



Cost Effective and Reliable Source For Micron In-line Filters

SERIES - MLF01



www.sealexcel.com

*Advanced Technology in design, development and production of world class quality Fittings and Valves for Instrumentation, Process Tubing etc. ensure
A TOTAL CUSTOMER SATISFACTIONS*



Unit-II, Gujarat (Plant-1)



Unit-II, Gujarat (Plant-2)

SEALEXCEL (INDIA) PVT. LTD. A fast growing manufacturing company having over 25 years of experience and expertise with advanced technology in Design, Development and Manufacturing World Class consistent and reliable quality Tube Fittings and Valves used in Fluid/Gas Control System in Industries like Automobile, Chemicals, Petrochemicals, Oil & Gas, Marine, Food, Biotechnology, Pharmaceutical, Packaging and Printing Industries etc.

We have two well-equipped modern manufacturing plant including in-house product performance testing facilities to check and verify the maximum safety and consistent reliable performance under adverse, harsh, stressful environments like vibrations, high pressure, deep vacuum and thermal shock etc.

RESEARCH & DEVELOPMENT

By continuous Research & Development with advanced technology and high tech cutting edge machineries. SEALEXCEL produce best quality products for its customers.

QUALITY

SEALEXCEL's total quality system and control from incoming raw material inspection through ongoing quality assurance during production, final inspection, assembly, testing, packing and dispatch ensure high standard quality products which has earned us various quality certifications such as

- ISO 9001:2015
- PED 2014/68/EU
- ATEX
- OHSAS 18001 (Safety)
- ISO 14001 (Environment)

SEALEXCEL products are validated by type testing in accordance with

- ASTM F 1387-99(2012)
- ECE R110, ISO 15500
- BS4368:4:1984
- MSS SP-99-2010
- Helium Leak Test
- ARAI Test Report

CUSTOMER SATISFACTION

We strive for Total Customer Satisfaction and continuously work to set of goals to provide the best quality and delivery of products and services in the best interest of our customers.

FEATURES / BENEFITS

- Available in material SS316
- Heat Code Traceable to certified material test report
- Remove system particulate contaminants
- Inline Filters are for use where space is limited
- Replaceable filter elements
- Variety of end configuration includes SEALEXCEL® Well-Lok™ Tube Fittings, Male / Female NPT, BSPT, BSPP pipe connections



OPERATING PARAMETERS

Pressure Rating : upto 3000 psig (204 bar) at CWP
 Temperature Rating : -28°C to 482°C

TECHNICAL DATA

TEMPERATURE AND PRESSURE RATING

Material	SS 316	
	2.4mm & 4.8mm	7.1mm & 10.4mm
Orifice Size		
Temperature °F(°C)	Working pressure psig(bar)	
-20(-28) to 100(37)	3000(204)	2500(172)
200(93)	2580(176)	2150(148)
300(148)	2330(160)	1940(133)
400(204)	2140(147)	1780(122)
500(260)	1990(137)	1660(114)
600(315)	1880(129)	1560(107)
650(343)	1845(127)	1540(106)
700(371)	1800(124)	1500(103)
750(396)	1760(121)	1460(100)
800(426)	1725(118)	1440(99.2)
850(454)	1690(116)	1410(97.1)
900(482)	1640(112)	1360(93.7)

EFFECTIVE FILTRATION AREA

Orifice Size mm	Effective Filtration Area in ² (mm ²) Sintered
2.4	0.55(350)
4.8	1.3(830)
7.1 & 10.4	2.0(1280)

