

## Low Pressure Filter Spin-on cartridges

Operating pressure 10/16/25 bar, Nominal size up to 160

### 1. Features

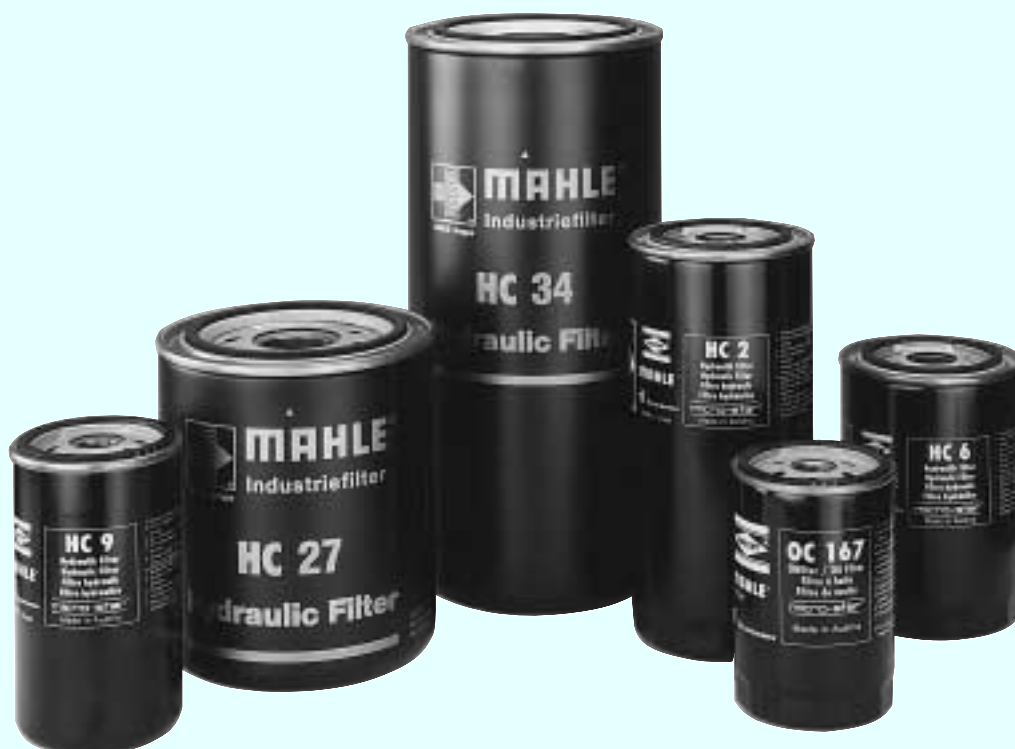
#### Efficient filters for modern hydraulic systems

- Modular design
- Minimal pressure loss
- Compact design
- Threaded ports

#### Quality filters, easy to service

- Highly efficient Mic- or Sm-x filter elements
- B-rated elements per ISO 4572
- Large dirt holding capacity and high differential pressure stability providing optimal element service life

