



Spin-on Filters

Maxiflow Series

MAX 360 l/min - 10 bar



Maxiflow Series

Features & Benefits

Features	Advantages	Benefits
Integrated indicator	Compact and robust durable construction	Easy identification of element status
High quality paint for canisters	Long term protection against corrosion	Improved protection of filter medium
Spin-on filters available for suction and return line filtration	Flexible product offering	Standardisation of components
High quality filter medium	Filter medium suitable for fatigue load due to high frequent flow fluctuation	Extended element life time

Typical Applications

- Telescopic handlers
- Refuse vehicles
- Road sweepers
- Compactors
- Industrial power units
- Grass cutters
- Press brakes

The Parker Filtration Maxiflow Full Flow Filters for Suction or Return.

Maxiflow type MXA8 and MXA9 feature two integral red/green indicators incorporated into the head. Fitted as standard, they ensure maximum indicator visibility and early warning of filter condition.

Maxiflow type MXA7 features one integral indicator.

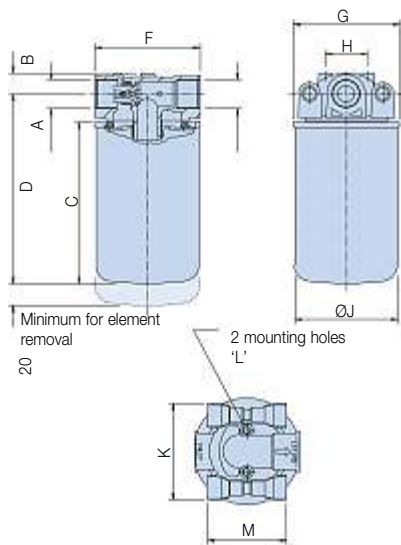


Specification

	Preferred Series MXA	PS Series
Maximum working pressure:	10 bar	10 bar
Filter head material:	Aluminium LM24	Aluminium alloy
Filter bowl material:	Steel	Steel
Seal material:	Nitrile	Buna (nitrile)
Operating temperature range:	-30°C to +90°C	-30°C to +110°C
Bypass:	Return line 1.05 bar Suction line 0.17 bar No bypass option	Return line 1.5 bar Suction line 0.10 bar No bypass option
Fluids:	Mineral oils	Mineral oils
Element media:	Microglass III media Cellulose media	Microglass III media Cellulose media

Installation Details

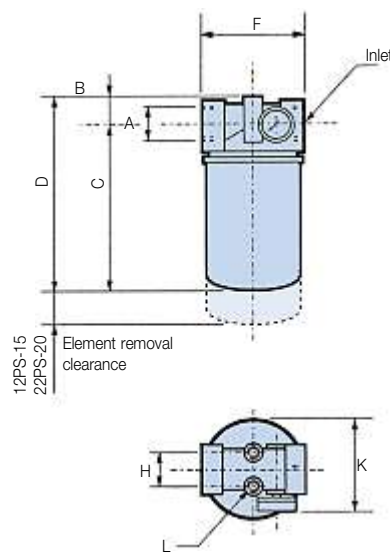
MXA.8/MXA.9***



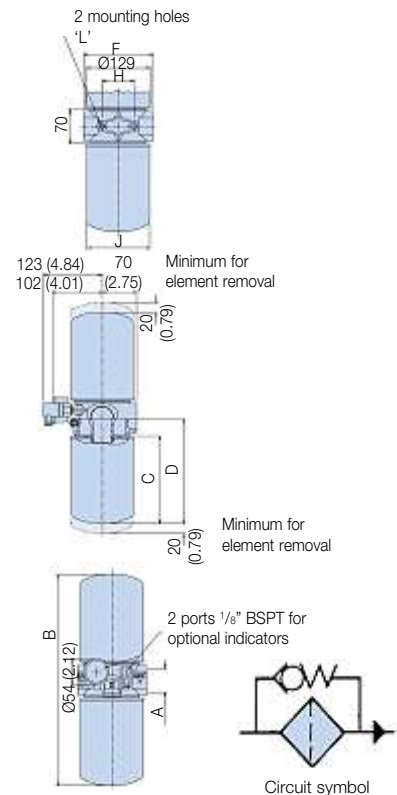
Filter selection

To select the correct filter use the appropriate pressure drop graphs. For details and an example of how to select the correct filter, see next page.

12PS/22PS



MXA.7***



Type	A	B	C	D	F	G	H	J	K	L	M
MXA.8	G ^{3/4}	19 (0.75)	147 (5.79)	173 (6.81)	95 (3.74)	97 (3.82)	38 (1.49)	94 (3.7)	88 (3.46)	M8 x 1.25 x 16 full depth	72 (2.83)
12PS		22 (0.86)	165 (6.49)	187 (7.36)	95 (3.74)	N/A	38 (1.49)	93 (3.66)	107 (4.21)		N/A
MXA.9	G ^{1 1/4}	30 (1.18)	179 (7.04)	213 (8.38)	133 (5.24)	129 (5.08)	50 (1.97)	127 (5.0)	130 (5.12)		72 (2.83)
22PS		28 (1.10)	208 (8.19)	236 (9.29)	133 (5.23)	N/A	50 (1.97)	130 (5.12)	N/A	N/A	
MXA.7	G ^{1 1/2}	430 (16.93)	179 (7.05)	214 (8.42)	140 (5.51)	N/A	65 (2.56)	127 (5.0)	N/A	M10 x 1.5	N/A

Maxiflow Series

Pressure Drop Curves

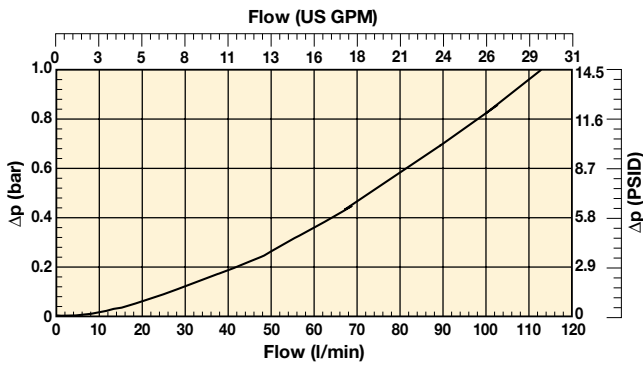
The recommended level of the initial pressure drop for low pressure filters is max 0.5 bar.

If the medium used has a viscosity different from 30cSt, pressure drop over the filter can be estimated as follows:

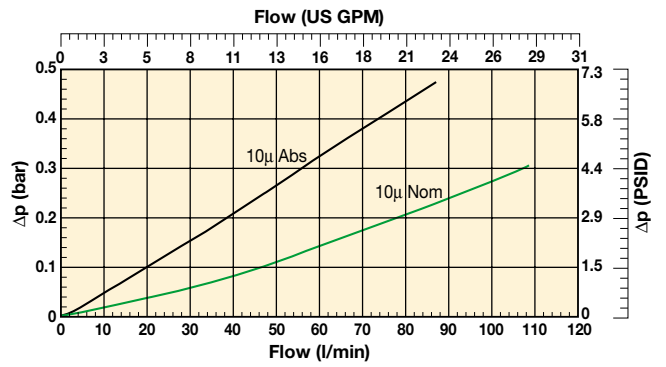
$$\Delta p = (\Delta p_{30} \times \text{viscosity of medium used}) / 30\text{cSt}$$

