Filtration Group®
Industrial

MAHLE Industrialfiltration is now Filtration Group. For more information, visit industrial.filtrationgroup.com

Low Pressure Filter
Spin-on Cartridges HC/OC

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

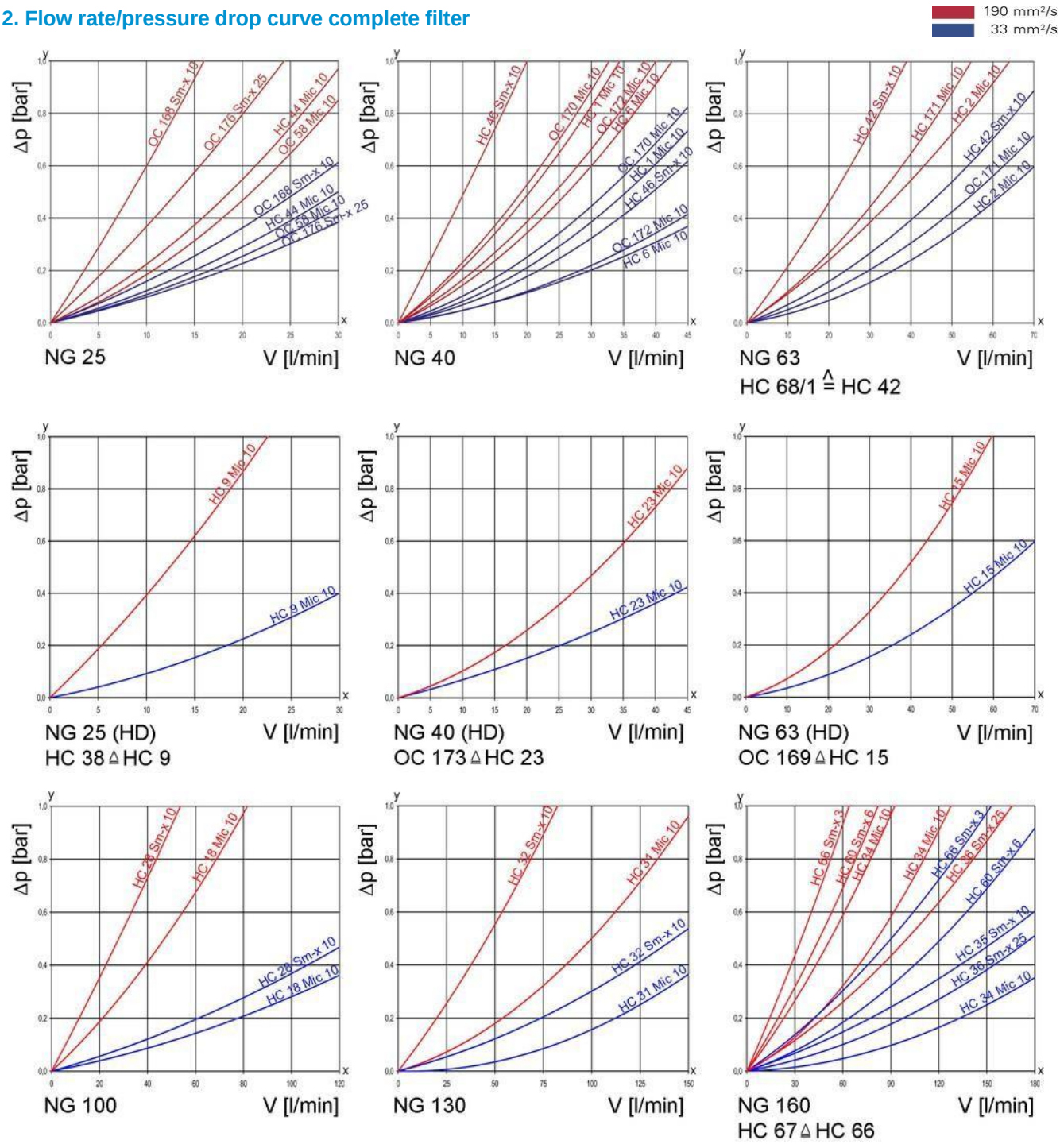
1. Features

High performance filters for modern hydraulic systems

- Modular design
- Compact design
- Minimal pressure drop through optimal pressure
- Quality filters, easy to service
- Equipped with highly efficient Mic or Sm-x filter elements
- Beta rated elements according to ISO 16889 mulitpass test
- Elements with high differential pressure stability and dirt holding capacity
- Worldwide distribution

