

STAUFF



**Medium Pressure Filters MF-MQ**

Operating Pressure: max 280 bar (4.000 PSI)

Local solutions for  
individual customers  
worldwide



**Walter Stauffenberg GmbH & Co. KG**

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**STAUFF Filtration Technology**

STAUFF Filtration Technology offers a complete range of filtration products and services that will provide the system designer or user with the highest level of contamination control demanded by today's most sophisticated applications.

Products include high-pressure filters, medium-pressure filters, return line filters, elements, spin-on filters, suction strainers and filler breathers for various hydraulic, lubrication and fuel oils.

STAUFF has the technical expertise to provide superior filter element designs for the STAUFF original filter housings and also for the interchange element market. STAUFF manufactures more than 10,000 different elements. Many of these are designed to fit into filter housings produced by other companies while maintaining or surpassing the original performance.

STAUFF, through its global network of wholly owned companies and technically qualified distributors, is ideally placed to assist its customers in the total contamination control process providing a well balanced filtration solution.

The *STAUFF Contamination Control Program* includes the diagnostic services including fluid sampling and laser particle counting products needed to monitor system contamination levels.

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**Globally available through wholly-owned branches and distributors in all industrial countries.**

**Description**

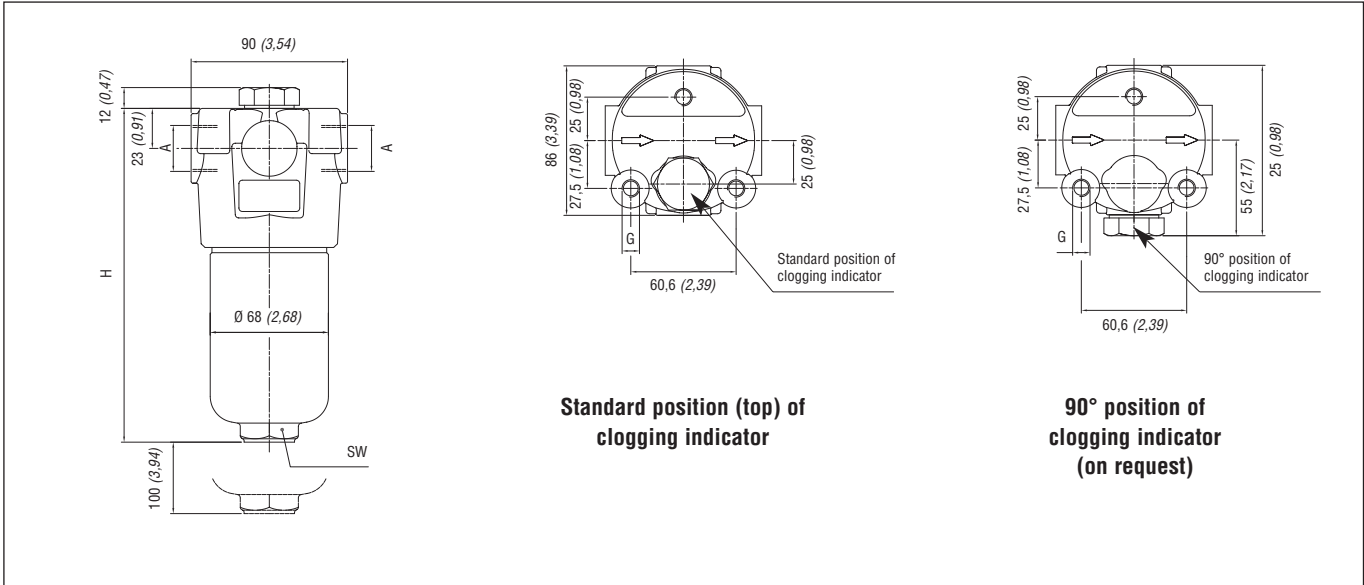
STAUFF MF-MQ series medium pressure filters are designed for in-line hydraulic applications with a maximum operating pressure of 280 bar (4.000 PSI). Used together with STAUFF filter elements, a high efficiency of contaminant removal is assured.



