

WTP-R

Housings for air and gases sterilization

Housings in stainless steel for filtration and sterilization of compressed air and gases in food and biopharmaceutical applications. Internal geometry is designed to avoid turbulence as well stagnation areas in order to minimize the pressure drops and to meet the requirements demanded by the applications.

WTP-R housings have in-out clamped connections. Vent and drain connections are available threaded or clamped, vent with or without lateral port.



Main features

- Suitable to fit filter elements code 7, size 10", 20" and 30".
- Suitable for in-line steaming.
- Traceability of materials linked to serial number.
- Compliant with Directive " PED" & "ATEX".

Materials

Housing: AISI 316L stainless steel
Body clamp: AISI 304 stainless steel
Gasket: silicon

Surface finishing

Inside: fine brushed with round welds
Standard rugosity: $R_a \leq 0,8$ mm downstream the filter element
Optional rugosity: $R_a \leq 0,4$ mm downstream the filter element
External: polished with round welds

Design and construction

According to PED and ATEX Directives

Certification

UE PED / ATEX declaration of conformity and user guide.
3.1 EN10204 material certificates supplied upon request.

Model	IN-OUT Connections	Filter elements Size	Weight Kg.	Volume L
WTP-R25-01-705-S-XX-S-8	TC 1"	20705	2,6	2,2
WTP-R25-01-71-S-XX-S-8		2071	3,0	3,0
WTP-R25-01-71-S-XX-B-8		2071	3,0	3,0
WTP-R25-01-72-S-XX-S-8		2072	4,0	4,5
WTP-R40-01-71-S-XX-S-8	TC 1½"	2071	3,0	3,0
WTP-R40-01-72-S-XX-S-8		2072	4,0	4,5
WTP-R40-01-73-S-BC-S-8		2073	5,0	6,0
WTP-R50-01-71-S-BC-S-8	TC 2"	2071	3,0	3,0
WTP-R50-01-72-S-BC-S-8		2072	4,0	4,6
WTP-R50-01-73-S-BC-S-8		2073	5,0	6,0
WTP-R50-01-71-S-XX-S-8		2071	3,0	3,0
WTP-R50-01-72-S-XX-S-8		2072	4,0	4,6

Note: for different configurations, see the selection table for ordering

Selection table for ordering

Range	IN—OUT Connections	Qty Cartridges	Cartridges size	O-Ring Material	Vent Connections	Drain Connections	Body Clamp closure	* Finishing grade
WTP	R25 1" TC R40 1½" TC R50 2" TC	01 1	705 5" 20705 71 10" 2071 72 20" 2072 73 30" 2073	S Silicone	X ¼" GAS F B 1½" TC 2 1½" TC & Hosebarb 3 1½" TC & Rectus 21 4 1½" TC & Staubli RBE03	X ¼" GAS F C ½" TC	S max 10 bar B Double Bolted max 16 bar	4 Ra ≤ 0,4 μm 8 Ra ≤ 0,8 μm

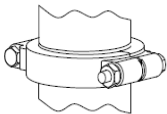
Example code to order

WTP - R40 - 01 - 71 - S - BC - S - 4

* downstream filter element

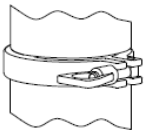
Body Clamp "B" code

Clamp with double bolted fastening suitable for pressure up to 16 bar. Wrenches are required for maintenance.



