

15P/30P Series

High Pressure Filters

Max 225 l/min - 207 bar



Global Filtration Technology

High Pressure Filters

15P/30P Series

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.

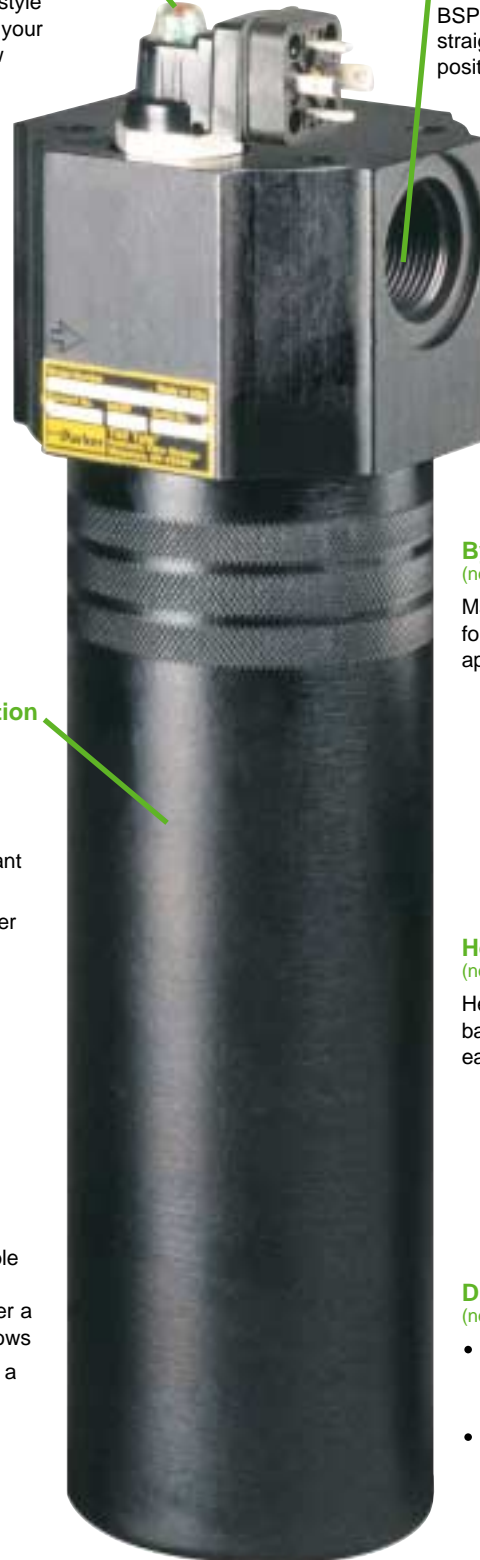
Put your hydraulic systems in the care of Parker Filtration. We are committed to designing and building the best filters available to industry.

Indicators

- Both visual auto reset style and dual indicator visual/electrical style available to suit your application. New patented design resists false signaling due to vibration.

Straight Thread Ports

BSP and metric straight thread for positive sealing.



Bypass Valve (not visible)

May be blocked for critical applications.

Bowl Construction

- Formed of high grade 6061 T6 aluminium
- Black anodised, corrosion resistant finish
- Knurled for easier gripping when removing and re-assembling

Hex (not visible)

Hex formed at base of bowl for easy removal

Bowl Configurations

- Single and double length bowls available to cover a wide range of flows
- 30P available in a duplex version

Drain Port (not visible)

- Clean and easy servicing
- Lets you drain bowl before element changes

SPECIFICATION

Pressure Ratings:

Maximum Allowable Operating Pressure (MAOP): 207 bar
 Rating Fatigue Pressure: 138 bar
 Design Safety Factor: 3:1

Operating Temperatures:

-26°C to 135°C (Fluoroelastomer Seals)
 -42°C to 107°C (Nitrile)

Element Collapse Rating:

Standard - 24 bar
 "H" Option - 138 bar
 "X" Option - 207 bar } Consult Parker Filtration for details

Materials:

Bowl: Impacted Aluminium (anodised 6061-T6)
 Head: Extruded Aluminium (anodised 6061-T6)
 Bypass: Nylon

Element Condition Indicators:

Visual (optional) 360° green/red
 Electrical/Visual (optional)
 5A @ 48 VAC, 3A @ 28VDC

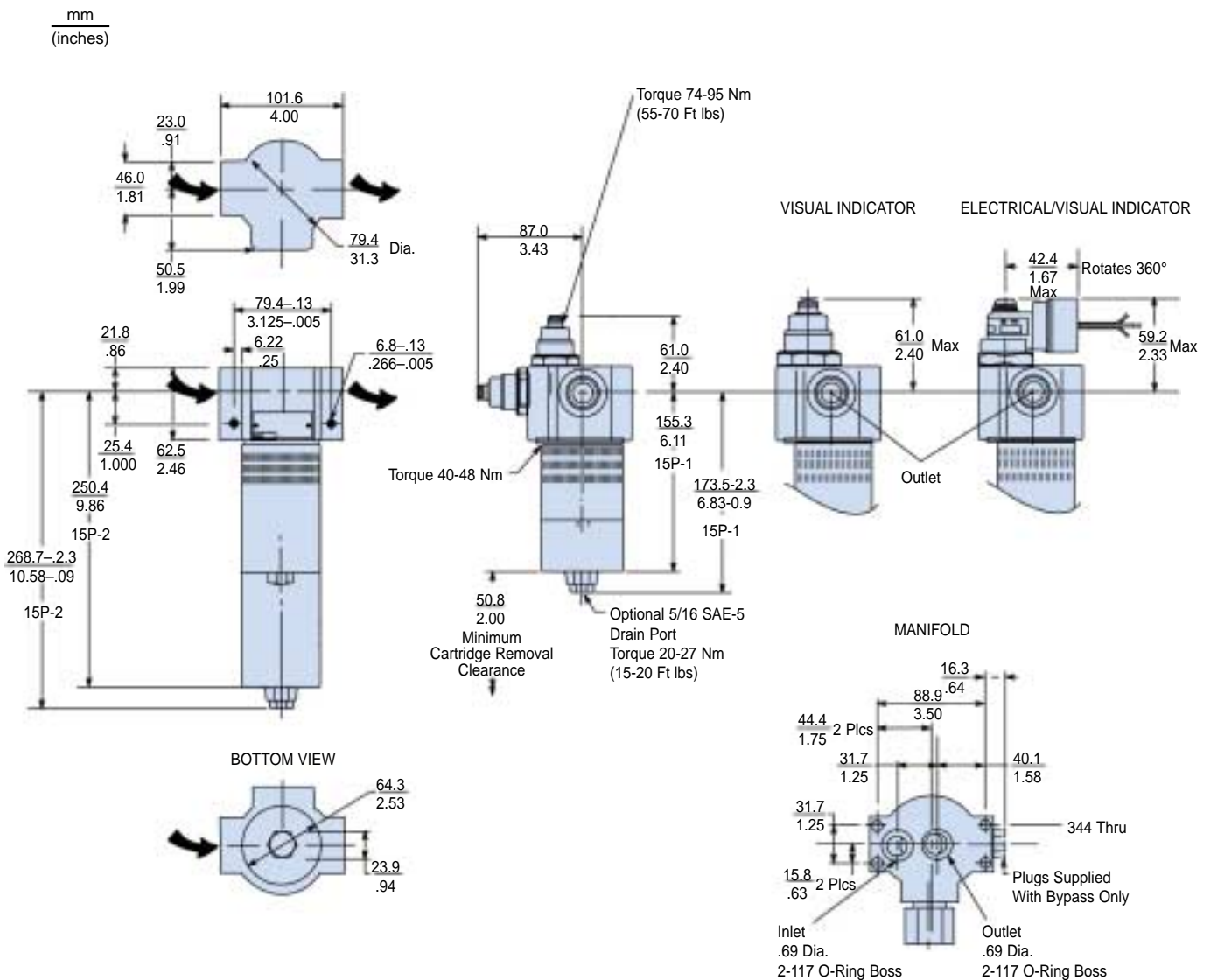
Colour Coding:

White (common)
 Black (normally open)
 Blue (normally closed)

Weights (approximate):

15P-1 1.6 Kg (3.5 lbs)
 15P-2 2.1 Kg (4.6 lbs)
 30P-1 2.9 Kg (6.4 lbs)
 30P-2 3.9 Kg (8.7 lbs)