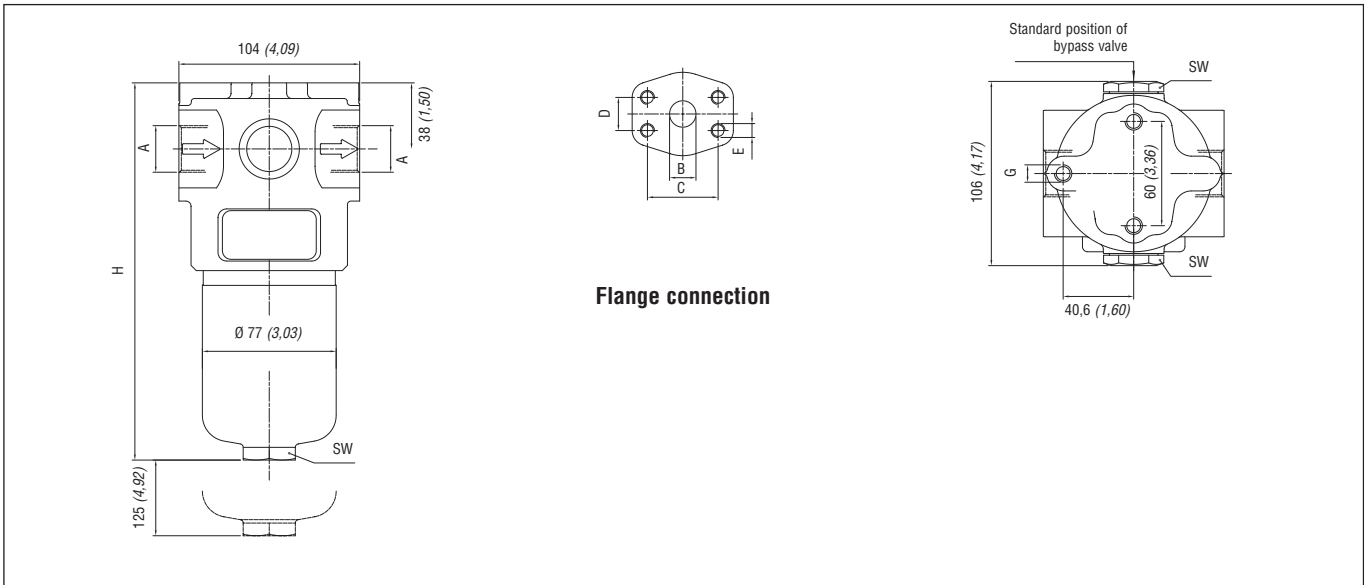
**Specifications**

<b>Construction</b>	In-line assembly (with threaded mounting holes on top of head)	<b>Bypass Valve</b>	Allows unfiltered oil to bypass the contaminated element once the opening pressure of 6 bar (87 PSI) ±10% has been reached; version without bypass valve on request
<b>Port Connections</b>	BSP; Metric, NPT, SAE O-Ring thread, SAE code 61 & 62 flange on request	<b>Clogging Indicator</b>	Visual and electrical clogging indicators (actuated by the differential pressure across the filter element) with an actuating pressure of 5 bar (72 PSI) ±10%
<b>Material Filter Head</b>	Cast iron (chemical heat treatment)	<b>Filter Elements</b>	Specifications, see page 8
<b>Material Filter Bowl</b>	Steel (chemical heat treatment)	<b>Media Compatibility</b>	Suitable for mineral oils, aqueous emulsions and sythetic fluids; compatibility with other media on request
<b>Material Bypass Valve</b>	Steel (for MF-MQ-024/.../035) Brass (for MF-MQ-037/.../127)		
<b>Material Sealings</b>	NBR (Perbunan); FKM (Viton) on request		
<b>Operating Pressure</b>	max 280 bar (4.000 PSI)		
<b>Proof Pressure</b>	420 bar (6.000 PSI)		
<b>Burst Pressure</b>	> 840 bar (12.000 PSI)		
<b>Temperature Range</b>	-25°C ... +110°C (-13°F ... +230°F)		

