

MDSF

COMPRESSED AIR FILTRATION



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Compressed air filtration

Compressed air: a great resource to know

Clean and oil-free compressed air is easily achieved with the new range of MDSF performance validated compressed air and gas filters. Mattei MDSF filters provide:

- improved filtration for your compressor room or point of use application
- reliable and efficient liquid and particulate removal with low pressure drop
- space saving design - no tie rod allows easy bowl removal
- three element grades from 1 to 0.01 micron
- twenty-two models from 8 to 1500 scfm at 100 psig
- a comprehensive range of accessories for every application

VALIDATION

Filtration performance is validated & tested by independent laboratories in accordance with international filtration & safety standards.

- Manufactured in ISO 9001 approved facilities
- Independently tested to ISO 12500

WARRANTY

A 1 year element and a 10 year housing warranty comes as standard.



**DROP FIT ELEMENTS
WITH DOUBLE O-RING
SEAL**



**DUAL SIDED
DIFFERENTIAL PRESSURE
GAUGES AND INDICATORS**



**AUTOMATIC DRAIN WITH
MANUAL OVERRIDE**



**COLOR CODED
ELEMENT ENDCAPS**

MDSF FILTERS

Filter element features

- DOUBLE ELEMENT O-RING prevents contaminant bypass
- STAINLESS STEEL CYLINDERS provide strength, rigidity & corrosion resistance
- DEEP BED FILTER MEDIA provides low differential pressure resulting in improved energy efficiency & long element life
- HYDROPHOBIC & OLEOPHOBIC borosilicate glass microfiber media repels oil & water for improved coalescing performance
- OUTER RE-ENTRAINMENT DRAINAGE LAYER compatible with synthetic lubricants & prevents oil carry over
- AIR DISTRIBUTION DUCT provides uniform air flow, resulting in lower differential pressure & improved filtration & flow dynamics
- DROP-FIT, SELF LOCATING ELEMENTS no tie rod simplifies element change out & reduces access requirements for bowl removal
- CORROSION RESISTANT ENDCAPS color coded to provide easy & accurate filtration grade identification
- LOWER ANNULAR LOCATION RING prevents element vibration, improves stability in reverse flow (dust removal) applications & improves drainage






Filter housing features

- EXTENSIVE RANGE ports from ¼" to 3" NPT & BSP, & flow capacities up to 1500 scfm
- ALUMINUM DIE CAST HOUSING pressure die casting provides enhanced strength & long life
- E-COAT™ INTERNAL COATING advanced process provides exceptional corrosion resistance
- POWDER COATED EXTERIOR provides a tough and abrasion resistant surface
- SECURE BOWL CONNECTION three full turns ensure head is safely connected to the bowl
- LARGE CONDENSATE RESERVOIR provides a quiet zone for bulk oil collection
- AUTOMATIC DRAIN STANDARD includes manual override for testing & depressurization
- HEXAGON SPANNER LOCATOR for simple bowl removal
- NO TIE ROD for minimum maintenance access



