

# FILTER HOUSING – CHP

## DESCRIPTION

CHP carbon steel high pressure filters have been specifically developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and other vapours from compressed air <sup>(1)</sup> systems. To meet the required compressed air quality appropriate filter element must be installed into filter housing

## APPLICATIONS <sup>(2)</sup>

- Automotive
- Electronics
- Food & Beverage
- Chemical
- Petrochemical
- Plastics
- Paint
- General industrial application



<sup>(1)</sup> For any other technical gas please contact us or your local dealer

<sup>(2)</sup> CHP filter housing can be used in variety of applications. For applications not listed please contact us or your local dealer.

## TECHNICAL SPECIFICATION

Operating temperature <sup>(3)</sup>	-10 - 120°C	14 - 248 °F
Operating pressure	0 – 100, 250, 420 bar(a)	0 – 1450, 3625, 6091 psi

<sup>(3)</sup> Actual operating temperature depends on sealing material and type of filter element.

## MATERIALS

Housing material	Carbon steel (ANSI A-105)
Fittings, Screws	Stainless steel (1.4404)
Corrosion protection	Chemical nickel plating (15µm)
Sealing	FKM with PTFE backup ring
Lubricant	Shell cassida grease RLS 2

**SIZES**

TYPE	PIPE SIZE [inch]	FILTER ELEMENT	FLOW CAPACITY		DIMENSIONS [mm]				VOLUME [l]	MASS [kg]
			[m <sup>3</sup> /h]	[scfm]	A	B	C	D		
CHP 003	1/4	CHP0305	40	23,5	182	98	104	30	0,19	7,6
CHP 005	3/8	CHP0310	70	41,2	182	98	104	30	0,20	7,6
CHP 007	1/2	CHP0420	130	76,5	230	118	129	36	0,40	15,3
CHP 010	3/4	CHP0520	195	115	254	118	129	36	0,48	16,1
CHP 018	1	CHP0525	275	162	276	145	158	46	0,76	26,5
CHP 030	1 1/4	CHP0725	380	223	328	145	158	46	0,98	28,6
CHP 047	1 1/2	CHP0730	495	291	385	195	216	65	2,2	65,9
CHP 094	2	CHP1030	715	421	460	195	216	65	2,9	71,4

Flow capacity at 7 bar(g), 20°C

Standard is BSP pipe connection, other pipe connection on request.

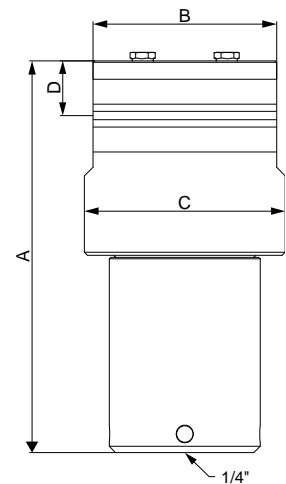
**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 2)**

CHP 003 - CHP 030	Article 4.3
CHP 047	Category 2, Module H
CHP 094	Category 3, Module H

**PRESSURE EQUIPMENT DIRECTIVE PED 2014/68/EU (Fluid group 1)<sup>(4)</sup>**

CHP 003 - CHP 047	Category 3, Module H
CHP 094	Category 4, Module H1

<sup>(4)</sup> Fluid group must be specified in the order, if not standard fluid group 2 is selected.



**CORRECTION FACTORS**

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C<sub>OP</sub>


**OPERATING PRESSURE**

[bar]	7	25	40	64	100	250	420
[psi]	100	362	580	928	1450	3625	6091
C <sub>OP</sub>	1	3	5	8	12	12	12

**MAINTENANCE**

Replace filter element at least every 12 months or follow the instructions for specific filter element. Once per year make a visual check of filter housing and make sure there is no visual damage.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015 Reg. number: SI008842
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