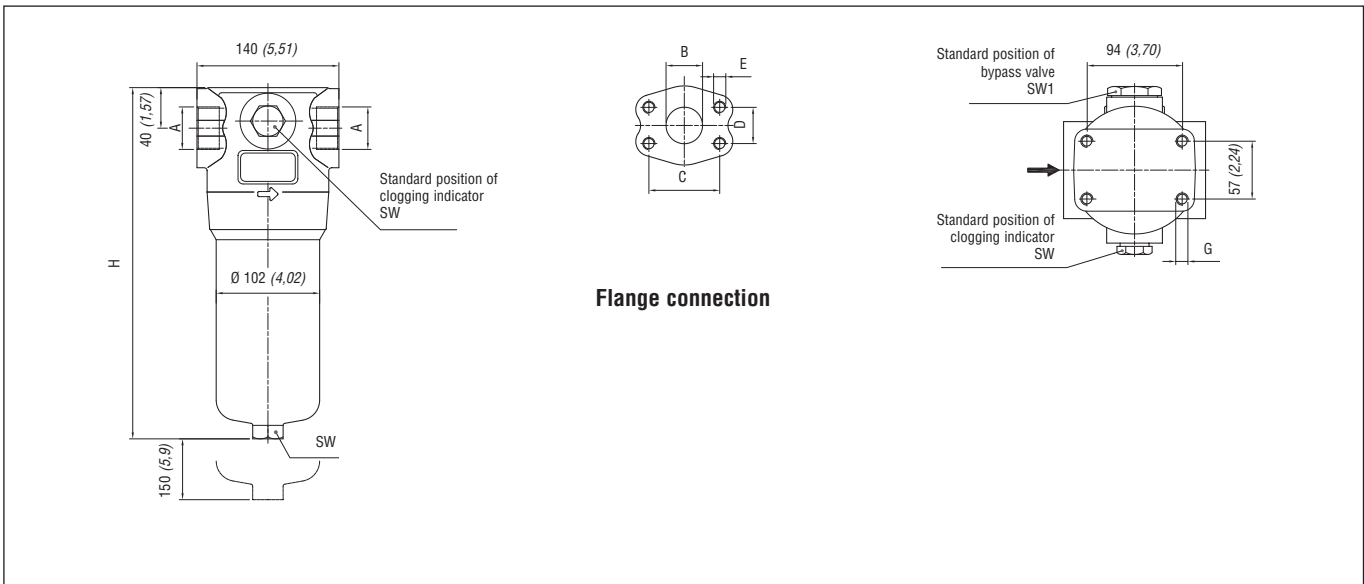
Dimensions MF-MQ-024/027/030/035



Dimensions MF-MQ-026/037/048



Dimensions MF-MQ-053/106/119/127



### Port Connection A (Delivery standards and printed in **bold**.)

Filter Size	BSP	NPT	Metric	SAE O-Ring thread	SAE flange 3.000 PSI Metr.	SAE flange 3.000 PSI UNC
<b>MF-MQ-024</b>						
<b>MF-MQ-027</b>	G 1/2"	1/2" NPT	M18x1,5	3/4"-16 UNF	-	-
<b>MF-MQ-030</b>	<b>G 3/4"</b>	3/4" NPT	M22x1,5	1-1/16"-12 UN		
<b>MF-MQ-035</b>						
MF-MQ-026	G 3/4"	3/4" NPT	-	1-1/16"-12 UN	3/4"	3/4"
<b>MF-MQ-037</b>	<b>G 1"</b>	1" NPT		1-5/16"-12 UN	1"	1"
<b>MF-MQ-048</b>						
MF-MQ-053	G 1-1/4"	1-1/4" NPT	-	1-5/8"-12 UN	1-1/4"	1-1/4"
<b>MF-MQ-106</b>	<b>G 1-1/2"</b>	1-1/2" NPT		1-7/8"-12 UN	1-1/2"	1-1/2"
<b>MF-MQ-119</b>						
<b>MF-MQ-127</b>						

### Dimensions (Delivery standards and printed in **bold**.)

Filter Size	H	G Depth 15mm (0,59)	SW	SW1	B	C	D	E Depth 15mm (0,59)
<b>MF-MQ-024</b>	195 (7,68)							
<b>MF-MQ-027</b>	237 (9,33)	M10	30 (hex 1.18)	-	-	-	-	-
<b>MF-MQ-030</b>	285 (11,22)	(3/8" UNC)						
<b>MF-MQ-035</b>	407 (16,02)							
MF-MQ-026	220 (8,66)	M10	30 (hex 1.18)	-	3/4"	47,63 (1,88)	22,23 (0,88)	M10
<b>MF-MQ-037</b>	333 (13,11)	(3/8" UNC)			1"	52,73 (2,06)	26,19 (1,03)	(3/8" UNC)
<b>MF-MQ-048</b>	408 (16,06)							
MF-MQ-053	263 (10,35)	M12	30 (hex 1.18)	46 (hex 1.81)	1-1/4"	58,72 (2,31)	30,18 (1,19)	M10 (7/16" UNC)
<b>MF-MQ-106</b>	386 (15,20)	(1/2" UNC)			1-1/2"	69,85 (2,75)	35,71 (1,41)	M12 (1/2" UNC)
<b>MF-MQ-119</b>	528 (20,79)							
<b>MF-MQ-127</b>	673 (26,50)							

### Weights and Internal Volumes (Delivery standards and printed in **bold**.)

Filter Size	Weight (without Filter Element)	Internal Volumes
<b>MF-MQ-024</b>	3,6 kg (7,94 lbs)	0,48 l (0,13 US gallon)
<b>MF-MQ-027</b>	3,9 kg (8,59 lbs)	0,58 l (0,15 US gallon)
<b>MF-MQ-030</b>	4,5 kg (9,92 lbs)	0,69 l (0,18 US gallon)
<b>MF-MQ-035</b>	6,1 kg (13,45 lbs)	0,86 l (0,23 US gallon)
MF-MQ-026	6,0 kg (13,23 lbs)	0,40 l (0,11 US gallon)
<b>MF-MQ-037</b>	8,2 kg (18,09 lbs)	1,02 l (0,27 US gallon)
<b>MF-MQ-048</b>	12,0 kg (26,46 lbs)	1,24 l (0,33 US gallon)
MF-MQ-053	12,7 kg (28,00 lbs)	1,61 l (0,43 US gallon)
<b>MF-MQ-106</b>	14,7 kg (32,41 lbs)	2,61 l (0,69 US gallon)
<b>MF-MQ-119</b>	20,7 kg (45,64 lbs)	3,27 l (0,86 US gallon)
<b>MF-MQ-127</b>	23,7 kg (50,05 lbs)	4,20 l (1,11 US gallon)