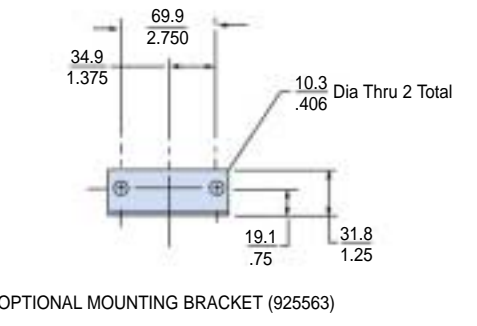
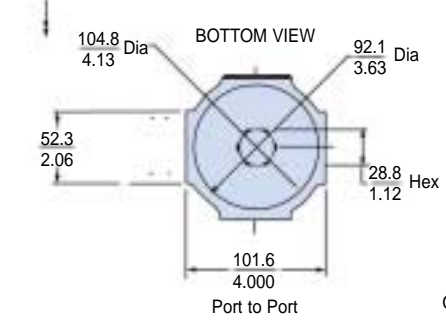
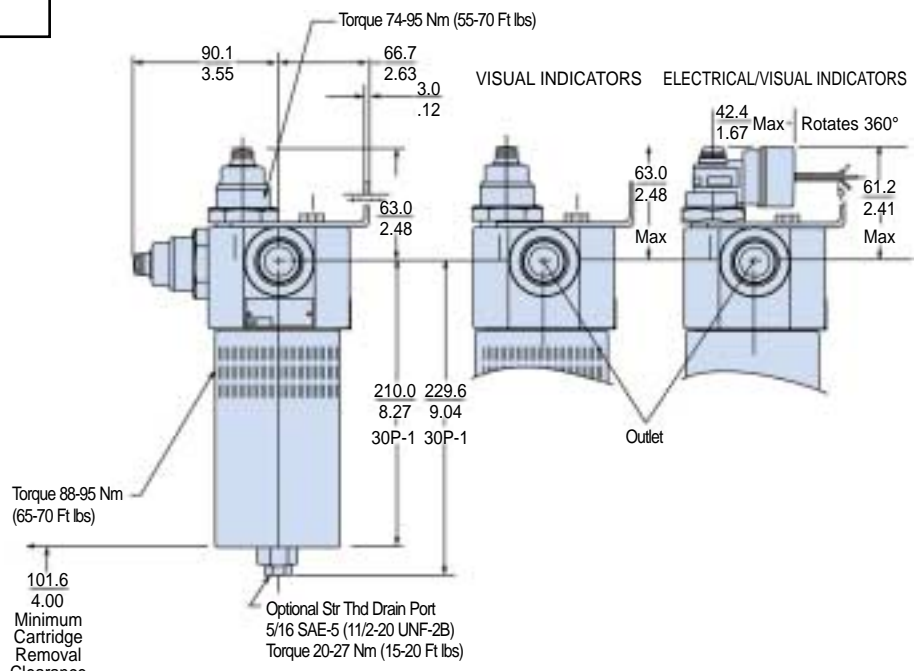
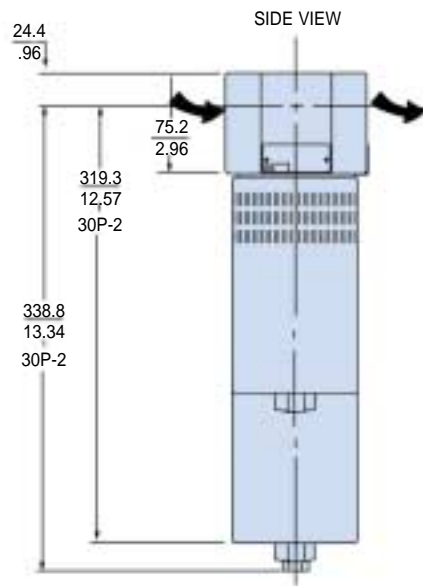
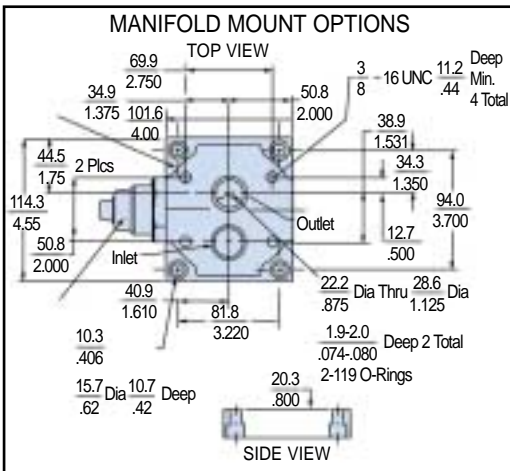
15P SERIES



