

CLEARPOINT®

GREATER SAFETY & RELIABILITY

HIGH PRESSURE FILTER

100–500 BAR



The higher the pressure, the higher the requirements

CLEARPOINT® high pressure filters in the 100–500 bar range score top marks when it comes to safety and reliability. Compared with other products in this filtration sector, CLEARPOINT® offers considerable technical and economic advantages to operators of high pressure systems.

+ 1:



**No corrosion,
no reduction in filter performance,
no eating away of threads**

All metal components are made of stainless steel as a standard

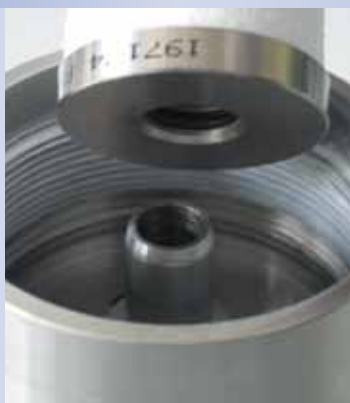
+ 2:



**Determination of optimum time for filter
element replacement resulting in cost saving**

With 1/8" connection for differential-pressure gauge as a standard (as from S 045)

+ 3:



**Easy element replacement even under
spatially restricted conditions**

Contrary to competitors' products, the element is either installed with a screwed connection (up to S 045) or a push-fit connection (as from S045)

No reduction in the flow cross-section (as usual, e.g., with tie-rods).

CLEARPOINT®
GREATER SAFETY & RELIABILITY
HIGH PRESSURE FILTER
100-500 BAR



+4:



Housing o-ring provides radial sealing

O-ring is not damaged during element replacement (as likely with axial o-ring sealing). Supports settling-in process of the gasket. No leakages.

+5:



Additional safety against loosening of the screwed housing connection due to pulsating flows

Lateral clamping screw prevents leaks

+6:



Continuous documentation for the traceability

Acceptance test certificate according to DIN EN 10204.
 Embossed serial number on the housing

+7:



Simple element replacement using a sickle-spanner

Depth bore at filter bottom

CLEARPOINT®

HIGH PRESSURE FILTER

100–500 BAR

TECHNICAL DATA

SPECIFICATIONS

Type	W	C	G	F	S	A
Element	WS	X25	X5	X1	XA	AC
Particles		25 µm	5 µm	1 µm	0,01 µm	0,01 µm
Residual oil aerosols at 20 °C		10 mg/m ³	5 mg/m ³	0,1 mg/m ³	0,01 mg/m ³	
Residual oil vapour						0,003 mg/m ³
Recommended operating temperature*	60 °C	60 °C	60 °C	60 °C	40 °C	25 °C
Initial pressure loss	0,05 bar	0,03 bar	0,04 bar	0,04 bar	0,08 bar	0,04 bar

* Max. operating temperature 120 °C

CONVERSION FACTORS

To determine the filter performance in relation to the actual operating pressure, please multiply the flow rate by the relevant correction factor.

Pressure conversion factor for 100 bar

Operating press. bar	20	30	40	50	60	70	80	90	100
Correction factor	0,45	0,56	0,64	0,71	0,78	0,84	0,90	0,95	1,00

Pressure conversion factor for 350 bar

Operating press. bar	100	150	200	250	300	350
Correction factor	0,77	0,80	0,84	0,89	0,94	1,00

Pressure conversion factor for 500 bar

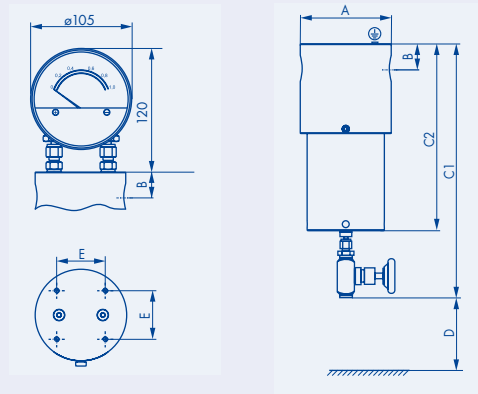
Operating press. bar	300	350	400	450	500
Correction factor	0,89	0,93	0,96	0,98	1,00

CLEARPOINT®

HIGH PRESSURE FILTER

100-500 BAR

TECHNICAL DATA



Filter	Pipe size	Flow rate	A	B	C1	C2	D	E	Volume	Weight	Category according to PED97/23/EC fluid group 2
		m ³ /h									
HP100S040	3/8"	40	60	16,5	217	117	100	24,8	0,04	2,0	
HP100S045	3/8"	100	79	20,5	240	140	100	35,11	0,11	4,5	
HP100S050	1/2"	270	78	23	314	214	100	40	0,38	4,0	
HP100S055	1/2"	460	78	23	364	264	100	40	0,49	5,5	
HP100S075	3/4"	680	114	29,5	370	270	150	60	1,2	10,5	I
HP100M010	1"	1200	114	29,5	520	420	150	60	1,96	13,7	I
HP100M015	1 1/2"	1700	174	50	581	481	200	100	3,3	34,0	II
HP100M020	2"	3400	174	50	884	784	200	100	5,75	42,0	II
HP350S030	1/4"	52	60	16,5	217	117	100	24,8	0,04	2,0	
HP350S040	3/8"	130	79	20,5	240	140	100	35,4	0,11	4,5	
HP350S045	3/8"	351	88	23	314	214	100	40	0,38	6,5	
HP350S050	1/2"	598	88	23	364	264	100	40	0,49	7,5	
HP350S075	3/4"	884	139	37,5	386	286	150	80	1,15	20,5	II
HP350M010	1"	1560	139	37,5	536	436	150	80	2,0	27,0	II
HP350M012	1"	2210	169	49,5	580	480	200	80	3,2	45,0	III
HP350M015	1 1/2"	4420	169	49,5	883	783	200	80	5,7	71,0	III
HP500S030	1/4"	56	60	16,5	217	117	100	24,8	0,04	2,0	
HP500S040	3/8"	140	79	20,5	240	140	100	35,4	0,11	4,5	
HP500S045	3/8"	378	113	25	321	221	150	60	0,38	12,0	
HP500S050	1/2"	644	113	25	371	271	150	60	0,49	13,0	

Subject to technical changes without prior notice; the information and data do not represent product characteristics within the meaning of the German Civil Code (BGB)

® Registered trademarks of BEKO TECHNOLOGIES GmbH, Neuss



BEKO TECHNOLOGIES GMBH

Im Taubental 7
41468 Neuss
beko@beko.de

Telefon +49 21 31 988-0
Telefax +49 21 31 988-900
www.beko-technologies.de