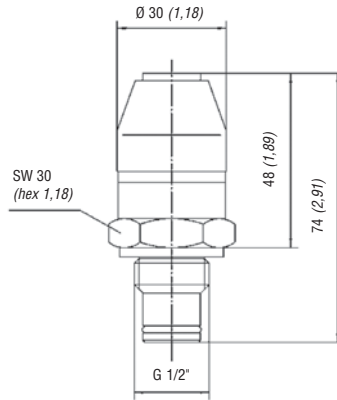
**Visual Clogging Indicator HIM-V**

Part number HIM-V is a visual clogging indicator actuated by the differential pressure across the filter element.

The actuating pressure of 5 bar (72 PSI) ±10% allows the dirty element to be changed before the bypass setting of 6 bar (87 PSI) ±10% is reached.

Ordering code (delivery standard): **HIM-V B-5,0B**

**Dimensions HIM-V**



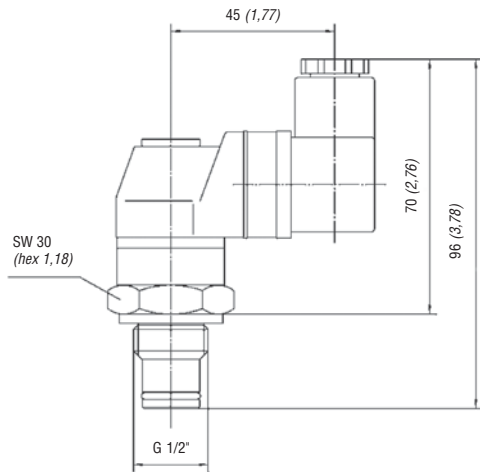
**Electrical Clogging Indicator HIM-E**

Part number HIM-E is an electrical clogging indicator actuated by the differential pressure across the filter element and using an electrical signal to indicate when the element needs to be replaced.

The actuating pressure of 5 bar (72 PSI) ±10% allows the dirty element to be changed before the bypass setting of 6 bar (87 PSI) ±10% is reached.

Ordering code (delivery standard): **HIM-E B-5,0B**

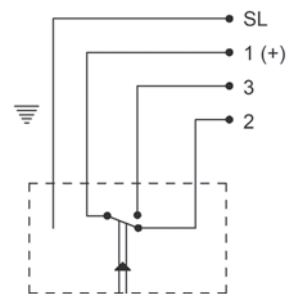
**Dimensions HIM-E**



**Rated Capacity HIM-E**

Voltage V	Resistive Load Amps A	Inductive Load Amps A
125 VAC	5	5
250 VAC	5	5
15 VAC	10	10
30 VDC	5	5
50 VDC	1	1
125 VDC	0,5	0,06

**Wiring Diagram HIM-E**



## Ordering Code Filter Housing (Delivery standards and printed in **bold**.)

**MF-M Q - 024 ... B / B1 / B / V**

Series	
<b>MF-M</b>	medium pressure, filters, series M

Nominal Pressure Level	
<b>Q</b>	280 bar (4.000 PSI)

Filter Size	
Nom. Size	Nominal Flow*
<b>024</b>	87 l/min (23 US GPM)
<b>027</b>	100 l/min (26 US GPM)
<b>030</b>	118 l/min (31 US GPM)
<b>035</b>	130 l/min (34 US GPM)
026	100 l/min (26 US GPM)
<b>037</b>	140 l/min (37 US GPM)
<b>048</b>	180 l/min (48 US GPM)
053	200 l/min (53 US GPM)
<b>106</b>	400 l/min (106 US GPM)
<b>119</b>	450 l/min (119 US GPM)
<b>127</b>	480 l/min (127 US GPM)
* The exact flow depends on filter element selected. The flow stated above applies to a STAUFF filter element E10B.	

for Complete Filters	
identification filter material + micron rating code (see ordering code filter elements below)	

Position (Clogging Indicator)	
	standard position
<b>1</b>	90° position (MF-MQ-024/.../035)

Clogging Indicator	
<b>O</b>	without
<b>V</b>	visual, 5 bar (72 PSI) ±10%
<b>E</b>	electrical, 5 bar (72 PSI) ±10%

Bypass Valve	
<b>O</b>	without bypass valve
<b>B</b>	with bypass valve

Port Connection	
<b>B1</b>	BSP (MF-MQ-024/027/030/035: G 3/4") (MF-MQ-026/037/048: G 1") (MF-MQ-053/106/119/127: G 1-1/2")
Alternative port connections (metric, NPT, SAE O-Ring thread, SAE code 61 & 62 flange) on request.	

