

## FEATURES

Filter assembly W033 meets the HF4 automotive standard and contains our popular E4051 series element which is offered throughout the product line. The W033 filters feature a heavy duty steel canister with an aluminum head. Western Filter's proprietary BetaPore™ 5 layer media are offered in a variety of Pak™ designs. Four different media grades are offered down to 5.1µ(c). P-Pak™ (cellulose) and Z-Pak™ stainless steel media options are also available. 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 differential indicators.

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

### Technical Data:

Maximum Working Pressure	300 psi (20 bar)
Rated Burst Pressure	1000 psi max (70 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 Material	Aluminum
Bowl Material	Steel
Weight	
Assembly length 3	15.5 lbs. (7,0 kg.)
Assembly length 6	18.7 lbs. (8,5 kg.)
Assembly length 7	22.0 lbs. (10,0 kg.)

## W033

100 gpm (379 l/min)

Conforms to HF4 specifications

Wide range of indicator options

Service element interchangeable with other filter assemblies



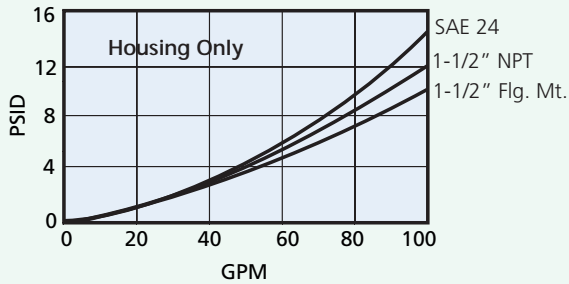
## ACCESSORIES

Seal Kit - Buna N	P-238965-01
Seal Kit - E.P.R.	P-238965-02
Seal Kit - Viton	P-238965-03
Element Connector	P-227567-01
Core Tube Assembly-Code Length-3	PW451R3BN
Core Tube Assembly-Code Length-6	PW451R6BN
Core Tube Assembly-Code Length-7	PW451R7BN

**Housing and Filter Element**

Flow versus Pressure Drop

150 SUS (32 cSt.) oil with specific gravity ≤ 0.9

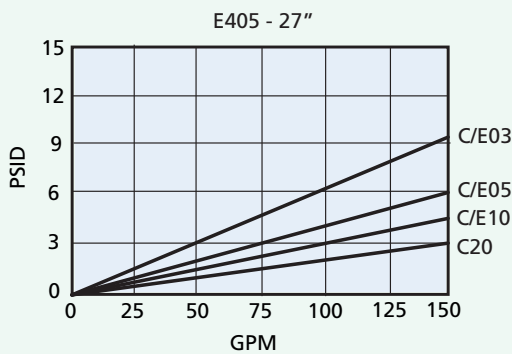
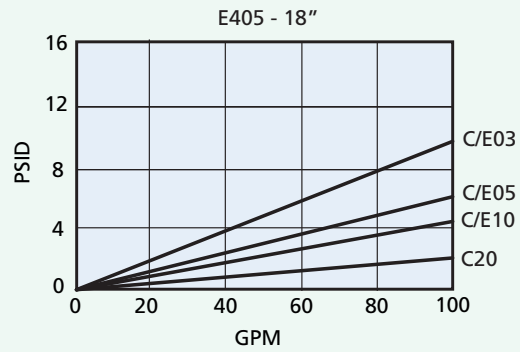
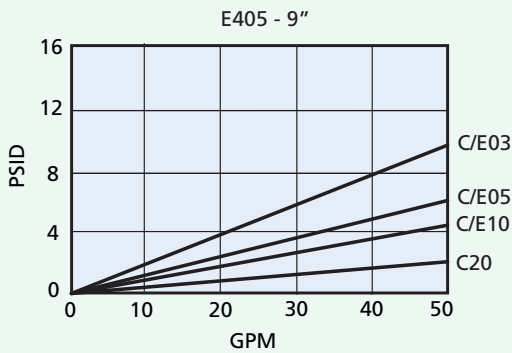


**Viscosity Correction Formula**

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

$$\Delta P \text{ Housing} = \text{psid from catalog} \times \frac{\text{New Specific Gravity}}{0.90}$$

$$\Delta P \text{ Assembly} = \Delta P \text{ Element} + \Delta P \text{ Housing}$$



LOW PRESSURE SPIN-ON FILTERS

MEDIUM PRESSURE SPIN-ON FILTERS

IN-TANK FILTERS

LOW PRESSURE FILTERS

MEDIUM PRESSURE FILTERS

HIGH PRESSURE FILTERS

Filter Assembly	W033 TABLE 1	1 TABLE 2	D TABLE 3	4 TABLE 4	L   N TABLE 5	B TABLE 6	3 TABLE 7	C TABLE 8	10 TABLE 9
Service Element	E405 TABLE 1	1 TABLE 2	B TABLE 6	3 TABLE 7	C TABLE 8	10 TABLE 9			

Order model code W0331E4LNB3C10 for same day shipment.

**Table 1**

Filter Assembly / Service Element	
CODE	DESCRIPTION
W033	Assembly
E405	Element

**Table 2**

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid

**Table 3**

Port Size Options	
CODE	PORT SIZE
D	1-7/8" - 12 UN (SAE 24)
E	1-1/2" SAE 4 bolt flange Code 61
U	1-1/2" NPT

**Table 4**

Bypass Setting Options	
CODE	BYPASS SETTING
3	25 psid
4	50 psid

**Table 5 (Primary)**

Upstream Pressure Gauge and Switch Option	
CODE	INDICATOR STYLE & SETTING
C	Electrical/visual 15 ± 4 psid
D	Electrical/visual 35 ± 5 psid
F	Electrical/visual 15 ± 4 psid with TL
G	Electrical/visual 35 ± 5 psid with TL
H	Electrical/visual 15 ± 4 psid with 12" 3-wire flying lead
J	No indicator
K	Visual 15 ± 4 psid
L	Visual 35 ± 5 psid with TL
M	Visual 35 ± 5 psid with TL and surge
N	Electrical/visual 35 ± 5 psid with 12" 3-wire flying lead
Q	Electrical switch 15 ± 4 psid
R	Electrical switch 35 ± 5 psid
X	Electrical/visual 15 ± 4 psid with TL and surge
Y	Electrical/visual 35 ± 5 psid with 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

**Table 6**

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

**Table 7**

Assembly & Element Length	
CODE (LGTH)	ELEMENT LENGTH
3 (12.81")*	9.0"
6 (22.17")	18.0"
7 (31.54")	27.0"

\*HF4

Note: Code lengths 6 & 7 media elements may be stacked using connector part number P-227567-01 and code length 3 elements.

