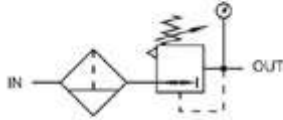


过滤减压阀 Filter regulator / LFR

型号代码 Type codes

SENWARD



过滤器和减压阀组成一个单独的装置，能过滤空气中的液态油、冷凝水及杂质，对于特殊应用场合，5 μ m 滤芯容易替换40 μ m的标准滤芯。
即使输入压力与压缩空气消耗产生系统波动，减压阀也能保证其设定的工作压力非常稳定。

Filter and pressure regulator combine a single unit ,and cleans the compressed air of fluid oil,condensation and dirt particles.For special application,the standard 40 μ m filter element may easily be replaced by a 5 μ m filter element.
The LR maintain imputting constant operating pressure despite fluctuation in line pressure and the amount of air consumed.

LFR	-	1/4	-		-		-		-	MINI	-	
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基本功能 Basic function	
LFR	过滤减压阀 Filter regulator
接口尺寸 Connection	
1/8	G1/8
1/4	G1/4
3/8	G3/8
1/2	G1/2
3/4	G3/4
1	G1
压力调节范围 Pressure regulation range	
	0.5...12bar
7	0.5...7bar
过滤等级 Grade of Filtration	
	40 μ m
5M	5 μ m
压力表 Pressure gauge	
	带压力表 With pressure gauge
0	不带压力表 Without pressure gauge
规格 Size	
MINI	小型
MIDI	中型
MAXI	大型
排水阀 Condensate drain	
	手动 Turned manually
S	半自动 Semi-automatic
A	自动 Fully automatic