FILTER ELEMENTS

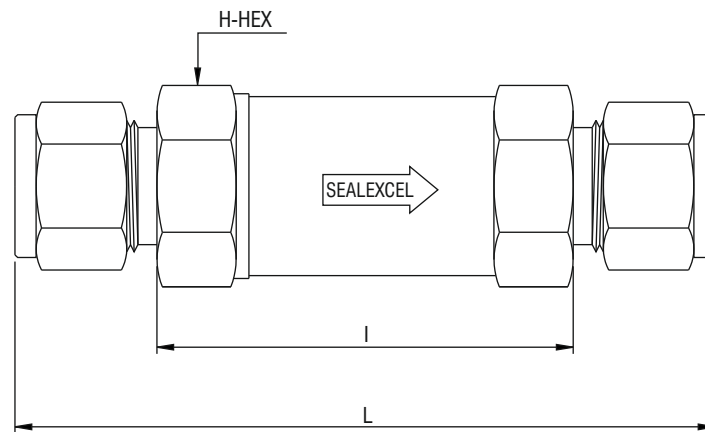
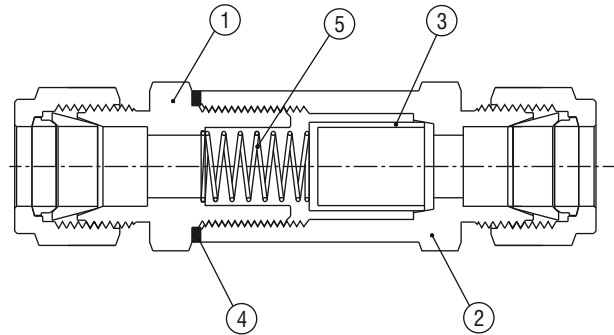
Nominal Pore Size μm	Pore Size Range μm
0.5	0.5 to 2
2	1 to 4
7	5 to 10
15	11 to 25
60	50 to 75
90	75 to 100

FLOW DATA AT 70°F (20°C)

Nominal Element Pore Size μm	Inlet Pressure psig(bar)									Pressure Drop psig (bar)								
	5 (0.34)			10(0.68)			15(1.0)			10(0.68)			50(3.4)			100(6.8)		
	2.4	4.8	7.1,10.4	2.4	4.8	7.1,10.4	2.4	4.8	7.1,10.4	2.4	4.8	7.1,10.4	2.4	4.8	7.1,10.4	2.4	4.8	7.1,10.4
Air Flow, ft ³ /min									Water Flow, ft ³ /min									
0.5	0.04	0.12	0.36	0.06	0.26	0.86	0.12	0.48	1.6	0.001	0.005	0.012	0.005	0.023	0.053	0.016	0.039	0.102
2	0.20	0.6	1.4	0.40	1.4	2.8	0.60	2.3	4.0	0.01	0.032	0.035	0.032	0.115	0.147	0.053	0.174	0.214
7	0.50	1.4	1.8	0.90	2.9	4.2	1.2	4.7	6.8	0.013	0.053	0.086	0.04	0.174	0.294	0.064	0.267	0.468
15	0.80	1.2	1.8	1.3	2.9	4.9	1.5	4.7	7.9	0.016	0.067	0.112	0.048	0.174	0.348	0.078	0.28	0.548
60	1.7	3.1	5.1	2.2	5.9	10	2.4	8.5	15	0.02	0.12	0.267	0.067	0.441	0.896	0.094	0.615	1.337
90	1.8	4.0	6.1	2.2	7.5	11	2.6	10	16	0.027	0.16	0.307	0.067	0.561	1.02	0.08	0.815	1.47

MATERIALS OF CONSTRUCTION

No.	Description	Material
1	Inlet Body	SS316
2	Outlet Body	SS316
3	Filter Elements	SS316-Sintered
4	Gasket	Silver Plated SS316
5	Spring	SS304



STANDARD CONFIGURATION DIMENSIONS

End Connections		Orifice (mm)	Dimensions (mm)			Ordering Number
Inlet	Outlet		H	I	L	
1/8" Well-Lok		2.4	14.3	29.2	59.7	MLF01-TT2
1/4" Well-Lok		4.8	19.0	39.7	75.2	MLF01-TT4
3/8" Well-Lok		7.1	25.4	43.2	81.8	MLF01-TT6
1/2" Well-Lok		10.4	25.4	43.2	86.9	MLF01-TT8
3mm Well-Lok		2.4	14.3	29.2	60.5	MLF01-TT3M
6mm Well-Lok		4.8	19.0	39.7	75.2	MLF01-TT6M
10mm Well-Lok		10.4	25.4	43.2	82.2	MLF01-TT10M
1/8" Male NPT		2.4	14.3	29.2	48.6	MLF01-MM2N
1/4" Male NPT		4.8	19.0	39.7	68.3	MLF01-MM4N
3/8" Male NPT		7.1	25.4	43.2	71.6	MLF01-MM6N
1/8" Female NPT		2.4	14.3	29.2	54.9	MLF01-FF2N
1/4" Female NPT		4.8	19.0	39.7	72.9	MLF01-FF4N
3/8" Female NPT		7.1	25.4	43.2	77.2	MLF01-FF6N