#### World-wide sales



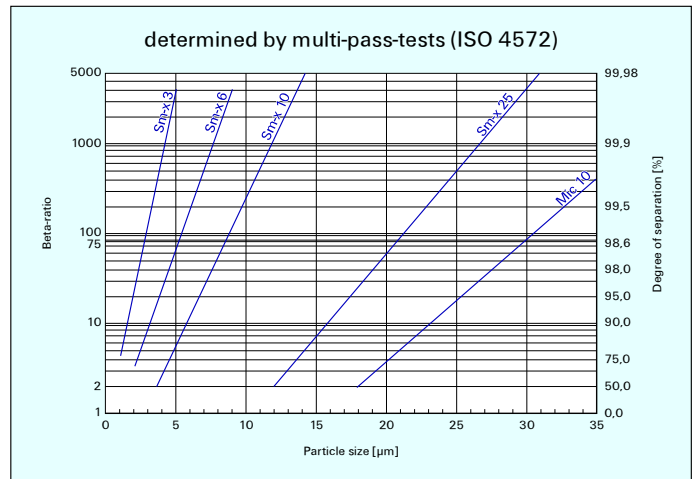
## 2. Specifications

Operating pressure:	10 bar and 25 bar
Burst pressure:	16 bar/35 bar
Temperature range:	-40 °C to +120 °C
Housing material:	steel
Seal material:	NBR
Opening pressure check valve:	≤ 0,12 bar
Installation:	preferably vertical
Collapse pressure of element:	$\Delta p \geq 5$ bar
Long time rupture strength:	min. $10^5$ load alternations at operating pressure

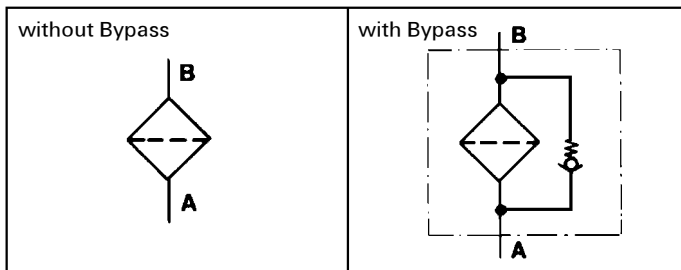
Spin-on cartridges are resistant against mineral oil.

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## 3. Separation characteristics



## 4. Symbols



## 7. Dimensions

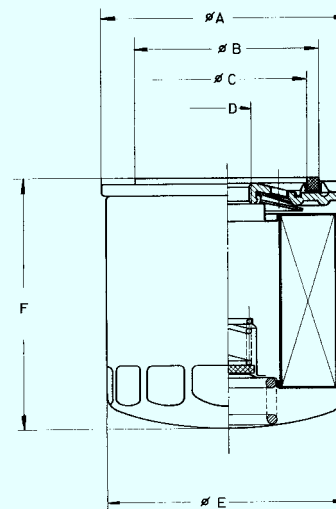
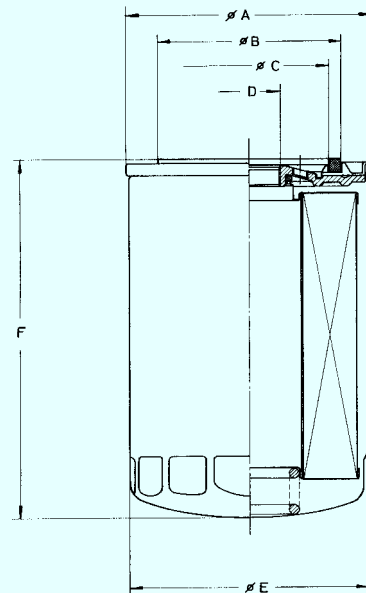
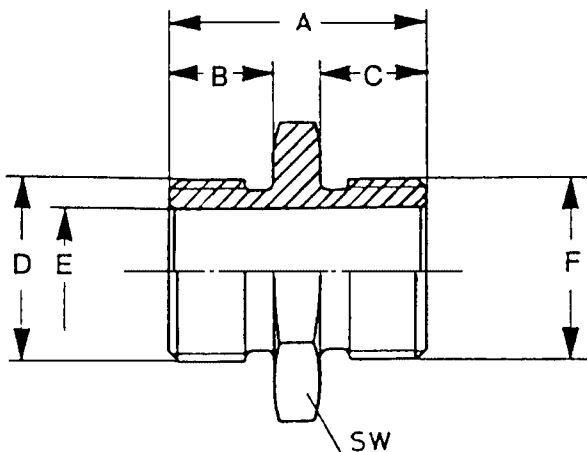


Fig. shows spin-on cartridge with relief valve and check valve

## 8. Accessories

Order-no.	A	B	C	D	E	SW	F
780.238.2	32	15	12	¾" 16 UNF 2A	13	27	M 18 x 1,5
780.239.0	35	15	15	1" 12 UNF 2A	17	28	M 24 x 1,5
789.386.0	27	15	10	1" 12 UNF 2A	16	27	M 22 x 1,5
780.240.8	35	15	15	1½" 16 UN 2A	25	40	M 38 x 1,5



The sealing surface for block mounting should be in accordance with ISO 6415.