**Table 8**

Element Code	
CODE	DESCRIPTION
C	(Glass) 03, 05, 10
E	(Coreless) 01, 05, 10, 20
P	(Cellulose) 10, 20
Z	(Stainless Steel) 60, 125, 260

Note: Only available in code 3 element length. Elements may be stacked for 18" and 27" assemblies.

**Table 9**

Media Rating	
CODE	TARGET FLUID CLEANLINESS LEVEL
01	Flushing only
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.

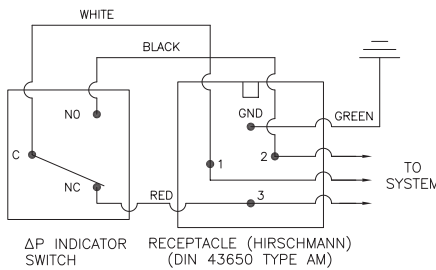
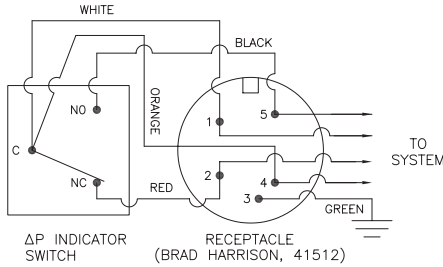
**Metric Porting Available**

Change W033 to G033  
Porting code D becomes 1-1/2" ISO 228 BSPD  
Porting code E becomes 1-1/2" SAE 4 bolt flange with M12 threads

Indicator Switch Schematic Wiring Diagram

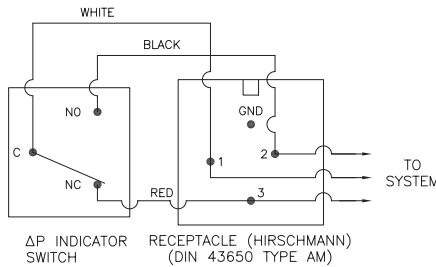
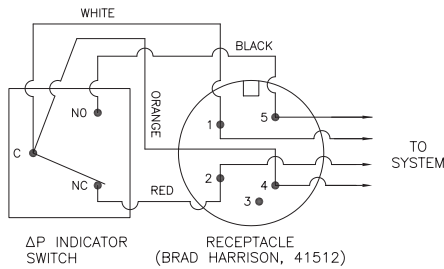
Dimensions:  
millimeters/(inches)

Aluminum Electrical Housings

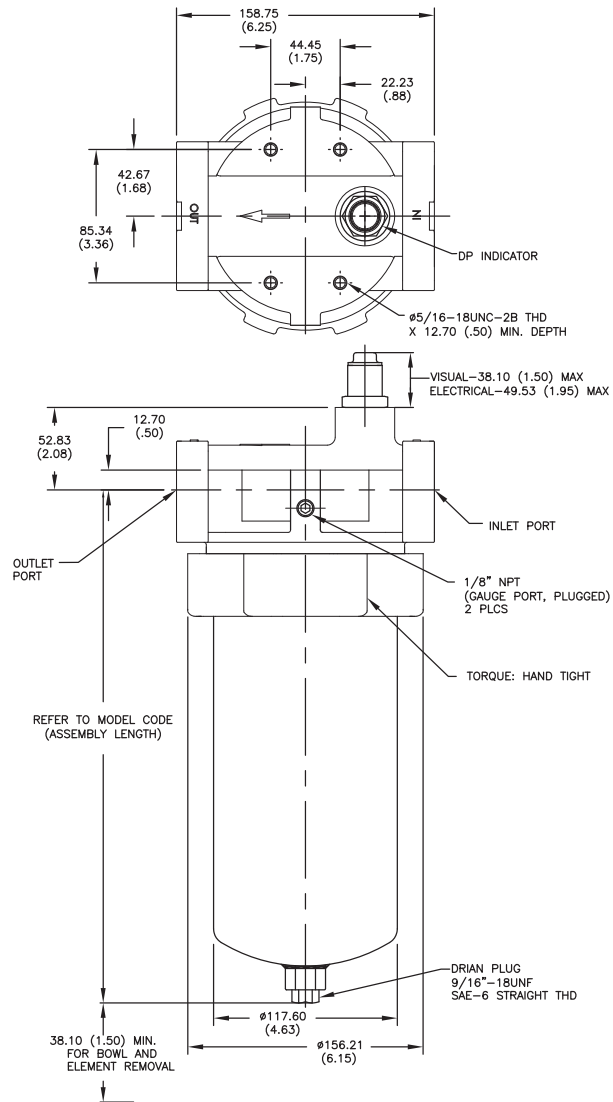


*Note: The female plug (connector) is to be furnished by customer.*

Plastic Electrical Housings



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



**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.

## FEATURES

The W041/W051 high flow filter combines the best features of a base mounted assembly; several port options, two mounting configurations (L) and (T), top cover element servicing for ease of maintenance and wide selection of service indicators. The W041/W051 all aluminum head design and plated steel cylinder provides user flexibility in use of elements. We offer standard features like deep pleat and coreless elements and our standard BetaPore™ C-Pak™ construction. This technology, combined with many other standard features is ideal for today's applications in pulp & paper, power generation and steel mill applications. Five standard grades of media are offered down to 4.0µ(c). Thermal lockout and surge control are two key features incorporated in many of the differential indicators.

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

### Technical Data:

Maximum Working Pressure	500 psi (34.5 bar)
Rated Burst Pressure	1500 psi max (103 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 Material	Aluminum
Cap Material	Cast Iron
Weight	
Assembly length 5	48.5 lbs. (22,0 kg.)
Assembly length 8	86.2 lbs. (39,2 kg.)