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 MODEL	 INLET & OUTLET CONNECTIONS	 RATED FLOW ⁽¹⁾		 DIMENSIONS (INCH)					 APPROX WEIGHT	REPLACEMENT ELEMENT
				A	B	C	D	E		
MDSF	NPT	scfm	Nm ³ /hr	inch	inch	inch	inch	inch	lbs	
MDSF 0008 (grade)	1/4"	8	13	1.93	0.73	5.27	3.00	6.00	0.7	RE 0008 (grade)
MDSF 0015 (grade)	1/4"	15	25	1.93	0.73	5.27	3.00	6.00	0.7	RE 0015 (grade)
MDSF 0025 (grade)	1/4"	25	42	2.76	0.98	6.52	3.00	9.14	1.3	RE 0025 (grade)
MDSF 0030 (grade)	1/2"	30	48	2.76	0.98	6.52	3.00	9.14	1.3	RE 0030 (grade)
MDSF 0035 (grade)	3/8"	35	59	2.76	0.98	6.52	3.00	9.14	1.3	RE 0035 (grade)
MDSF 0050 (grade)	1/2"	50	85	2.76	0.98	8.13	3.00	10.75	1.5	RE 0050 (grade)
MDSF 0070 (grade)	1/2"	70	119	3.94	1.34	9.49	3.00	13.64	3.5	RE 0090 (grade)
MDSF 0085 (grade)	3/4"	85	144	3.94	1.34	9.49	3.00	13.64	3.5	RE 0090 (grade)
MDSF 0090 (grade)	1"	90	153	3.94	1.34	9.49	3.00	13.64	3.5	RE 0090 (grade)
MDSF 0125 (grade)	3/4"	125	212	3.94	1.34	14.21	3.00	18.36	4.4	RE 0135 (grade)
MDSF 0135 (grade)	1"	135	229	3.94	1.34	14.21	3.00	18.36	4.4	RE 0135 (grade)
MDSF 0175 (grade)	1"	175	297	3.94	1.34	14.21	3.00	18.36	4.4	RE 0175 (grade)
MDSF 0280 (grade)	1 1/4"	280	476	4.80	1.65	16.42	3.00	20.88	6.2	RE 0325 (grade)
MDSF 0290 (grade)	1 1/2"	290	493	4.80	1.65	16.42	3.00	20.88	6.2	RE 0325 (grade)
MDSF 0325 (grade)	1 1/2"	325	550	4.80	1.65	16.42	3.00	20.88	6.2	RE 0325 (grade)
MDSF 0400 (grade)	1 1/2"	400	680	5.75	2.05	16.89	3.00	21.75	9.2	RE 0450 (grade)
MDSF 0450 (grade)	2"	450	765	5.75	2.05	16.89	3.00	21.75	9.2	RE 0450 (grade)
MDSF 0700 (grade)	2"	700	1190	5.75	2.05	28.82	3.00	33.68	13.9	RE 0700 (grade)
MDSF 0850 (grade)	2 1/2"	850	1445	8.27	2.62	20.73	3.00	26.16	18.7	RE 1000 (grade)
MDSF 1000 (grade)	3"	1000	1700	8.27	2.62	20.73	3.00	26.16	18.7	RE 1000 (grade)
MDSF 1250 (grade)	3"	1250	2125	8.27	2.62	29.51	3.00	34.94	23.1	RE 1250 (grade)
MDSF 1500 (grade)	3"	1500	2550	8.27	2.62	35.69	3.00	41.12	26.4	RE 1500 (grade)

SPECIFICATIONS	MDSF 0008 - 0015	MDSF 0025 - 0050	MDSF 0070 - 1500
Design operating pressure range	0 - 232 psig	0 - 232 psig	22 - 232 psig ⁽²⁾
Automatic float drain	MDK 0050	MDK 0050	MDK 1500
Differential pressure indicator/gauge	-	MDP 0050	MDP 1500

ELEMENT PERFORMANCE	M1	M01	AC
Maximum particle size (ISO class) ⁽³⁾	2	1	-
Maximum oil content (ISO class) ⁽³⁾	2	1	1
Particle removal (microns)	1	0.01	-
Max carry over at 68°F (ppm or mg/m ³)	0.1	0.01	0.003
Recommended operating temp range (°F)	35 - 176	35 - 176	35 - 77
Design operating temperature range (°F)	35 - 176	35 - 176	35 - 122

PRESSURE CORRECTION FACTORS ⁽⁴⁾										
Operating pressure	psig	58	72	87	100	115	145	174	203	232
Correction factor		0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

(1) at 100 psig. For all other pressures refer to the pressure correction factor table above. | (2) for pressures below 22 psig order with an MDK 0050 condensate drain. | (3) ISO 8573.1:2010 (E)

