

Canadian
Registered Products



Variable Area Flow Meters and Flow Switches

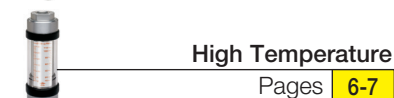
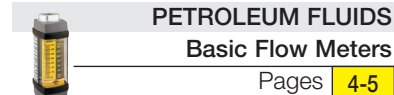


Badger Meter

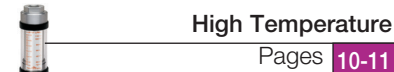
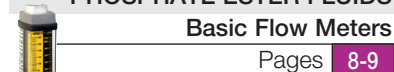
CANADIAN REGISTRATION NUMBERS BY PROVINCE					
PROVINCE	REGISTRATION NUMBER	PROVINCE	REGISTRATION NUMBER	PROVINCE	REGISTRATION NUMBER
Alberta	OF12298.2	Northwest Territories	OF14981.5T	Quebec	OF14981.56
British Columbia	OF14981.51	Nova Scotia	OF14981.58	Saskatchewan	OF14981.53
Manitoba	OF14981.54	Nunavut	OF14981.5N	Yukon	OF14981.5Y
New Brunswick	OF14981.57	Ontario	OF14981.5		
Newfoundland	OF14981.50	Prince Edward Island	OF14981.59		

Product Locator

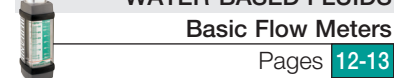
PETROLEUM FLUIDS



PHOSPHATE ESTER FLUIDS



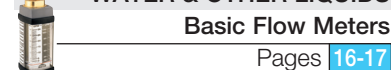
WATER-BASED FLUIDS



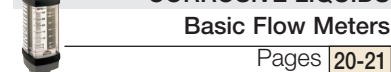
WATER-BASED FLUIDS (cont)



WATER & OTHER LIQUIDS



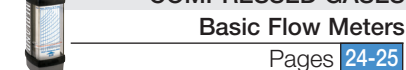
API OIL/CAUSTIC & CORROSIVE LIQUIDS



AIR/CAUSTIC & CORROSIVE GASES



AIR & OTHER COMPRESSED GASES



Weights Page **40**

Common Conversions Page **41**

Mail to: Hedland Flow Meters
Badger Meter Inc.
P.O. Box 081580
Racine, WI 53408-1580 USA

Ship to: Hedland Flow Meters
Badger Meter Inc.
8635 Washington Avenue
Racine, WI 53406-3738 USA

Customers within the United States, Canada
and U.S. possessions:

Call Toll-Free: 1-877-243-1010

Fax Toll-Free: 1-800-245-3569

International Customers:

Phone: 1-262-639-6770

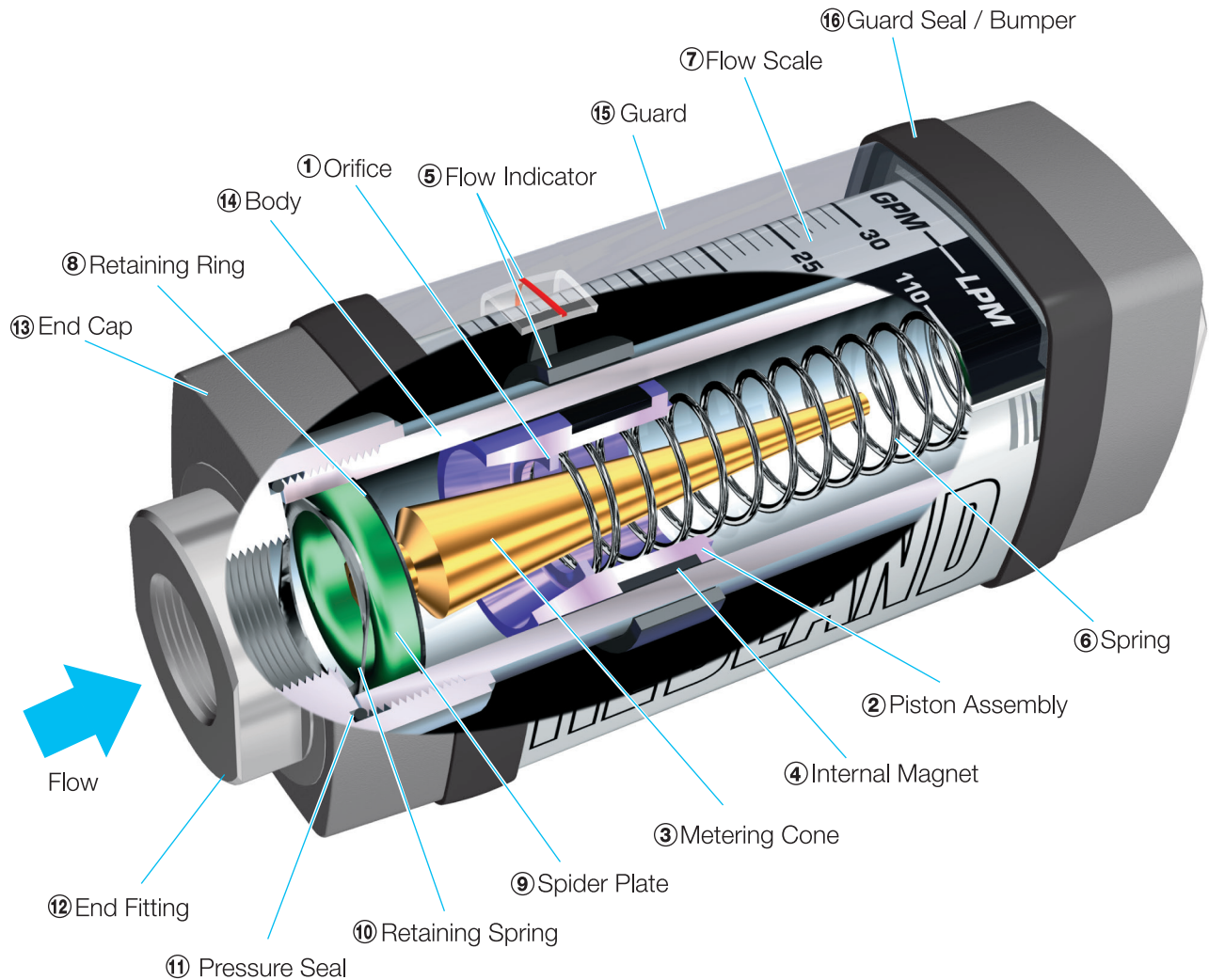
Fax: 1-262-639-2267

Monday - Friday from 8 a.m. to 5 p.m. CST

E-mail: indorders@badgermeter.com

Website: www.badgermeter.com

General Design Features



OPERATING PRINCIPLE

The Hedland flow meter is a variable area instrument. A precision machined, sharp-edged Orifice ① located within the Piston Assembly ②, forms an annular opening with the contoured Metering Cone ③. The Piston Assembly carries a cylindrical PPS/ Ceramic Magnet ④ that is magnetically coupled to an external Flow Indicator ⑤ that moves precisely, in direct response to movement of the Piston. A calibrated Spring ⑥ opposes flow in the forward direction. This spring decreases viscosity sensitivity and allows the flow meter to be used in any position, including inverted.

Bi-directional flow capability: If required, a reverse flow by-pass option is available and is depicted on individual product pages. Note that flow is measured in the forward direction only.

Operates in any position: The Hedland in-line flow meter's unique spring-loaded variable area design allows meters to be installed in any position without affecting accuracy. An optional inverted flow scale is also available.

Easier to read linear scale: This flow meter is the most readable product in its class. Brightly colored indicators move over the graduated, linear Flow Scale ⑦ which contains bold, easy-to-read numerals and gauge marks. This enhanced resolution virtually eliminates parallax problems associated with competitive, direct reading flow meters.

360° Rotatable guard/scale: Hedland's unique design allows the meter to be installed in any orientation without regard to scale direction. Once the meter is permanently installed, the guard/scale can be rotated 360° to optimize readability.