## W041/W051

300 gpm (1135 l/min)

Available in 90° "L" porting (W041) or in-line "T" porting (W051)

One diagnostic port in cover plus two drain ports in the base for easy maintenance

Two ΔP indicator options available

Accepts coreless element

High strength bypass valve assembly for durable, reliable performance

Exceptional high dirt holding capacity

Large T-handle for fast servicing without tools

Optional mounting bracket



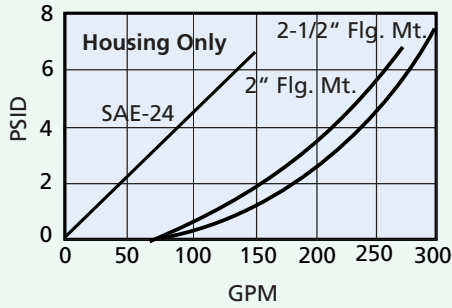
## ACCESSORIES

Seal Kit - Buna N	P-237004-01
Seal Kit - E.P.R.	P-237004-02
Seal Kit - Viton	P-237004-03
Mounting Bracket	P-237004-03
Core Tube Assembly-Code Length-5	PW041R5BN
Core Tube Assembly-Code Length-8	PW041R8BN

**Housing and Filter Element**

Flow versus Pressure Drop

150 SUS (32 cSt.) oil with specific gravity ≤ 0.9

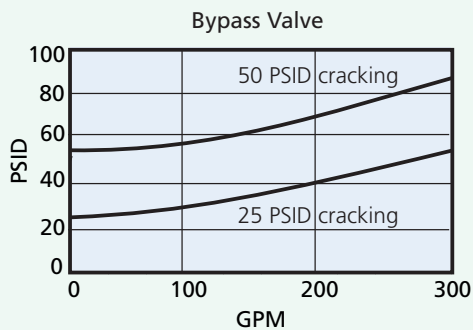
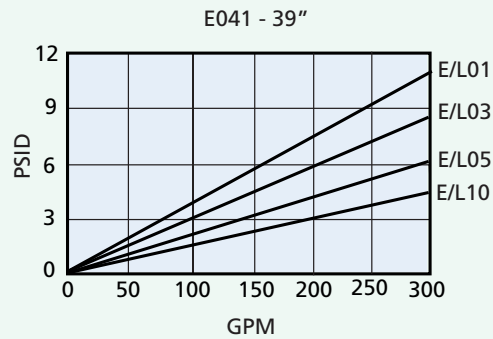
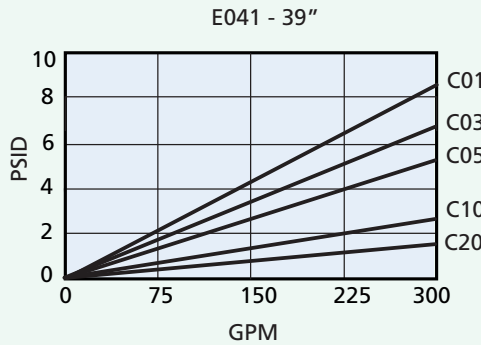
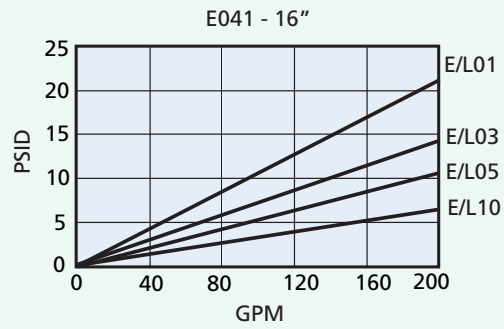
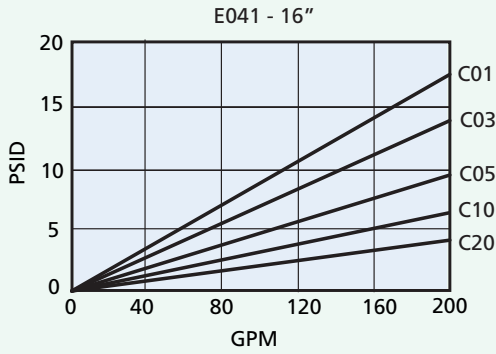


**Viscosity Correction Formula**

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

$$\Delta P \text{ Housing} = \text{psid from catalog} \times \frac{\text{New Specific Gravity}}{0.90}$$

$$\Delta P \text{ Assembly} = \Delta P \text{ Element} + \Delta P \text{ Housing}$$



LOW PRESSURE  
SPIN-ON FILTERS

MEDIUM PRESSURE  
SPIN-ON FILTERS

IN-TANK FILTERS

LOW PRESSURE FILTERS

MEDIUM PRESSURE FILTERS

HIGH PRESSURE FILTERS

Filter Assembly	W041	1	D	4	L   N	B	5	C	10
	TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5	TABLE 6	TABLE 7	TABLE 8	TABLE 9
Service Element	E041	1	B	5	C	10			
	TABLE 1	TABLE 2	TABLE 6	TABLE 7	TABLE 8	TABLE 9			

**Table 1**

Filter Assembly / Service Element	
CODE	DESCRIPTION
W041	Assembly (L porting)
W051	Assembly (T porting)
E041	Element

**Table 2**

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid for housing w/bypass valve

Note: E-Pak™ and L-Pak™ elements are rated at 100 psid collapse. If used in a non-bypass housing, a differential pressure indicator (70 psid max.)

**Table 3**

Port Size Options	
CODE	PORT SIZE
D	1-7/8" - 12 UN (SAE 24)
J	2" SAE 4 Bolt Flange Code 61
K	2-1/2" SAE 4 Bolt Flange Code 61

**Table 4**

Bypass Setting Options	
CODE	BYPASS SETTING
1	Non-bypass
3	25 psid
4	50 psid
6	90 psid

**Table 5 (Primary)**

Indicator Style and Setting	
CODE	ΔP INDICATOR STYLE & SETTING
A	Visual indicator 70 psid w/TL & surge
B	Electrical/visual 70 psid w/TL and surge
C	Electrical/visual 15 psid
D	Electrical/visual 35 psid
E	Electrical/visual 100 psid
F	Electrical/visual 15 psid w/TL
G	Electrical/visual 35 psid w/TL
H	Electrical/visual 15 psid w/12" 3-wire flying lead
I	Visual indicator 70 psid
J	ΔP indicator plug
K	Visual indicator 15 psid
L	Visual indicator 35 psid
M	Visual indicator 35 psid w/ TL and surge
N	Electrical/visual 35 psid w/12" 3-wire flying lead
O	Visual indicator 100 psid
P	Visual indicator 100 psid w/TL and surge
Q	Electrical switch 15 psid
R	Electrical switch 35 psid
S	Electrical/visual 100 psid w/12" 3-wire flying lead
T	Electrical switch 100 psid
U	Electrical switch 70 psid
V	Electrical/visual 70 psid w/TL
W	Electrical/visual 100 psid w/TL
X	Electrical/visual 15 psid w/TL and surge
Y	Electrical/visual 35 psid w/TL and surge
Z	Electrical/visual 100 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
5 (26.45")	16.0"
8 (48.27")	39.0"

**Table 8**

Element Code	
CODE	DESCRIPTION
C	(Glass) 01, 03, 05, 10, 20
E	(Coreless) 01, 03, 05, 10
L	(Glass) 01, 03, 05, 10, 20
W	(Water Removal) 10

Note: Removable core tube installed in coreless housing

**Table 9**

Media Rating	
CODE	TARGET FLUID CLEANLINESS LEVEL
01	Flushing only
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.

