

Element P-FFR

Description

ultrafilter stainless steel filter elements type P-FFR have been specifically developed for high efficient removal of solid particles and bulk liquid from compressed air⁽¹⁾.

⁽¹⁾ For any other technical gas please contact us or your local dealer



Filter Element Rating According ISO 8573-1 (2010)

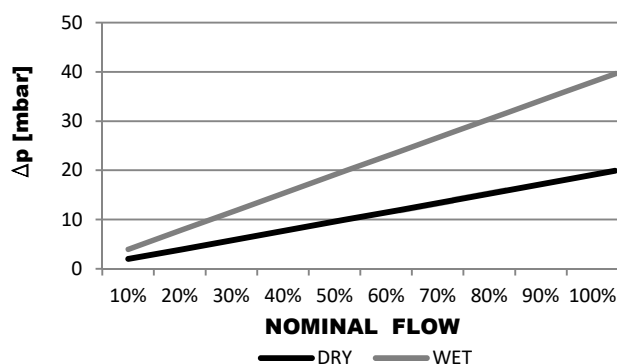
Solid particles class	Water class	Oil class
3	/	/

Validated according to ISO12500-3

Technical Specification

Operating temperature	1,5 - 120 °C / 35 - 248 °F
Operating pressure	0 - 14 barg / 0 - 203 psi
Differential pressure (dry)	20 mbar / 0,290 psi
Differential pressure (wet)	40 mbar / 0,580 psi
Particle retention (nominal)	99,9999% (1 µm)
Particle retention rate ISO ⁽³⁾	99,8 %
Residual oil content ⁽⁴⁾	/
Flow Direction	INSIDE to OUTSIDE
Capacity (ISO12500-2) ⁽⁵⁾	/

⁽³⁾ Tested according ISO12500-3, 1bar(a), nominal flow, P-FFR 03/10, Most penetrating particle size MPPS 0,3 µm



Materials

Filter media	Borosilicate micro fibers
Protection media	Polyester fleece
Drainage media	/
Adsorption media	/
Support (inner-outer)	Stainless steel 1.4301
Bonding	Epoxy base liquid metal
Endcaps	Stainless steel 1.4301
Sealing	Viton

Sizes

Filter Element Type / Size	Diameter [mm]	Height [mm]	Flow Capacity [Nm ³ /h]	Flow Capacity [scfm]	Fits into filter housing size
P-FFR 03/10	42	76	60	44	0006
P-FFR 04/10	42	104	90	62	0009
P-FFR 04/20	52	104	120	88	0012
P-FFR 05/20	52	128	180	132	0018
P-FFR 05/25	62	128	270	185	0027
P-FFR 07/25	62	180	360	247	0036
P-FFR 07/30	86	180	480	353	0048
P-FFR 10/30	86	254	720	530	0072
P-FFR 15/30	86	381	1080	742	0108
P-FFR 20/30	86	508	1440	989	0144
P-FFR 30/30	86	760	1920	1.413	0192
P-FFR 30/50	140	760	2880	2.119	0288
P-FFR 20/30 (3x)	86	508	4320	2.966	0432
P-FFR 30/30 (3x)	86	760	5760	3.955	0576
P-FFR 30/30 (4x)	86	760	7680	5.650	0768
P-FFR 30/30 (6x)	86	760	11520	7.910	1152
P-FFR 30/30 (8x)	86	760	15360	10.171	1536
P-FFR 30/30 (10x)	86	760	19200	12.431	1920

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_{OP}

Operating Pressure

[bar]	2	3	4	5	6	7	8	9	10	11	12	13	14
[psi]	29	44	58	72	87	100	115	130	145	160	174	189	203
C _{OP}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88

Maintenance

Replace filter element at least once per year or when pressure drop reaches 350mbar.