Body Clamp "S" code

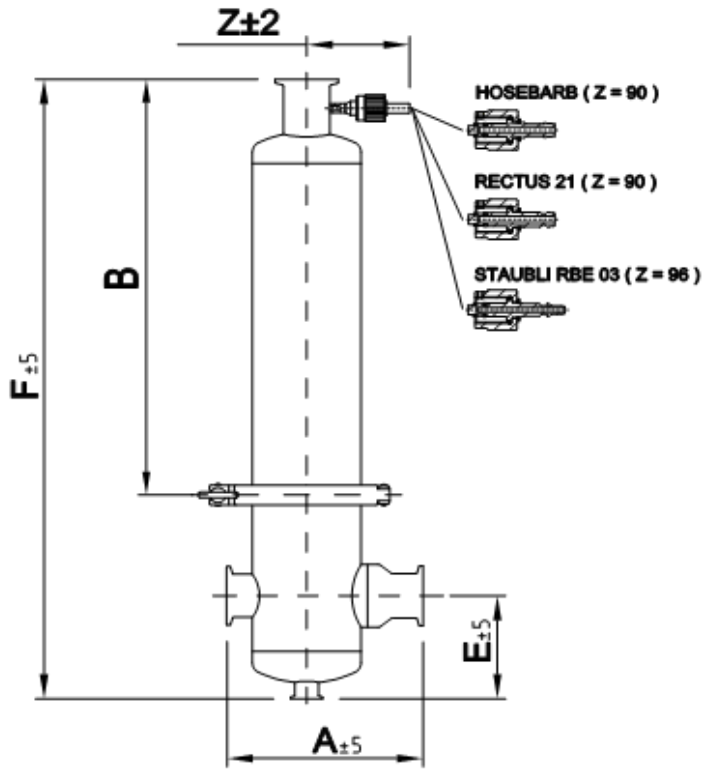
Single clamp suitable for pressures up to 10 bar. Quick maintenance without any key.



Operating limits		
Fluid state	Min/Max. Temperature	Min/Max. Pressure
Gas	-20°C /+ 150 °C	-1/10 bar (clamp S code) -1/16 bar (clamp B code)

PED & ATEX Conformity Assessment Category			
PED		ATEX	
Fluid group	Category	GAS	DUST
-1/10 bar—Non dangerous Group 2	Art.4 par.3 > 20" Cat.I	II 2 G Ex h IIC T3 Gb	II 2 D Ex h IIIC 150°C Db
Fino a 16 bar—Non dangerous Gruppo 2	Art.4 par.3 > 10" Cat.I		

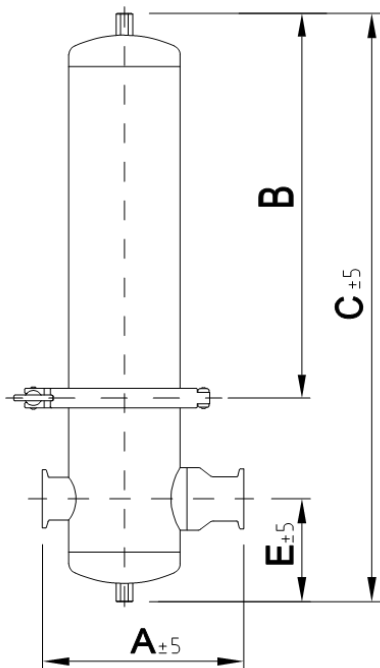
ALL CONNECTION CLAMP + LATERAL PORT



Nominal dimensions mm

Filter element size	A			B	F	E
	R25	R40	R50			
5"	139	137	148	230	398	90
10"				350	518	
20"				632	800	
30"				850	1018	