Sealing Material	
<b>B</b>	NBR (Perbunan)
<b>V</b>	FKM (Viton)

## Ordering Code Filter Elements (Delivery standards and printed in **bold**.)

**ME-M - 024 E 03 B**

Series	
<b>ME-M</b>	elements (medium pressure filters)

Filter Size	
according to filter housing	

Filter Material			
Code	Material	max. $\Delta p^*$ <sub>collapse</sub>	micron ratings avlb.
<b>E</b>	glass fibre	20 bar (290 PSI)	03, 06, 10, 16, 25
F	glass fibre	210 bar (3.045 PSI)	03, 06, 10, 16, 25
B	stainless mesh	20 bar (290 PSI)	25

Sealing Material	
<b>B</b>	NBR (Perbunan)
<b>V</b>	FKM (Viton)

Micron Ratings	
<b>03</b>	micron rating 3µm
<b>06</b>	micron rating 6µm
<b>10</b>	micron rating 10µm
<b>16</b>	micron rating 16µm
<b>25</b>	micron rating 25µm

\* Collapse / burst resistance as per ISO 2941

**Description**

STAUFF replacement filter elements ME-M for MF-MQ series filters are manufactured in the common filter materials such as stainless mesh and inorganic glass fiber. All STAUFF replacement elements comply with quality specifications in accordance with international standards



**Ordering Code Filter Elements** (Delivery standards and printed in **bold**.)

**ME-M - 024 E 03 B**

Series	
<b>ME-M</b>	elements (medium pressure filters)

Filter Size
according to filter housing

Filter Material			
Code	Material	max. $\Delta p^*_{collapse}$	micron ratings avlb.
<b>E</b>	glass fibre	20 bar (290 PSI)	03, 06, 10, 16, 25
F	glass fibre	210 bar (3.045 PSI)	03, 06, 10, 16, 25
B	stainless mesh	20 bar (290 PSI)	25 ( $\mu m$ )

Sealing Material	
<b>B</b>	NBR (Perbunan)
V	FKM (Viton)