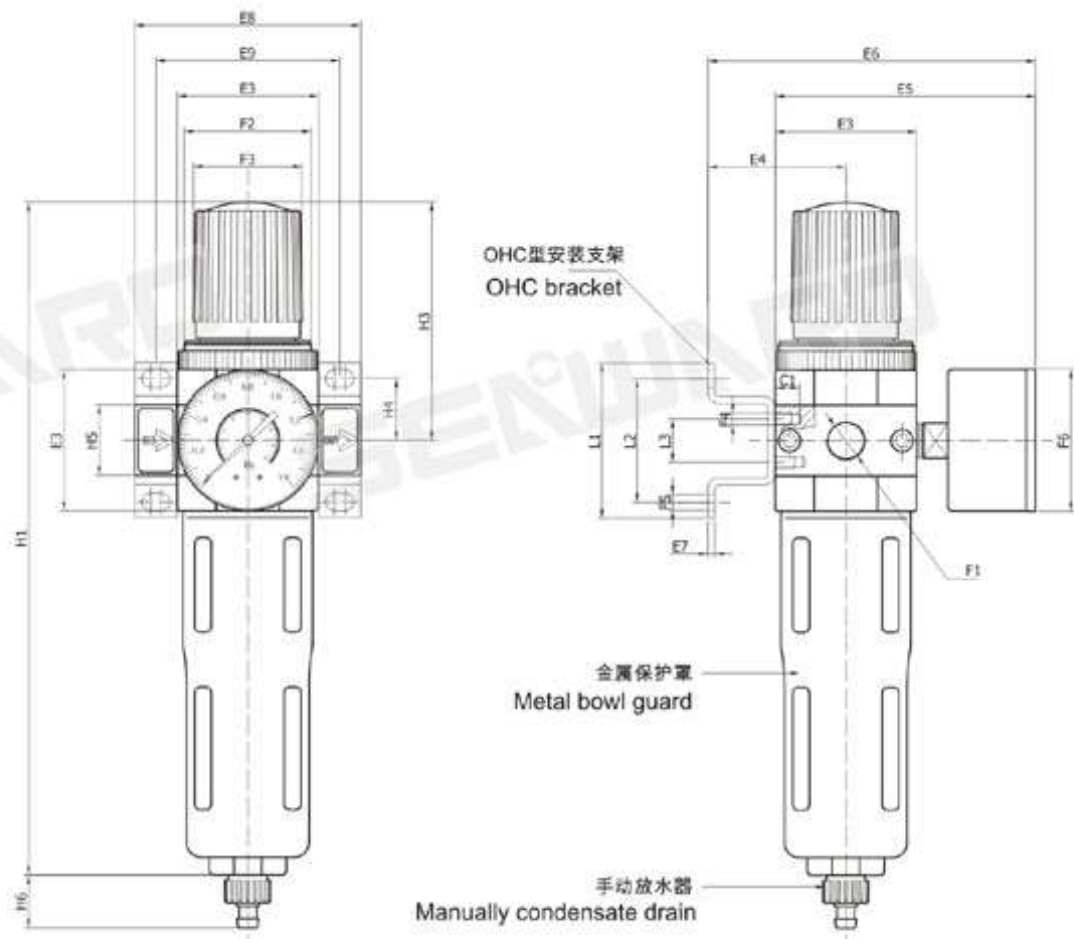
过滤减压阀 Filter regulator / LFR

技术参数 Technical data

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主要技术参数 General technical data									
Size		MINI			MIDI			MAXI	
工作介质 Medium		压缩空气 Compressed air							
结构特点 Features of structure		带水分离器的烧结式过滤器；MINI/MIDI：膜片式减压阀；MAXI：活塞式减压阀 Sintered filter with water separator；MINI/MIDI：Diaphragm type regulator；MAXI：Piston regulator							
安装方式 Mounting type		管式安装或支架安装 Pipe mounting or foot mounting							
安装位置 Assembly position		垂直方向±5° Vertical±5°							
连接尺寸 Connection		G1/8	G1/4	G3/8	G3/8	G1/2	G3/4	G3/4	G1
标准额定流量 Standard nominal flow rate	LFR-... (-A)	750	1400	1600	3100	3400	3400	9000	10000
	LFR-...-7- (-A)	900	1500	1700	3400	3900	4000	9500	16000
	LFR-...-5M- (-A)	650	1200	1350	2400	2500	2600	7300	7600
输入压力 Primary pressure	手动排水阀 Manual condensate drain	1~16bar							
	自动排水阀 Automatic condensate drain	1.5~12bar							
工作压力 Working pressure		0.5~12bar / 0.5~7bar							
过滤精度 Grade of filtration		40µm / 5µm							
最大凝度容量 Max.condensate capacity		22ml			43ml			80ml	
温度范围 Temperature range		0~60℃							
材料 Materials information		壳体：压铸锌；过滤杯：聚碳酸酯；金属保护罩：铝合金；密封：丁腈橡胶；调压手轮：POM Housing：Zinc die-casting；Filter bowl：PC；Metal bowl guard：Aluminium alloy；Sealing：NBR；Adjusting knob：POM							

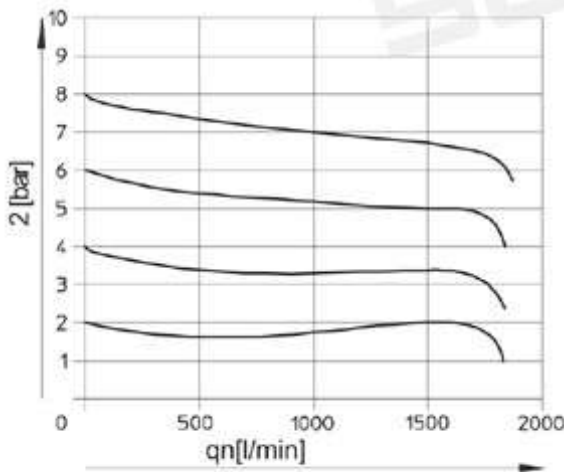
尺寸图 Dimensions



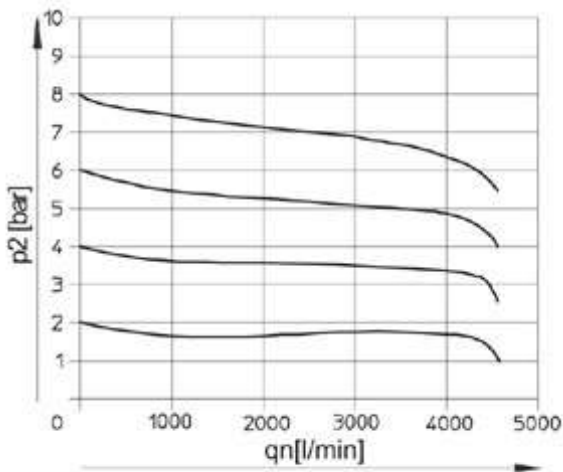
型号 Model	E3	E4	E5	E6	E8	E9	F1	F2	F3Φ	F4	F5Φ	F6Φ	L1	L2	L3	H1	H3	H4	H5	H6
OFR-...-MINI	40	39	76	95	64	52	G1/8,G1/4,G3/8	M36*1.5	31	M4	4.5	40	44	35	11	194	69	17.5	20	15
OFR-...-MIDI	55	47	93	112	85	70	G1/8,G1/2,G3/4	M52*1.5	50	M5	5.5	52	71	60	22	250	98	24.5	32	15
OFR-...-MAXI	66	53	104	124	96,116	80,91	G3/4,G1	M36*1.5	31	M5	5.5	63	71	60	22	252	80	24.5	32,40	15