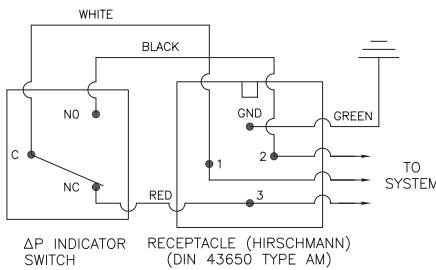
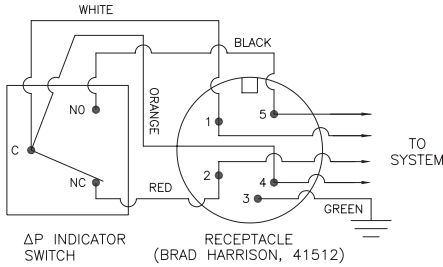
**Metric Porting Available**

Change W041 or W051 to G041 or G051  
Porting code D becomes 1-1/2" ISO 228 BSPP  
Porting code J becomes 2" SAE 4 bolt flange with M12 threads  
Porting code K becomes 2-1/2" SAE 4 bolt flange with M12 threads

Indicator Switch Schematic Wiring Diagram

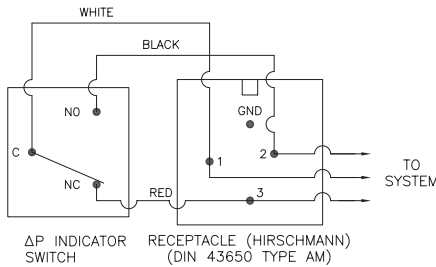
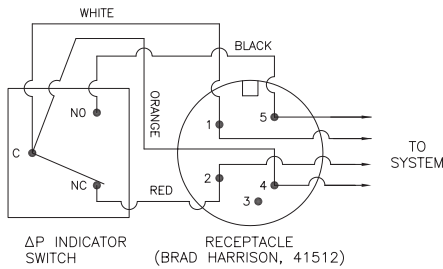
Dimensions:  
millimeters/(inches)

Aluminum Electrical Housings

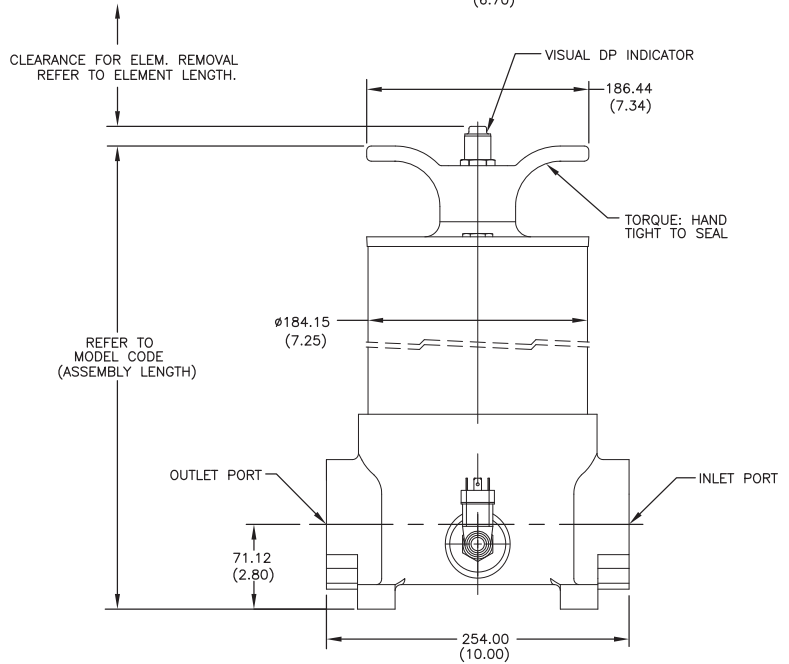
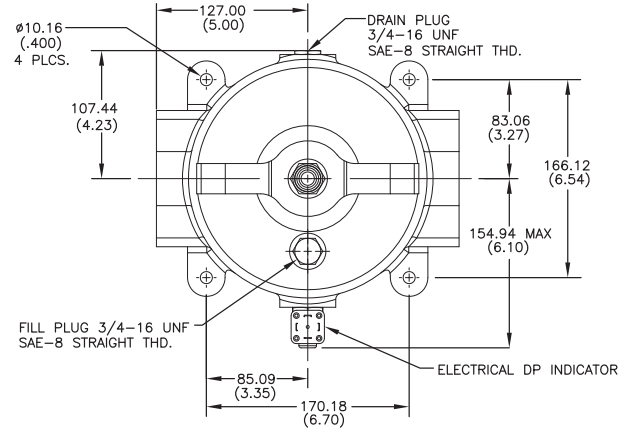


Note: The female plug (connector) is to be furnished by customer.

Plastic Electrical Housings



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



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.



## FEATURES

W042 duplex filters insure continuous filtration is maintained while servicing elements thus avoiding machine shutdown. The W042 all aluminum head design and aluminum cylinders, provides user flexibility in use of elements. Our technology offers standard features like deep pleat elements for higher dirt holding capacity, coreless elements and our standard BetaPore™ 5 layer media. This technology, combined with many other standard features is ideal for today's applications in pulp & paper, power generation and steel mill applications. Five standard grades of media are offered down to 4.0μ(c).

Thermal lockout and surge control are two key features incorporated in many of the differential indicators offered. Western Filter elements are compatible with petroleum oils, water glycol, oil/water, HWCF and synthetic fluids.

