

STEP
INDUSTRIAL
FILTERS

HIGH PRESSURE FILTERS

HHID420

Maximum operating pressure: 420 bar

Nominal flow to 475 litres



Element _____
STEP
INDUSTRIAL
FILTERS
Housing _____
HHID420160-1

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Step Industrial Filters high pressure hydraulic housings assure a high efficiency of contaminant removal for your equipment, according to the following normatives:

- ISO 2941: Collapse and burst resistance .
- ISO 2942: Verification of fabrication integrity (bubble point test).
- ISO 2943: Compatibility with hydraulic media.
- ISO 3723: End load test.
- ISO 3724: Flow fatigue characteristics.
- ISO 3968: Flow characteristics.
- ISO 16889: Filtration performance test (multi-pass method).

Assembled with Step Industrial Filters hydraulic elements, this range assures a long lifetime for machines and maintenance costs optimization.

Technical Information

In-line assembly, with threaded mounting holes on top of the head.

Materials:

- Filter head: Spheroidal Graphite Cast Iron.
- Filter bowl: Cold Drawn Steel.
- O-rings:
 - NBR (Buna-N®).
 - FPM (Viton®).
 - EPDM (Ethylene-Propylene-Diene-Monomer-Rubber).
- Support ring: PTFE (Polytetrafluoroethylene).

Port Connections: BSP.

Mounting option: with optical indicator, electric indicator or optical-electric indicator.

Operating Pressure: max. 420 bar.

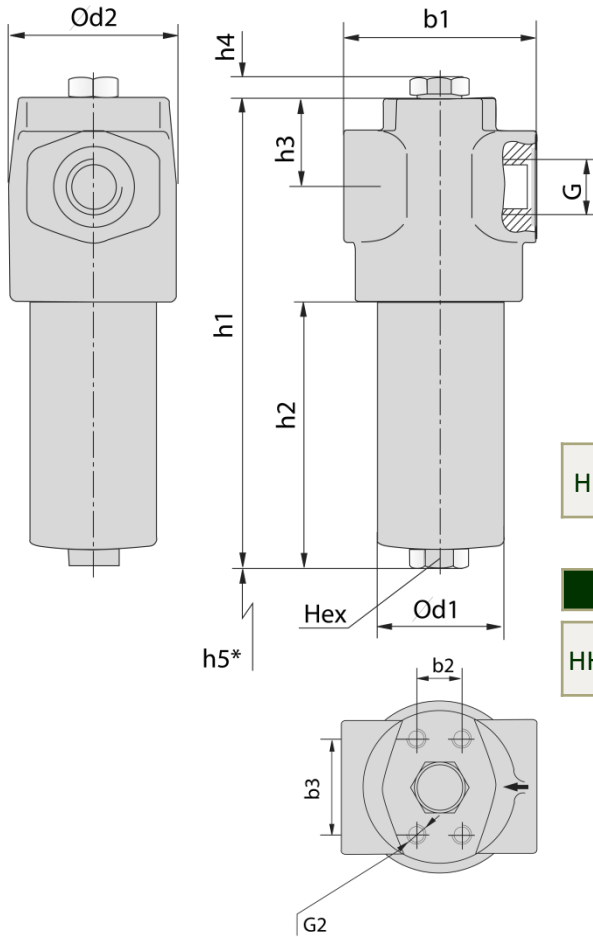
Burst Pressure: min. 1260 bar.

Temperature Range : -10 °C to +100 °C.

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HHID420

DIMENSIONS



REFERENCES CONSTRUCTION

HHID / PRESSURE / FLOW / BY-PASS (0→NO · 1→YES)

EXAMPLE

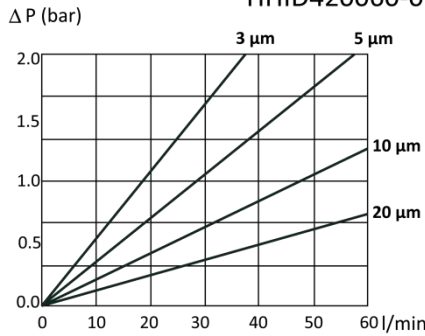
HHID / 420 / 160 / 1 ⇔ HHID420160-1

	NOMINAL FLOW 60l/min HHID420060	NOMINAL FLOW 160l/min HHID420160	NOMINAL FLOW 475l/min HHID420475
THREAD CONNECTION BSP (G)	3/4	1 - 1/4	1 - 1/4
Weight (kg) Including element	5,3	10,3	16,3
Dimensions (mm)			
b1	104	128	128
d1	68	95	96
d2	91	116	116
h1	188	239	483
h2	78	103	343
h3	48	49,5	49,5
h4	12,5	12,5	12,5
h5 Recommended	100	140	380
h5 Minimum	85	120	120
Hex	27	32	32
Thread dimensions (mm)			
b2	23,8	31,6	31,6
b3	50,8	66,7	66,7
G2	M10 x 15	M14 x 20	M14 x 20

