S	8	2072				30	III	
PNT-R50RR-0830B7-L8-S	8	2073				34	III	
PNT-R65RR-0820B7-L8-S	8	2072	2"½ TC			30	III	
PNT-R80RR-0830B7-L8-S	8	2073	3"TC			34	III	

Note: the table shows the standard versions; other versions are available as per the product code description.

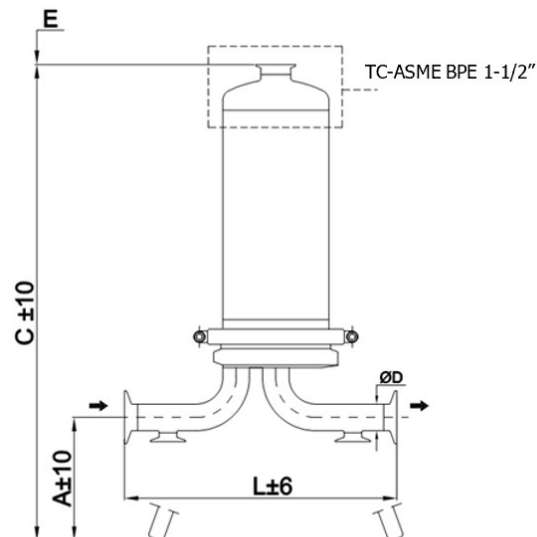
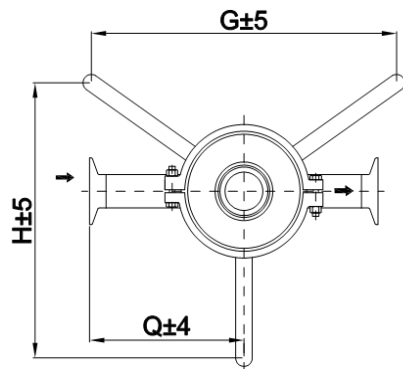
Description of the product code

Serie	-	IN—OUT connections	Vent connection	Drain connection	-	Cartridge Q.ty	Cartridge size	-	Filtered side roughness	-	O-Ring material
PNT		R25 1" TC R40 1"½ TC R50 2" TC R65 2"½ TC R80 3" TC	R Tri-Clover	R Tri-Clover X None		01 1 03 3 05 5 08 8	05B7 5" 10B7 10" 20B7 20" 30B7 30" 40B7 40" 05B8 5" 10B8 10" 20B8 20" 30B8 30" 40B8 40"		L8 Ra ≤ 0,8		S Silicone E EPDM FS FEP/Silicone

Example code

PNT — **R40RR** — **0320B7** — **L8** — **S**

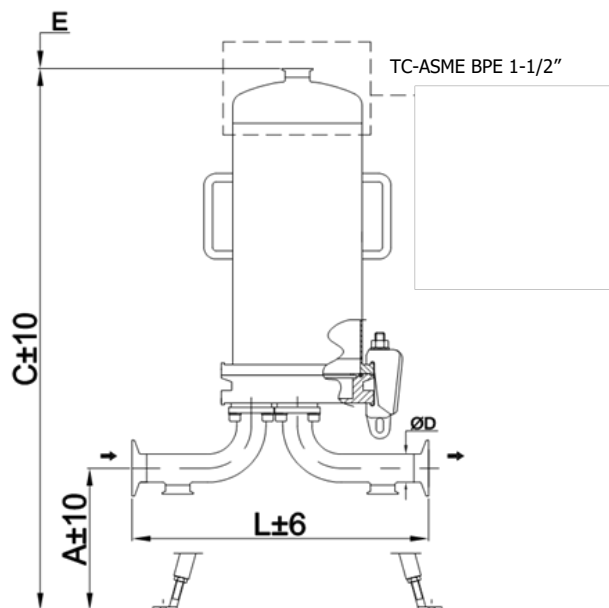
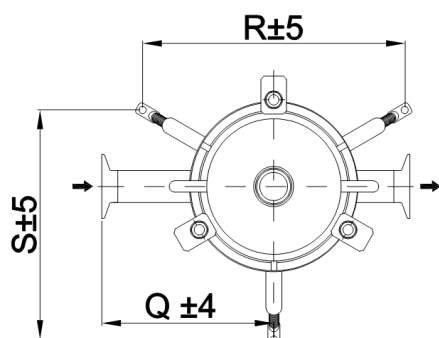
Operating limits			Classificazione ATEX 2014/34/EU	
Fluid state	Min/Max temperature	Min/Max pressure	GAS	DUST
Liquid/ Gas	-20°C /+ 150 °C	-1/10 bar	II -/2 G Ex h IIC T3....T6-/GbX	II-/2 D Ex h IIIC 150°C85°C-/DbX