Maxiflow (MXA.8*** Series) and 12PS Series

Filter Housing

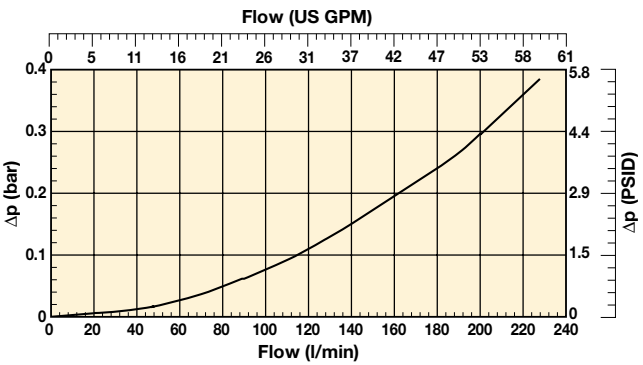


Filter Element

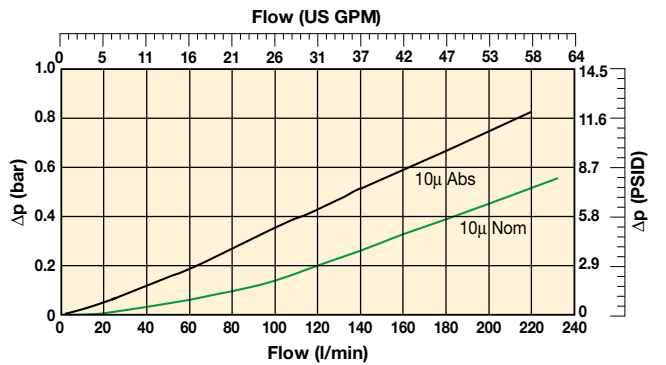


Maxiflow (MXA.9*** Series) and 22PS Series

Filter Housing

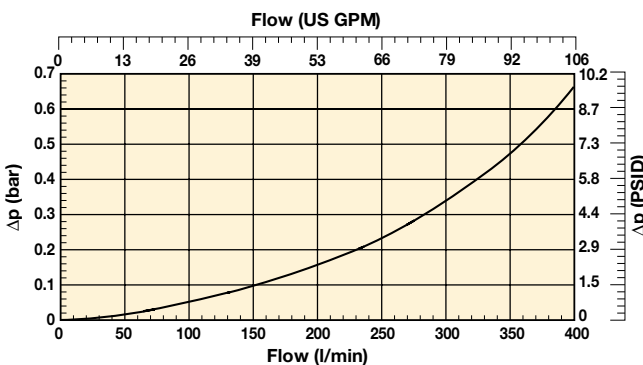


Filter Element

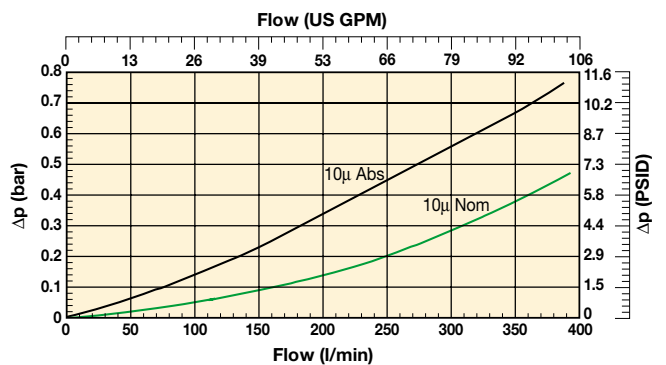


Maxiflow (MXA.7*** Series)

Filter Housing



Filter Element



Note: All above data is calculated at 30cSt Rel density 0.856.

Ordering Information

Type	Part number	Description	MAOP (bar)	Flow (l/min)	Media rating	Ports	Replacement element
------	-------------	-------------	------------	--------------	--------------	-------	---------------------

MXA.8*** & 12PS Return Line Filters

MXA	MXA8551424	Assembly with bypass & dual visual indicators	10	70	10 micron abs.	G ³ / ₄	MXR8550
PS	12PS10BTV1R2B	Assembly with bypass & gauge type visual indicators					
MXA	MXA8511424	Assembly with bypass & dual visual indicators	10	70	10 micron nom.	G ³ / ₄	MX1518410 (x4*)
PS	12PS10CTV1R2B	Assembly with bypass & gauge type visual indicators					
	12PS10CTE2R2B	Assembly with bypass & electrical pressure indicator					
	12PS10CTPR2B	Assembly with bypass & no indicator					

MXA.8*** & 12PS Suction Line Filters

MXA	MXA8511223	Assembly with bypass & dual visual indicators	10	20	10 micron nom.	G ³ / ₄	MX1518410 (x4*)
PS	12PS10CTV1S4B	Assembly with bypass & gauge type visual indicator					
MXA	MXA8510223	Assembly without bypass, with dual visual indicators					
PS	12PS10CTV1SX4B	Assembly without bypass, with gauge type visual indicator					

MXA.9*** & 22PS Return Line Filters

MXA	MXA9561424	Assembly with bypass & dual visual indicators	10	30	3 micron abs.	G1 ¹ / ₄	MXR9560
-----	------------	---	----	----	---------------	--------------------------------	---------

3 Micron abs. filtration for Off-Line and Bypass System Clean Up

Maxiflow 3 micron elements are ideal for off-line or bypass clean up applications. These can be specified for the 9*** and 7*** series return line filters

MXA	MXA9551424	Assembly with bypass & dual visual indicators	10	180	10 micron abs.	G1 ¹ / ₄	MXR9550
PS	22PS10BTV1R2D	Assembly with bypass & gauge type visual indicators					
PS	22PS10BTE2R2D	Assembly with bypass & electrical pressure indicator					
PS	22PS10BTPR2D	Assembly with bypass & no indicator					
MXA	MXA9511424	Assembly with bypass & dual visual indicators	10	180	10 micron nom.	G1 ¹ / ₄	MX1591410 (x4*)
PS	22PS10CTV1R2D	Assembly with bypass & gauge type visual indicator					
PS	22PS10CTE2R2D	Assembly with bypass & electrical pressure indicator					
PS	22PS10CTPR2D	Assembly with bypass & no indicator					

MXA.9*** & 22PS Suction Line Filters

MXA	MXA9511223	Assembly with bypass & dual visual indicators	10	48	10 micron nom.	G1 ¹ / ₄	MX1591410 (x4*)
PS	22PS10CTV2S4D	Assembly with bypass & gauge type visual indicator					
MXA	MXA9511023	Assembly without bypass, with visual indicators					
PS	22PS10CTPSX4D	Assembly without bypass, no indicator					

MXA.7*** Return Line Filters

MXA	MXA7551424	Assembly with bypass & dual visual indicators	10	300	10 micron abs.	G1 ¹ / ₂	MXR9550
MXA	MXA7511424	Assembly with bypass & dual visual indicators	10	350	10 micron nom.	G1 ¹ / ₂	MX1591410 (x4*)

MXA.7*** Suction Line Filters

MXA	MXA7551223	Assembly with bypass & visual indicators	10	80	10 micron abs.	G1 ¹ / ₂	MXR9550
	MXA7551023	Assembly without bypass with visual indicators					
MXA	MXA7511223	Assembly with bypass & visual indicators	10	80	10 micron nom.	G1 ¹ / ₂	MX1591410 (x4*)
	MXA7511023	Assembly without bypass with visual indicators					

The Maxiflow Series 7*** can be specified with additional visual or electrical indicators. Please consult Parker Filtration for details

Note: Elements marked with (x4*) are only available in packs of 4

15P/30P Series

MAX 200 l/min - 207 bar



15P/30P Series

Features & Benefits

Features	Advantages	Benefits
Compact aluminium housing	Light weight but still robust design	Reliable and continuous operation both in mobile and industrial applications
Two head sizes and two bowl lengths	Optimised sizing	Efficient filtration
		Right filter for each application
Large ports and wide flow paths	Low differential pressure across housing and element	Higher flow rates possible
		Less lost energy
Microglass III replacement elements	Multi-layered design produced high capacity and efficiency	Great performance value
	Wire support reduces pleat bunching, keeps performance consistent	Reliable performance throughout element life
Visual, electrical and electronic indicators available	Check element condition at a glance	Optimise element life, prevent bypassing
	Right style for the application	Matches your system electrical connections

Typical Applications

- Saw mills
- Aircraft ground support equipment
- Asphalt pavers
- Hydraulic fan drives
- Power steering circuits
- Domestic refuse vehicles
- Cement trucks
- Servo control protection
- Logging equipment



The Parker Filtration 15P/30P Series High Pressure Filters.

These application examples have one thing in common...the need for clean hydraulic fluid.

Modern high pressure hydraulic systems are demanding. Better controls and long component life are expected. To deliver the high standards of performance, hydraulic components are built with tighter tolerances which increases their sensitivity to contamination.

That's where Parker pressure filters come into play. They filter out ingressed contamination before it jams a valve or scores a cylinder. They block pump generated debris before it gets to servo or proportional valves. Parker pressure filters are a key ingredient in meeting today's system demands.

Put your hydraulic systems in the care of Parker Filtration. We are committed to designing and building the best filters available to industry.

Specification

Pressure ratings:

Maximum allowable operating pressure 207 bar.
Filter housing pressure pulse fatigue tested: 138 bar.