Rugged construction: Flow meters are available in anodized aluminum, brass, T303 and T316 stainless steel, with SAE, NPTF, BSPP, and Code 61 and Code 62 4-bolt flanged ports. This easy-to-read flow meter is a reliable and trouble-free flow rate indicator, monitoring a variety of liquids and gases (including aggressive chemicals), under a wide range of pressures, temperatures and rigorous conditions encountered in industrial applications.

No flow straighteners or special piping: The Hedland design does not require special plumbing or accessories to stabilize turbulent flow. Flow meters can be installed immediately adjacent to 90-degree elbows or other components to provide greatest system design flexibility, while saving installation time and money.

Relatively insensitive to shock and vibration: This unique design is inherently less sensitive to shock and vibration than other variable area flow meters. The new, improved coupling forces between the internal and external magnets greatly reduce the chance of decoupling the flow indicator under high flow and pressure transients. The magnetic coupling also eliminates the need for mechanical linkages that wear, loosen and leak over the functional life of competitive meters.

Canadian Registration Flow Meters

For Petroleum Fluids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for .876 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:	Retaining Ring: SAE 1070/1090 Carbon Steel
Spider Plate: T316 SS	Retaining Spring: SAE 1070/1090 Carbon Steel
Spring: T302 SS	Indicator and Internal Magnet: PPS / Ceramic
Fasteners: T303 SS	Guard Seal / Bumper: Buna N
Pressure Seals: Viton®	Scale Support: 6063 - T6 Aluminum
Guard: Polycarbonate	End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2, BSPP ISO1179

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 6

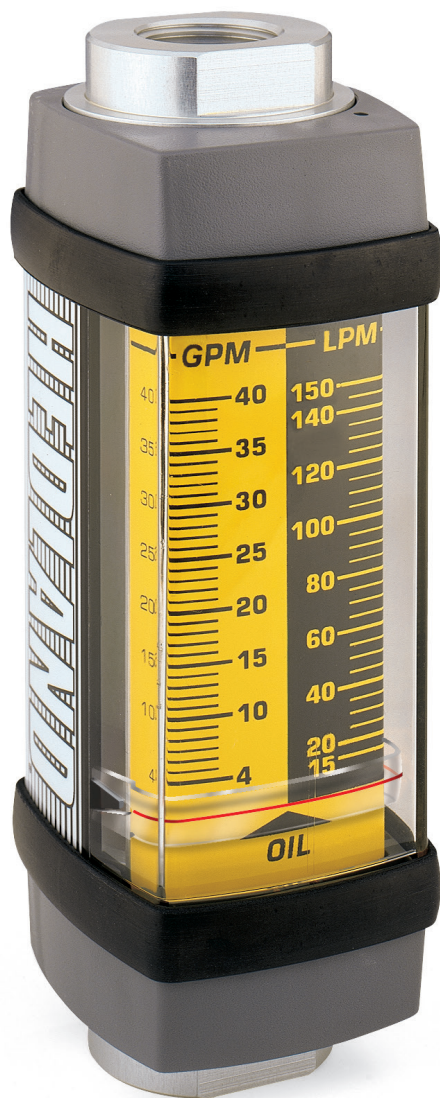
PRESSURE RATING:

See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

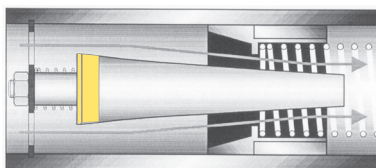
For detailed differential pressure charts, see Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for 1/4" meters **REPEATABILITY:** $\pm 1\%$

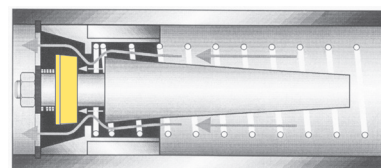


REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design.

Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice. This shift creates a gap which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

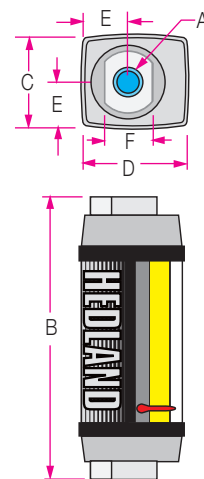


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
1/4 (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
1/2 (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
3/4 (SAE 12)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1 (SAE 16)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 1/4 (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 1/2 (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Viton is a registered trademark of DuPont Dow Elastomers

Canadian Registration Flow Meters

For Petroleum Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ^②	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	.02 - 0.2 .05 - 0.5 0.1 - 1.0 0.2 - 2.0	0.1 - 0.75 0.2 - 1.9 0.5 - 3.75 1 - 7.5	3.5 (.24) 3.0 (.21) 4.0 (.28) 6.0 (.41)	4.0 (.28) 5.0 (.35) 9.0 (.62) 13 (.90)		H200 C - 002 H200 C - 005 H200 C - 010 H200 C - 020	H201 C - 002 H201 C - 005 H201 C - 010 H201 C - 020	5000 PSI	Not Available
½" SAE 10	0.1 - 1.0 0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	0.5 - 3.75 1 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	2.75 (.19) 3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	5.2 (.36) 9.6 (.66) 4.8 (.33) 23.0 (1.6) 55.2 (3.8)	H600 C - 001 - † H600 C - 002 - † H600 C - 005 - † H600 C - 010 - † H600 C - 015 - †	H601 C - 001 - † H601 C - 002 - † H601 C - 005 - † H601 C - 010 - † H601 C - 015 - †	3000 PSI	RF
¾" SAE 12	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11)	H700 C - 002 - † H700 C - 005 - † H700 C - 010 - † H700 C - 020 - † H700 C - 030 - †	H701 C - 002 - † H701 C - 005 - † H701 C - 010 - † H701 C - 020 - † H701 C - 030 - †	2500 PSI	RF
1" SAE 16	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150 20 - 190	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62) 12.5 (.86)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24 (1.7) 34 (2.3)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11) 87.5 (6.04) 150 (10.4)	H760 C - 002 - † H760 C - 005 - † H760 C - 010 - † H760 C - 020 - † H760 C - 030 - † H760 C - 040 - † H760 C - 050 - †	H761 C - 002 - † H761 C - 005 - † H761 C - 010 - † H761 C - 020 - † H761 C - 030 - † H761 C - 040 - † H761 C - 050 - †	2500 PSI	RF
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H800 C - 030 - † H800 C - 050 - † H800 C - 075 - † H800 C - 100 - † H800 C - 150 - †	H801 C - 030 - † H801 C - 050 - † H801 C - 075 - † H801 C - 100 - † H801 C - 150 - †	2450 PSI	RF
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H860 C - 030 - † H860 C - 050 - † H860 C - 075 - † H860 C - 100 - † H860 C - 150 - †	H861 C - 030 - † H861 C - 050 - † H861 C - 075 - † H861 C - 100 - † H861 C - 150 - †	2450 PSI	RF

② Fractional sizes apply to NPTF.

(example) **H 701 C - 030 - RF**



Canadian Registered High Temperature

Flow Meters For Petroleum Fluids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 500 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for .876 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Seals: Viton®

Scale Support: T316 SS

Scale: Polymide

Retaining Ring: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

Indicator: Nickel-plated Carbon Steel

Internal Magnet: Teflon® Coated Alnico 8

Bumper: 2011 - T3 Anodized Aluminum

Guard: Cylindrical Pyrex® Glass

End Caps: 2011 - T3 Anodized Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous

PRESSURE RATING:

See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

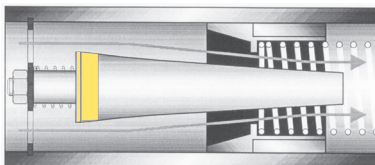
For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale

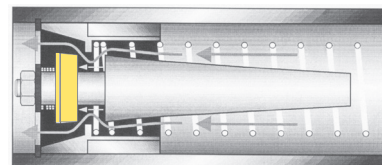
REPEATABILITY: $\pm 1\%$



REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice, which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

