

## Low Pressure Filter Spin-on Cartridges PX-...-Mic..

Nominal pressure up to 35 bar (500 psi), nominal size up to 160

### 1. Features

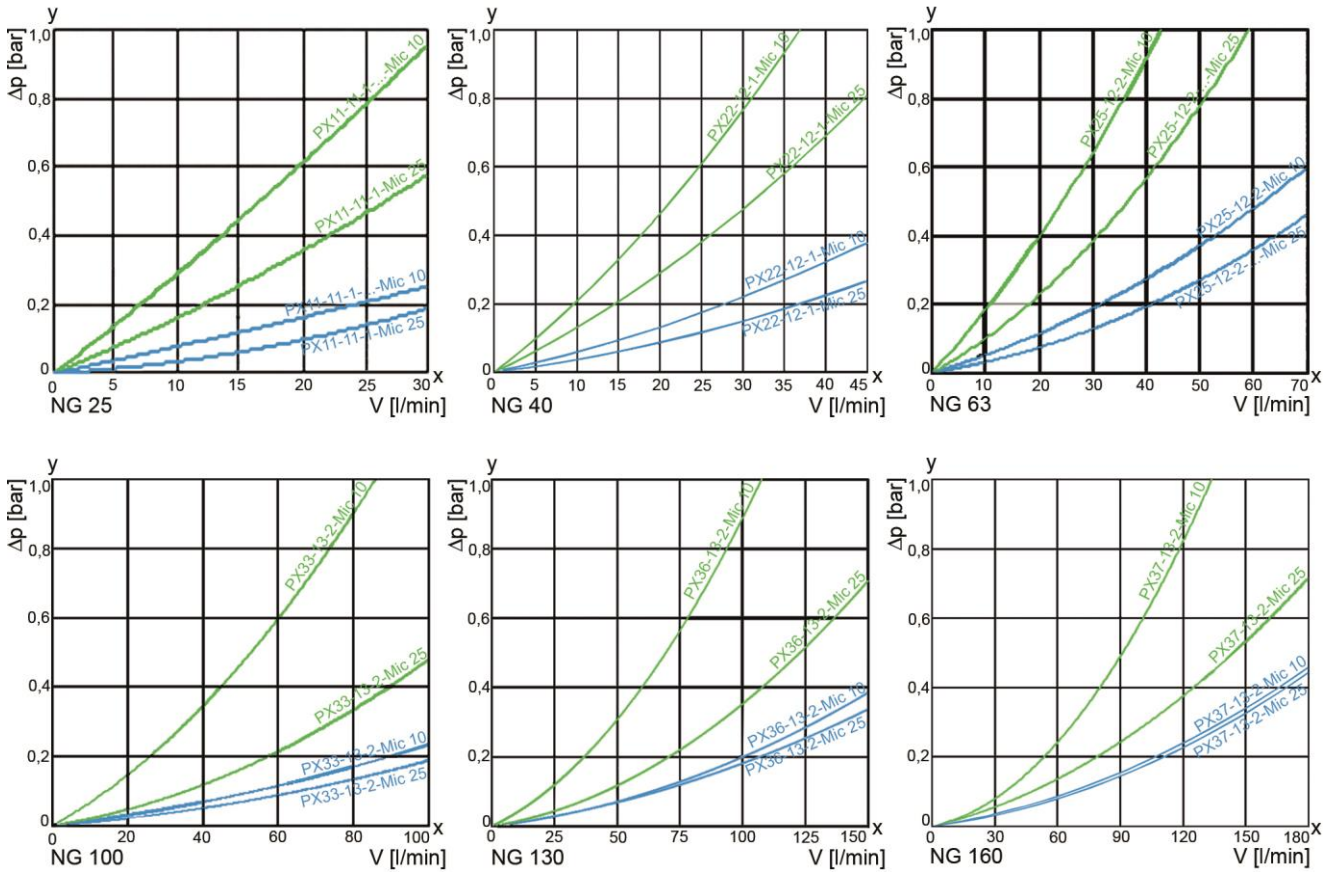
#### High performance filters for modern hydraulic systems

- Compact design
- Minimal pressure drop through optimal flow design
- Quality filters, easy to service
- Customer-specific printing and design on request
- Equipped with highly efficient Mic (cellulose) elements
- Elements with high differential pressure stability and dirt holding capacity
- Worldwide distribution