Connections:

Inlet and outlet connections are threaded.

Connection style	Model	
BSPF(G)	15P	30P
ISO 6149	3/4"	1"
	M27	M33

Filter housing:

Head material extruded aluminium (anodised 6061-T6).
Bowl material impacted aluminium (anodised 6061-T6).

Seal material:

Nitrile or Fluoroelastomer.

Operating temperature range:

-20°C to +100°C.

Bypass valve:

Opening pressure 3.5 bar.

Filter element:

Degree of filtration:

Determined by multipass-test according to ISO 16889.

Flow fatigue characteristics:

Filter media is supported so that the optimal fatigue life is achieved (ISO 3724).

Microglass III:

Supported with epoxy coated metal wire mesh, end cap material reinforced composite and metal inner core. Collapse rating 24 bar (ISO 2941).

High collapse elements:

High collapse elements available. For details please contact Parker Filtration.

Indicator options:

Indicating differential pressure: 2.5 ± 0.3 bar.

- visual M3.
- electrical T1.
- electronic F1 (PNP).
- electronic F2 (NPN).

For indicator details see catalogue section 6.

Weights (kg):

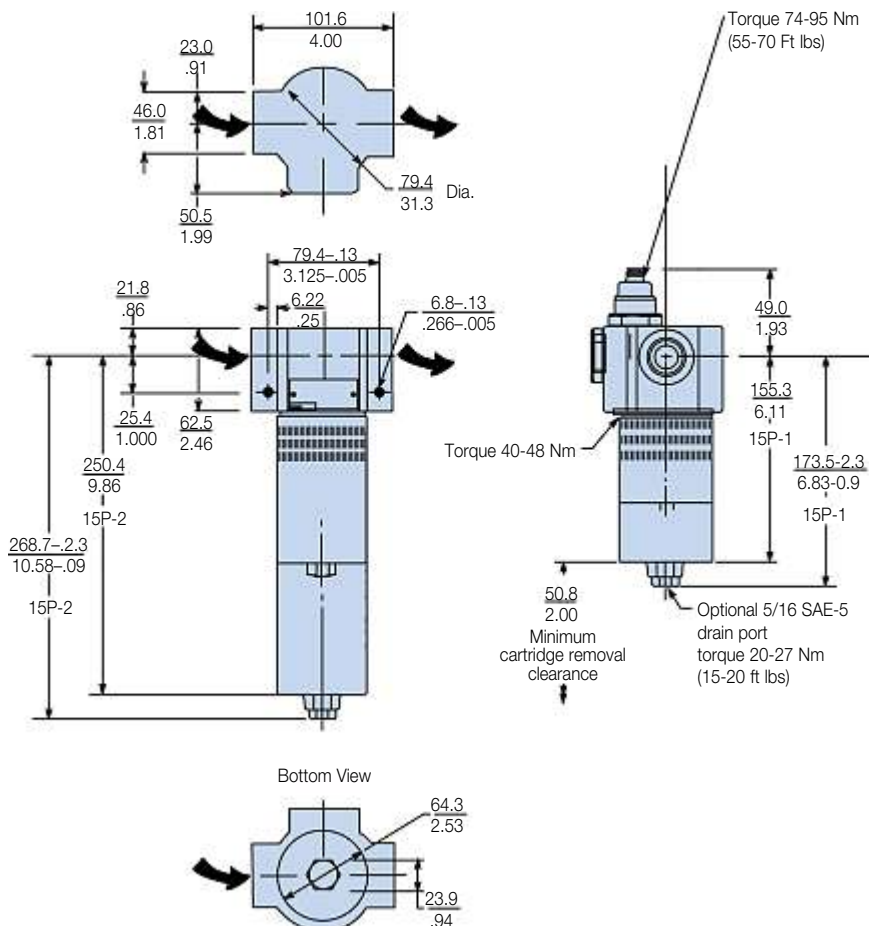
Model	Length 1	Length 2
15P	1.6	2.1
30P	2.9	3.9

Fluid compatibility:

Suitable for use with mineral and vegetable oils, and some synthetic oils. For other fluids, please consult Parker Filtration.

Installation Details

15P Series

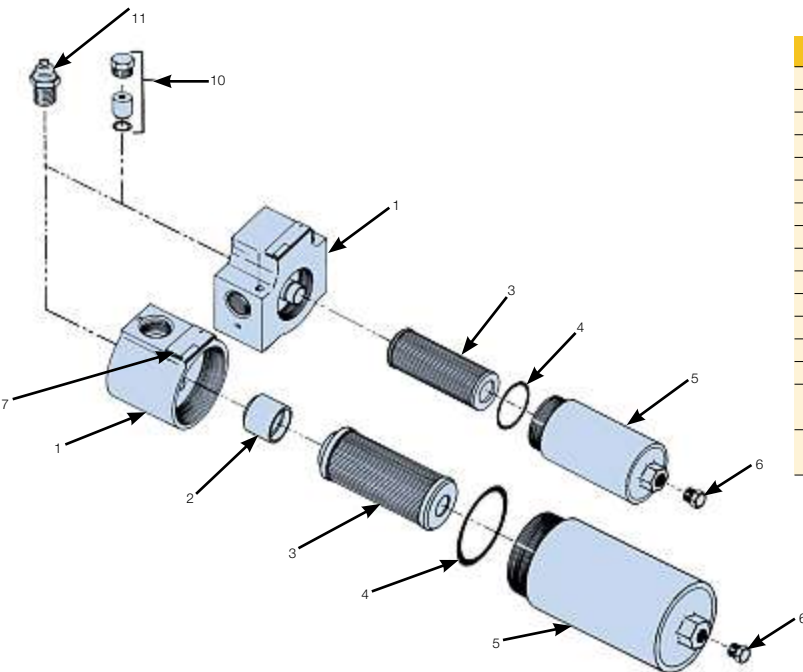
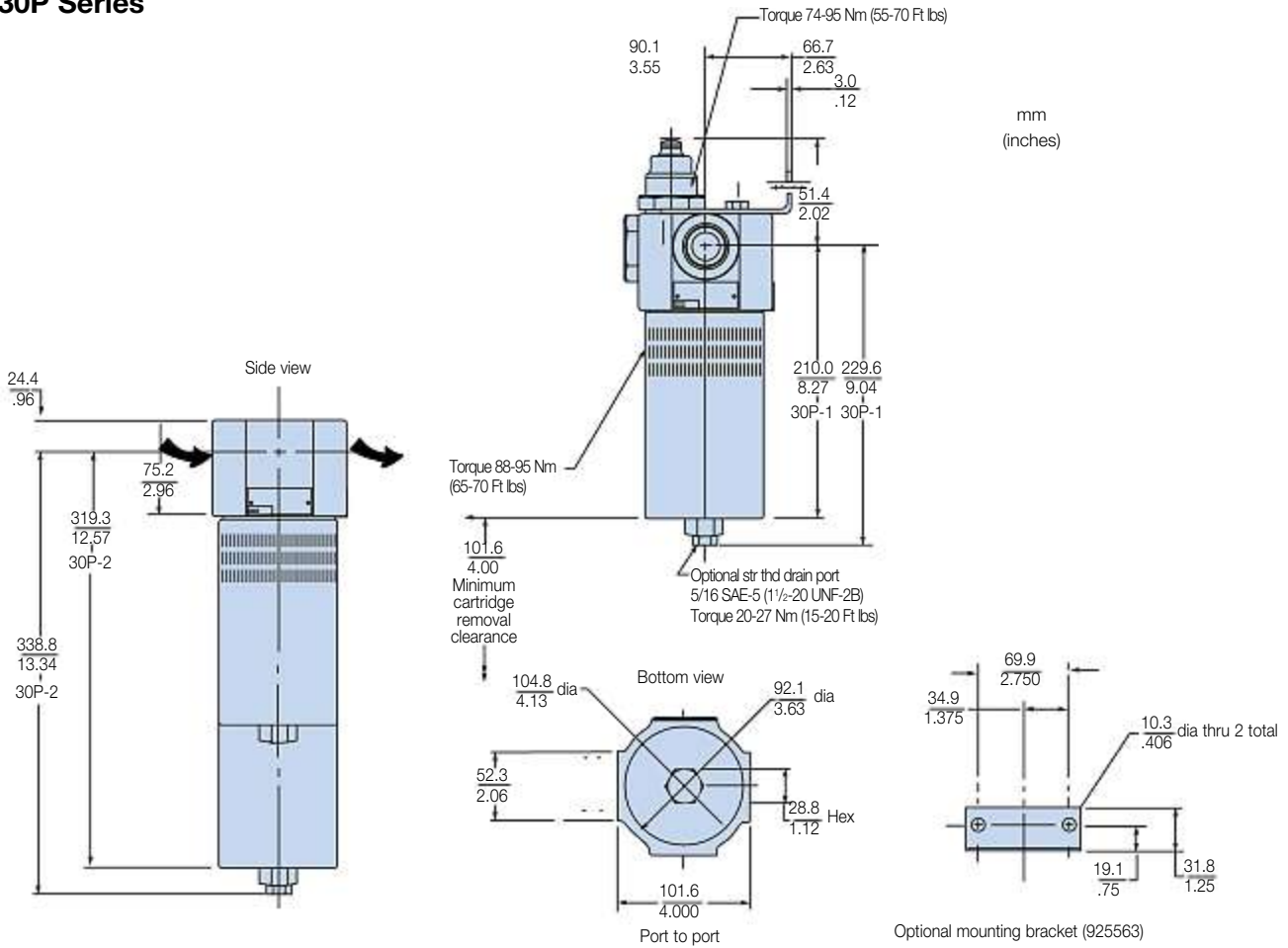