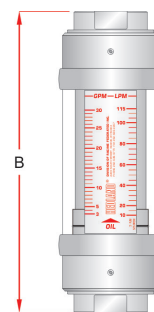


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	FLATS in (mm)
¼ (SAE 6)	6.60 (168)	2.01 (51)	1.25 (32)
½ (SAE 10)	6.60 (168)	2.01 (51)	1.25 (32)
¾ (SAE 12)	7.20 (183)	2.48 (63)	1.50 (38)
1 (SAE 16)	7.20 (183)	2.48 (63)	1.75 (44)
1¼ (SAE 20)	12.20 (310)	4.20 (107)	2.75 (70)
1½ (SAE 24)	12.20 (310)	4.20 (107)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Pyrex is a registered trademark of Corning, Inc.
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.
Viton is a registered trademark of DuPont Dow Elastomers

Canadian Registration High Temperature Flow Meters For Petroleum Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1.0 - 7.5	4.0 (.28) 6.0 (.41)	9.0 (.62) 13 (.90)		H200 C - 010 - HT H200 C - 020 - HT	H201 C - 010 - HT H201 C - 020 - HT	3000 PSI	Not Available
½" SAE 10	0.1 - 1.0 0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	0.5 - 3.75 1.0 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	2.75 (.19) 3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	5.2 (.36) 9.6 (.66) 4.8 (.33) 23.0 (1.6) 55.2 (3.8)	H600 C - 001 - HT H600 C - 002 - HT H600 C - 005 - HT H600 C - 010 - HT H600 C - 015 - HT	H601 C - 001 - HT H601 C - 002 - HT H601 C - 005 - HT H601 C - 010 - HT H601 C - 015 - HT	3000 PSI	HR
¾" SAE 12	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11)	H700 C - 002 - HT H700 C - 005 - HT H700 C - 010 - HT H700 C - 020 - HT H700 C - 030 - HT	H701 C - 002 - HT H701 C - 005 - HT H701 C - 010 - HT H701 C - 020 - HT H701 C - 030 - HT	2350 PSI	HR
1" SAE 16	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150 20 - 190	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62) 12.5 (.86)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24.0 (1.7) 34.0 (2.3)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11) 87.5 (6.04) 150 (10.4)	H760 C - 002 - HT H760 C - 005 - HT H760 C - 010 - HT H760 C - 020 - HT H760 C - 030 - HT H760 C - 040 - HT H760 C - 050 - HT	H761 C - 002 - HT H761 C - 005 - HT H761 C - 010 - HT H761 C - 020 - HT H761 C - 030 - HT H761 C - 040 - HT H761 C - 050 - HT	2350 PSI	HR
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H800 C - 030 - HT H800 C - 050 - HT H800 C - 075 - HT H800 C - 100 - HT H800 C - 150 - HT	H801 C - 030 - HT H801 C - 050 - HT H801 C - 075 - HT H801 C - 100 - HT H801 C - 150 - HT	2175 PSI	HR
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H860 C - 030 - HT H860 C - 050 - HT H860 C - 075 - HT H860 C - 100 - HT H860 C - 150 - HT	H861 C - 030 - HT H861 C - 050 - HT H861 C - 075 - HT H861 C - 100 - HT H861 C - 150 - HT	2175 PSI	HR

① Fractional sizes apply to NPTF.

(example) H 701 **C** - 030 - **HR**

NOTE: **HT** suffix represents standard high temperature configuration. For reverse flow high temperature, replace **HT** with **HR** suffix.

Canadian Registration Flow Meters

For Phosphate Ester Fluids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.18 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: EPR

Guard: Nylon

Retaining Ring: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

Indicator and Internal Magnet: PPS / Ceramic

Guard Seal / Bumper: EPR

Scale Support: 6063 - T6 Aluminum

End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 10.