High Pressure Filters

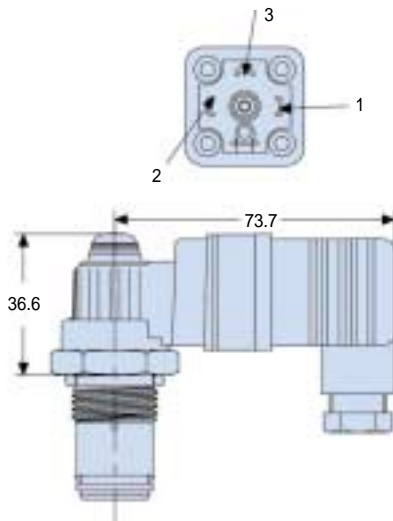
15P/30P Series

30P SERIES

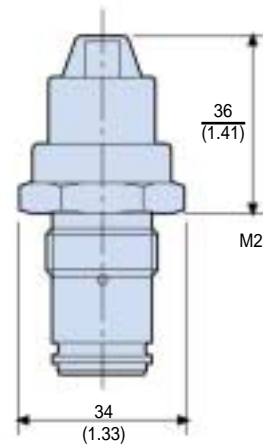


INDICATOR DETAILS

**Electrical Indicator
CODE E2**

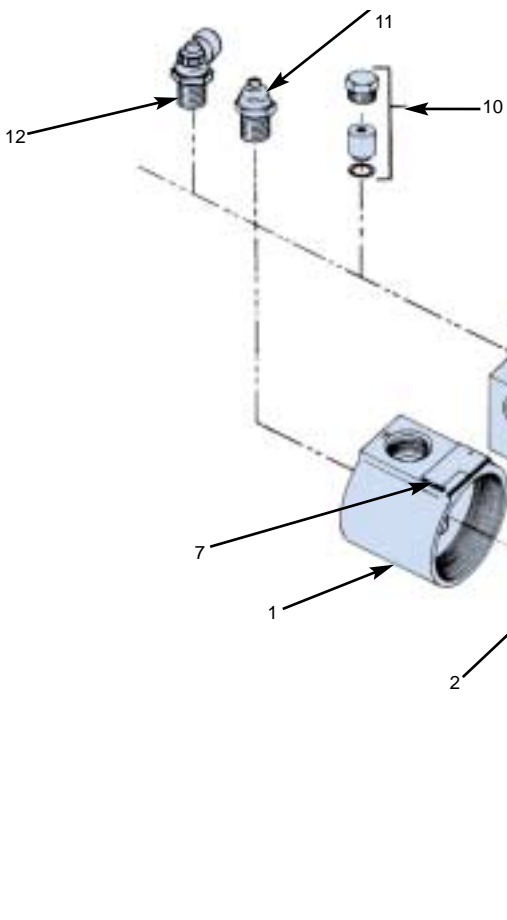


**Visual Indicator
CODE M2**



Option	Description	Rating Bar	Connections	Diagram	Part Number
M2	Visual Auto Reset	3.4	N/A	N/A	932027
E2	Visual/Electrical Auto Reset	3.4	28VDC/ 28VAC MAX	1 – Common 2 – Normally Closed 3 – Normally Open	929599

Note: For full indicator specifications see Section 6.



