FEATURES

Use our W613 T-Type port arrangement as an alternative to our popular L-Type porting. These units are offered with the same bowl, element and indicators used in our W610 and WS610 series filters. Western Filter's proprietary BetaPore™ 5 layer media is offered in a variety of Pak™ designs. Three 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 the wide assortment of bypass valves. Thermal lockout and surge control are two key features incorporated in many of the valves.

Western Filter elements are compatible with petroleum oils, water glycol, oil/water, HWCF and synthetic fluids.

W613

35 gpm (132 l/min)

Replacement elements available for H-Pak™ and C-Pak™

Optional bracket

Wide range of indicator options

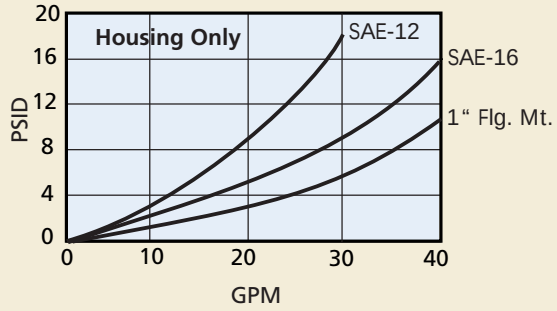
Technical Data:

Maximum Working Pressure	6500 psi (448 bar)
Fatigue Pressure Rating	3250 psi max (224 bar)
Typical Burst Pressure	20000 psi max (1380 bar)
Temperature Range	Operating
Buna N	-45ºF to + 225ºF (-43ºC to + 107ºC)
Viton	-20ºF to + 250ºF (-29ºC to + 121ºC)
Head Material	Cast Iron
Bowl Material	Steel
Weight (without elements)	
Assembly length 1 19.4 lbs.	(8,8 kg.)
Assembly length 2 21.5 lbs.	(9,8 kg.)

ACCESSORIES

Seal Kit -Buna N	P-238970-01
Seal Kit -E.P.R.	P-238970-02
Seal Kit -Viton	P-238970-03
Mounting Bracket	P-426225-01

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

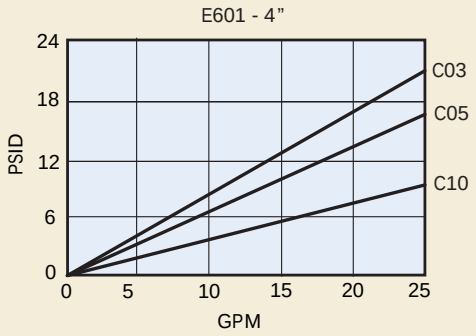


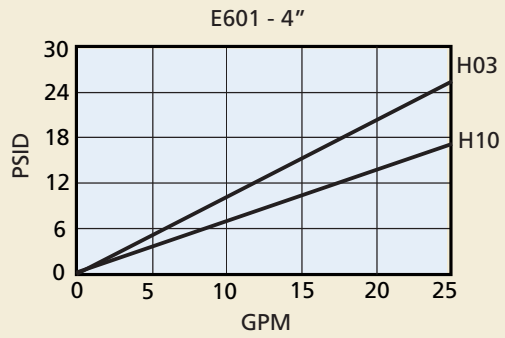
Viscosity Correction Formula

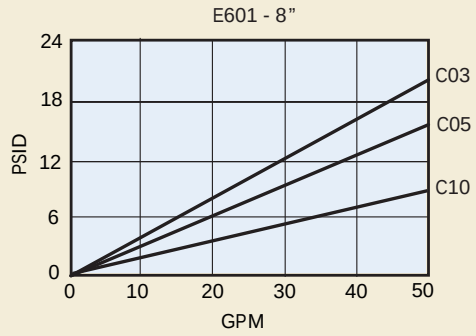
ΔP Element = psid from catalog X $\frac{\text{New Viscosity (SUS)}}{150}$ X $\frac{\text{New Specific Gravity}}{0.90}$

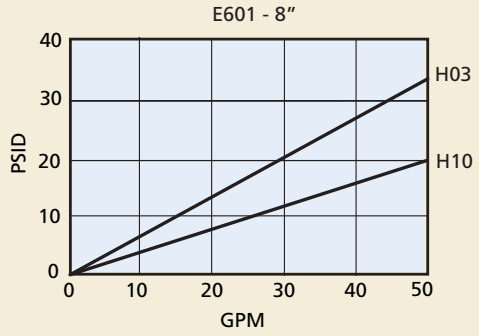
ΔP Housing = psid from catalog X $\frac{\text{New Specific Gravity}}{0.90}$

ΔP Assembly = ΔP Element + ΔP Housing









Filter Assembly	W613	1	B	4	M | N	B	2	C	10
	TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8	TABLE 9
Service Element	E601	1	B	2	C	10			
	TABLE 1	TABLE 2	TABLE 6	TABLE 7	TABLE 8	TABLE 9			

Order model code W6131B4MNB2C10 for same day shipment.

Table 1

Filter Assembly / Service Element	
CODE	DESCRIPTION
W613	Assembly
E601	Element

Table 2

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid for housing w/bypass valve
4	3000 psi for housing w/o bypass valve (H-Pak™ only)

Table 3

Port Size Options	
CODE	PORT SIZE
A	1-1/16” - 12 UN (SAE 12)
B	1-5/16” - 12 UN (SAE 16)
F	1” SAE 4 Bolt Flange Code 61
M	1” SAE 4 Bolt Flange Code 62

Table 4

Bypass Setting Options	
CODE	BYPASS SETTING
1	Non-bypass
4	50 psid
6	90 psid

Note: Use option 1 code only with 3000 psid collapse filter element.