High Pressure Filters

15P/30P Series

Installation Details (cont.)

30P Series



Index	Description	15P	30P
1	Head		
2	Bypass assembly		
3	Element	See chart in product configurator	
4	Bowl O-ring - buna	N92138	N92151
	Bowl O-ring - fluoroelastomer	V92138	V92151
5	Bowl		
6	Drain plug - c/w buna seal		
	Drain plug - c/w Fluoroelastomer seal		
7	Nameplate		
10	Blank indicator kit		
11	Indicators		
	M3 - Visual auto reset indicator	FMUM3KVAU14M	
	T1 - Electrical indicator	FMUT1KVAU14M	
	F1 - Electronic indicator PNP with 4 LED	FMUF1KVAU14M	
	F2 - Electronic indicator NPN with 4 LED	FMUF2KVAU14M	

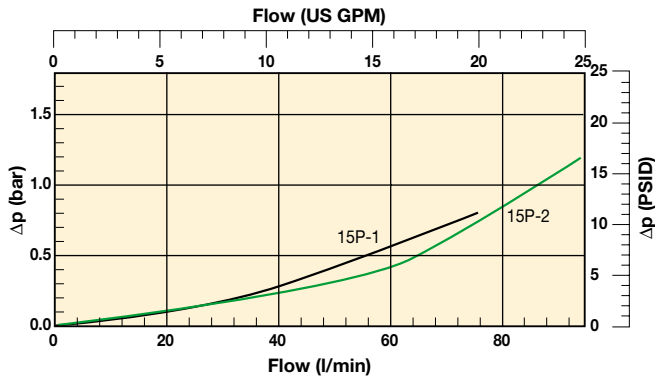
Pressure Drop Curves

The recommended level of the initial pressure drop is max. 1.2 bar.

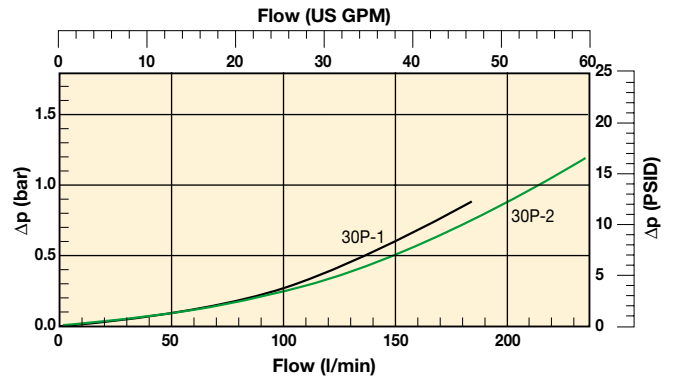
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows:

$$\Delta p = (\Delta p_{30} \times \text{viscosity of medium used}) / 30 \text{ cSt.}$$

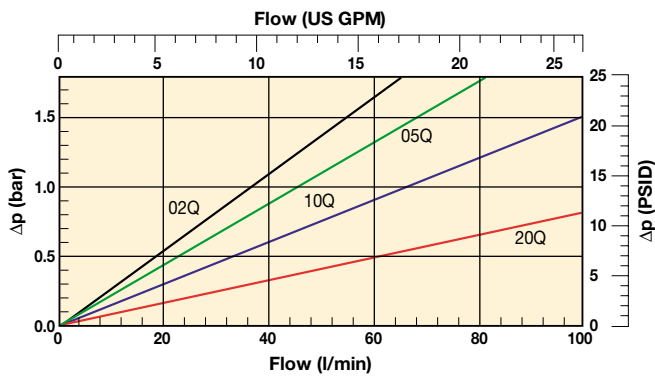
15P Empty Housing



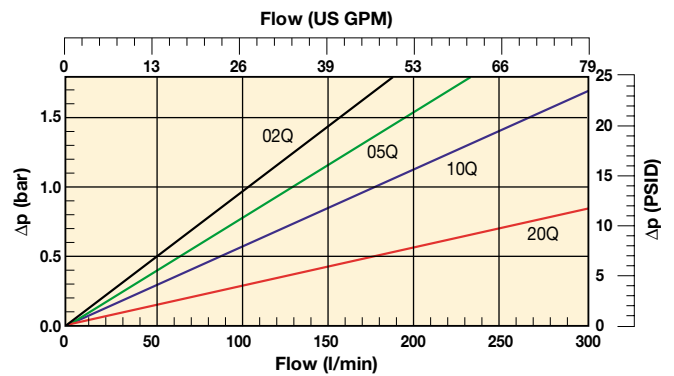
30P Empty Housing



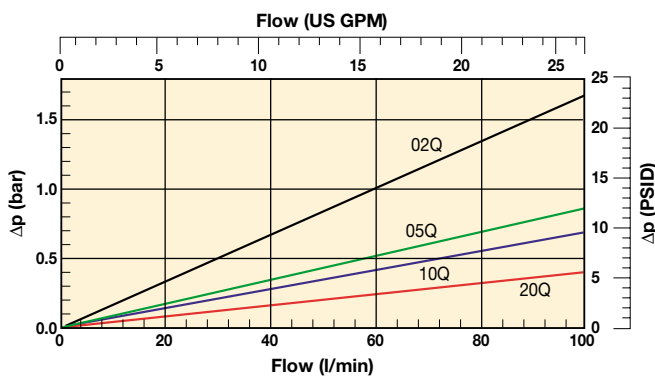
15P-1 Elements



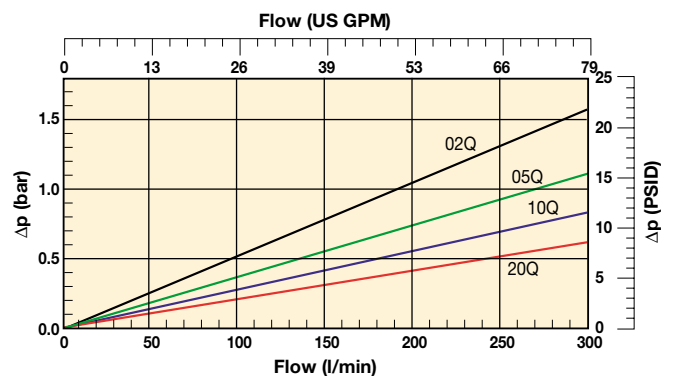
30P-1 Elements



15P-2 Elements



30P-2 Elements



15P/30P Series

Ordering Information

Standard products table

Part number	Supersedes	Flow (l/min)	Model number	Element length	Media rating (µ)	Seals	Indicator	Bypass settings	Ports	Replacement elements
15P110QBM3KG121	15P-1-10Q-M2-50-B2B2-1	45	15P	Length 1	10	Nitrile	Visual	3.5 bar	G ³ / ₄ "	939102Q
15P110QBT1KG121	15P-1-10Q-TW3-50-B2B2-1	45	15P	Length 1	10	Nitrile	Electrical	3.5 bar	G ³ / ₄ "	939102Q
15P210QBM3KG121	15P-2-10Q-M2-50-B2B2-1	70	15P	Length 2	10	Nitrile	Visual	3.5 bar	G ³ / ₄ "	939106Q
15P210QBT1KG121	15P-2-10Q-TW3-50-B2B2-1	70	15P	Length 2	10	Nitrile	Electrical	3.5 bar	G ³ / ₄ "	939106Q
30P110QBM3KG161	30P-1-10Q-M2-50-C2C2-1	120	30P	Length 1	10	Nitrile	Visual	3.5 bar	G1"	939110Q
30P110QBT1KG161	30P-1-10Q-TW3-50-C2C2-1	120	30P	Length 1	10	Nitrile	Electrical	3.5 bar	G1"	939110Q
30P210QBM3KG161	30P-2-10Q-M2-50-C2C2-1	170	30P	Length 2	10	Nitrile	Visual	3.5 bar	G1"	939114Q
30P210QBT1KG161	30P-2-10Q-TW3-50-C2C2-1	170	30P	Length 2	10	Nitrile	Electrical	3.5 bar	G1"	939114Q

Note: Filter assemblies ordered from the product configurator below are on extended lead times. Where possible, please make your selection from the table above.