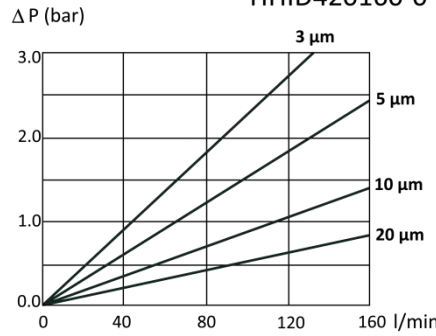
PRESSURE CURVES + ELEMENTS

(ACCORDING TO AN OIL VISCOSITY: 33cSt)

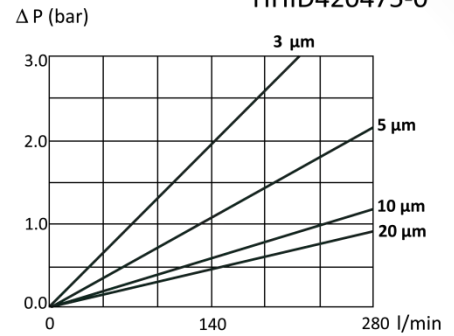
HHID420060-0



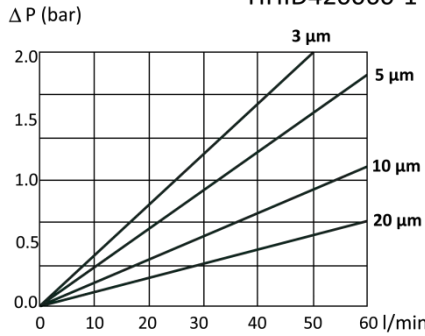
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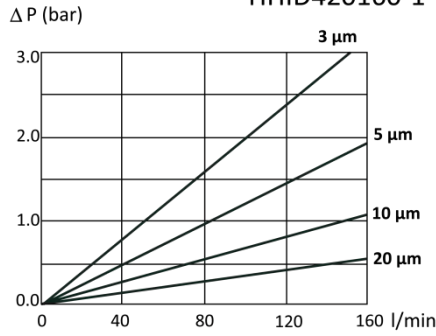
HHID420475-0



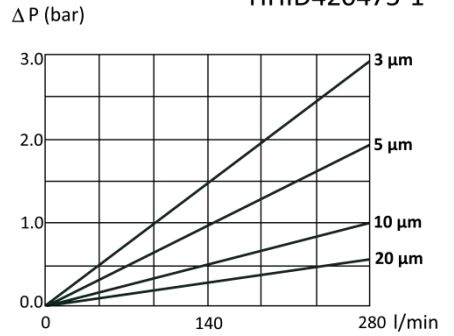
HHID420060-1



HHID420160-1



HHID420475-1



NOMINAL FLOW 60l/min		
REFERENCE	μm	ΔP (bar)
HID41523	3	25
HID46110	3	210
HID38152	5	25
HID41524	5	210
HID46113	10	25
HID34129	10	210
HID11941	20	25
HID41526	20	210
HEIGHT: 84 mm		
EXTERNAL DIAMETER: 47 mm		
INTERNAL DIAMETER: 22,20 mm		
MEDIA:GLASS FIBER		

NOMINAL FLOW 160l/min		
REFERENCE	μm	ΔP (bar)
HID11977	3	25
HID46111	3	210
HID20710	5	25
HID24298	5	210
HID46114	10	25
HID43211	10	210
HID11985	20	25
HID11983	20	210
HEIGHT: 116 mm		
EXTERNAL DIAMETER: 69 mm		
INTERNAL DIAMETER: 34,20 mm		
MEDIA:GLASS FIBER		

NOMINAL FLOW 475l/min		
REFERENCE	μm	ΔP (bar)
HID22468	3	25
HID46112	3	210
HID24150	5	25
HID23489	5	210
HID46115	10	25
HID47159	10	210
HID20818	20	25
HID23492	20	210
HEIGHT: 356 mm		
EXTERNAL DIAMETER: 69 mm		
INTERNAL DIAMETER: 34,20 mm		
MEDIA:GLASS FIBER		