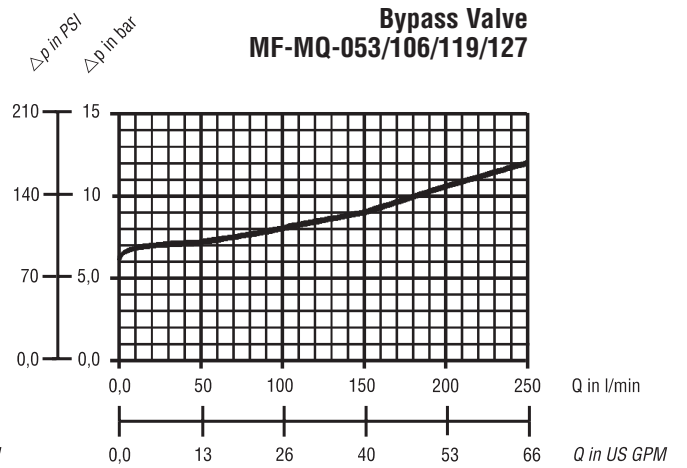
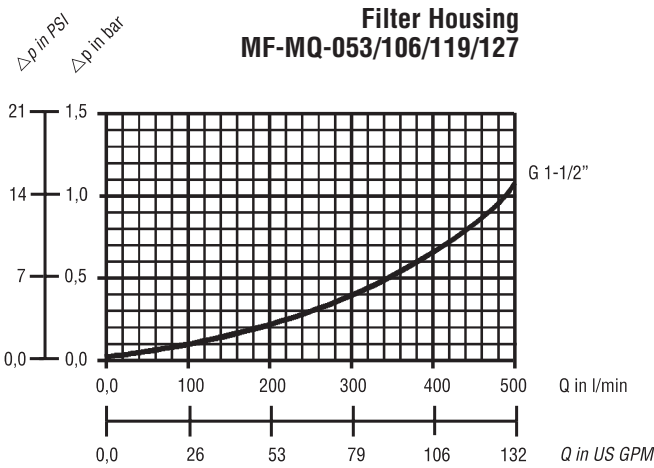
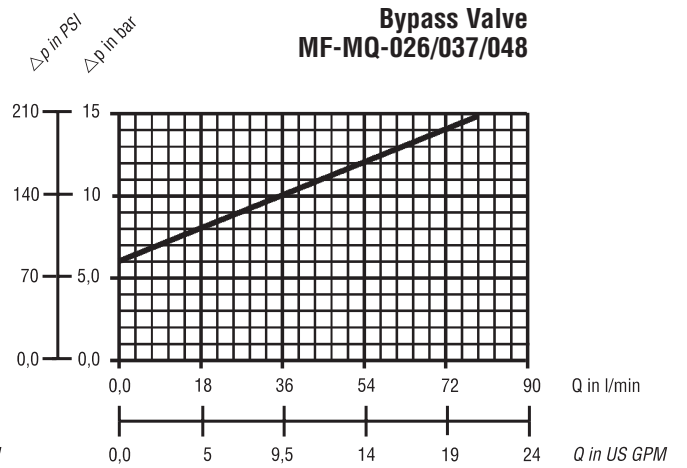
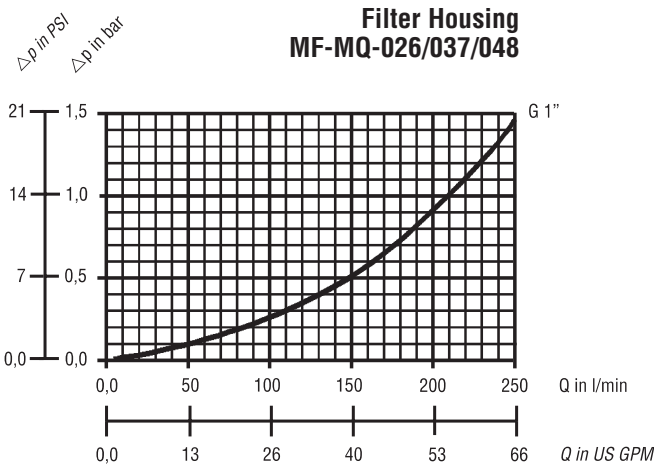
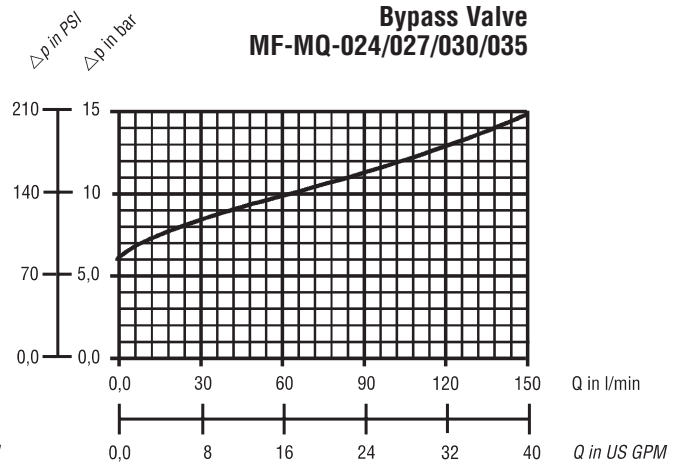
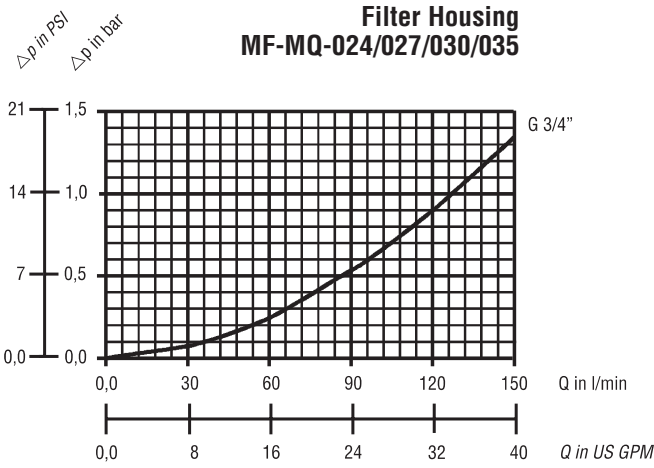
Micron Ratings	
<b>03</b>	micron rating 3 $\mu m$
<b>06</b>	micron rating 6 $\mu m$
<b>10</b>	micron rating 10 $\mu m$
<b>16</b>	micron rating 16 $\mu m$
<b>25</b>	micron rating 25 $\mu m$

\* Collapse / burst resistance as per ISO 2941



## Flow Characteristics Filter Housings / Bypass Valves

The following characteristics are valid for mineral oils with a density of 0,86 kg/dm<sup>3</sup> and the kinematic viscosity of 30 mm<sup>2</sup>/s (30 cSt). The characteristics have been determined in accordance to ISO 3968.