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Product configurator

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8
15P	1	10Q	B	M3	K	G12	1

Box 1

Code	
Model	Code
High pressure filter, T-port	15P
High pressure filter, T-port	30P

Highlights Key (Denotes part number availability)

123	Item is standard
123	Item is standard green option
123	Item is semi standard
123	Item is non standard

Note: Standard items are in stock, semi standard items are available within four weeks

Box 2

Filter type	
Length	Code
Length 1	1
Length 2	2

Box 3

Degree of filtration			
Element media	Glass fibre		
	Media code		
Microglass III element	02Q	05Q	10Q 20Q

Box 4

Seal type	
Seal material	Code
Nitrile	B
Fluoroelastomer	V

Box 5

Indicator	
	Code
Plugged with steel plug	P
Visual indicator	M3
Electrical indicator	T1
No indicator port	N
Electronic 4 LED, PNP, N.O.	F1
Electronic 4 LED, NPN, N.O.	F2
Electronic 4 LED, PNP, N.C.	F3
Electronic 4 LED, NPN, N.C.	F4

Box 6

Bypass and indicator settings		
Bypass valve	Indicator	Code
3.5 bar	2.5 bar	K

When filter includes a bypass valve but not an indicator, code denotes bypass setting.

Box 7

Filter connection	
Connections	Code
15P: Thread G ³ / ₄	G12
Thread M27, ISO 6149	M27
30P: Thread G 1	G16
Thread M33, ISO 6149	M33

Box 8

Options	
Options	Code
Standard	1
Drain port on bowl	4

Replacement elements with nitrile seals				
Media	15P-1	15P-2	30P-1	30P-2
02Q	939100Q	939104Q	939108Q	939112Q
05Q	939101Q	939105Q	939109Q	939113Q
10Q	939102Q	939106Q	939110Q	939114Q
20Q	939103Q	939107Q	939111Q	939115Q

Nominal flow (l/min) at viscosity 30 cSt

Filter model	02Q	05Q	10Q	20Q
15P-1	25	30	45	70
15P-2	40	60	70	90
30P-1	70	90	120	170
30P-2	120	150	170	200

Degree of filtration						Code	
Average filtration beta ratio β (ISO 16889) / particle size µm [c]							
βx(c)=2	βx(c)=10	βx(c)=75	βx(c)=100	βx(c)=200	βx(c)=1000	Disposable Microglass III	
% efficiency, based on the above beta ratio (βx)							02Q
50.0%	90.0%	98.7%	99.0%	99.5%	99.9%		
N/A	N/A	N/A	N/A	N/A	4.5	05Q	
N/A	N/A	4.5	5	6	7		
N/A	6	8.5	9	10	12		
6	11	17	18	20	22	20Q	



High Pressure Filters

18/28/38P Series

MAX 700 l/min - 414 bar



18/28/38P Series

Features & Benefits

Features	Advantages	Benefits
Fatigue tested to full pressure rating	Strong and robust housing for heavy duty applications	Reliable and continuous operation both in mobile and industrial applications
Several head sizes	Optimised sizing	Efficient filtration Covers wide flow range
Several connection options	Easy mounting	Global design, global acceptance Right filter for each application
Microglass III replacement elements	Multi-layered design produced high capacity and efficiency	Great performance value
	Wire support reduces pleat bunching, keeps performance consistent	Reliable performance throughout element life Reduces downtime, maximises element life
Visual, electrical and electronic indicators available	Check element condition at a glance	Optimises element life, prevents bypassing
	Right style for the application	Matches your system electrical connections

Typical Applications

- Injection moulding
- Die casting
- Servo controls
- Machine tools
- Mobile equipment

The Parker Filtration 18/28/38P Series High Pressure Filters

Parker Filtration engineered the 18/28/38P series of high pressure filters to satisfy demanding applications in the mobile and industrial markets throughout the world. With metric mounting and optional ISO 6149 ports, this new series is truly a global design.

Installed downstream of the pump, this new series with their wide range of high capacity Microglass III elements, offer excellent protection to system components.

Standard filters come complete with industry proven spool type bypass valve. For more critical applications such as servo or proportional controls, a no bypass high strength element combination ensures maximum protection.

The modular low hysteresis differential pressure indicator fitted to this series is unrivaled in its performance. Tests prove its accuracy and foolproof design to be a major advance in indicator technology.



Specification

Pressure ratings:

Maximum allowable operating pressure 414 bar.
Filter housing pressure pulse fatigue tested: 10⁶ pulses 0 - 414 bar.

Connections:

Inlet and outlet connections are threaded internally or flange faced.

Connection style	Model		
	18P	28P	38P
BSPF(G)	3/4"	1"	1 1/4", 1 1/2"
SAE	12	16	20, 24
ISO 6149	M27	M33	M42, M48
Flange SAE 6000	3/4"	1"	1 1/4"
Flange SAE 6000-M*	3/4"	1"	1 1/4"

*6000-M is a SAE style with appropriate metric fixing threads.

Filter housing:

Head material cast iron (GSI).
Bowl material steel.

Seal material:

Nitrile or Fluoroelastomer.

Operating temperature range:

-20°C to +100°C.

Bypass valve & indicator settings:

Table below gives bypass valve and corresponding indicator setting.

Bypass	Indicator
3.5 bar	2.5 bar
7.0 bar	5.0 bar

Filter element:

Degree of filtration:

Determined by multipass-test according to ISO 16889.

Flow fatigue characteristics:

Filter media is supported so that the optimal fatigue life is achieved (ISO 3724).

Microglass III:

Supported with epoxy coated metal wire mesh, end cap material reinforced composite and metal inner core. Collapse rating 20 bar (ISO 2941).

High collapse elements:

(To be used when no bypass function in filter housing).
Microglass III media supported with epoxy coated metal wire mesh on upstream and stainless steel on downstream, end cap material steel. Strong metal inner core. Collapse rating 210 bar (ISO 2941).

Indicator options:

Indicating differential pressure: 2.5 ± 0.3 bar or 5.0 ± 0.5 bar.

- visual M3.
- electrical T1.
- electronic F1 (PNP).
- electronic F2 (NPN).

For indicator details see catalogue section 6.