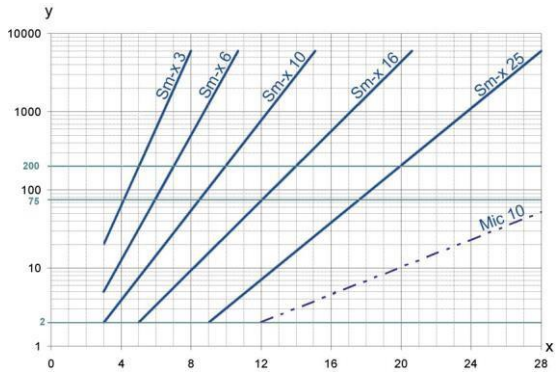


2. Flow rate/pressure drop curve complete filter



y = differential pressure Δp
[bar]
x = flow rate V [l/min]

3. Separation grade characteristics



y = Beta-value
x = particle size [µm]

determined by multipass tests (ISO 16889)
calibration according to ISO 11171 (NIST)

4. Filter performance data

measured according to ISO 16889 (multipass test)

Sm-x-elements with max. Δ p 5 bar

Sm-x	3	$\beta_{5(C)}$	$\geq$ 200
Sm-x	6	$\beta_{7(C)}$	$\geq$ 200
Sm-x	10	$\beta_{10(C)}$	$\geq$ 200
Sm-x	25	$\beta_{20(C)}$	$\geq$ 200

values guaranteed up to 5 bar differential pressure

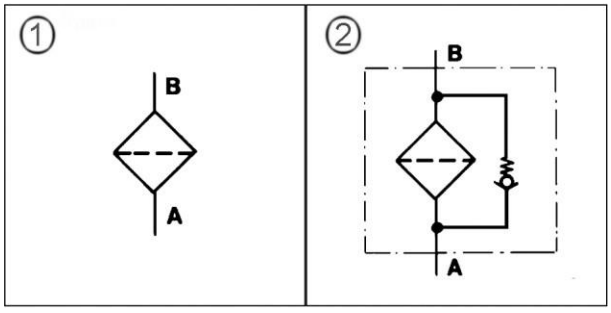
Subject to technical alteration without prior notice.

5. Quality assurance

Filtration Group filters and filter elements are produced according to the following international standards:

Norm	Designation
DIN ISO 2941	Hydraulic fluid power; filter elements; verification of collapse/burst resistance
DIN ISO 2942	Hydraulic fluid power; filter elements; verification of fabrication integrity
DIN ISO 2943	Hydraulic fluid power; filter elements; verification of material compatibility with fluids
DIN ISO 3723	Hydraulic fluid power; filter elements; method for end load test
DIN ISO 3724	Hydraulic fluid power; filter elements; verification of flow fatigue characteristics
ISO 3968	Hydraulic fluid power-filters-evaluation of pressure drop versus flow characteristics
ISO 10771.1	Fatigue pressure testing of metal containing envelopes in hydraulic fluid applications
ISO 16889	Hydraulic fluid power filters-multipass method for evaluation filtration performance of a filter element

