FEATURES

The in line pressure filter W341 is ideal for charge pump and pressure line applications. The all aluminum housing has a rated fatigue value of 1500 psi. Western Filter's proprietary BetaPore™ 5 layer media is offered in a variety of Pak™ designs. Four media grades are offered down to 5.1µ(c). WF elements core collapse options range from 150 to 3000 PSI. The differential pressure indicator line is designed to work with a wide assortment of bypass valves. Thermal lockout and surge control are two key features incorporated in many of the valves.

The W341 Western Filter elements (W305 series) are compatible with petroleum oils, water glycol, oil/water, HWCF, synthetic fluids and are inter-changeable with Schroeder N and NN series elements.

Technical Data:

Maximum Working Pressure	3000 psi (207 bar)
Fatigue Pressure Rating	1500 psi max (103 bar)
Typical Burst Pressure	7500 psi max (517 bar)
Temperature Range	Operating
Buna N	-45°F to + 225°F (-43°C to + 107°C)
Viton	-20°F to + 250°F (-29°C to + 121°C)
Head and Bowl Material	Aluminum
Weight (without elements)	
Assembly length 1 5.3 lbs.	(2,4 kg.)
Assembly length 2 5.7 lbs.	(2,6 kg.)

W341

20 gpm (76 l/min)

Positive sealing poppet type bypass for reliability and zero leakage

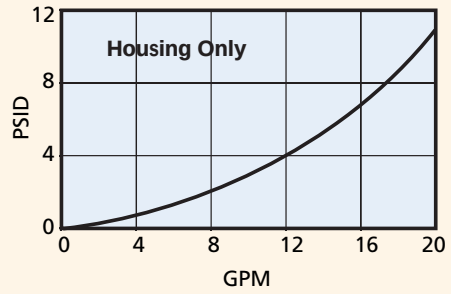
Wide range of indicator options

High collapse H-Pak™ element available for use with non-bypass applications

ACCESSORIES

Seal Kit -Buna N	P-238968-01
Seal Kit -E.P.R.	P-238968-02
Seal Kit -Viton	P-238968-03

Housing and Filter Element
Flow versus Pressure Drop
150 SUS (32 cSt.) oil with specific gravity ≤ 0.9

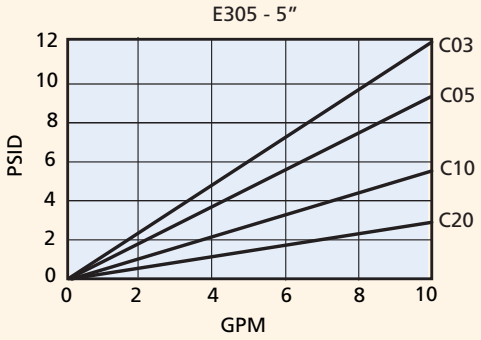


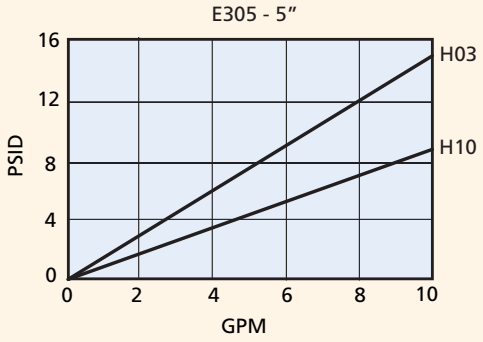
Viscosity Correction Formula

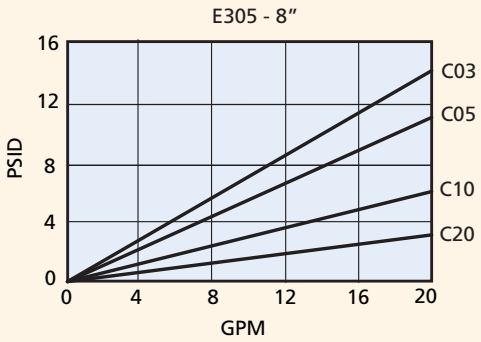
ΔP Element = psid from catalog X $\frac{\text{New Viscosity (SUS)}}{150}$ X $\frac{\text{New Specific Gravity}}{0.90}$