Nominal dimensions mm

IN OUT connections	A	Ø D	L	G	H	Q
TC 1"	375	25,4	270	339	326	154
TC 1-½"	370	38,1	198			

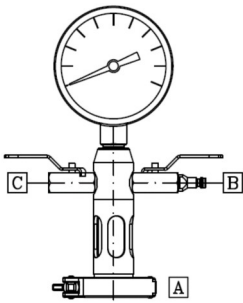
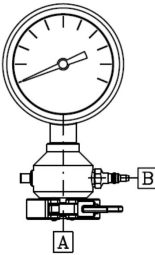
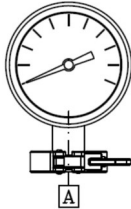
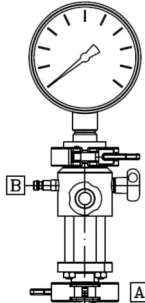
Cartridge Size	C	E
5"	690	230
10"	790	330
20"	1040	580
30"	1290	830
40"	1540	1080

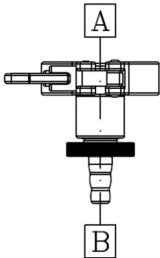
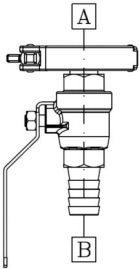
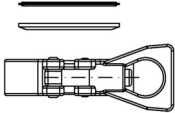
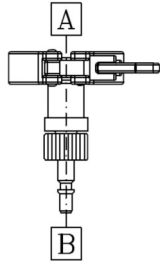


Nominal dimensions mm

Cartridge size	n° 3 cartridges		n° 5 cartridges		n° 8 cartridges	
	C	E	C	E	C	E
10"	816	330	828	330	875	380
20"	1065	580	1078	580	1116	630
30"	1314	830	1328	830	1375	880
40"	1564	1080	1578	1080	1625	1130

IN OUT connections	n° cartridges	A	Ø D	L	S	R	Q
TC 1-½"	3	313-363	38,1	385	313-333	340-362	223
	5			405			243
TC 2"	5	285-333	50,8	445	342-362	395-417	263
	8			471			289
TC 2-½"	8	255-303	63,5	547	383-431	442-490	323
TC 3"	8	228-275	76,2	603			351

Accessories	KC-M-M-R40-XS-SGL	KC-M-M-R40-XS-STB	*KC-M-D-R40-XS **KC-M-P-R40-XS	KC-M-D-R40-XS-SGS
Pressure gauges				
	Manometro with sight glass and ball valve	Manometer with sanitary valve	Manometer with diaphragm	Manometer 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 material:	Silicone	Silicone	Silicone	Silicone
Manometer 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 RECTUS 21KA ø9mm	B-sanitary valve Staubli RBE 03	-	B- n°2 sanitary valves Staubli RBE 03

Accessories	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
Vents and drains				
	Sanitary drain valve	Ball valve	Clamp cap	Sanitary sampling valve
Materials:	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304	AISI 316 / AISI 304
Gasket material:	Silicone	Silicone	Silicone	Silicone
Operating pressure:	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 nozzle Ø 12 mm	B-hose nozzle Ø 21 mm		Staubli RBE 03

Bea Technologies Spa

Via Newton,4 -20016 Pero (MILANO) Italy
 Tel.+(39) 02 339271 / Fax+(39) 02 3390713
 mail:info@bea-italy.com
 web:www.bea-italy.com

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.