

# FD-1 Pressure Line Series

<b>Filter Head</b>	<b>Specifications</b>		
<b>Description:</b>	In line high pressure filter assembly with cleanable or throw away elements.		
<b>Max Flow rate:</b>	105.5 gpm (400 lt/min)		
<b>Pressures</b>	<b>Per Intl Standard</b>	<b>PSI</b>	<b>Bar</b>
<b>Max Working</b>	NFPA T 2.6.1-1974	6091.5	420
<b>Test</b>	NFPA T 2.6.1-1974	8702.3	600
<b>Burst</b>	NFPA T 2.6.1-1974	18274.8	1260
<b>Av. Port Connections</b>	NPT, BSP, SAE J518, SAE J514b		
<b>Av. By-Pass</b>	None / 87 psi (6 bar) setting		
<b>Indicator:</b>	Differential visual & differential electrical visual		
<b>Indicator (av settings):</b>	72 psi (5 bar) & 116 psi (8 bar)		
<b>Working Temperature:</b>	-22°F to +194°F -30°C to +90°C		
<b>Materials</b>	Head - Cast Iron Bowl - Extruded Steel Seal - (av)		
	<b>Buna-N</b>	compatible as per ISO 2943 with mineral oil (HH-HL-HM-HR-HV-HG) & water oil emulsion (HFAE-HFAS)	
	<b>Viton</b>	compatible as per ISO 2943 with synthetic fluid (HS-HFDR-HFDU-HFDS)	
<b>Filter Element</b>	<b>Media</b>	<b>Micron Available</b>	
<b>Filter Media</b>	Microglass Fiber Cellulose Wire Mesh	3, 6, 10, 25 10, 25 10, 25	
<b>Collapse Pressure</b>	as per ISO 2941 - 305 psi (21 bar), and 3045 psi (210 bar)		

## Ordering Information -

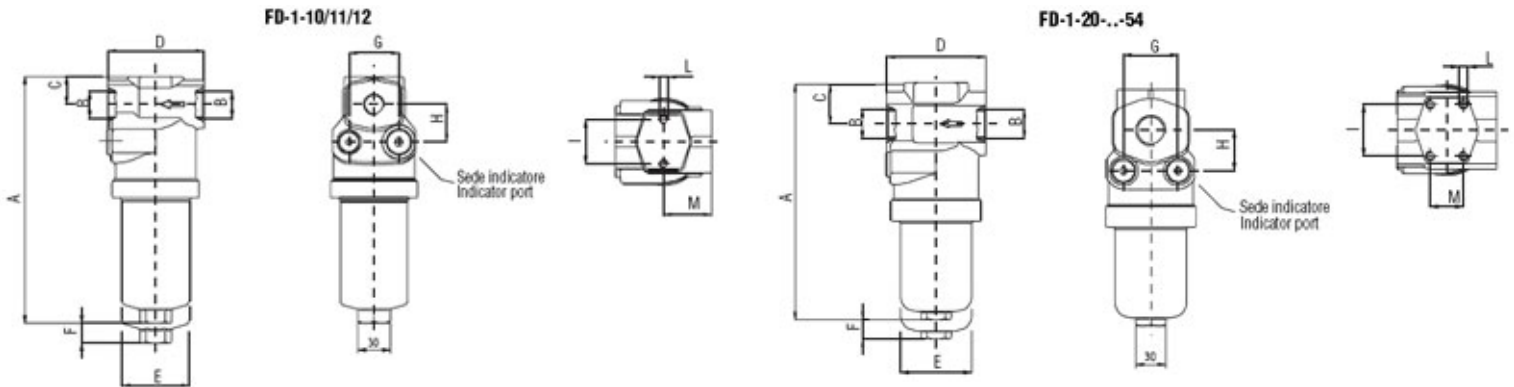
1) Series	2) Rating	3) Collapse	5) Conn Type	(bolt)	(bolt)	(bolt)
FD-1-10	C10	A - 305 psi / 21 bar		D11	D12,3	D14,5
FD-1-11	C25	B - 3045 psi / 210 bar	B = BSP	M8	M10	M12
FD-1-12	G03		N = NPT	5/16-18	3/8-16	1/2-13
FD-1-20	G06	<b>4) Seal</b>	F.M = SAE J518-3000		M12	M12
FD-1-21	G10	--- (Buna-N)	F.U = SAE J518-6000		3/8-16	1/2-13
FD-1-30	G25	V (Viton)	H.M = SAE J518-6000		M12	M12
FD-1-31	T10		H.U = SAE J518-6000		3/8-16	1/2-13
FD-1-40	T25		R = SAE J514b	5/16-18	3/8-16	1/2-13
FD-1-41				US -- UNC-2B		
FD-1-42						
FD-1-43	<b>5b) Size</b>	<b>6) By-Pass</b>	<b>7) Indicator</b>			
FD-1-50	3 = 0.5"	0 = Without	0 = Without			
FD-1-51	4 = .75"	D = 87 psi (6 bar)	Z3-(72 psi/5 bar) diff visual switch			
FD-1-52	5 = 1.0"		Z4-(72 psi/5 bar) diff electric visual			
FD-1-53	6 = 1.25"		Z5-(116 psi/8 bar) diff visual switch			
FD-1-54	7 = 1.50"		Z6-(116 psi/8 bar) diff electric visual			

Housing Assembly = FD-1-\* (1-7) – example: FD110G10A-B30Z3  
 Element = D-1-\* (1-4) – example: D110G10A