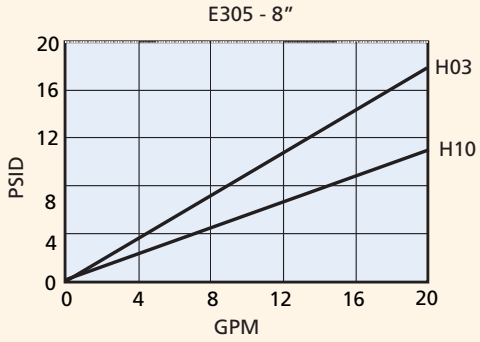
ΔP Housing = psid from catalog X $\frac{\text{New Specific Gravity}}{0.90}$

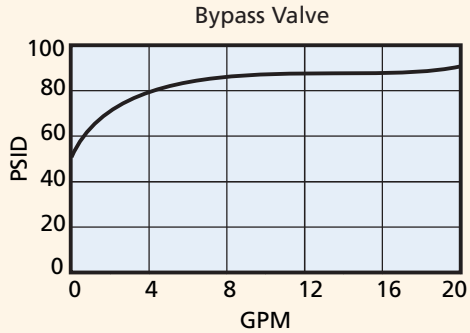
ΔP Assembly = ΔP Element + ΔP Housing











Filter Assembly	W341	1	A	4	M | N	B	1	C	10
	TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8	TABLE 9
Service Element	E305	1	B	1	C	10			
	TABLE 1	TABLE 2	TABLE 6	TABLE 7	TABLE 8	TABLE 9			

Order model code W3411A4LNB2C10 for same day shipment.

Table 1

Filter Assembly / Service Element	
CODE	DESCRIPTION
W341	Assembly
E305	Element

Table 2

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid for housing w/bypass valve
4	3000 psid for housing without bypass valve (H-Pak™ only)

Table 3

Port Size Options	
CODE	PORT SIZE
A	1-1/16" - 12 UN (SAE 12)

Table 4

Bypass Setting Options	
CODE	BYPASS SETTING
1	Non-bypass
4	50 psid

Table 5 (Primary)

Upstream Pressure Gauge and Switch Option	
CODE	ΔP INDICATOR STYLE & SETTING
D	Electrical/visual 35 ± 5 psid
E	Electrical/visual 100 ± 12 psid
G	Electrical/visual 35 ± 5 psid w/TL
J	No indicator
L	Visual indicator 35 ± 5 psid
M	Visual indicator 35 ± 5 psid w/ TL and surge
N	Electrical/visual 35 ± 5 psid w/12" 3 wire flying lead
O	Visual indicator 100 ± 12 psid
P	Visual indicator 100 ± 12 psid w/ TL and surge
R	Electrical switch 35 ± 5 psid
S	Electrical/visual 100 ± 12 psid w/12" 3 wire flying lead
T	Electrical switch 100 ± 12 psid
W	Electrical/visual 100 ± 12 psid w/TL
Y	Electrical/visual 35 ± 5 psid w/TL and surge
Z	Electrical/visual 100 ± 12 psid w/TL and surge

TL (thermal lockout)

Table 5 (Secondary)

Receptacle Options	
CODE	ELECTRICAL STYLE
B	Brad Harrison (5-pin)
H	Hirschmann (4-pin)
N	None, for visual ΔP

Table 6

Seal Options	
CODE	MATERIAL
B	Buna N
E	E.P.R.
V	Viton

Table 7

Assembly & Element Length	
CODE (LGTH)	ELEMENT LENGTH
1 (7.28")	5.25"
2 (10.03")	8.00"

Table 8

Element Code	
CODE	DESCRIPTION
C	(Glass) 03, 05, 10, 20
H	(Glass) 03, 10

Table 9

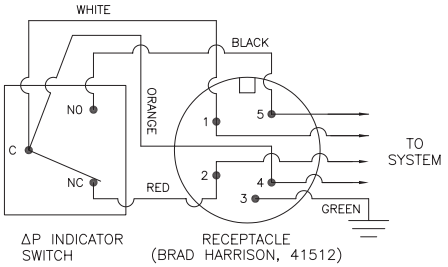
Media Rating	
CODE	TARGET FLUID CLEANLINESS LEVEL
03	16/14/12 or better
05	18/16/14 or better
10	20/18/15 or better
20	22/19/16 or better

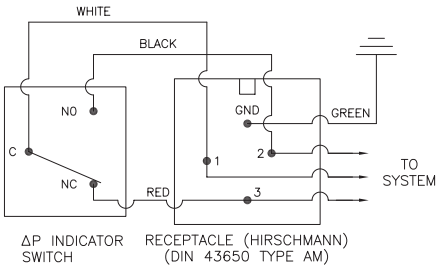
Note: Information concerning fluid cleanliness codes is on page 6, the Media Grade Selection Guide.