INDEX	DESCRIPTION	15P	30P
1	Head		
2	Bypass Assembly		
3	Element	See chart on model code page	
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	Visual Auto reset Indicator	933124	933124
12	Visual/Electrical Indicator	929599	929599

High Pressure Filters

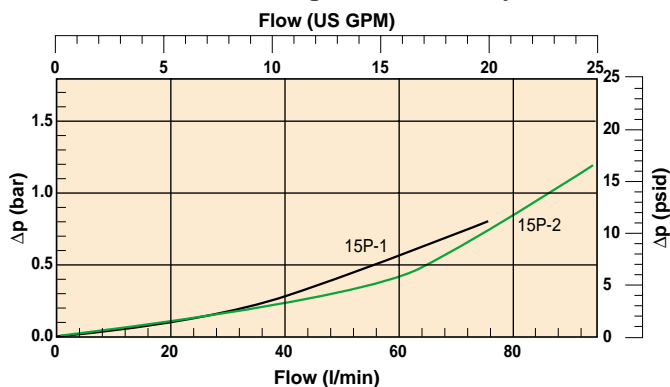
15P/30P Series

PRESSURE DROP CURVES

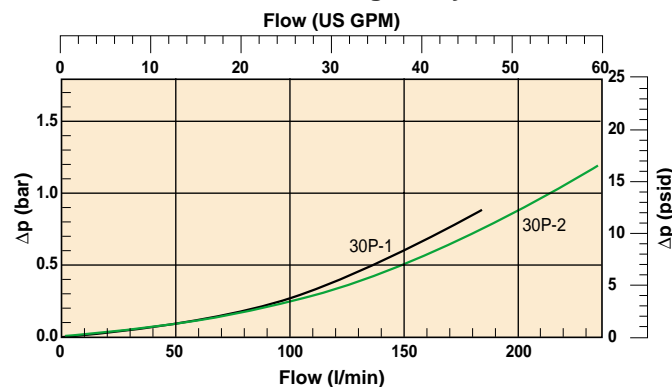
If the medium used has a viscosity different from 30 cSt, pressure drop over the filter can be estimated as follows :-

