

Hydrovane - Datasheet



Specifications

Size, "(inch):	see table
Particle Retention rating, µm:	0,01 - 3
Flow capacity, nm3/h:	35 - 1100
Op. Temp. C°:	1,5 - 65
Diff. Pressure:	10 - 60(dry) - 20 - 190(wet)
Efficiency, % (nominal):	99,99 - 99,9999
Connection:	-
Material:	-
Sealing:	NBR

These filter elements have been developed for high efficient removal of solid particles, oil aerosols, water, hydrocarbons, vapours and odours from compressed air.

Filter element rating (ISO 8573-1)			
Filtration grade	Solid particle class	Water class	Oil class
DR	6	/	/
GP	3	/	/
HE	2	/	2
QR	1*	/	0/1

Technical Specifications					
	DR	GP	HE		QR
Operating temp.	1,5-65°C	1,5-65°C	1,5-65°C		1,5-45°C
Operating pressure	0-16 barg	0-16 barg	0-16 barg		0-16 barg
Differential pressure (dry)	10 mbar	20 mbar	50 mbar		60 mbar
Differential pressure (wet)	20 mbar	40 mbar	120 mbar		-
Particle retention (nominal)	99,99% (3µm)	99,9999% (1µm)	99,9999% (0,1µm)		-
Particle retention rate ISO(3)	95%	99,8%	99,98%		-
Residual oil content(4)	-	-	<0,1mg/m3		<0,005mg/m3
Flow Direction	INSIDE to OUTSIDE	INSIDE to OUTSIDE	INSIDE to OUTSIDE		INSIDE to OUTSIDE
Capacity (ISO12500-2)(5)	-	-	-		20 min

3* Tested according to ISO12500-3, 1bar(a), nominal flow, 0605 P, MPPS-(5µm) ; 06050 R, M, S, MPPS-(0,3µm)

4* Tested according to ISO12500-1, 06050 M, S Oil aerosol viscosity 32 mm2/s, inlet concentration 10 mf/m3

5* Tested according to ISO12500-2, 06050 A, tested with n-Hexane, test concentration 100mg/kg, 80% Saturation

Correction factors															
Operating pressure															
bar	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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	2,00	2,13

Materials					
	DR	GP	HE		QR
Filter media	Acrylic fibers, cellulose	Borosilicate micro fibers	Borosilicate micro fibers		Borosilicate micro fibers
Protection media	Polyester fleece	Polyester fleece	Polyester fleece		Polyester fleece
Drainage media	-	Polyester needle felt	Polyester needle felt		-
Adsorption media	-	-	-		Activated carbon granulate
Support (inner-outer)	Stainless steel 1.4301	Stainless steel 1.4301	Stainless steel 1.4301		Stainless steel 1.4301
Bonding	Polyurethane	Polyurethane	Polyurethane		Polyurethane
Endcaps	PA6 with 30% glass fibers	PA6 with 30% glass fibers	PA6 with 30% glass fibers		PA6 with 30% glass fibers
Sealing	NBR	NBR	NBR		NBR