Dimensions shown with SEALEXCEL® Well-Lok™ Nut are finger tight

VALVE DESCRIPTION	ORDERING NUMBER FOR TUBE CONNECTIONS	ORDERING NUMBER FOR PIPE END CONNECTIONS
MICRON IN-LINE FILTERS	<u>MLF01-TT</u> <u>8-E</u> <u>V</u> <u>15</u> 1 2 3 5 6 7	<u>MLF01-FF</u> <u>6</u> <u>N-E</u> <u>15</u> 1 2 3 4 5 6

VALVE SERIES CODE DESCRIPTION

MICRON IN-LINE FILTERS SERIES : MLF01

2. END CONNECTION TYPE CODE DESCRIPTION

- TT - SEALEXCEL® Well-Lok™ Tube Fittings
- MM - Male pipe thread
- FF - Female pipe thread
- MT - Male pipe thread to SEALEXCEL® Well-Lok™ Tube Fittings
- MF - Male pipe thread to Female pipe thread
- TSW - Tube Socket Weld Pipe

3. END CONNECTION SIZE CODE DESCRIPTION

TUBE OD SIZE

FRACTIONAL		METRIC	
SIZE	CODE	SIZE	CODE
1/4"ODT	4	6mm ODT	6M
3/8"ODT	6	8mm ODT	8M
1/2" ODT	8	10mm ODT	10M
3/4"ODT	12	12m ODT	12M
1" ODT	16	16mm ODT	16M

PIPE THREAD SIZE

SIZE	CODE	SIZE	CODE
1/8"	2	1/2"	8
1/4"	4	3/4"	12
3/8"	6	1"	16

4. PIPE THREAD TYPE CODE DESCRIPTION

- N - Male / Female NPT
- RT - Male / Female BSPT
- RG - Female BSP
- SE - SAE Straight Thread

5. MATERIAL OF CONSTRUCTIONS

- E - SS316
- EL - SS316 to NACE MR01-75

6. NOMINAL PORE SIZE OF FILTER ELEMENTS

Pore Size μm	Code	Pore Size μm	Code
0.5	05	15	15
2	2	60	60
7	7	90	90

TANGENTIAL BENEFITS OF OUR PRODUCTS:

- Brings world Class quality products indigenously developed.
- The products meeting all the international manufacturing standards and are supported by our qualitative product engineering services.
- Products are designed and manufacturing methodology follows advanced technology in our well– equipped ultra-modern design and manufacturing facility.
- The Products are manufactured by cutting-edge technology concept machineries, In-house performance, endurance and quality testing facilities resulting in sustained quality consistant products.
- The commercial price competitiveness saves substantial cost without any compromise in quality and services.

PRODUCT RANGE



 <p>Twin/Single Ferrule Tube Fittings</p>	 <p>37° Flare Tube Fittings To SAE J514</p>	 <p>Instrument Threaded & Welded Pipe Fittings</p>	 <p>Tube Fittings With Integral Flange</p>	 <p>Low /Medium PressureBall Valves</p>
 <p>High Pressure Ball Valve</p>	 <p>High Pressure 2/3 Way Ball Valve</p>	 <p>Needle Valve</p>	 <p>Needle Valves (Panel Mountable)</p>	 <p>High Pressure Needle Valve</p>
 <p>Rising Stem Plug Valves</p>	 <p>Gauge/Root Valves</p>	 <p>Instrument 2/3/5 Manifold Valves</p>	 <p>Monoflange Valves</p>	 <p>Single / Double Block & Bleed</p>
 <p>Purge Valves</p>	 <p>Bleed Valves</p>	 <p>Toggle Valves</p>	 <p>Relief Valves</p>	 <p>Check Valves</p>
 <p>Micron In-line Filters</p>	 <p>Quick Connect Couplings</p>	 <p>Stainless Steel Pneumatics Fittings & Valves</p>		



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