QF5 Series

In-Line Filter

500 psi • up to 300 gpm

Model No. of filter in photograph is QF539QZ10P32.

For applications requiring higher flow rates of 300 to 600 gpm, or increased contamination holding capacity for flow rates of up to 300 gpm, please contact the factory regarding the 2QF5 solution.

Description

A versatile, base ported high flow particulate filter housing for use with diesel fuel. The QF5 can be configured in a single housing assembly to support 300 gpm of flow, or expand the capacity by choosing the 2QF5 assembly configured in parallel.

Features

- Element changeout from the top minimizes fuel spillage
- For fuel filtration applications, the ECOmicron® is chosen as standard with FKM seals.
- Offered in pipe, SAE straight thread, and flange porting
- Optional inlet and outlet test points
- Various element service indicator options

Applications

- Industrial
- Automotive manufacturing
- Machine tool
- Steel making
- Mining technology
- Power generation
- Pulp & paper
- Bulk fuel filtration

Technical Specifications

Flow Rating	Up to 300 gpm (1135 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure	500 psi (35 bar)
Min. Yield Pressure	2500 psi (172 bar), per NFPA T2.6.1-R1-2005
Rated Fatigue Pressure	Contact Factory
Temperature Range	-20°F to 212°F (-29°C to 100°C)
Bypass Setting	Cracking: 30 psi (2.1 bar) Full Flow: 55 psi (3.8 bar)
Porting Head Element Case	Cast Aluminum Steel
Cap:	Ductile Iron
Weight of QF539	185 lbs. (84 kg)
Element Change Clearance	39Q 33.8” (859 mm)

PN#2208201 / 08.18 / FFD1702-1879

Model Code

QF5 – 39 – Q – 03 V P32 – __ – VM

Filter Series
QF5 = In-Line Filter

Element Length (in)
39

Element Style
Q

Micron Rating
03 = 3 µm ECOmicron®
05 = 5 µm ECOmicron®
10 = 10 µm ECOmicron®

Housing Seal Material
Omit = Buna N
V = Fluorocarbon elastomer (FKM)

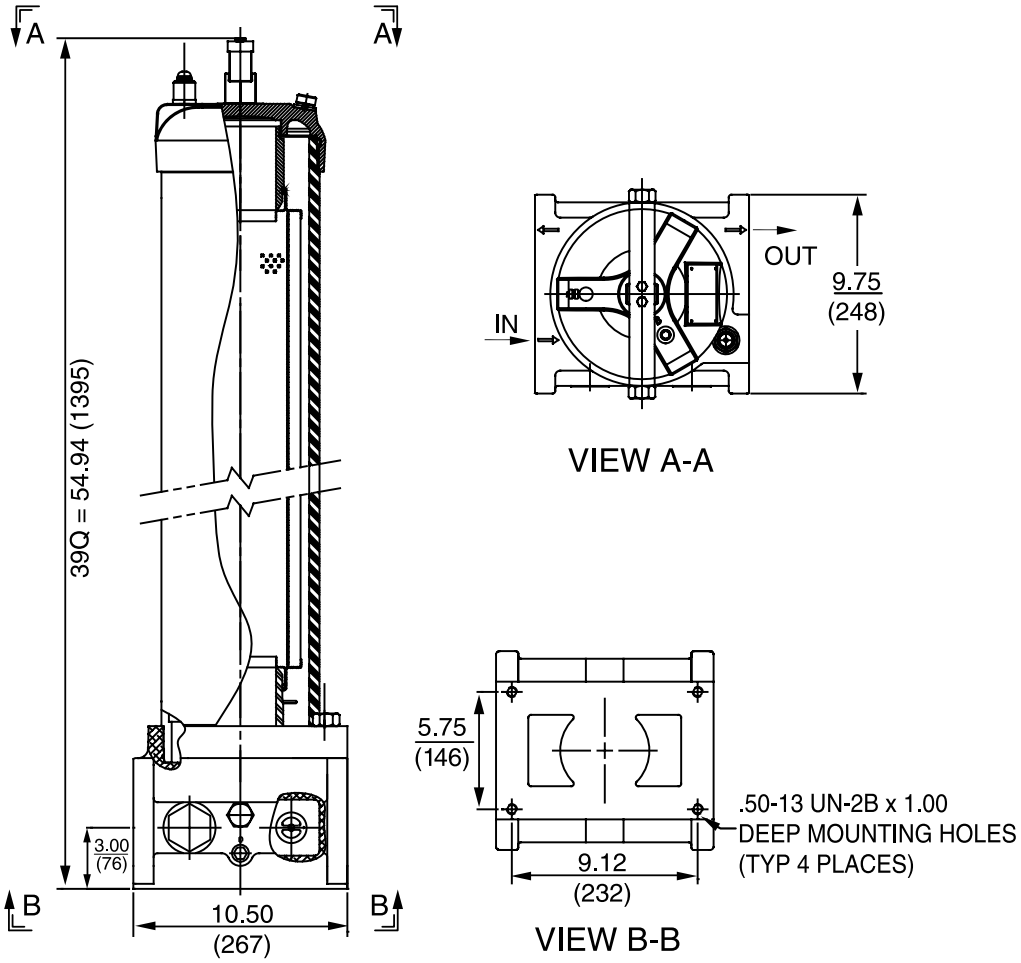
Porting
P32 = 2” NPTF
P40 = 2 1/2” NPTF
P48 = 3” NPTF
S32 = SAE -32 o-ring boss
F32 = -32 (2”) SAE 4-bold flange Code 61
F40 = -40 (2 1/2”) SAE 4-bolt flange Code 61
F48 = -48 (3”) SAE 4-bolt flange Code 61