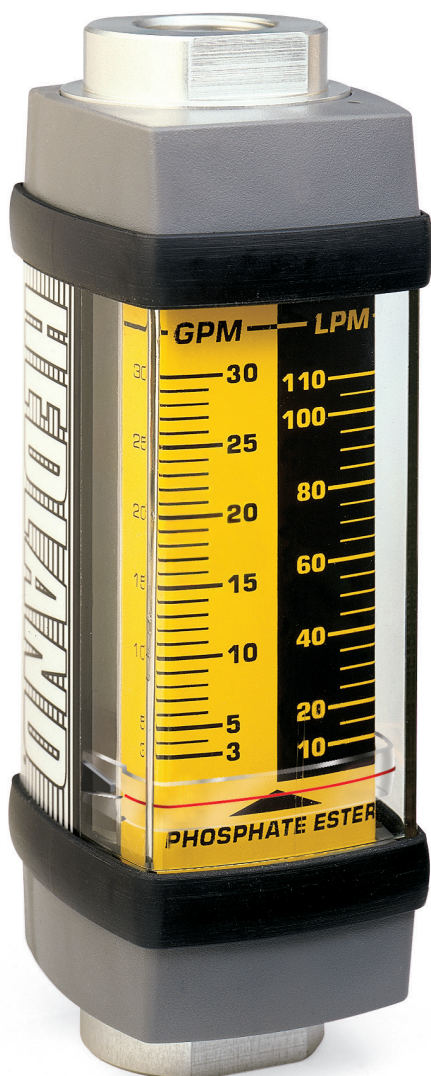
PRESSURE RATING:

See Ordering Information Table.

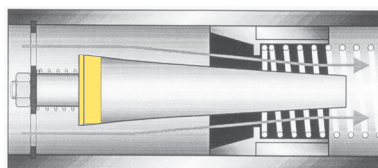
PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

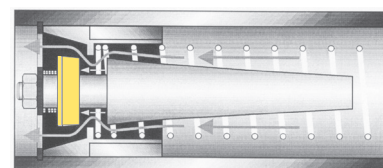
ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for $\frac{1}{4}$ " meters REPEATABILITY: $\pm 1\%$



REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice. This shift creates a gap which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

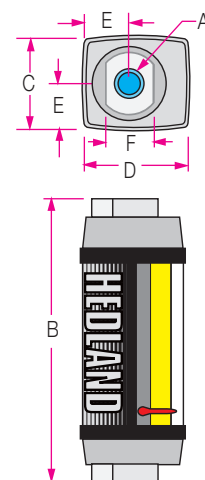


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
$\frac{1}{4}$ (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
$\frac{1}{2}$ (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
$\frac{3}{4}$ (SAE 12)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1 (SAE 16)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 $\frac{1}{4}$ (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 $\frac{1}{2}$ (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Canadian Registration Flow Meters

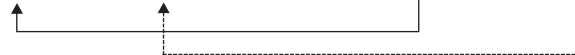
For Phosphate Ester Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ①	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	.02 - 0.2	0.1 - 0.75	3.5 (.24)	4.0 (.28)		H294 C - 002	H295 C - 002	5000 PSI	Not Available
	.05 - 0.5	0.2 - 1.9	3.0 (.21)	5.0 (.35)		H294 C - 005	H295 C - 005		
	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)		H294 C - 010	H295 C - 010		
	0.2 - 2.0	1.0 - 7.5	6.0 (.41)	13 (.90)		H294 C - 020	H295 C - 020		
½" SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	5.2 (.36)	H694 C - 001 - †	H695 C - 001 - †	3000 PSI	RF
	0.2 - 2.0	1 - 7.5	2.0 (.14)	3.0 (.21)	9.6 (.66)	H694 C - 002 - †	H695 C - 002 - †		
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	4.8 (.33)	H694 C - 005 - †	H695 C - 005 - †		
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	23.0 (1.6)	H694 C - 010 - †	H695 C - 010 - †		
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	55.2 (3.8)	H694 C - 015 - †	H695 C - 015 - †		
¾" SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H794 C - 002 - †	H795 C - 002 - †	2500 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H794 C - 005 - †	H795 C - 005 - †		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H794 C - 010 - †	H795 C - 010 - †		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H794 C - 020 - †	H795 C - 020 - †		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H794 C - 030 - †	H795 C - 030 - †		
1" SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H764 C - 002 - †	H765 C - 002 - †	2500 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H764 C - 005 - †	H765 C - 005 - †		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H764 C - 010 - †	H765 C - 010 - †		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H764 C - 020 - †	H765 C - 020 - †		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H764 C - 030 - †	H765 C - 030 - †		
1¼" SAE 20	4 - 40	15 - 150	9.0 (.62)	24.0 (1.7)	87.5 (6.04)	H764 C - 040 - †	H765 C - 040 - †	2450 PSI	RF
	5 - 50	20 - 190	12.5 (.86)	34.0 (2.3)	150 (10.4)	H764 C - 050 - †	H765 C - 050 - †		
	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H894 C - 030 - †	H895 C - 030 - †		
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H894 C - 050 - †	H895 C - 050 - †		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H894 C - 075 - †	H895 C - 075 - †		
1½" SAE 24	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H894 C - 100 - †	H895 C - 100 - †	2450 PSI	RF
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H894 C - 150 - †	H895 C - 150 - †		
	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H864 C - 030 - †	H865 C - 030 - †		
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H864 C - 050 - †	H865 C - 050 - †		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H864 C - 075 - †	H865 C - 075 - †		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H864 C - 100 - †	H865 C - 100 - †		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H864 C - 150 - †	H865 C - 150 - †		