## 5. Test regulations

MAHLE filter elements are manufactured respectively, tested in accordance with the following international standards:

No.	Designation
ISO 2941	Hydraulic-filter elements: Verification of burst resistance
ISO 2942	Hydraulic-filter elements: Determination of fabrication integrity
ISO 2943	Hydraulic-filter elements: Verification of material compatibility with hydraulic fluids
ISO 3723	Hydraulic-filter elements: Method for testing end-cap load
ISO 3724	Hydraulic-filter elements: Verification of flow fatigue characteristics
ISO 3968.2	Hydraulic-filters: Evaluation of pressure drop versus flow
ISO 4572	Hydraulic-filter elements: Testing of filter performance (multi-pass-test)

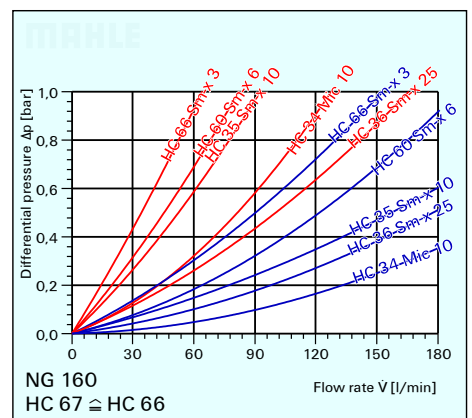
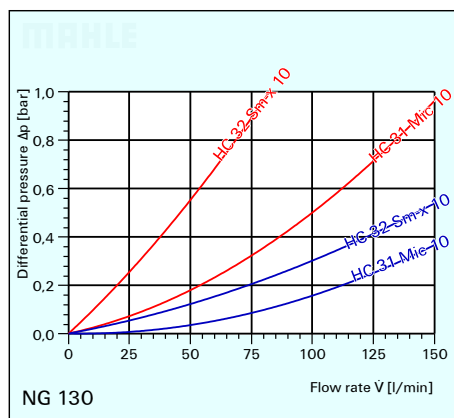
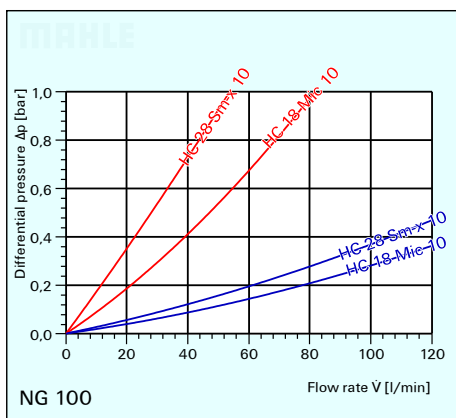
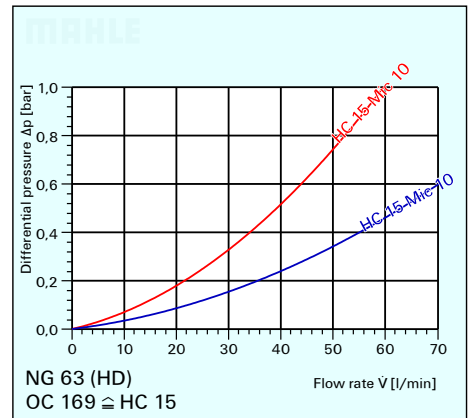
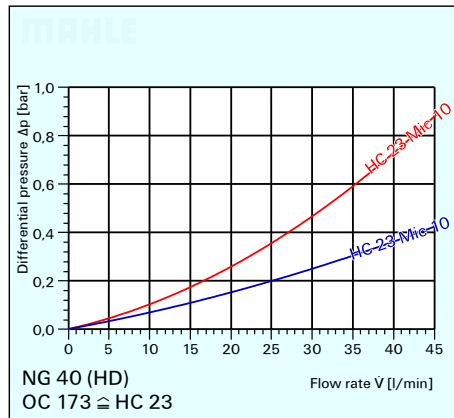
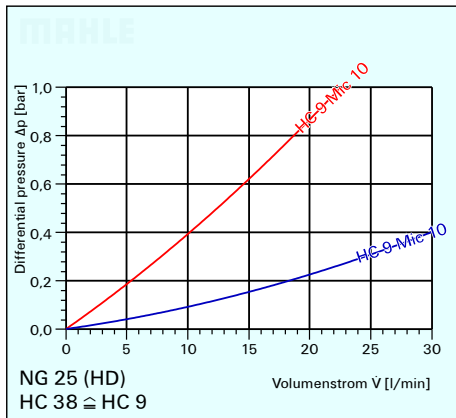
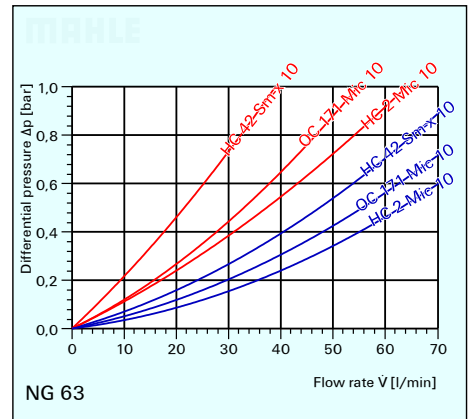
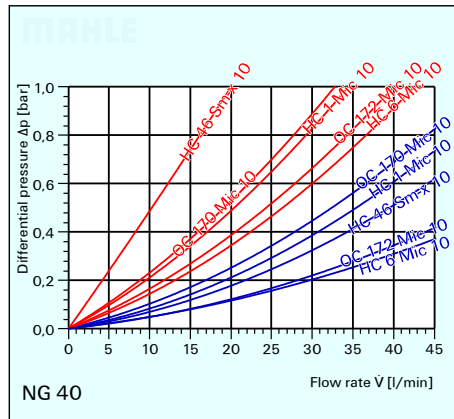
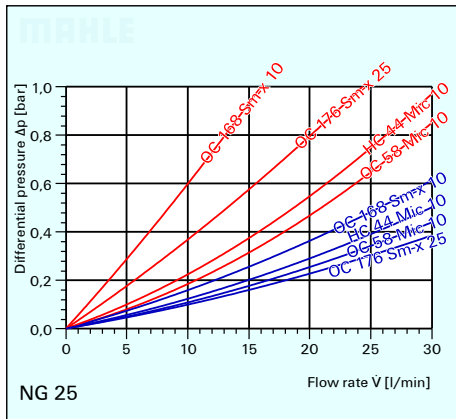
## 6. Order-Numbers