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

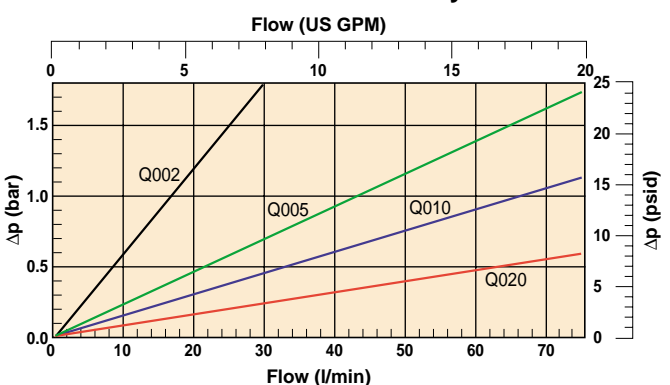
15P Housings Element Only



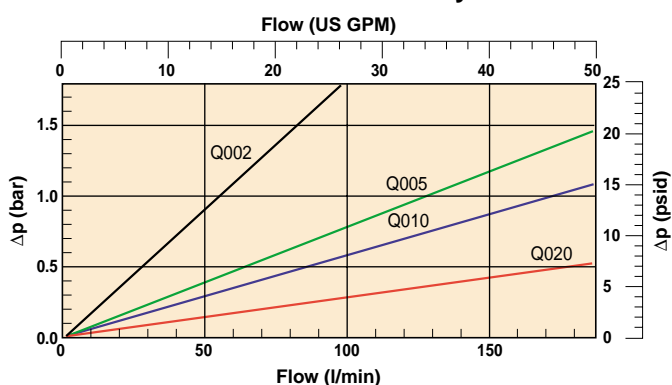
30P Housings Only



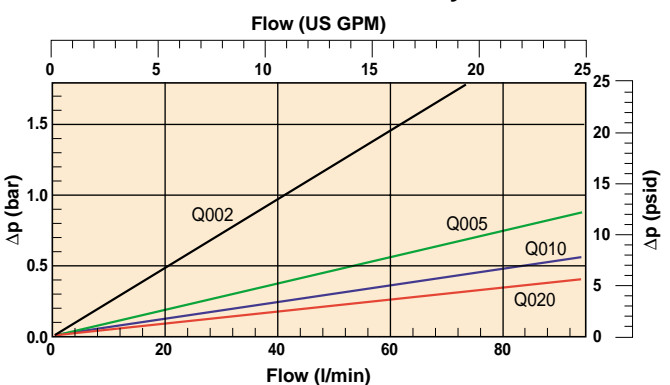
15P-1 Element Only



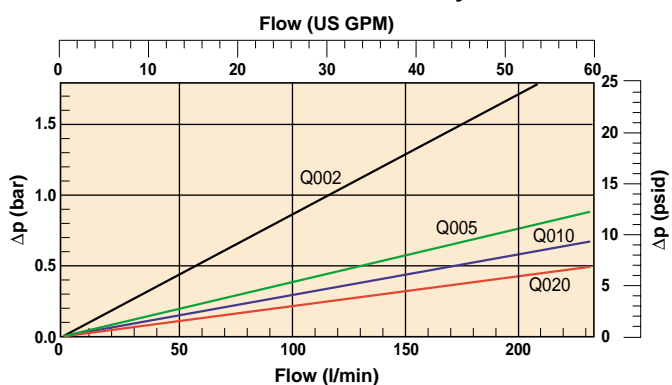
30P-1 Element Only



15P-2 Element Only



30P-2 Element Only



ORDERING INFORMATION

The following filters are supplied with 3.5 bar bypass and Nitrile seals.

Part Number (Visual Indicator)	Part Number (Visual/Electrical Indicator)	Flow (l/min)	Media Rating	Ports	Replacement Elements
15P-1-05Q-M2-50-B2B2-1	15P-1-05Q-E2-50-B2B2-1	40	05Q	G ³ / ₄ Thread	G04041Q
15P-1-10Q-M2-50-B2B2-1	15P-1-10Q-E2-50-B2B2-1	50	10Q		928934Q
15P-2-10Q-M2-50-B2B2-1	15P-2-10Q-E2-50-B2B2-1	70	10Q		928952Q
30P-1-05Q-M2-50-C2C2-1	30P-1-05Q-E2-50-C2C2-1	100	05Q	G1 Thread	G02721Q
30P-1-10Q-M2-50-C2C2-1	30P-1-10Q-E2-50-C2C2-1	115	10Q		G01281Q
30P-2-10Q-M2-50-C2C2-1	30P-2-10Q-E2-50-C2C2-1	130	10Q		G01938Q

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

PART NUMBER MATRIX

Select the desired symbol (in the correct position) to construct a model code.

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9
F3	30P	1	10Q	M2	50	B2B2	19	Assigned by Parker

Box 1

Seals	
Description	SYMBOL
Nitrile (Buna N)	None
Fluoroelastomer	F3

Box 2

Basic Assembly	
Description	SYMBOL
Pressure Filter	15P
Pressure Filter	30P

Box 3

Length	
Description	SYMBOL
Single	1
Double	2

Box 5

Indicator	
Description	SYMBOL
None	N
Plugged	P
Visual	M2
FPC Visual (Auto reset)	V3
Electrical Switch	E2
FPC Electric	T3
FPC Electronic L.E.D.	F3

Box 4

Degree of Filtration						
Average filtration ratio β (ISO 16889) / particle size μm(c)						CODE
2	10	75	100	200	1000	
N/A	N/A	N/A	N/A	N/A	4.5	02Q
N/A	N/A	4.5	5	6	7	05Q
N/A	6	8.5	9	10	12	10Q
6	11	17	18	20	22	20Q

Box 6

Bypass or Indicator Setting	
Pressure Setting	SYMBOL
3.4 bar	50

Box 7

Ports		
Description	MODEL	SYMBOL
G3/4 Thread	15P	B2B2
M27 ISO6149		B3B3
G1 Thread	30P	C2C2
M33 ISO 6149		C3C3

Box 8

Options	
Description	CODE
None	1
SAE-5 drain port on bowl	19

Box 9

Design Number
Applied to filter assembly by Parker Filtration. Use the full filter model code, including the design number when ordering replacement parts, elements and cartridges.

Replacement Elements				
Filter Model				
Media	15P-1	15P-2	30P-1	30P-2
20Q	928935Q	928953Q	G01285Q	G01316Q
10Q	G04041Q	G04169Q	G02721Q	G02724Q
05Q	928934Q	928952Q	G01281Q	G01315Q
02Q	930367Q	930368Q	G01930Q	G01938Q