①Fractional sizes apply to NPTF.

(example) H 795 **C** - 030 - **RF**



Canadian Registration High Temperature Flow Meters For Phosphate Ester Fluids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 500 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.18 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Seals: EPR

Scale Support: T316 SS

Scale: Polymide

Retaining Ring: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

Indicator: Nickel-plated Carbon Steel

Internal Magnet: Teflon® Coated Alnico 8

Bumper: 2011 - T3 Anodized Aluminum

Guard: Cylindrical Pyrex® Glass

End Caps: 2011 - T3 Anodized Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous

PRESSURE RATING:

See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

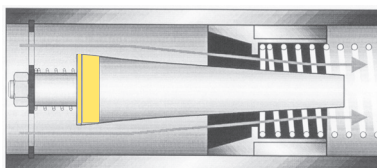
For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale

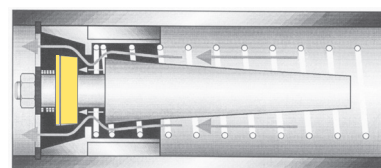
REPEATABILITY: $\pm 1\%$



REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice, which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

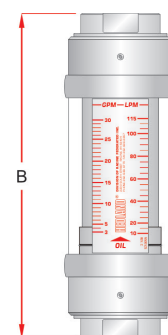
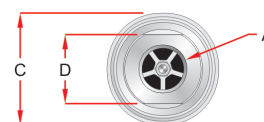


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	FLATS in (mm)
¼ (SAE 6)	6.60 (168)	2.01 (51)	1.25 (32)
½ (SAE 10)	6.60 (168)	2.01 (51)	1.25 (32)
¾ (SAE 12)	7.20 (183)	2.48 (63)	1.50 (38)
1 (SAE 16)	7.20 (183)	2.48 (63)	1.75 (44)
1¼ (SAE 20)	12.20 (310)	4.20 (107)	2.75 (70)
1½ (SAE 24)	12.20 (310)	4.20 (107)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Pyrex is a registered trademark of Corning, Inc.
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.