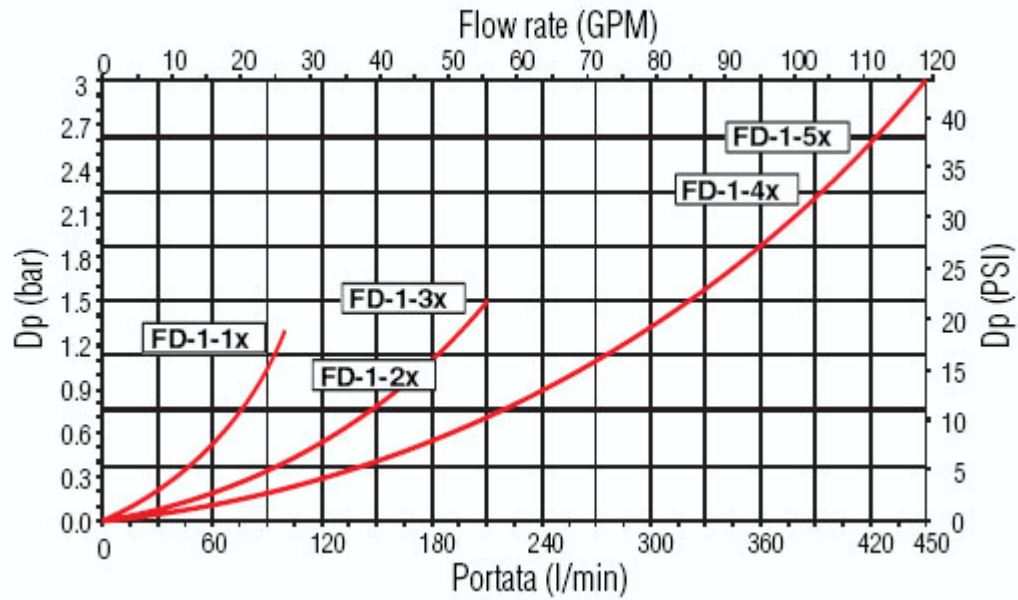
**(Table 1) Typical GPM & Available Connection Ports**

	GPM (A) HGT		NPT BSP NPT BSP NPT BSP NPT BSP												SAE J518			SAE J514B			
	G10-30psi	(in) (mm)	0.50	0.50	0.75	0.75	1.00	1.00	1.25	1.25	1.50	1.50	0.75	1.00	1.25	1.50	0.75	1.06	1.31	1.62	1.87
FD-1-10	15	7.87	200	x	x	x	x											x	x		
FD-1-11	30	8.90	226	x	x	x	x											x	x		
FD-1-12	60	12.72	323	x	x	x	x										x	x			
FD-1-20	60	9.92	252	x	x	x	x						x	x				x	x		
FD-1-21	130	14.17	360	x	x	x	x						x	x				x	x		
FD-1-30	60	9.92	252	x	x	x	x						x	x				x	x		
FD-1-31	130	14.17	360	x	x	x	x						x	x				x	x		
FD-1-40	95	10.87	276					x	x	x	x	x	x			x	x			x	x
FD-1-41	310	15.75	400					x	x	x	x	x	x			x	x			x	x
FD-1-42	350	21.50	546					x	x	x	x	x	x			x	x			x	x
FD-1-43	400	26.97	685					x	x	x	x	x	x			x	x			x	x
FD-1-50	95	10.87	276					x	x	x	x	x	x			x	x			x	x
FD-1-51	310	15.75	400					x	x	x	x	x	x			x	x			x	x
FD-1-52	350	21.50	546					x	x	x	x	x	x			x	x			x	x
FD-1-53	400	26.97	685					x	x	x	x	x	x			x	x			x	x
FD-1-54	100	12.05	306					x	x	x	x	x	x			x	x			x	x



GPM Given	(A) Height		(B) Conn Size	(C) Port to Ind		(D) Top OD		(E) Base OD		(F) Rem Room		(G) Indic. Port to Port		(H) Indic. Port to Conn		(I) Bolt to Bolt		(L) Bolt Size	(M) Bolt to Bolt/Out	
	(in)	(mm)		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		(in)	(mm)
FD-1-10	15	7.87	200	1.06	27	3.94	100	2.76	70	3.74	95	2.05	52	1.54	39	1.81	46	Ordering#5	1.97	50
FD-1-11	30	8.90	226	1.06	27	3.94	100	2.76	70	3.74	95	2.05	52	1.54	39	1.81	46		1.97	50
FD-1-12	60	12.72	323	1.06	27	3.94	100	2.76	70	3.74	95	2.05	52	1.54	39	1.81	46		1.97	50
FD-1-20	60	9.92	252	1.54	39	4.33	110	3.09	78.5	3.94	100	2.36	60	1.77	45	2.24	57		1.46	37
FD-1-21	130	14.17	360	1.54	39	4.33	110	3.09	78.5	3.94	100	2.36	60	1.77	45	2.24	57		1.46	37
FD-1-30	60	9.92	252	1.54	39	5.51	140	4.13	105	3.94	100	2.36	60	1.77	45	2.24	57		1.46	37
FD-1-31	130	14.17	360	1.54	39	5.51	140	4.13	105	3.94	100	2.36	60	1.77	45	2.24	57		1.46	37
FD-1-40	95	10.87	276	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-41	310	15.75	400	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-42	350	21.50	546	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-43	400	26.97	685	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-50	95	10.87	276	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-51	310	15.75	400	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-52	350	21.50	546	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-53	400	26.97	685	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64
FD-1-54	100	12.05	306	1.85	47	5.51	140	4.13	105	4.13	105	2.76	70	2.28	58	2.99	76		2.52	64

Pressure Drop Charts as per ISO 3968, class B. 30 Cst viscosity mineral oil.  
**HOUSING FLOW CHART**



Additional Pressure Drop curves available on our website for each element.