## 7. Dimensions

Operating pressure 10 bar													
Order number	Type number	Filtration rate	Nominal size NG	Filter surface (cm <sup>2</sup> )	Relief valve [bar]	Check valve	Ø A	Ø B	Ø C	D	Ø E	F	Weight (kg)
778.598.3	OC 58	Mic 10	25	1700			80	72	62	¾" 16 UNF 2B	76	120	0,40
750.018.4	OC 168	Sm-x 10	25	1200			80	72	62	¾" 16 UNF 2B	76	120	0,55
778.591.8	OC 176	Sm-x 25	25	1200			80	72	62	¾" 16 UNF 2B	76	120	0,55
750.034.1	HC 44	Mic 10	25	1700	2,5	x	80	72	62	¾" 16 UNF 2B	76	120	0,40
764.089.9	HC 1	Mic 10	40	3200			95	72	62	¾" 16 UNF 2B	93	141	0,55
784.478.0	OC 170	Mic 10	40	3200	2,5	x	95	72	62	¾" 16 UNF 2B	93	141	0,55
750.127.3	HC 6	Mic 10	40	3200			95	72	62	1" 12 UNF 2B	93	141	0,55
750.123.2	HC 46	Sm-x 10	40	2100			95	72	62	1" 12 UNF 2B	93	141	0,75
134.814.3	OC 172	Mic 10	40	3200	2,5	x	95	72	62	1" 12 UNF 2B	93	141	0,55
201.324.1	HC 2	Mic 10	63	5100			95	72	62	1" 12 UNF 2B	93	210	0,75
750.137.2	HC 42	Sm-x 10	63	3300			95	72	62	1" 12 UNF 2B	93	210	1,00
201.302.7	OC 171	Mic 10	63	5100	2,5	x	95	72	62	1" 12 UNF 2B	93	210	0,75
764.333.1	HC 18	Mic 10	100	7000			143	111	100	1½" 16 UN 2B	136	172	1,50
764.339.8	HC 28	Sm-x 10	100	3400			143	111	100	1½" 16 UN 2B	136	172	1,80
772.718.3	HC 4	Mic 10	100	7000			143	111	100	G 1¼	136	172	1,50
750.007.7	HC 31	Mic 10	130	9700			143	111	100	1½" 16 UN 2B	136	240	1,70
750.005.1	HC 32	Sm-x 10	130	5400			143	111	100	1½" 16 UN 2B	136	240	2,20
Operating pressure 16 bar													
750.419.4	HC 34	Mic 10	160	13500			143	111	100	1½" 16 UN 2B	136	310	1,95
871.475.0	HC 66	Sm-x 3	160	7500			143	111	100	1½" 16 UN 2B	136	310	2,65
747.882.9	HC 60	Sm-x 6	160	7500			143	111	100	1½" 16 UN 2B	136	310	2,65
764.384.4	HC 35	Sm-x 10	160	7500			143	111	100	1½" 16 UN 2B	136	310	2,65
764.385.1	HC 36	Sm-x 25	160	7500			143	111	100	1½" 16 UN 2B	136	310	2,65
871.476.8	HC 67	Sm-x 3	160	7500			143	111	100	G 1¼	136	310	2,65
Operating pressure 25 bar													
737.302.0	HC 9	Mic 10	25	2000	3,5		80	72	62	¾" 16 UNF 2B	76	140	0,55
750.396.4	HC 38	Mic 10	25	2000			80	72	62	¾" 16 UNF 2B	76	140	0,55
780.325.7	OC 173	Mic 10	40	4100	2,5		95	72	62	1" 12 UNF 2B	93	180	0,80
750.218.0	HC 23	Mic 10	40	4100			95	72	62	1" 12 UNF 2B	93	180	0,80
750.251.1	OC 169	Mic 10	63	5100	2,5		95	72	62	1" 12 UNF 2B	93	215	0,90
750.262.8	HC 15	Mic 10	63	5100			95	72	62	1" 12 UNF 2B	93	215	0,90
878.792.1	HC 68/1	Sm-x 3	63	3350			95	72	62	1" 12 UNF 2B	93	215	1,20

# 9. Flow rate/pressure drop curve complete filter

█ 190 mm<sup>2</sup>/s (25° E)  
█ 33 mm<sup>2</sup>/s (4,5° E)



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MAHLE Filtersysteme GmbH

Bereich Industriefilter · Schleifbachweg 45 · D-74613 Öhringen · Postfach 13 09 · D-74603 Öhringen  
 Telefon (0 79 41) 67-0 · Telefax (0 79 41) 67-429 · Internet: <http://www.mahle.com> · E-mail: [ub2.industrie@mahle.com](mailto:ub2.industrie@mahle.com)