标准额定流量qn和输出压力p2的关系 Standard flow rate qn as a function of the output pressure p2

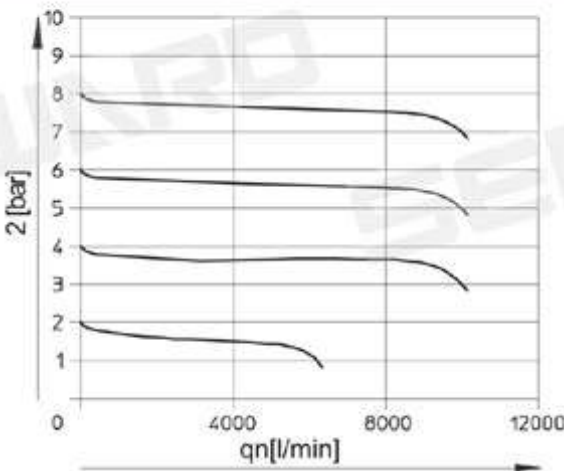
LFR-1/4-MINI



LFR-1/2-MIDI



LFR-1-MAXI



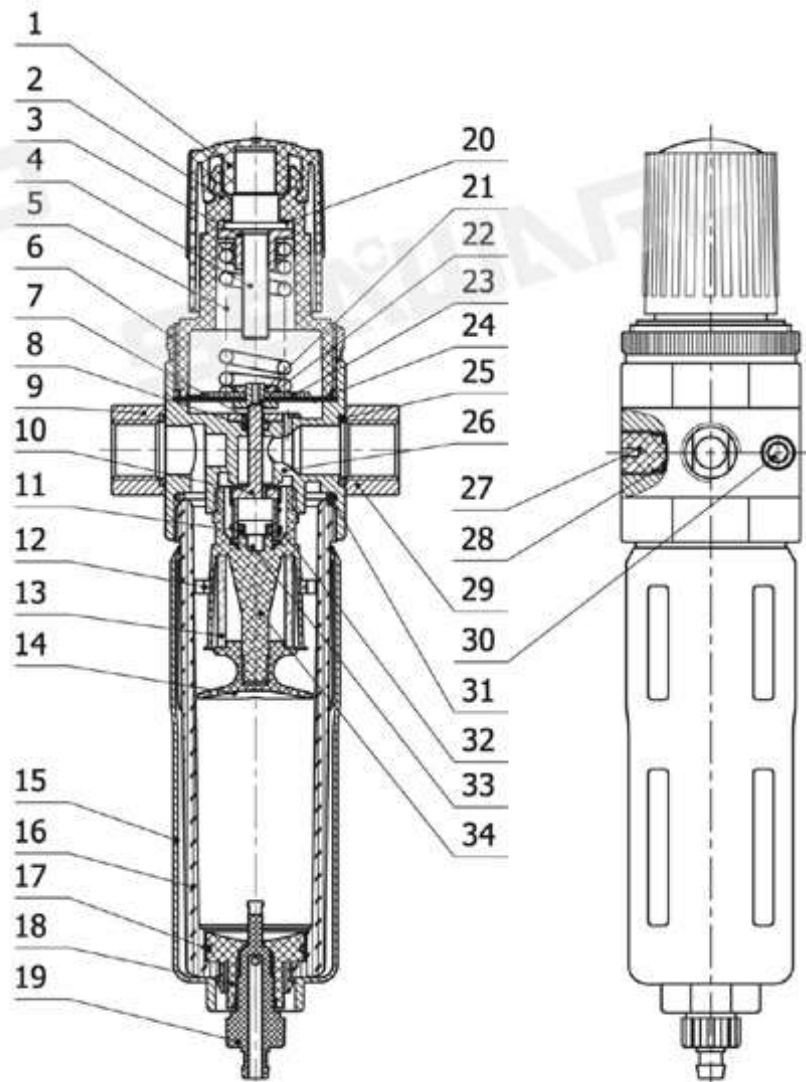
输入压力 p1=10 bar Input Pressure p1=10 bar

过滤减压阀 Filter regulator / LFR

技术参数 Technical data

SEWARD

内部结构图 Inner structure



序号 NO.	名称 Item	材料 Material	序号 NO.	名称 Item	材料 Material
1	调压手轮 Pressure knob	POM	21	LR 垫片 Sheet	NBR
2	阀盖 Regulator cap	POM	22	溢流阀座 Overflow base	6061-T6
3	主调压六角螺帽 Regulator nut	S35C	23	膜片托盘 One part of diaphragm	SPCC
4	调压螺杆 Adjusting spindle	S35C	24	膜片 Diaphragm	NBR+尼龙网
5	弹簧 Pressure spring	SWC	25	O型圈 O-ring	NBR
6	滚花并帽 Fixed ring	6061-T6	26	LR 阀体 LR Body	锌合金 Zinc alloy
7	膜片挡圈 One part of membrane	PA6+G15	27	丝堵 Plug	POM
8	O型圈 O-ring	NBR	28	O型圈 O-ring	NBR
9	分气块-IN Flange - IN	锌合金 Zinc alloy	29	分气块-OUT Flange - OUT	锌合金 Zinc alloy
10	阀芯 Spool	黄铜 Brass	30	内六角螺丝 Allen screw	S35C
11	O型圈 O-ring	NBR	31	O型圈 O-ring	NBR
12	旋风叶轮 Whirl wind impeller	POM	32	复位弹簧 Spring	SWPB
13	滤芯 Filter element	聚乙烯 PE	33	扣钉 Fasteners	黄铜 Brass
14	挡水板 Manger	POM	34	滤芯座 Filter element base	POM
15	保护罩 Metal bowl guard	铝合金 Aluminium alloy			
16	水杯 Filter bowl	PC			
17	O型圈 O-ring	NBR			
18	内接头 Inner joint	POM			
19	放水器 Condensate drain	POM			
20	耐磨垫片 Wearing sheet	绝缘胶板 Insulation sheet			