Table 5 (Primary)

Indicator Style and Setting	
CODE	ΔP INDICATOR STYLE & SETTING
A	Visual indicator 70 ± 10 psid w/TL and surge
B	Electrical/visual 70 ± 10 psid w/TL and surge
D	Electrical/visual 35 ± 5 psid
E	Electrical/visual 100 ± 12 psid
G	Electrical/visual 35 ± 5 psid w/TL
I	Visual indicator 70 ± 10 psid
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
U	Electrical switch 70 ± 10 psid
V	Electrical/visual 70 ± 10 psid w/TL
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 (8.10”)	4.0”
2 (11.75”)	8.0”
4 (18.2”)	13.0”

Table 8

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

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

Metric Porting Available

Change W613 to G613

Porting code A becomes 3/4” ISO 228 BSPP

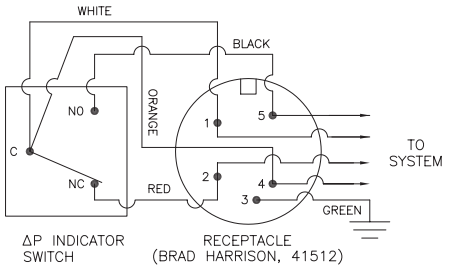
Porting code B becomes 1” ISO 228 BSPP

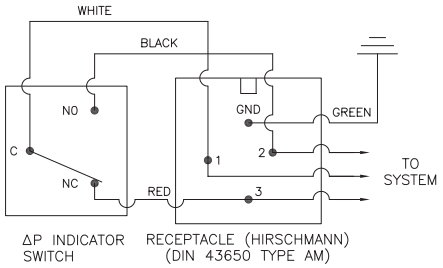
Porting code F becomes 1” SAE 4 bolt flange with M10 mounting threads

Porting code M becomes 1” SAE 4 bolt flange with M12 mounting threads

Indicator Switch Schematic Wiring Diagram

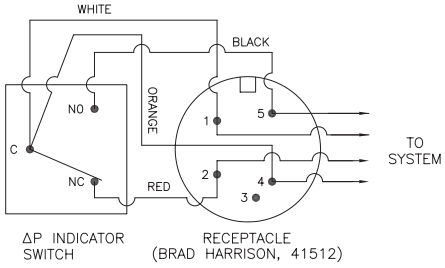
Aluminum Electrical Housings

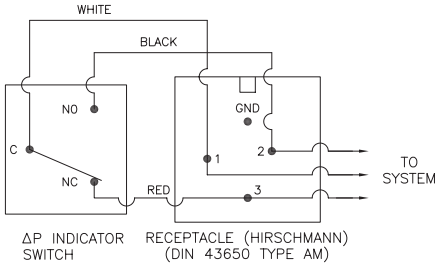




Note: The female plug (connector) is to be furnished by customer.

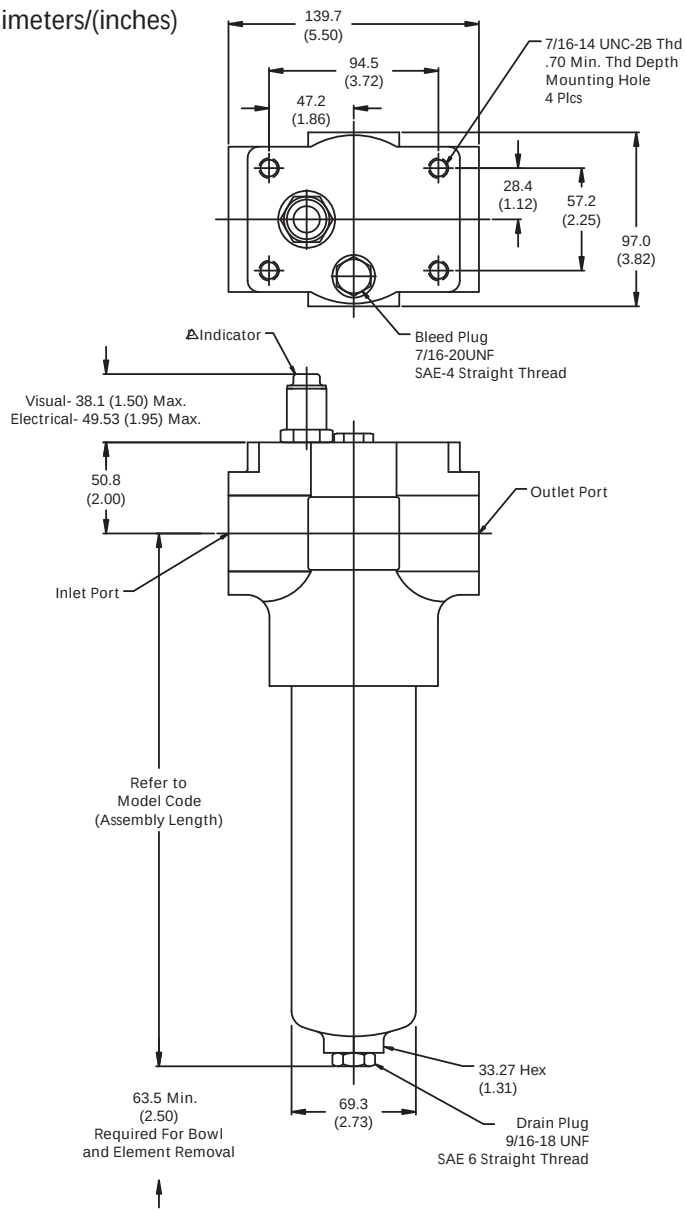
Plastic Electrical Housings





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.