### Technical Data:

Maximum Working Pressure	400 psi (27.6 bar)
Typical Burst Pressure	1,500 psi max (103.4 bar)
Temperature Range	Operating
Buna N	-45°F to + 225°F (-45°C to + 107°C)
Viton	-20°F to + 250°F (-29°C to + 121°C)
Head Material	Aluminum
Cap Material	Cast Iron
Cylinder Material	Steel
Weight (without elements)	
Assembly length 5	234 lbs. (106,4 kg.)
Assembly length 8	308 lbs. (140 kg.)

## W042

300 gpm (1135 l/min)

Hydrostatically balanced, cam operated, positive sealing valve for low torque shifting

Dual poppet outlet checks for positive isolation during element replacement

Accepts coreless elements

Two ΔP indicator ports

One diagnostic port in cover plus two drain ports in the base for easy maintenance



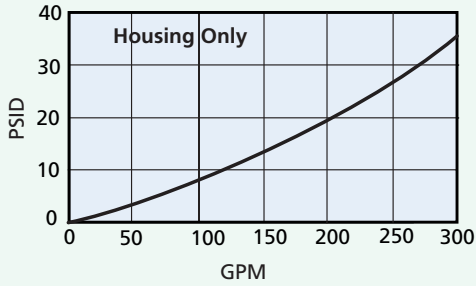
## ACCESSORIES

Seal Kit - Buna N	P-237052-01
Seal Kit - E.P.R.	P-237052-02
Seal Kit - Viton	P-237052-03
Core Tube Assembly-Code Length-5	PW041R5BN
Core Tube Assembly-Code Length-8	PW041R8BN

**Housing and Filter Element**

Flow versus Pressure Drop

150 SUS (32 cSt.) oil with specific gravity ≤ 0.9

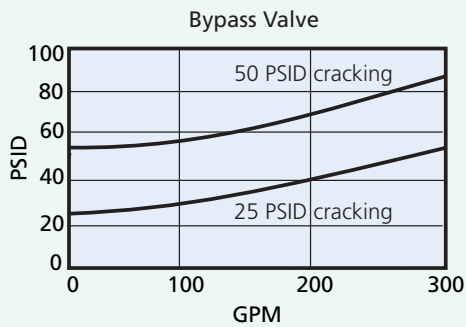
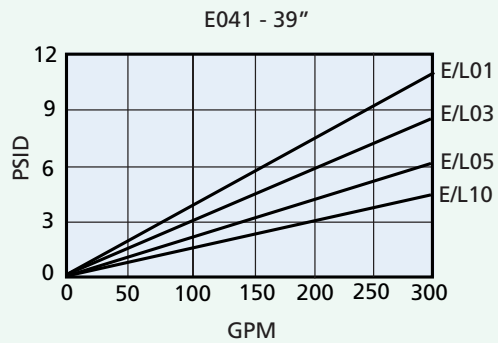
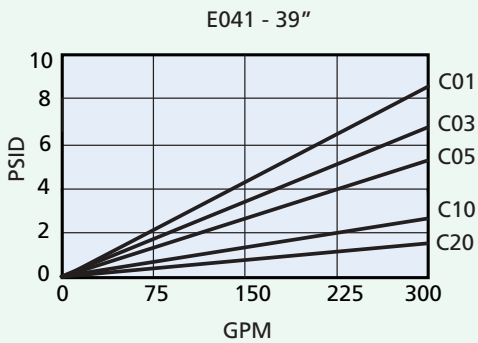
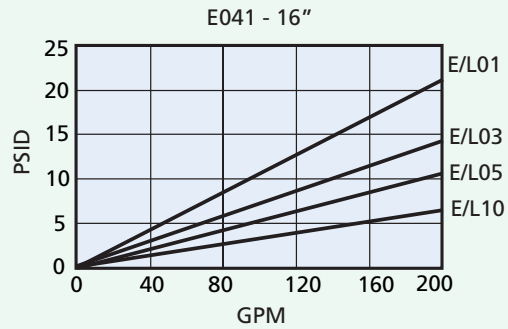
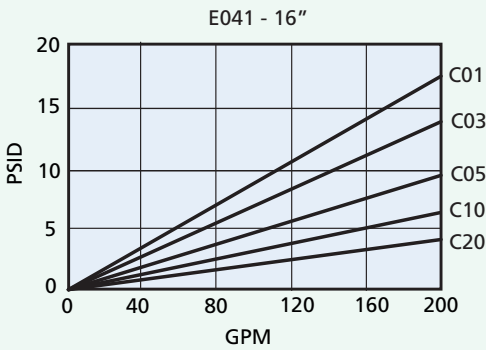


**Viscosity Correction Formula**

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

$$\Delta P \text{ Housing} = \text{psid from catalog} \times \frac{\text{New Specific Gravity}}{0.90}$$

$$\Delta P \text{ Assembly} = \Delta P \text{ Element} + \Delta P \text{ Housing}$$



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MEDIUM PRESSURE  
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Filter Assembly	W042 TABLE 1	1 TABLE 2	L TABLE 3	4 TABLE 4	L   N TABLE 5	B TABLE 6	5 TABLE 7	C TABLE 8	10 TABLE 9
Service Element	E041 TABLE 1	1 TABLE 2	B TABLE 6	5 TABLE 7	C TABLE 8	10 TABLE 9			

### Table 1

Filter Assembly / Service Element	
CODE	DESCRIPTION
W042	Assembly
E041	Element

### Table 2

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid for housing w/bypass valve

**Note:** E-Pak™ and L-Pak™ elements are rated at 100 psid collapse. If used in a non-bypass housing, a differential pressure indicator (70 psid max.)