Bypass Setting
Omit = 30 psi cracking

Differential Pressure Clogging Indicator Options
Omit = None
VM = Visual pop-up, manual reset

*for electrical indicators, contact factory

Dimensions
QF5



Element Performance Information

Element		Filtration Ratio Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Filtration Ratio per ISO 16889 Using APC calibrated per ISO 11171	
		ßx ≥ 75	ßx ≥ 100	ßx ≥ 200	ßx(c) ≥ 200	ßx(c) ≥ 1000
39Q	03	<1.0	<1.0	<2.0	<4.0	4.8
	05	2.5	3.0	4.0	4.8	6.3
	10	7.4	8.2	10.0	8.0	10.0

Dirt Holding Capacity

	Element	DHC (gm)
39Q	03	1293
	05	1302
	10	1214

Element Collapse Rating: ECOmicron: 145 psid (10 bar)
Flow Direction: Outside In

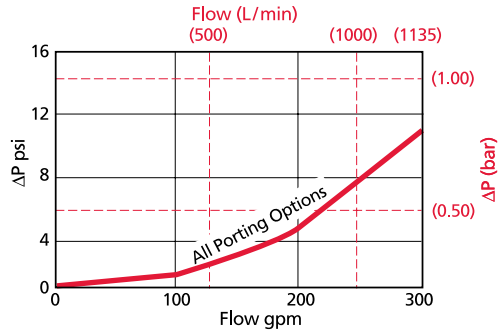
Element Nominal Dimensions: Q: 6.0" (150 mm) O.D. x 40.0" (1016 mm) long

Dimensions shown are inches (millimeters) and for general information only. For complete dimensions please contact HYDAC to request a certified print.

Fluid Compatibility

Compatible Fluid Types
Diesel Fuel
Biodiesel (with FKM seals)

Housing Pressure Drop QF5



sp gr = specific gravity

Sizing of elements should be based on element flow information provided in the Element Selection chart above.

$\Delta P_{element}$= flow x element ΔP factor x viscosity factor

El. ΔP factors @ 150 SUS (32 cSt):

16QCLQFZ3	.05	Q03	.02
16QCLQFZ5	.05	Q05	.02
16QCLQFZ10	.04	Q10	.01

If working in units of bars & L/min, divide above factor by 54.9.

Viscosity factor: Divide viscosity by 150 SUS (32 cSt).