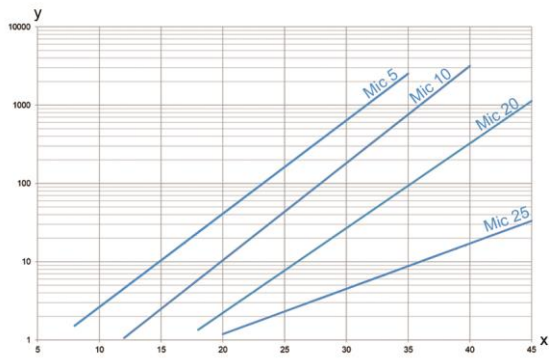
## 2. Flow rate/pressure drop curve complete filter

190 mm<sup>2</sup>/s  
33 mm<sup>2</sup>/s



y = differential pressure  $\Delta p$  [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. 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	Fluidtechnik-Hydraulik Filterelemente, Verfahren zur Prüfung der Endscheibenbelastung
DIN ISO 3724	Fluidtechnik-Filterelemente, Nachweis der Durchfluss-Ermüdungseigenschaften
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

## 5. Type number key and order numbers

### 5.1 Type number key

<b>Type</b>	Spin-on cartridge						
<b>PX</b>	Spin-on cartridge						
	<b>Housing diameter*</b>						
	1	≤ 82 mm					
	2	90 - 120 mm					
	3	≥ 135 mm					
	<b>Hight*</b>						
	0	< 120 mm					
	1	120 - 130 mm					
	2	135 - 150 mm					
	3	170 - 175 mm					
	4	178 - 190 mm					
	5	205 - 220 mm					
	6	240 mm					
	7	310 mm					
	<b>Type of cover disc</b>						
	1	Standard					
	<b>Connection thread</b>						
	0	Special*					
	1	¾" 16UNF-2B					
	2	1" 12UNF-2B					
	3	1½" 16UNF-2B					
	4	G1¼"					
	5	M39x1,5					
	6	M42x2					
	<b>Nominal pressure*</b>						
	1	10 - 14 bar					
	2	16 - 18 bar					
	3	20 - 25 bar					
	4	> 25 bar					
	<b>Option 1</b>						
	Vx.x	Bypass valve with x.x bar					
	<b>Option 2</b>						
	R	Back stop					
	RC	Back stop clean side					
	RD	Back stop dirt side					
	<b>Filter material</b>						
	<b>Mic**</b>						
	<b>Fineness</b>						
	1	1 µm					
	3	3 µm					
	5	5 µm					
	6	6 µm					
	10	10 µm					
	15	15 µm					
	16	16 µm					
	25	25 µm					
	30	30 µm					
<b>PX</b>	<b>3</b>	<b>7-</b>	<b>1</b>	<b>3-</b>	<b>2-</b>	<b>-Mic</b>	<b>10</b> Order example