### Table 3

Port Size Options	
CODE	PORT SIZE
L	3" SAE 4 Bolt Flange Code 61

### Table 4

Bypass Setting Options	
CODE	BYPASS SETTING
1	Non-bypass
3	25 psid
4	50 psid

### Table 5 (Primary)

Indicator Style and Setting	
CODE	ΔP INDICATOR STYLE & SETTING
A	Visual indicator 70 psid w/TL & surge
B	Electrical/visual 70 psid w/TL and surge
C	Electrical/visual 15 psid
D	Electrical/visual 35 psid
E	Electrical/visual 100 psid
F	Electrical/visual 15 psid w/TL
G	Electrical/visual 35 psid w/TL
H	Electrical/visual 15 psid w/12" 3-wire flying lead
I	Visual indicator 70 psid
J	ΔP indicator plug
K	Visual indicator 15 psid
L	Visual indicator 35 psid
M	Visual indicator 35 psid w/ TL and surge
N	Electrical/visual 35 psid w/12" 3-wire flying lead
O	Visual indicator 100 psid
P	Visual indicator 100 psid w/TL and surge
Q	Electrical switch 15 psid
R	Electrical switch 35 psid
S	Electrical/visual 100 psid w/12" 3-wire flying lead
T	Electrical switch 100 psid
U	Electrical switch 70 psid
V	Electrical/visual 70 psid w/TL
W	Electrical/visual 100 psid w/TL
X	Electrical/visual 15 psid w/TL and surge
Y	Electrical/visual 35 psid w/TL and surge
Z	Electrical/visual 100 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 indicator

### Table 6

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

### Table 7

Assembly & Element Length	
CODE (LGTH)	ELEMENT LENGTH
5 (25.4")	16.0"
8 (47.4")	39.0"

### Table 8

Element Code	
CODE	DESCRIPTION
C	(Glass) 01, 03, 05, 10, 20
E	(Coreless) 01, 03, 05, 10
L	(Glass) 01, 03, 05, 10, 20
W	(Water absorbent) 10

**Note:** Removable coretube installed in coreless

### Table 9

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

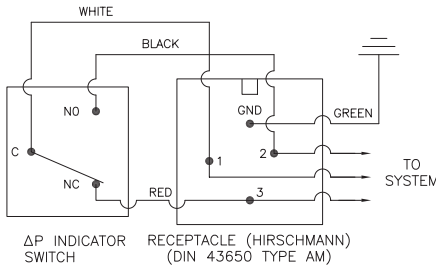
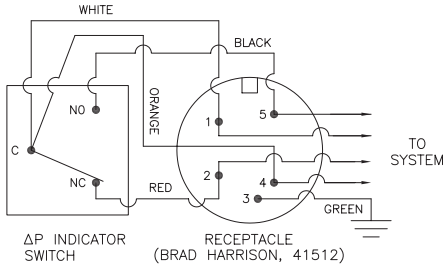
**Note:** Information concerning fluid cleanliness codes is on page 6, the Media Grade Selection Guide.

#### Metric Porting Available

Change W042 to G042  
Porting code L becomes 3" SAE 4 bolt flange with M16 threads

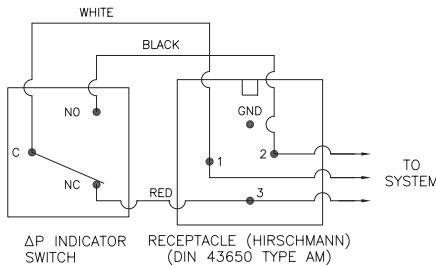
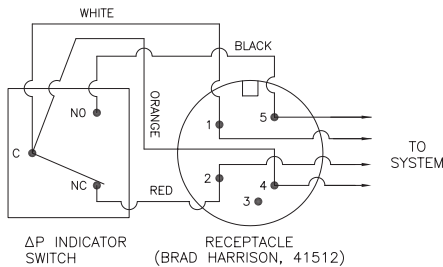
Indicator Switch Schematic Wiring Diagram

Aluminum Electrical Housings



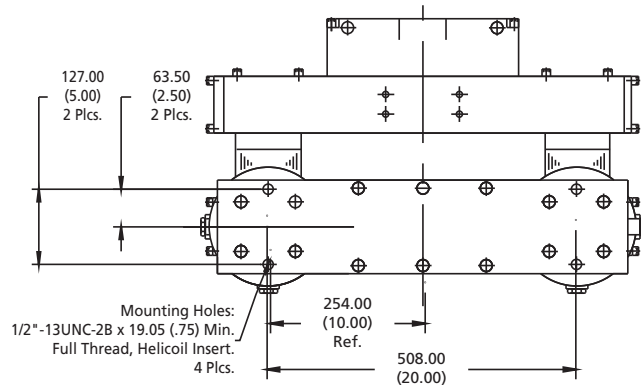
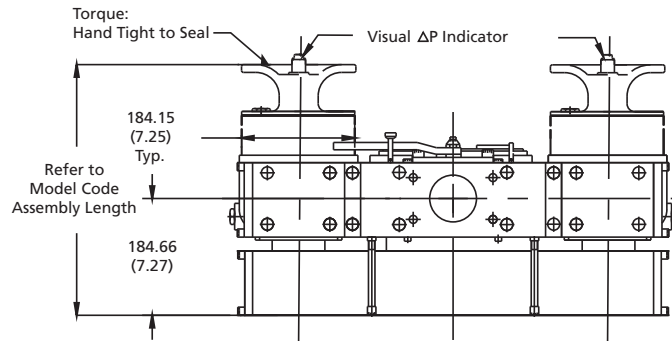
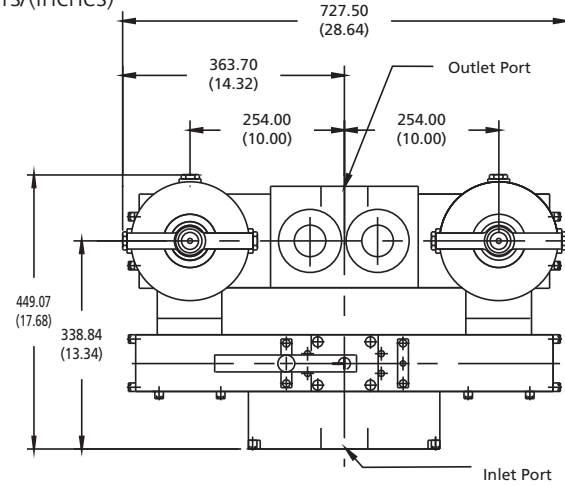
Note: The female plug (connector) is to be furnished by customer.

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.

## FEATURES

Filter assembly W061 contains the popular HF3 filter element. This popular element series is offered throughout the product line. Quick filter changeouts are accomplished with the use of our easily serviceable ring assembly. Western Filter's proprietary BetaPore™ 5 layer media is offered in a variety of Pak™ design. Five different media grades are offered down to 4.0µ(c) and Z-Pak™ stainless steel media is optional. 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.