## Flow Characteristics Complete Filters

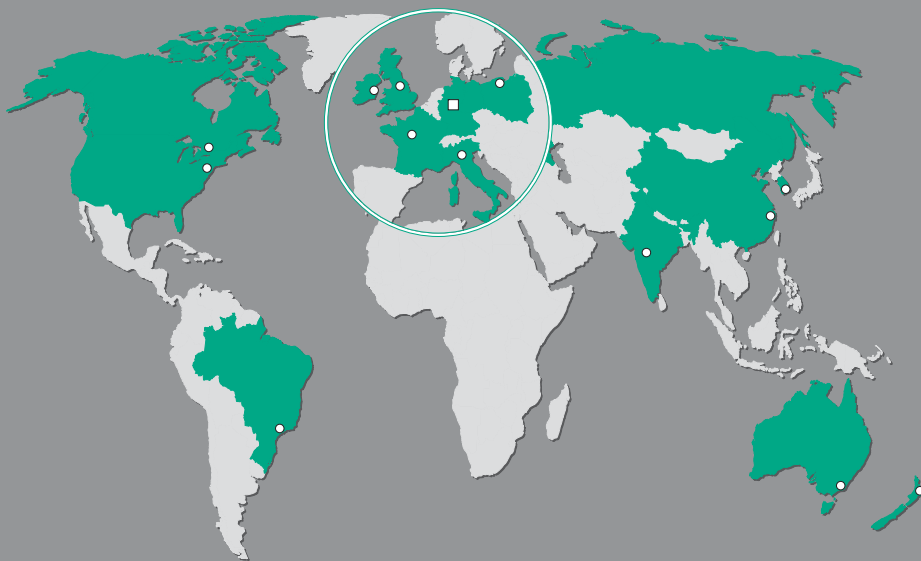
The following characteristics are valid for mineral oils with a density of 0,86 kg/dm<sup>3</sup> and the kinematic viscosity of 30 mm<sup>2</sup>/s (30 cSt). The characteristics have been determined in accordance to ISO 3968. The pressure drop of a complete filter (consisting of filter housing and filter element) is  $\Delta p = 1,5 \text{ bar}$  (210 PSI).

Type of Complete Filter	Flow Rate Q l/min	Flow Rate Q US GPM
MF-M Q-024 E03 B/B1/O/O	53	14
MF-M Q-024 E06 B/B1/O/O	58	15
MF-M Q-024 E10 B/B1/O/O	87	23
MF-M Q-024 E16 B/B1/O/O	100	26
MF-M Q-024 E25 B/B1/O/O	125	33
MF-M Q-024 F03 B/B1/O/O	45	12
MF-M Q-024 F06 B/B1/O/O	50	13
MF-M Q-024 F10 B/B1/O/O	78	21
MF-M Q-024 F16 B/B1/O/O	90	24
MF-M Q-024 F25 B/B1/O/O	119	31
MF-M Q-024 B25 B/B1/O/O	140	37
MF-M Q-027 E03 B/B1/O/O	68	18
MF-M Q-027 E06 B/B1/O/O	71	19
MF-M Q-027 E10 B/B1/O/O	100	26
MF-M Q-027 E16 B/B1/O/O	110	29
MF-M Q-027 E25 B/B1/O/O	135	36
MF-M Q-027 F03 B/B1/O/O	59	16
MF-M Q-027 F06 B/B1/O/O	62	16
MF-M Q-027 F10 B/B1/O/O	92	24
MF-M Q-027 F16 B/B1/O/O	100	26
MF-M Q-027 F25 B/B1/O/O	130	34
MF-M Q-027 B25 B/B1/O/O	140	37
MF-M Q-030 E03 B/B1/O/O	85	22
MF-M Q-030 E06 B/B1/O/O	92	24
MF-M Q-030 E10 B/B1/O/O	118	31
MF-M Q-030 E16 B/B1/O/O	120	32
MF-M Q-030 E25 B/B1/O/O	135	36
MF-M Q-030 F03 B/B1/O/O	75	20
MF-M Q-030 F06 B/B1/O/O	82	22
MF-M Q-030 F10 B/B1/O/O	106	28
MF-M Q-030 F16 B/B1/O/O	112	30
MF-M Q-030 F25 B/B1/O/O	135	36
MF-M Q-030 B25 B/B1/O/O	145	38
MF-M Q-035 E03 B/B1/O/O	110	29
MF-M Q-035 E06 B/B1/O/O	112	30
MF-M Q-035 E10 B/B1/O/O	130	34
MF-M Q-035 E16 B/B1/O/O	135	36
MF-M Q-035 E25 B/B1/O/O	140	37
MF-M Q-035 F03 B/B1/O/O	94	25
MF-M Q-035 F06 B/B1/O/O	98	26
MF-M Q-035 F10 B/B1/O/O	112	30
MF-M Q-035 F16 B/B1/O/O	120	32
MF-M Q-035 F25 B/B1/O/O	140	37
MF-M Q-035 B25 B/B1/O/O	152	40