6. Symbols



1. without bypass
2. with bypass

7. Order numbers

7.1 Housing design							
Nominal size NG [l/min]	**ordernumber**	**Type**	**Nominal pressure [bar]**	**Filter material**	**Filter surface [cm²]**	**Bypass valve [bar]**	**Check valve**
25	72456726	PX11-11-1-MIC10	10	MIC 10	1775		
	77500184	PX11-11-1-SMC10		SM-C 10	1309		
	72456679	PX11-11-1-V2,5-RD-MIC10	14	MIC 10	1775	2,5	x
40	72456713	PX22-11-2-MIC10	16	MIC 10	3000		
	72456721	PX22-11-1-V2,5-RD-MIC10	14	MIC 10	3000	2,5	x
	72463892	PX22-12-1-MIC10	10	MIC 10	3000		
	72456725	PX22-12-1-V2,5-RD-MIC10	14	MIC 10	3000	2,5	x
63	72456681	PX25-12-2-MIC10	16	MIC 10	5440		
	77501372	PX25-12-1-SMC10	10	SM-X 10	3260		
	72456723	PX25-12-2-V2,5-RD-MIC10	16	MIC 10	5440	2,5	x
100	70541525	PX33-13-2-MIC10		MIC 10	6593		
	70541523	PX33-13-2-SMC10		SM-X 10	3263		
	70541528	PX33-14-1-MIC10	10	MIC 10	6593		
130	70541534	PX36-13-2-MIC10	16	MIC 10	9639		
	70541532	PX36-13-2-SMX10		SM-X 10	5145		
160	70541540	PX37-13-2-MIC10		MIC 10	13495		
	70541536	PX37-13-2-SMX3		SM-X 3	7144		
	70541537	PX37-13-2-SMX6		SM-X 6	7144		
	70541538	PX37-13-2-SMC10		SM-C 10	7400		
	70541539	PX37-13-2-SMX25		SM-X 25	7144		
	70541543	PX37-14-2-SMC3		SM-C 3	7400		
25	77373020	HC 9	25	MIC 10	2050	3,5	
	72456709	PX12-11-3-MIC10		MIC 10	2050		
40	72456731	PX24-12-3-V2,5-MIC10		MIC 10	4100	2,5	
	72456704	PX24-12-3-MIC10		MIC 10	4100		
63	72456722	PX25-12-3-V2,5-MIC10		MIC 10	5440	2,5	
	72456706	PX25-12-3-MIC10		MIC 10	5440		

7.2 Successor					
Type	**Ordernumber**	**Type**	**Type**	**Ordernumber**	**Type**
OC 58 →	72456726	PX11-11-1-MIC10	HC 66 →	70541536	PX37-13-2-SMX3
HC 44 →	72456679	PX11-11-1-V2,5-RD-MIC10	HC 60 →	70541537	PX37-13-2-SMX6
HC 1 →	72456713	PX22-11-2-MIC10	HC 35 →	70541538	PX37-13-2-SMC10
OC 170 →	72456721	PX22-11-1-V2,5-RD-MIC10	HC 36 →	70541539	PX37-13-2-SMX25
HC 6 →	72463892	PX22-12-1-MIC10	HC 67 →	70541543	PX37-14-2-SMC3
HC 46 →	77501372	PX25-12-1-SMX10	HC 32 →	70541532	PX36-13-2-SMX10
OC 172 →	72456725	PX22-12-1-V2,5-RD-MIC10	HC 38 →	72456709	PX12-11-3-MIC10
HC 2 →	72456681	PX25-12-2-MIC10	OC 173 →	72456731	PX24-12-3-V2,5-MIC10
OC 171 →	72456723	PX25-12-2-V2,5-RD-MIC10	HC 23 →	72456704	PX24-12-3-MIC10
HC 18 →	70541525	PX33-13-2-MIC10	OC 169 →	72456722	PX25-12-3-V2,5-MIC10
HC 28 →	70541523	PX33-13-2-SMX10	HC 15 →	72456706	PX25-12-3-MIC10
HC 4 →	70541528	PX33-14-1-MIC10	HC 68/1 →	Kein Ersatz	
HC 31 →	70541534	PX36-13-2-MIC10	HC 34 →	70541540	PX37-13-2-MIC10

8. Technical specifications

Nominal pressure:	10/16/25 bar
Temperature range:	- 10 °C bis + 120 °C
Housing material:	steel
Sealing material:	perbunan
Opening pressure check valve:	≤ 0,12 bar
Installation:: Collapse	preferably vertical
pressure of element:	Δ p ≥ 5 bar
Long time rupture strength:	min. 105 load alterations

Spin-on cartridges are resistant against mineral oil.

We draw attention to the fact that all values indicated are average values which do not always occur in specific cases of application. Our products are continually being further developed. Values, dimensions and weights can change as a result of this. Our specialized department would be pleased to offer you advice.

We recommend to contact us concerning applications of our filters in areas governed by the EU directive 94/9 EG (ATEX 95). The stand- ard version can be used for liquids based on mineral oil (correspond- ing to the fluids in Group 2 of Directive 97/23 EG Article 9). If you consider to use other fluids please contact us for additional support.

Subject to technical alteration without prior notice.

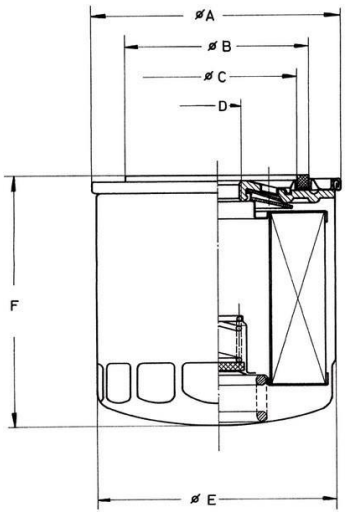


Figure shows spin-on cartridge with relief valve and check valve (optional).