Metric Porting Available
Change W341 to G341
Porting code A becomes G-3/4" ISO 228 BSPP

Indicator Switch Schematic Wiring Diagram

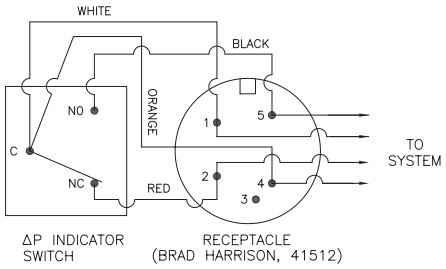
Aluminum Electrical Housings

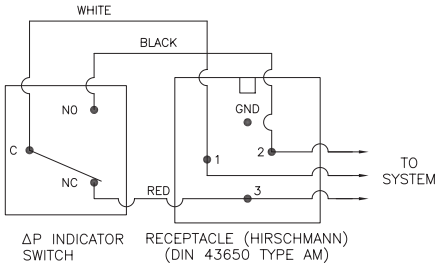




Note: The female plug (connector) is to be furnished by customer.

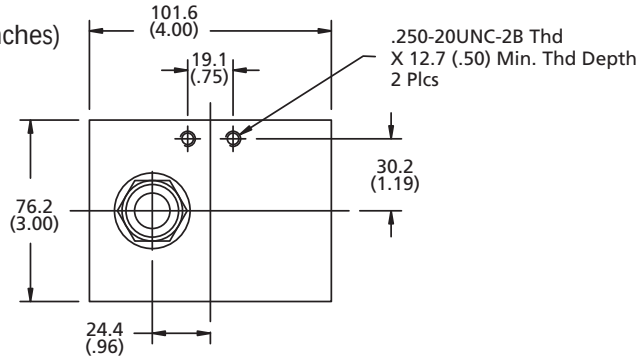
Plastic Electrical Housings

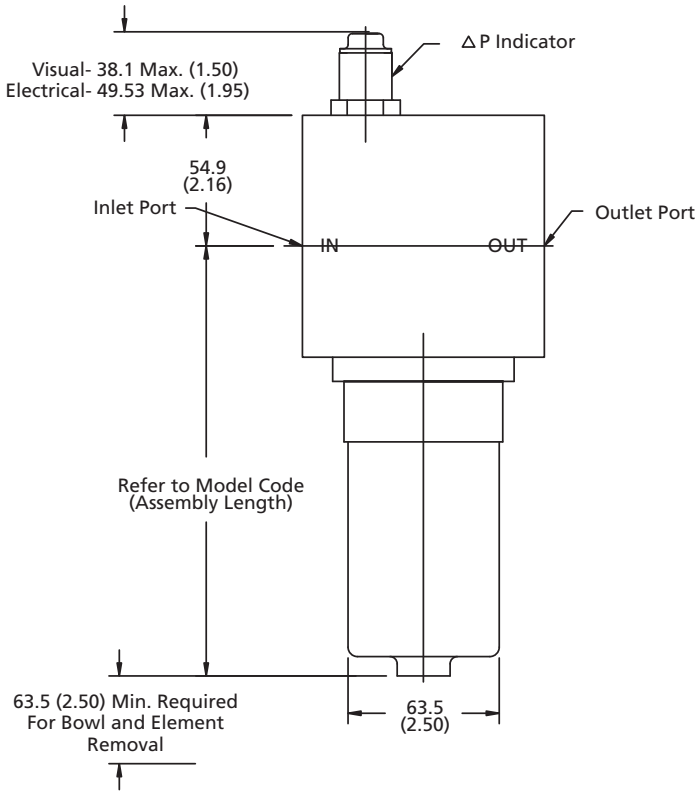




Note: The female plug (connector) is to be furnished by customer.

Dimensions: millimeters/(inches)





Differential Indicators:
Indicators are designed to actuate at approximately 80% of bypass valve cracking pressure. It is recommended that an indicator with a bypass setting of 100 psid is used with a non-bypass housing.

Surge Control:
This optional feature is used to dampen pressure surges or spikes to avoid premature actuation of the indicator. Surge control delays the indicator response.

Thermal Lockout:
The Thermal Lockout prevents premature signaling of a bypass condition created by viscous fluid during cold start-ups. Normal indicator actuation capability is resumed once the operating temperature of the fluid reaches approximately 80 Deg. F.