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

### Technical Data:

Maximum Working Pressure	800 psi (41 bar)
Fatigue Pressure Rating	700 psi (41 bar)
Typical Burst Pressure	1,500 psi max (100 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 Material	Cast Iron
Bowl & Notched Material	Steel
Weight (without elements)	
Assembly length 1	7.9 lbs. (3,6 kg.)
Assembly length 2	8.9 lbs. (4,0 kg.)
Assembly length 4	10.2 lbs. (4,6 kg.)

## W061

100 gpm (379 l/min)

Assembly length code 3 conforms to HF3 specifications

Diagnostic port in head

Accepts coreless element with removable coretube

Low and high collapse elements

Wide selection of indicator options



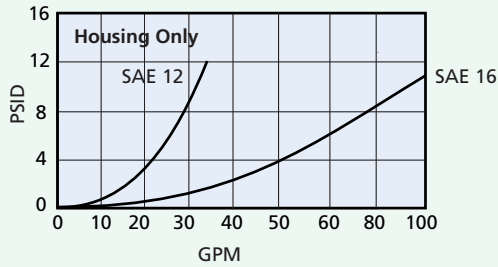
## ACCESSORIES

Seal Kit - Buna N	P-427466-1A
Seal Kit - E.P.R.	P-427466-2A
Seal Kit - Viton	P-427466-3A
Core Tube Assembly-Code Length-1	PW061R1BN
Core Tube Assembly-Code Length-2	PW061R2BN
Core Tube Assembly-Code Length-4	PW061R4BN

**Housing and Filter Element**

Flow versus Pressure Drop

150 SUS (32 cSt.) oil with specific gravity ≤ 0.9

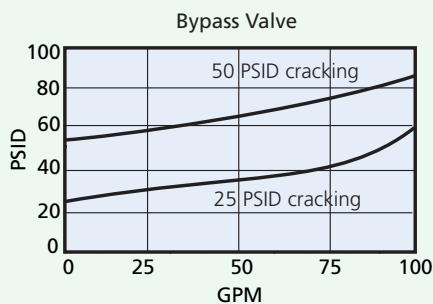
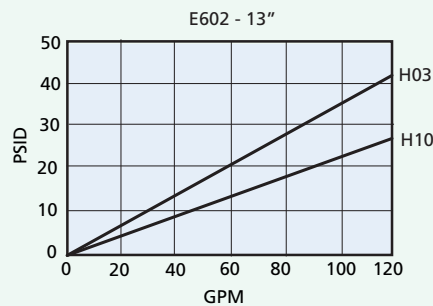
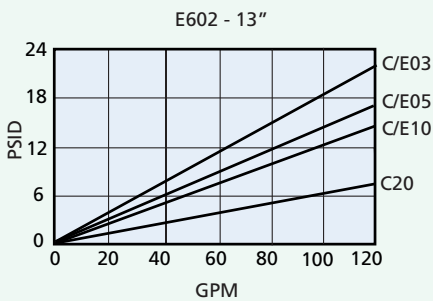
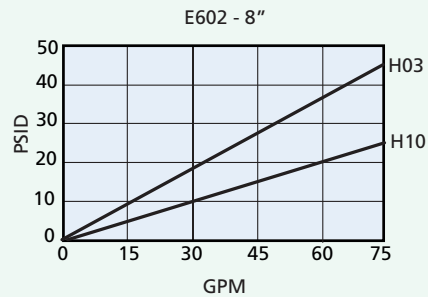
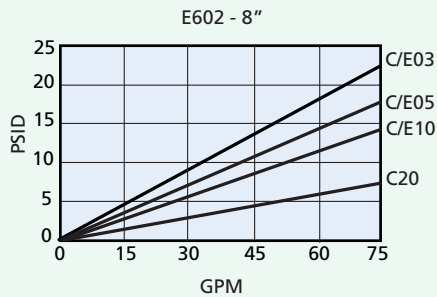
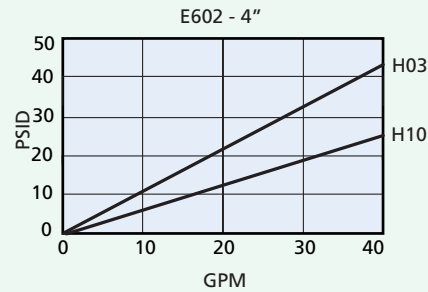
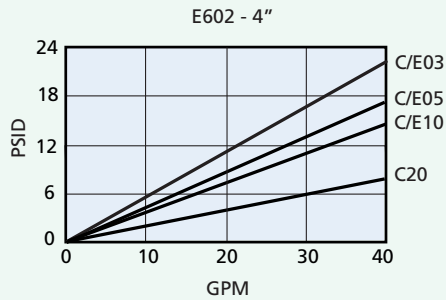


**Viscosity Correction Formula**

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

$$\Delta P \text{ Housing} = \text{psid from catalog} \times \frac{\text{New Specific Gravity}}{0.90}$$

$$\Delta P \text{ Assembly} = \Delta P \text{ Element} + \Delta P \text{ Housing}$$



LOW PRESSURE  
SPIN-ON FILTERS

MEDIUM PRESSURE  
SPIN-ON FILTERS

IN-TANK FILTERS

LOW PRESSURE FILTERS

MEDIUM PRESSURE FILTERS

HIGH PRESSURE FILTERS

Filter Assembly	W061 TABLE 1	1 TABLE 2	A TABLE 3	4 TABLE 4	L   N TABLE 5	B TABLE 6	2 TABLE 7	C TABLE 8	10 TABLE 9
Service Element	E602 TABLE 1	1 TABLE 2	B TABLE 6	2 TABLE 7	C TABLE 8	10 TABLE 9			

Order model code W0611B4LNB2C10 for same day shipment.

**Table 1**

Filter Assembly / Service Element	
CODE	DESCRIPTION
W061	Assembly
E602	Element

**Table 2**

Element Collapse Options	
CODE	DESCRIPTION
1	150 psid for housing w/bypass valve
3	600 psid for housing without bypass valve (H-Pak™ only)

Note: E-Pak™ elements rated at 100 psid collapse. If used in non-bypass housing, a differential pressure indicator (70 psid max.) should be used.

