

FHD series

Maximum working pressure up to 35 MPa (350 bar) - Flow rate up to 345 l/min



Description

High Pressure filters

Duplex

Maximum working pressure up to 35 MPa (350 bar) Flow rate up to 345 l/min

FHD is a range of high pressure duplex filter with integrated changeover function to allow the filter element replacement without the system shut-down

They are directly connected to the lines of the system through the hydraulic fittings.

Available features:

- -Female threaded connections up to 1 1/4" and flanged connections up to 1 1/2", for a maximum flow rate of 345 l/min
- Fine filtration rating, to get a good cleanliness level into the system
- -Balancing valve integrated in the changeover lever, to equalize the housing pressure before the switch
- Bypass valve, to relieve excessive pressure drop across the filter media
- Vent ports, to avoid air trapped into the filter going into the system
- Drain ports, to remove the fluid from the housing prior the maintenance work
- Low collapse filter element "N", for use with filters provided with bypass valve
- High collapse filter element "H", for use with filters not provided with bypass valve
- Low collapse filter element with external support "R", for filter element protection against the back pressure caused by the check valve or the reverse flow in filters provided with the bypass valve
- High collapse filter element with external support "S", for filter element protection against the back pressure caused by the check valve or the reverse flow in filters not provided with the bypass valve
- Visual, electrical and electronic differential clogging indicators

Common applications:

- -System where shut-down causes high costs
- System where shut-down causes safety issues

Technical data

Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve: Steel

Pressure

- Test pressure: 52.5 MPa (525 bar)
- Burst pressure: 105 MPa (1050 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 35 MPa (350 bar)

Bypass valve

- Opening pressure 600 kPa (6 bar) ±10%
- Other opening pressures on request.

Δp element type

- Microfibre filter elements series N: 20 bar
- Microfibre filter elements series R: 20 bar (not available for FHD 021)
- Microfibre filter elements series H: 210 bar (only for FHD 021)
- Microfibre filter elements series S: 210 bar (not available for FHD 021)
- Wire mesh filter elements series N: 20 bar
- Fluid flow through the filter element from OUT to IN

Seals

- Standard NBR series A
- Optional FPM series V

Temperature

From -25 °C to +110 °C

Connections

In-line Inlet/Outlet 90°

Note

FHD filters are provided for vertical mounting

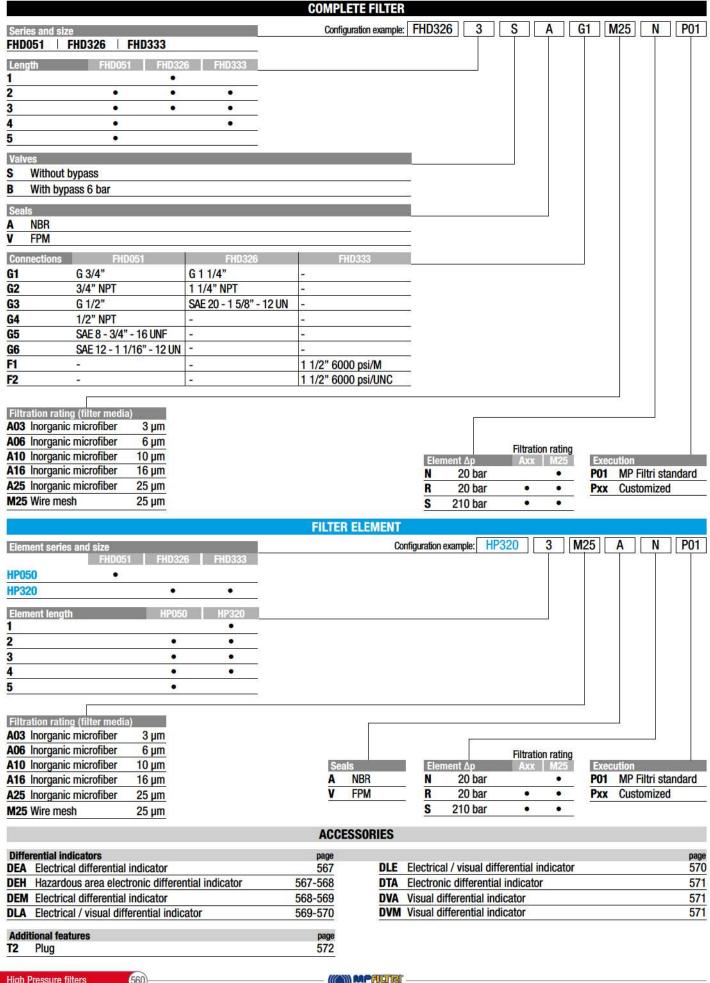


Weights [kg] and volumes [dm3]

Filter series	Weights [kg]							Volumes [dm ³]					
	Length						Length					5	
FHD 021		ŭ:	8.0	9.0	9.9	72		2	0.06	0.12	0.22	12	
FHD 051		+	16.9	17.5	18.5	19.8	0	-	0.31	0.41	0.53	0.83	
FHD 326		43.0	50.0	54.0	-	72	i i	0.88	1.60	2.37	-	11 2 1	
FHD 333		<u>=</u>	74.0	79.0	98.0	2		_	1.75	2.52	3.35	184	



Designation & Ordering code



Dimensions