Type of Complete Filter	Flow Rate Q l/min	Flow Rate Q US GPM
MF-M Q-026 E03 B/B1/O/O	69	18
MF-M Q-026 E06 B/B1/O/O	74	20
MF-M Q-026 E10 B/B1/O/O	120	32
MF-M Q-026 E16 B/B1/O/O	129	34
MF-M Q-026 E25 B/B1/O/O	171	45
MF-M Q-026 F03 B/B1/O/O	50	13
MF-M Q-026 F06 B/B1/O/O	57	15
MF-M Q-026 F10 B/B1/O/O	98	26
MF-M Q-026 F16 B/B1/O/O	101	27
MF-M Q-026 F25 B/B1/O/O	106	28
MF-M Q-026 B25 B/B1/O/O	200	53
MF-M Q-037 E03 B/B1/O/O	110	29
MF-M Q-037 E06 B/B1/O/O	117	31
MF-M Q-037 E10 B/B1/O/O	148	39
MF-M Q-037 E16 B/B1/O/O	151	40
MF-M Q-037 E25 B/B1/O/O	208	55
MF-M Q-037 F03 B/B1/O/O	91	24
MF-M Q-037 F06 B/B1/O/O	110	29
MF-M Q-037 F10 B/B1/O/O	136	36
MF-M Q-037 F16 B/B1/O/O	139	37
MF-M Q-037 F25 B/B1/O/O	175	46
MF-M Q-037 B25 B/B1/O/O	230	61
MF-M Q-048 E03 B/B1/O/O	150	40
MF-M Q-048 E06 B/B1/O/O	153	40
MF-M Q-048 E10 B/B1/O/O	192	51
MF-M Q-048 E16 B/B1/O/O	195	51
MF-M Q-048 E25 B/B1/O/O	213	56
MF-M Q-048 F03 B/B1/O/O	126	33
MF-M Q-048 F06 B/B1/O/O	140	37
MF-M Q-048 F10 B/B1/O/O	170	45
MF-M Q-048 F16 B/B1/O/O	179	47
MF-M Q-048 F25 B/B1/O/O	196	52
MF-M Q-048 B25 B/B1/O/O	232	61

Type of Complete Filter	Flow Rate Q l/min	Flow Rate Q US GPM
MF-M Q-053 E03 B/B1/O/O	126	33
MF-M Q-053 E06 B/B1/O/O	137	36
MF-M Q-053 E10 B/B1/O/O	230	61
MF-M Q-053 E16 B/B1/O/O	274	72
MF-M Q-053 E25 B/B1/O/O	330	87
MF-M Q-053 F03 B/B1/O/O	107	28
MF-M Q-053 F06 B/B1/O/O	112	30
MF-M Q-053 F10 B/B1/O/O	185	49
MF-M Q-053 F16 B/B1/O/O	193	51
MF-M Q-053 F25 B/B1/O/O	292	77
MF-M Q-053 B25 B/B1/O/O	425	112
MF-M Q-106 E03 B/B1/O/O	248	65
MF-M Q-106 E06 B/B1/O/O	270	71
MF-M Q-106 E10 B/B1/O/O	376	99
MF-M Q-106 E16 B/B1/O/O	395	104
MF-M Q-106 E25 B/B1/O/O	440	116
MF-M Q-106 F03 B/B1/O/O	192	51
MF-M Q-106 F06 B/B1/O/O	220	58
MF-M Q-106 F10 B/B1/O/O	300	79
MF-M Q-106 F16 B/B1/O/O	312	82
MF-M Q-106 F25 B/B1/O/O	378	100
MF-M Q-106 B25 B/B1/O/O	445	117
MF-M Q-119 E03 B/B1/O/O	319	84
MF-M Q-119 E06 B/B1/O/O	353	93
MF-M Q-119 E10 B/B1/O/O	427	113
MF-M Q-119 E16 B/B1/O/O	440	116
MF-M Q-119 E25 B/B1/O/O	150	40
MF-M Q-119 F03 B/B1/O/O	255	67
MF-M Q-119 F06 B/B1/O/O	300	79
MF-M Q-119 F10 B/B1/O/O	367	97
MF-M Q-119 F16 B/B1/O/O	375	99
MF-M Q-119 F25 B/B1/O/O	417	110
MF-M Q-119 B25 B/B1/O/O	465	123
MF-M Q-127 E03 B/B1/O/O	354	93
MF-M Q-127 E06 B/B1/O/O	375	99
MF-M Q-127 E10 B/B1/O/O	430	113
MF-M Q-127 E16 B/B1/O/O	447	118
MF-M Q-127 E25 B/B1/O/O	467	123
MF-M Q-127 F03 B/B1/O/O	298	79
MF-M Q-127 F06 B/B1/O/O	320	84
MF-M Q-127 F10 B/B1/O/O	375	99
MF-M Q-127 F16 B/B1/O/O	382	101
MF-M Q-127 F25 B/B1/O/O	422	111
MF-M Q-127 B25 B/B1/O/O	475	125





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