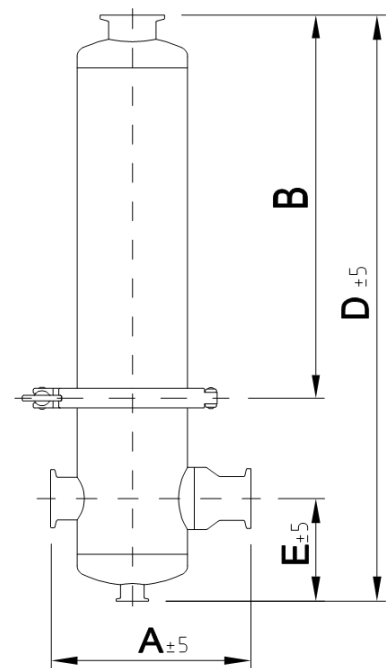
VENT/DRAIN THREADED



Nominal dimensions mm

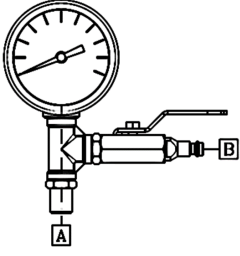
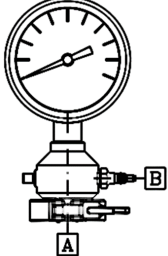
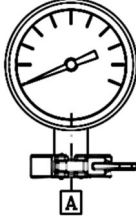

Filter element size	A			B	C	E
	R25	R40	R50			
5"	137	139	148	232	400	99
10"				352	520	
20"				602	770	
30"				852	1020	

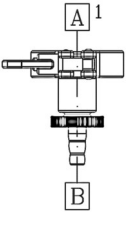
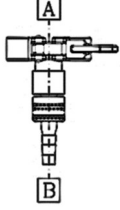
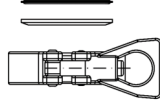
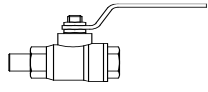
ALL CONNECTIONS CLAMP



Nominal dimensions mm

Filter element size	A			B	D	E
	R25	R40	R50			
5"	137	139	148	212	380	90
10"				332	500	
20"				582	750	
30"				832	1000	

Accessories	KC-M-H-M8-XX-STR	KC-M-M-R40-XX-STB	* KC-M-N-R40-XX ** KC-M-P-R40-XX	KC-M-H-M8-XX
Pressure gauge				
	Pressure gauge	Pressure gauge & sanitary valve	Sanitary pressure gauge with diaphragm	Pressure gauge
Material:	AISI 316 / 304	AISI 316 / 304	AISI 316 / 304	AISI 316 / 304
Gasket material:	-	Silicone	Silicone	-
Windows diameter:	DN 63 / 2,5"	DN 100 / 4"	* DN 100 / 4" ** DN 63 / 2,5"	DN 63 / 2,5"
Pressure range:	0-10 bar / 0 -145 psi			
Process Temp:	100°C / 210 °F			
Process connection:	A -1/4" gas M	A-clamp 1½"	A - clamp 1½"	A -1/4" gas M
Valve:	B- ball valve RECTUS 21KA Ø9mm	B-sanitary valve Staubli RBE 03	-	-

Accessories	¹ KC-V-S-R40-XX-HSB-PN18 ² KC-V-S-M8-XX-HSB-PN18	KC-V-S-R15-XX-HSB	³ KC-V-T-R15-XX-XX-XX ⁴ KC-V-T-R40-XX-XX-XX	⁵ KC-V-B-M8-XX-GF-PN40
Vent and drain				
	Vent sanitary valve	Sampling test sanitary valve	End cap / clamp	Ball valve
Material:	AISI 316/clamp AISI 304	AISI 316/clamp AISI 304	AISI 316 / clamp AISI 304	AISI 316 / clamp AISI 304
Gasket material:	¹ A- Silicone	Silicone	Silicone	⁶ Silicone
Pressure range:	18 bar / 261 psi	10 bar / 145 psi	18 bar / 261 psi	⁵ 40bar / 580 psi ⁶ 18bar / 261 psi
Max Temperature :	150 °C / 302°F			
Process connection:	¹ A- clamp 1½" ² A- 1/4" gas M	A - clamp ½"	³ clamp ½" ⁴ clamp 1"½"	⁵ 1/4" gas MF ⁶ clamp 1"½"
Valve:	B - hosebarb Ø 12mm	B -hosebarb Ø 6 mm		⁶ hosebarb Ø 12 mm

DS-WTP-R-685-EN 21

Data contained in this bulletin 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.