9. Dimensions

All dimensions except "D" in mm.

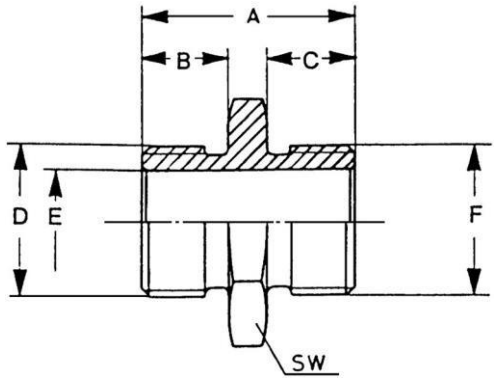
Ordernumber	Type	Ø A	D	F	Weight [kg]
72456726	PX11-11-1-MIC10	76	3/4"-16UNF-2B	115	0,37
77500184	PX11-11-1-SMC10	78,3	3/4-16UNF-2B	120	0,46
72456679	PX11-11-1-V2,5-RD-MIC10	76	3/4"-16UNF-2B	118	0,399
72456713	PX22-11-2-MIC10	93,2	3/4"-16UNF-2B	139,5	0,55
72456721	PX22-11-1-V2,5-RD-MIC10	93,2	3/4"-16UNF-2B	142,5	0,574
72463892	PX22-12-1-MIC10	93,2	1"-12UNF-2B	142,5	0,56
72456725	PX22-12-1-V2,5-RD-MIC10	93,2	1"-12UNF-2B	142,5	0,58
72456681	PX25-12-2-MIC10	93,2	1"-12UNF-2B	203,5	0,771
77501372	PX25-12-1-SMX10	93,5	1-12UNF-2B	210	0,949
72456723	PX25-12-2-V2,5-RD-MIC10	93,2	1"-12UNF-2B	207,5	0,808
70541525	PX33-13-2-MIC10	136,3	11/2-16UN-2B	170	1,85
70541523	PX33-13-2-SMX10	136,3	11/2-16UN-2B	170	2,05
70541528	PX33-14-1-MIC10	136,3	G1 1/4	170	1,48
70541534	PX36-13-2-MIC10	136,3	11/2-16UN-2B	238	2,244
70541532	PX36-13-2-SMX10	136,3	11/2-16UN-2B	238	2,282
70541540	PX37-13-2-MIC10	136,3	11/2-16UN-2B	308	2,44
70541536	PX37-13-2-SMX3	136,3	11/2-16UN-2B	308	2,92
70541537	PX37-13-2-SMX6	136,3	11/2-16UN-2B	308	3,32
70541538	PX37-13-2-SMC10	136	11/2-16UN-2B	308	2,94
70541539	PX37-13-2-SMX25	136,3	11/2-16UN-2B	308	2,92
70541543	PX37-14-2-SMC3	136,3	G1 1/4	308	2,78
77373020	HC 9	80	3/4"-16UNF-2B	140	0,55
72456709	PX12-11-3-MIC10	76	3/4"-16UNF-2B	138	0,42
72456731	PX24-12-3-V2,5-MIC10	93	1"-12UNF-2B	178,5	0,803
72456704	PX24-12-3-MIC10	93	1"-12UNF-2B	178,5	0,864
72456722	PX25-12-3-V2,5-MIC10	93	1"-12UNF-2B	212,5	0,942
72456706	PX25-12-3-MIC10	93	1"-12UNF-2B	212,5	0,99

10. Accessories

All dimensions except "D" in mm.

	Adapter						
Order-number	A	B	C	D	E	SW	F
77802382	32	15	12	¾" 16 UNF 2A	13	27	M18x1,5
77802390	35	15	15	1" 12 UNF 2A	17	27	M24x1,5
77893860	27	15	10	1" 12 UNF 2A	16	27	M22x1,5
77802408	35	15	15	1 ½" 16 UNF 2A	25	41	M38x1,5

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



Filtration Group GmbH, Schleifbachweg 45, 74613 Öhringen, Telefon 07941 6466-0
Telefax 07941 6466-429, industrial.sales@filtrationgroup.com, industrial.filtrationgroup.com
10/2024