## 5.2 Housings\*\*

Nominal size NG [l/min]*	Order number	Type	Nom. press. [bar]	Filter fineness*	A [Inch]	H ±1 [mm]	D1 ±0.5 [mm]	D2 ±0.5 [mm]	D3 ±0.5 [mm]	Bypass-valve [bar]	Back stop*
25	72456726	PX11-11-1-MIC10	10	Mic10	3/4"-16UNF-2B	118	76	62	72	-	-
	72456679	PX11-11-1-V2.5-RD-MIC10	14			118	76	62	72	2.5 ± 0.5	D
	72456709	PX12-11-3-MIC10	25			138	76	62	72	-	-
	72456678	PX12-11-4-V3.5-MIC10	35			137	76	63	72	2.5 ± 0.5	-
	72456729	PX11-11-1-MIC25	10	Mic25		118	76	62	72	-	-
	72457059	PX10-11-1-MIC25	14		78.5	76	62	72	-	-	
40	72463892	PX22-12-1-MIC10/N	10	Mic10	1"-12UNF-2B	139.5	93	62	72	-	-
	72456721	PX22-11-1-V2.5-RD-MIC10	14		3/4"-16UNF-2B	139.5	93	62	72	2.5 ± 0.5	D
	72456725	PX22-12-1-V2.5-RD-MIC10			1"-12UNF-2B	139.5	93	62	72	2.5 ± 0.5	D
	72456713	PX22-11-2-MIC10	16		3/4"-16UNF-2B	139.5	93	62	72	-	-
	72456704	PX24-12-3-MIC10	25	1"-12UNF-2B	178.5	93	62	72	-	-	
	72456731	PX24-12-3-V2.5-MIC10		1"-12UNF-2B	178.5	93	62	72	2.5 ± 0.5	-	
	72456714	PX22-12-1-MIC25	10	Mic25	1"-12UNF-2B	139.5	93	62	72	-	-
72456712	PX22-11-3-V2.5-MIC25	25	3/4"-16UNF-2B	142.5	93	62	72	2.5 ± 0.5	-		
63	72456723	PX25-12-2-V2.5-RD-MIC10	16	Mic10	1"-12UNF-2B	207.5	93	62	72	2.5 ± 0.5	D
	72456681	PX25-12-2-MIC10			1"-12UNF-2B	207.5	93	62	72	-	-
	72456706	PX25-12-3-MIC10	25	1"-12UNF-2B	212.5	93	62	72	-	-	
	72456722	PX25-12-3-V2.5-MIC10		1"-12UNF-2B	212.5	93	62	72	2.5 ± 0.5	-	
	72456711	PX25-12-1-MIC25	10	Mic25	1"-12UNF-2B	207.5	93	62	72	-	-
	72456730	PX25-12-2-V2.5-RD-MIC25	16	1"-12UNF-2B	207.5	93	62	72	2.5 ± 0.5	D	
100	70541528	PX33-14-1-MIC10	10	Mic10	G1 1/4"	172	136	100	111	-	-
	70541525	PX33-13-2-MIC10	16		1 1/2"-16UN-2B	172	136	100	111	-	-
	70541527	PX33-13-2-MIC25		Mic25	1 1/2"-16UN-2B	172	136	100	111	-	-
130	70541534	PX36-13-2-MIC10	16	Mic10	1 1/2"-16UN-2B	240	136	100	111	-	-
	70541535	PX36-13-2-MIC25		Mic25	1 1/2"-16UN-2B	240	136	100	111	-	-
160	70541540	PX37-13-2-MIC10	16	Mic10	1 1/2"-16UN-2B	310	136	100	111	-	-
	70541541	PX37-13-2-MIC25		Mic25	1 1/2"-16UN-2B	310	136	100	111	-	-

\* C = clean side/D = dirt side/C+D = both/max. 0.12 bar

\*\* Other versions on request

## 6. Technical specifications

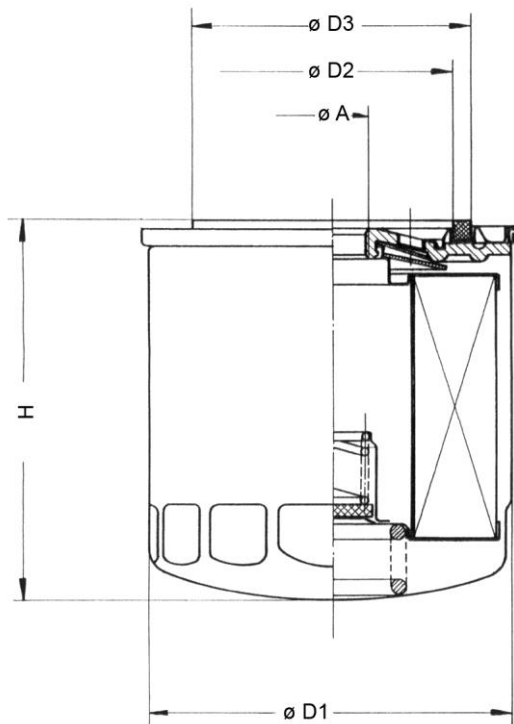
Nominal pressure:	10/14/16/25/32/35 bar
Temperature range:	-10 °C up to +120 °C
Housing material:	Steel
Sealing material:	NBR
Opening pressure back stop	≤ 0.12 bar
Installation:	preferably vertical
Collapse pressure of element:	Δp ≥ 5 bar
Burst pressure:	min. 2x nominal pressure

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 standard version can be used for liquids based on mineral oil (corresponding to the fluids in Group 2 of Directive 97/23 EG Article 9). If you consider to use other materials please contact us for additional support.

Subject to technical alteration without prior notice.



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07/2020

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