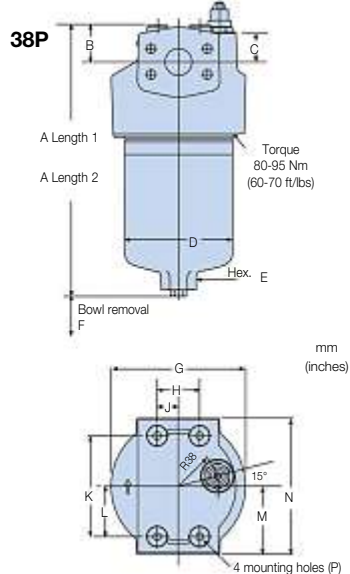
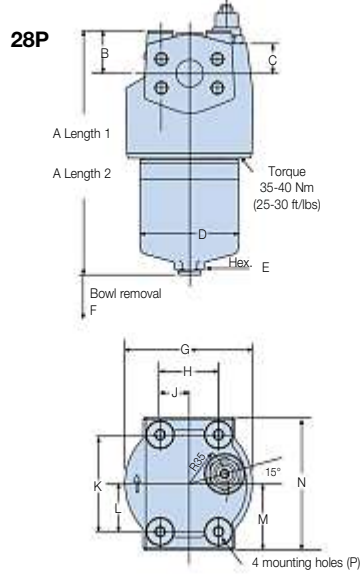
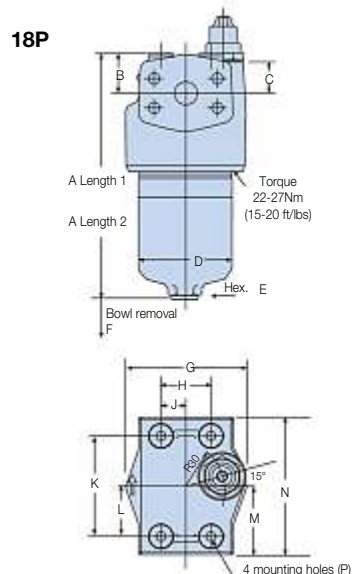
Weights (kg):

Model	Length 1	Length 2
18P	4.2	5.7
28P	6.7	9.2
38P	15.8	20.3

Fluid compatibility:

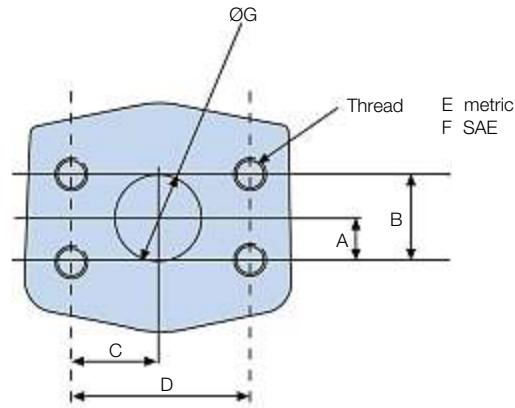
Suitable for use with mineral and vegetable oils, and some synthetic oils.
For other fluids, please consult Parker Filtration.

Model	A	B	C	D	E (A/F)	F	G	H	J	K	L	M	N	P		
18P-1	198 (7.79)	32 (1.26)	26 (1.02)	75 (2.95)	24 (0.94)	100 (3.94)	98 (3.86)	40 (1.57)	20 (0.79)	80 (3.15)	40 (1.57)	55 (2.16)	110 (4.33)	M8 x 1.25 x12 deep		
18P-2	293 (11.53)															
28P-1	228 (8.97)	40 (1.57)	29 (1.14)	93 (3.66)	24 (0.94)		120 (4.72)	55 (2.16)	27.5 (1.07)	90 (3.54)	45 (1.77)	62 (2.44)	124 (4.88)		M10 x 1.5 x11 deep	
28P-2	337 (13.26)															
38P-1	329 (12.95)	44 (1.73)	35 (1.38)	128 (5.04)	36 (1.42)		160 (6.30)	50 (1.97)	25 (0.98)	120 (4.72)	60 (2.36)	81 (3.19)	162 (6.38)			M10 x 1.5 x12 deep
38P-2	448 (17.64)															



18/28/38P Series

Flange Face Details



Model mm (inches)	A	B	C	D	E	F	G
18P (3/4")	11.9 (0.47)	23.8 (0.94)	25.4 (1.00)	50.8 (2.0)	M10 x 1.5-6H x 18 Deep	3/8-16 UNC-2B x 18 deep	19.0 (0.75)
28P (1")	14 (0.55)	27.8 (1.09)	28.0 (1.10)	57.1 (2.25)	M12 x 1.75-6H x 20 Deep	7/16-14 UNC-2B x 20 deep	25.4 (1.0)
38P (1 1/4")	15.7 (0.62)	31.7 (1.25)	33.0 (1.30)	66.7 (2.62)	M14 x 2-6H x 20 Deep	1/2-13 UNC-2B x 20 deep	31.8 (1.25)

Pressure Drop Curves

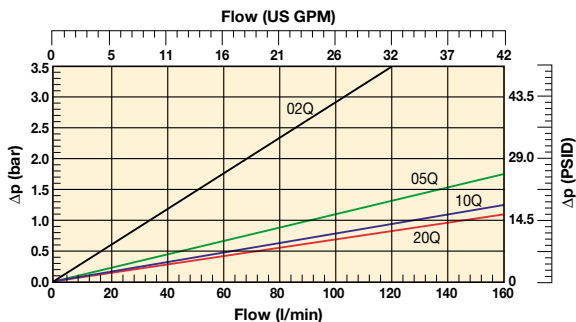
With 3.5 bar bypass the recommended initial pressure drop is max 1.2 bar.

With 7.0 bar bypass the recommended initial pressure drop is max 2.3 bar.

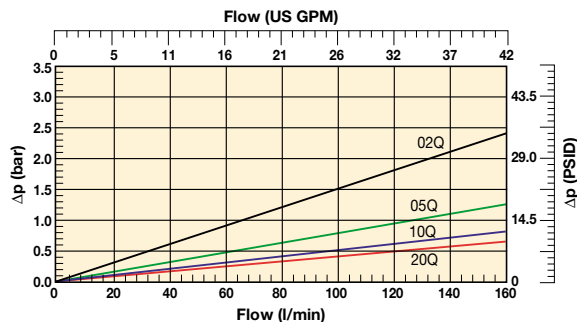
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows:

The total $\Delta p = \text{housing } \Delta p_h + (\text{element } \Delta p_e \times \text{working viscosity}/30)$.