**Table 3**

Port Size Options	
CODE	PORT SIZE
A	1-1/16" - 12 UN (SAE-12)
B	1-5/16" - 12 UN (SAE-16)
C	1-5/8" - 12 UN (SAE-20)
F	1" SAE 4 bolt flange code 61
G	1-1/4" SAE 4 bolt flange code 61
P	1-1/4" NPT
Y	1" NPT

**Table 4**

Bypass Setting Options	
CODE	BYPASS SETTING
1	Non-bypass
3	25 psid
4	50 psid

**Table 5 (Primary)**

Indicator Style and Setting	
CODE	ΔP INDICATOR STYLE & SETTING
C	Electrical/visual 15 psid
D	Electrical/visual 35 psid
E	Electrical/visual 100 psid
F	Electrical/visual 15 psid w/TL
G	Electrical/visual 35 psid w/TL
H	Electrical/visual 15 psid w/12" 3-wire flying lead
J	ΔP indicator plug
K	Visual indicator 15 psid
L	Visual indicator 35 psid
M	Visual indicator 35 psid w/ TL and surge
N	Electrical/visual 35 psid w/12" 3-wire flying lead
O	Visual indicator 100 psid
P	Visual indicator 100 psid w/TL and surge
Q	Electrical switch 15 psid
R	Electrical switch 35 psid
S	Electrical/visual 100 psid w/12" 3-wire flying lead
T	Electrical switch 100 psid
W	Electrical/visual 100 psid w/TL
X	Electrical/visual 15 psid w/TL and surge
Y	Electrical/visual 35 psid w/TL and surge
Z	Electrical/visual 100 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 (7.43")	4.0"
2 (11.06")	8.0"
4 (15.82")	13.0"

**Table 8**

Element Code	
CODE	DESCRIPTION
C	(Glass) 01, 03, 05, 10, 20
E	(Coreless) 01, 03, 05, 10
H	(Glass) 03,10
Z	(Stainless steel)* 60,125, 260

\*Available in code lengths 2 and 4 only.

**Table 9**

Media Rating	
CODE	TARGET FLUID CLEANLINESS LEVEL
01	Flushing only
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.

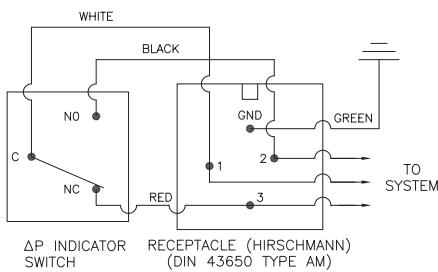
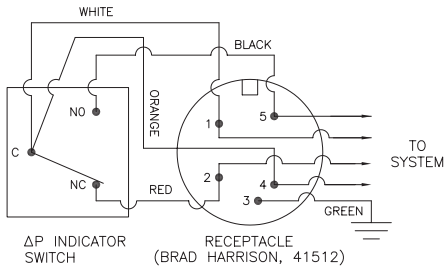
**Metric Porting Available**

Change W061 to G061  
 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 threads  
 Porting code G becomes 1-1/4" SAE 4 bolt flange with M10 threads

Indicator Switch Schematic Wiring Diagram

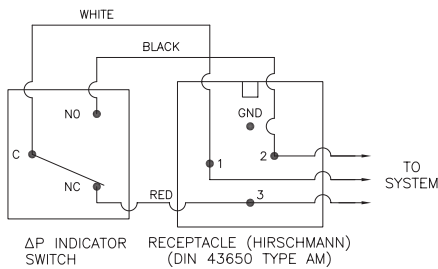
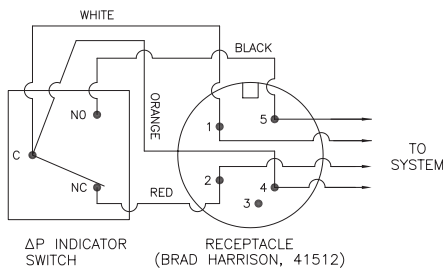
Dimensions:  
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Aluminum Electrical Housings

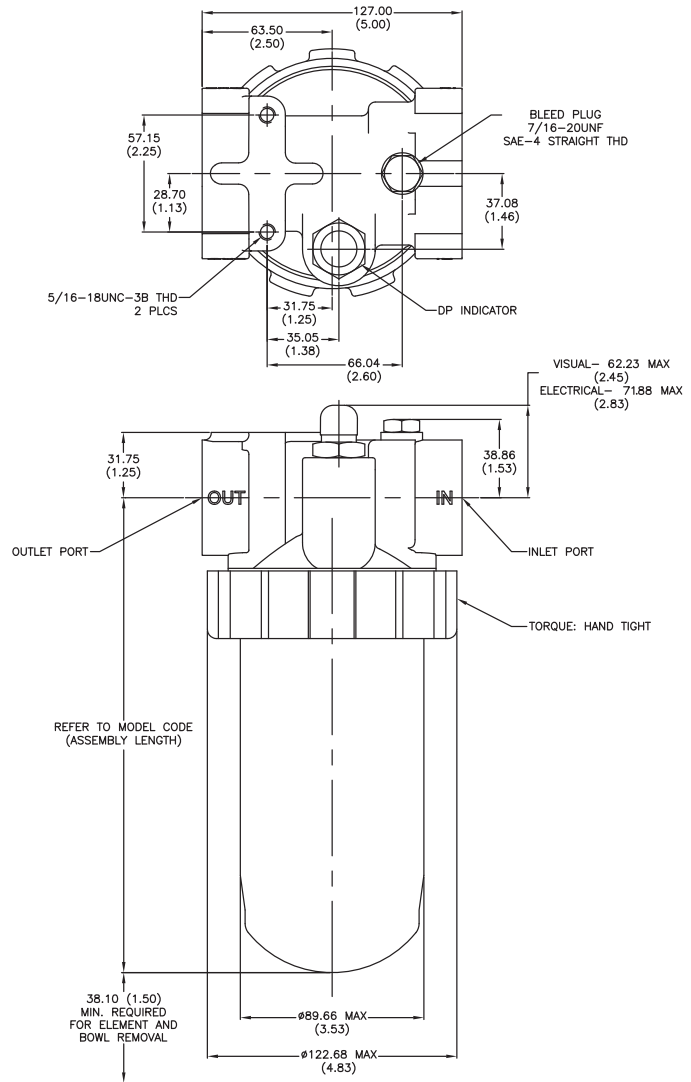


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Plastic Electrical Housings



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