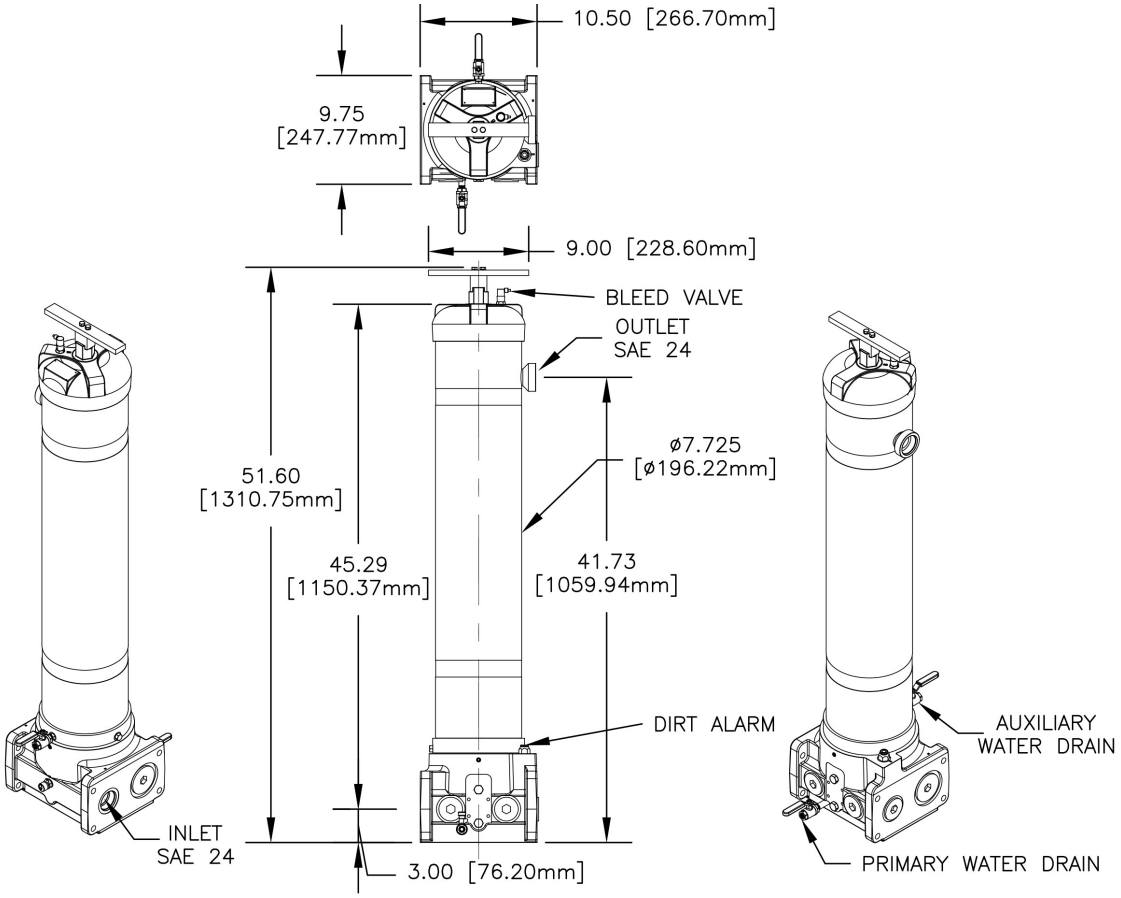
Platform Extra Capacity Fuel Coalescer

PXC 70



Model	GPM	Micron Rating
PXC 70	70	5

70 gpm
265 lpm
100 psi
7 bar

Features and Benefits

- A revolutionary element designed for the highest single-pass water and particulate removal efficiencies in today's ultra-low sulfur diesel (ULSD) fluids
- Protects expensive Tier 3 and Tier 4 engine components against failures caused by particulate and water transferred from the bulk fuels tanks to the vehicle
- Allows users to achieve or exceed the particulate and water removal specifications of the injection system OEMs
- Previously acceptable industry standard products no longer provide the high-efficiency separation needed in today's ULSD fluids

Element Coalescing Performance Information **Element Sold with Housing**

Coalescing Element	Pressure Side Coalescing	
	Max Flow	Single Pass Water Removal Efficiency
E-XCE-5	70 gpm	≥ 99.5%

Flow Direction: Inside Out

Element Nominal Dimensions: 6.4" (163 mm) O.D. x 39.4" (1001 mm) long

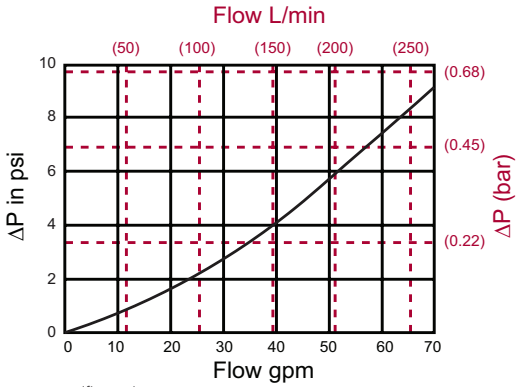
Filter Housing Specifications

Flow Rating:	70 gpm (265 L/min)
Inlet/Outlet Connection:	SAE 24
Drain Connection Upper:	1/4" NPT Ball Valve
Drain Connection Lower:	1/4" NPT Ball Valve
Max. Operating Pressure:	100 psi (7 bar); 45 psi (3 bar) with water sight gauge
Min. Yield Pressure:	400 psi (27.6 bar) without sight gauge
Rated Fatigue Pressure:	Contact Factory
Temperature range:	-20°F to 165°F (-29°C to 74°C) Standard 32°F to 165°F (0°C to 74°C) with optional sight gauge
Bypass Indication:	25 psi (1.7 bar)
Bypass Valve Cracking:	30 psi (2 bar)
Materials of Construction:	Porting Base: Anodized Aluminum Element Bowl: Epoxy Paint w/ High-phos Electroless Nickel Plating (Standard) Cap: Nickel Coated Ductile Iron
Weight:	155 Lbs. (77 kg)
Element Model:	E-XCE-5
Element Change Clearance:	33.8" (858 mm)

Pressure Drop Information **Based on Flow Rate and Viscosity**

$\Delta P_{housing}$

PXC 70 $\Delta P_{housing}$ for fluids with sp gr= 0.86



sp gr = specific gravity

$\Delta P_{element}$

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

El. ΔP factors @ 37 SUS (3 cSt).
E-XCE-5 = .17

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

Viscosity factor: Divide viscosity by 37 SUS (3 cSt).

$\Delta P_{filter} = \Delta P_{housing} + \Delta P_{element}$

Exercise: Determine ΔP at 70 gpm (265 L/min) for PXC 70

Solution:

$\Delta P_{housing}$ = 9.2 psi = [0.63 bar]

$\Delta P_{element}$ = 70 x 0.17 = 11.9 psi [.82 bar]

ΔP_{total}= 9.2 + 11.9 = 21.1 psi [1.46 bar]