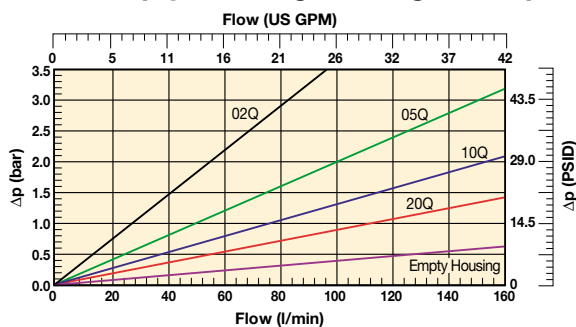
18P-1 Elements



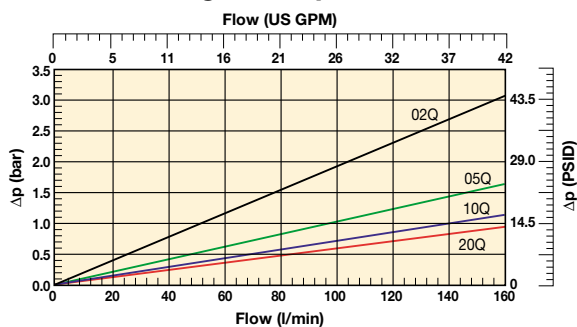
18P-2 Elements



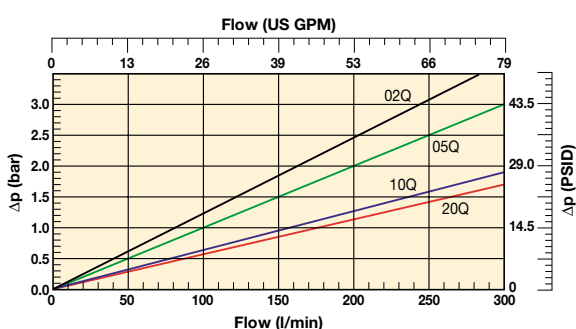
18P-1 Empty Housing and High Collapse



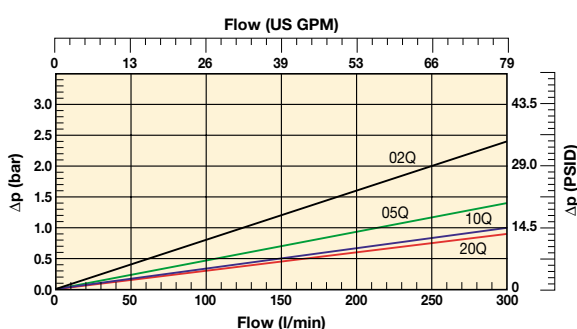
18P-2 High Collapse Elements



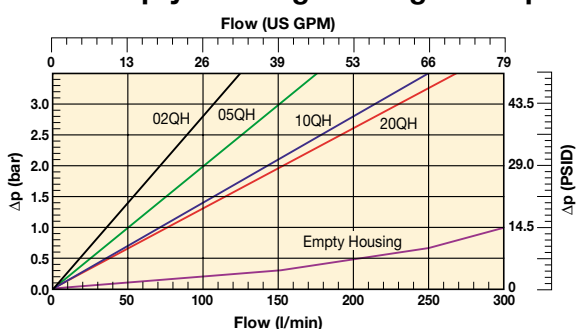
28P-1 Elements



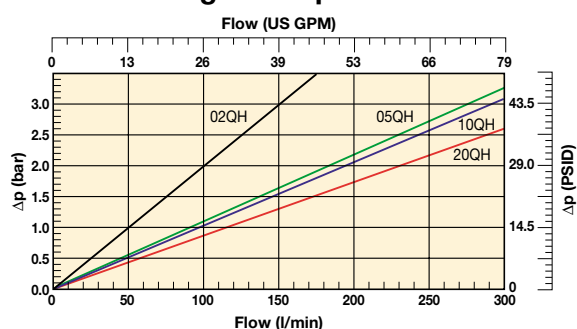
28P-2 Elements



28P-1 Empty Housing and High Collapse



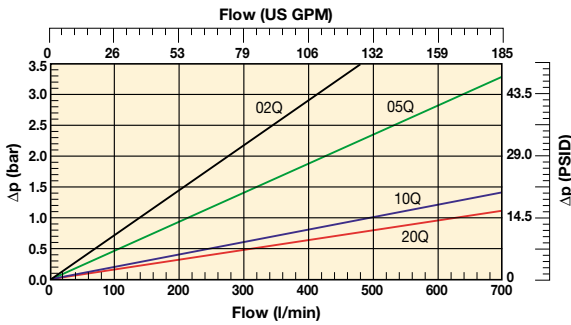
28P-2 High Collapse Elements



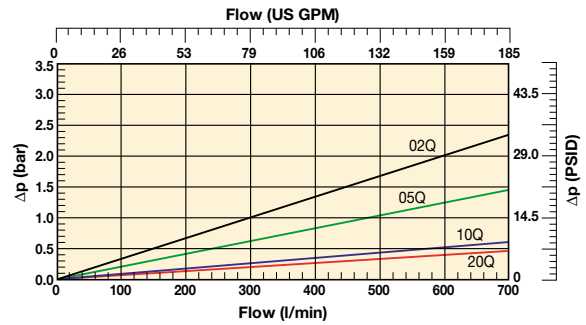
18/28/38P Series

Pressure Drop Curves (cont.)

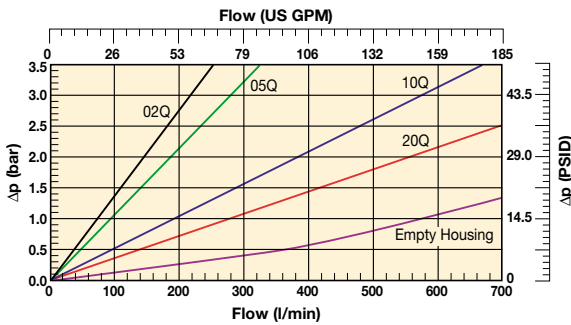
38P-1 Elements



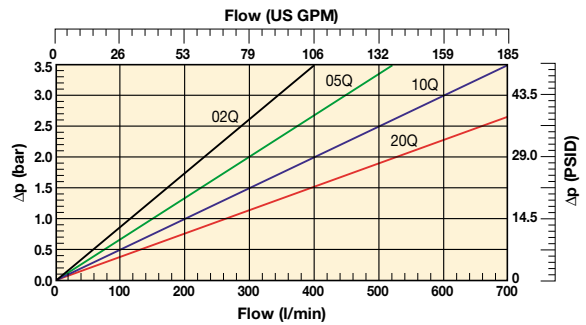
38P-2 Elements



38P-1 Empty Housing and High Collapse



38P-2 High Collapse Elements



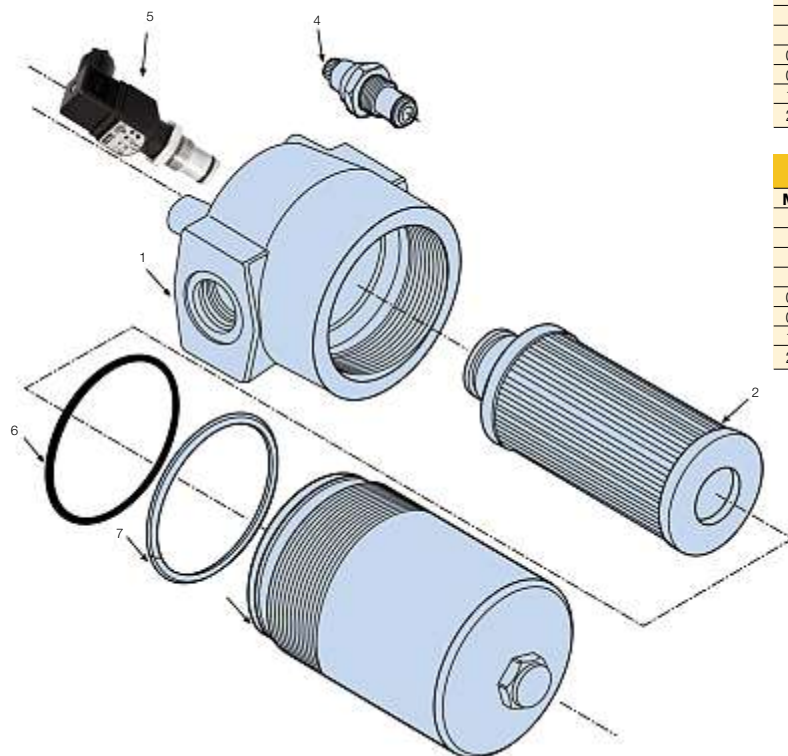
Element Service

- A. Stop the system's power unit.
- B. Relieve any system pressure in the filter line.
- C. Drain the filter bowl if drain port option is provided.
- D. Rotate the bowl clockwise (left) and remove.
- E. Remove element by pulling downward with a slight twisting motion and discard.
- F. Check bowl o-ring and anti-extrusion ring for damage and replace if necessary.
- G. Lubricate element o-ring with system fluid and locate element in filter head.
- H. Install bowl by rotating counter-clockwise (right) and tighten to specified torque.
 - 18P - 22-27 Nm (16-20 ft. lbs.)
 - 28P - 35-40 Nm (25-30 ft. lbs.)
 - 38P - 80-95 Nm (60-70 ft. lbs.)
- I. Confirm there are no leaks after powering the system.

Parts List

Index	Description	Part number
1	Head Assembly	
2	Element	see table on next page
3	Bowl	
	Indicators	
4	M3 – Visual auto reset; 2.5 bar M3 – Visual auto reset; 5.0 bar	
5	T1 – Electrical; 2.5 bar with DIN 43650 Connector T1 – Electrical; 5.0 bar with DIN 43650 Connector F1 – Electronic PNP; 2.5 bar with 4 LED F2 – Electronic NPN; 2.5 bar with 4 LED F1 – Electronic PNP; 5.0 bar with 4 LED F2 – Electronic NPN; 5.0 bar with 4 LED	
6	Bowl Seal	
7	Bowl Anti-extrusion Ring	
	Seal Kits	
	Seal kit 18P (std) – Nitrile	S04350
	Seal kit 18P (F3) – Fluoroelastomer	S04351
	Seal kit 28P (std) – Nitrile	S04352
	Seal kit 28P (F3) – Fluoroelastomer	S04353
	Seal kit 38P (std) – Nitrile	S04354
	Seal Kit 38P (F3) – Fluoroelastomer	S04355

Element Service (cont.)



Replacement element part numbers

Elements with Nitrile seals						
Model	18P-1	18P-2	28P-1	28P-2	38P-1	38P-2
02Q	G04242	G04250	G04258	G04266	G04274	G04282
05Q	G04243	G04251	G04259	G04267	G04275	G04283
10Q	G04244	G04252	G04260	G04268	G04276	G04284
20Q	G04245	G04253	G04261	G04269	G04277	G04285
02QH	G04290	G04298	G04306	G04314	G04322	G04330
05QH	G04291	G04299	G04307	G04315	G04323	G04331
10QH	G04292	G04300	G04308	G04316	G04324	G04332
20QH	G04293	G04301	G04309	G04317	G04325	G04333

Elements with Fluoroelastomer seals						
Model	18P-1	18P-2	28P-1	28P-2	38P-1	38P-2
02Q	G04246	G04254	G04262	G04270	G04278	G04286
05Q	G04247	G04255	G04263	G04271	G04279	G04287
10Q	G04248	G04256	G04264	G04272	G04280	G04288
20Q	G04249	G04257	G04265	G04273	G04281	G04289
02QH	G04294	G04302	G04310	G04318	G04326	G04334
05QH	G04295	G04303	G04311	G04319	G04327	G04335
10QH	G04296	G04304	G04312	G04320	G04328	G04336
20QH	G04297	G04305	G04313	G04321	G04329	G04337

Ordering Information

Standard products table

Part number	Supersedes	Flow (l/min)	Model number	Element length	Media rating (µ)	Seals	Indicator	Bypass settings	Ports	Replacement elements
18P110QBT1MG121	18P-1-10Q-TW6-98-B2B2-1	80	18P	Length 1	10	Nitrile	Electrical	7.0 bar	G ^{3/4} "	G04244
18P110QBM3MG121	18P-1-10Q-M2-98-B2B2-1	80	18P	Length 1	10	Nitrile	Visual	7.0 bar	G ^{3/4} "	G04244
18P120QBT1MG121	18P-1-20Q-TW6-98-B2B2-1	100	18P	Length 1	20	Nitrile	Electrical	7.0 bar	G ^{3/4} "	G04245
18P120QBM3MG121	18P-1-20Q-M2-98-B2B2-1	100	18P	Length 1	20	Nitrile	Visual	7.0 bar	G ^{3/4} "	G04245
18P210QBT1MG121	18P-2-10Q-TW6-98-B2B2-1	130	18P	Length 2	10	Nitrile	Electrical	7.0 bar	G ^{3/4} "	G04252
18P210QBM3MG121	18P-2-10Q-M2-98-B2B2-1	130	18P	Length 2	10	Nitrile	Visual	7.0 bar	G ^{3/4} "	G04252
18P220QBT1MG121	18P-2-20Q-TW6-98-B2B2-1	150	18P	Length 2	20	Nitrile	Electrical	7.0 bar	G ^{3/4} "	G04253
18P220QBM3MG121	18P-2-20Q-M2-98-B2B2-1	150	18P	Length 2	20	Nitrile	Visual	7.0 bar	G ^{3/4} "	G04253
28P110QBT1MG161	28P-1-10Q-TW6-98-C2C2-1	120	28P	Length 1	10	Nitrile	Electrical	7.0 bar	G1"	G04260
28P110QBM3MG161	28P-1-10Q-M2-98-C2C2-1	120	28P	Length 1	10	Nitrile	Visual	7.0 bar	G1"	G04260
28P120QBT1MG161	28P-1-20Q-TW6-98-C2C2-1	150	28P	Length 1	20	Nitrile	Electrical	7.0 bar	G1"	G04261
28P120QBM3MG161	28P-1-20Q-M2-98-C2C2-1	150	28P	Length 1	20	Nitrile	Visual	7.0 bar	G1"	G04261
28P210QBT1MG161	28P-2-10Q-TW6-98-C2C2-1	250	28P	Length 2	10	Nitrile	Electrical	7.0 bar	G1"	G04268
28P210QBM3MG161	28P-2-10Q-M2-98-C2C2-1	250	28P	Length 2	10	Nitrile	Visual	7.0 bar	G1"	G04268
38P110QBT1MG201	38P-1-10Q-TW6-98-D2D2-1	340	38P	Length 1	10	Nitrile	Electrical	7.0 bar	G1 ^{1/2} "	G04276
38P110QBM3MG201	38P-1-10Q-M2-98-D2D2-1	340	38P	Length 1	10	Nitrile	Visual	7.0 bar	G1 ^{1/2} "	G04276
38P120QBT1MG201	38P-1-20Q-TW6-98-D2D2-1	420	38P	Length 1	20	Nitrile	Electrical	7.0 bar	G1 ^{1/2} "	G04277
38P120QBM3MG201	38P-1-20Q-M2-98-D2D2-1	420	38P	Length 1	20	Nitrile	Visual	7.0 bar	G1 ^{1/2} "	G04277
38P210QBT1MG201	38P-2-10Q-TW6-98-D2D2-1	560	38P	Length 2	10	Nitrile	Electrical	7.0 bar	G1 ^{1/2} "	G04284
38P210QBM3MG201	38P-2-10Q-M2-98-D2D2-1	560	38P	Length 2	10	Nitrile	Visual	7.0 bar	G1 ^{1/2} "	G04284
38P220QBT1MG201	38P-2-20Q-TW6-98-D2D2-1	700	38P	Length 2	20	Nitrile	Electrical	7.0 bar	G1 ^{1/2} "	G04285
38P220QBM3MG201	38P-2-20Q-M2-98-D2D2-1	700	38P	Length 2	20	Nitrile	Visual	7.0 bar	G1 ^{1/2} "	G04285

Note: Filter assemblies ordered from the product configurator on the next page are on extended lead times. Where possible, please make your selection from the table above.

High Pressure Filters

18/28/38P Series

Ordering Information (cont.)

Product configurator

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8
38P	1	10Q	B	M3	M	G20	1

Box 1

Code	
Model	Code
Small size high pressure filter, T-port	18P
Medium size high pressure filter, T-port	28P
Large size high pressure filter, T-port	38P

Highlights Key (Denotes part number availability)

123	Item is standard
123	Item is standard green option
123	Item is semi standard
123	Item is non standard

Note: Standard items are in stock, semi standard items are available within four weeks

Box 2

Filter type	
Length	Code
Length 1	1
Length 2	2

Box 3

Degree of filtration				
Element media	Glass fibre			
	Media code			
Microglass III element	02Q	05Q	10Q	20Q
High collapse element	02QH	05QH	10QH	20QH

Box 4

Seal type	
Seal material	Code
Nitrile	B
Fluoroelastomer	V

Box 5

Indicator	
	Code
No indicator port	N
Visual indicator	M3
Electrical indicator	T1
Plugged with steel plug	P
Electronic 4 LED, PNP, N.O.	F1
Electronic 4 LED, NPN, N.O.	F2
Electronic 4 LED, PNP, N.C.	F3
Electronic 4 LED, NPN, N.C.	F4

Box 6

Bypass and indicator settings		
Bypass valve	Indicator	Code
3.5 bar	2.5 bar	K
7.0 bar	5.0 bar	M
No bypass	5.0 bar	M
No bypass	No indicator	X

+ Box 8: code 2

+ Box 8: code 2

When filter includes a bypass valve but not an indicator, code denotes bypass setting.

Box 7

Filter connection	
Ports	Code
18P: Thread G 3/4	G12
Thread SAE 12	S12
Thread M27, ISO 6149	M27
SAE flange 3/4" 6000-M	H12
SAE flange 3/4" 6000	F12
28P: Thread G 1	G16
Thread SAE 16	S16
Thread M33, ISO 6149	M33
SAE flange 1" 6000-M	H16
SAE flange 1" 6000	F16
38P: Thread G 1 1/4	G20
Thread G 1 1/2	G24
Thread SAE 20	S20
Thread SAE 24	S24
Thread M42, ISO 6149	M42
Thread M48, ISO 6149	M48
SAE flange 1 1/4" 6000-M	H20
SAE flange 1 1/4" 6000	F20

Box 8

Options	
Options	Code
Standard	1
No bypass	2

Nominal flow (l/min) at viscosity 30 cSt

Filter model	02Q	05Q	10Q	20Q
18P-1	35	60	80	100
18P-2	70	110	130	150
28P-1	80	100	120	150
28P-2	140	200	250	300
38P-1	140	220	340	420
38P-2	320	440	560	700

Degree of filtration						Code	
Average filtration beta ratio β (ISO 16889) / particle size μm [c]							
$\beta(x)=2$	$\beta(x)=10$	$\beta(x)=75$	$\beta(x)=100$	$\beta(x)=200$	$\beta(x)=1000$		
% efficiency, based on the above beta ratio ($\beta(x)$)							
50.0%	90.0%	98.7%	99.0%	99.5%	99.9%	Disposable	High collapse
N/A	N/A	N/A	N/A	N/A	4.5	Microglass III	element
N/A	N/A	4.5	5	6	7	02Q	02QH
N/A	6	8.5	9	10	12	05Q	05QH
6	11	17	18	20	22	10Q	10QH
						20Q	20QH

Note 1: Part numbers featured with bold highlighted codes will ensure a 'standard' product selection.

Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.