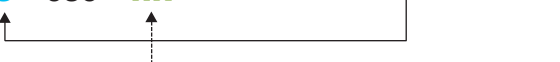
Canadian Registration High Temperature Flow Meters For Phosphate Ester Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ①	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)		H294 C - 010 - HT	H295 C - 010 - HT	3000 PSI	Not Available
	0.2 - 2.0	1.0 - 7.5	6.0 (.41)	13 (.90)		H294 C - 020 - HT	H295 C - 020 - HT		
½" SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	5.2 (.36)	H694 C - 001 - HT	H695 C - 001 - HT	3000 PSI	HR
	0.2 - 2.0	1 - 7.5	2.0 (.14)	3.0 (.21)	9.6 (.66)	H694 C - 002 - HT	H695 C - 002 - HT		
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	4.8 (.33)	H694 C - 005 - HT	H695 C - 005 - HT		
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	23.0 (1.6)	H694 C - 010 - HT	H695 C - 010 - HT		
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	55.2 (3.8)	H694 C - 015 - HT	H695 C - 015 - HT		
¾" SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H794 C - 002 - HT	H795 C - 002 - HT	2350 PSI	HR
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H794 C - 005 - HT	H795 C - 005 - HT		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H794 C - 010 - HT	H795 C - 010 - HT		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H794 C - 020 - HT	H795 C - 020 - HT		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H794 C - 030 - HT	H795 C - 030 - HT		
1" SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H764 C - 002 - HT	H765 C - 002 - HT	2350 PSI	HR
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H764 C - 005 - HT	H765 C - 005 - HT		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H764 C - 010 - HT	H765 C - 010 - HT		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H764 C - 020 - HT	H765 C - 020 - HT		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H764 C - 030 - HT	H765 C - 030 - HT		
	4 - 40	15 - 150	9.0 (.62)	24.0 (1.7)	87.5 (6.04)	H764 C - 040 - HT	H765 C - 040 - HT		
	5 - 50	20 - 190	12.5 (.86)	34.0 (2.3)	150 (10.4)	H764 C - 050 - HT	H765 C - 050 - HT		
1¼" SAE 20	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H894 C - 030 - HT	H895 C - 030 - HT	2175 PSI	HR
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H894 C - 050 - HT	H895 C - 050 - HT		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H894 C - 075 - HT	H895 C - 075 - HT		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H894 C - 100 - HT	H895 C - 100 - HT		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H894 C - 150 - HT	H895 C - 150 - HT		
1½" SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H864 C - 030 - HT	H865 C - 030 - HT	2175 PSI	HR
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H864 C - 050 - HT	H865 C - 050 - HT		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H864 C - 075 - HT	H865 C - 075 - HT		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H864 C - 100 - HT	H865 C - 100 - HT		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H864 C - 150 - HT	H865 C - 150 - HT		

① Fractional sizes apply to NPTF
and BSPP.

(example) **H 795 C - 030 - HR**



NOTE: **HT** suffix represents standard high temperature configuration. For reverse flow high temperature, replace **HT** with **HR** suffix.

Canadian Registration Flow Meters

For Water-based Fluids (Water/Oil Emulsions)

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.0 S.G.
- For 80/20 and other water/oil emulsions

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:	Retaining Ring: T316 SS
Spider Plate: T316 SS	Retaining Spring: T316 SS
Spring: T302 SS	Indicator and Internal Magnet: PPS / Ceramic
Fasteners: T303 SS	Guard Seal / Bumper: Buna N
Pressure Seals: Viton®	Scale Support: 6063 - T6 Aluminum
Guard: Polycarbonate	End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 14.

PRESSURE RATING:

See Ordering Information Table.

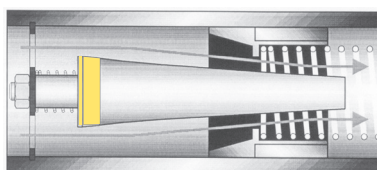
PRESSURE DROP: See Ordering Information Table, page 13.

For detailed differential pressure charts, see the Hedland full-line catalog.

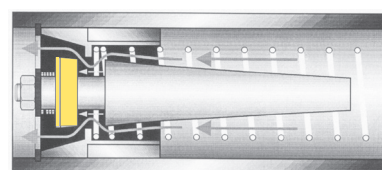
ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for 1/4" meters **REPEATABILITY:** $\pm 1\%$



REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice. This shift creates a gap which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

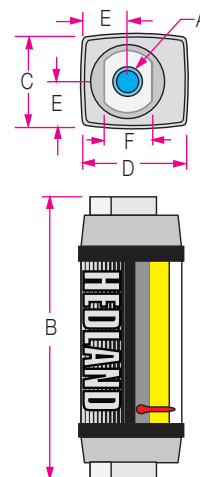


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
1/4 (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
1/2 (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
3/4 (SAE 12)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1 (SAE 16)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 1/4 (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 1/2 (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Viton is a registered trademark of DuPont Dow Elastomers

Canadian Registration Flow Meters

For Water-based Fluids (Water/Oil Emulsions)

ORDERING INFORMATION:

NOMINAL PORT SIZE ^②	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	.02 - 0.2	0.1 - 0.75	3.5 (.24)	4.0 (.28)		H212 C - 002	H213 C - 002	5000 PSI	Not Available
	.05 - 0.5	0.2 - 1.9	3.0 (.21)	5.0 (.35)		H212 C - 005	H213 C - 005		
	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)		H212 C - 010	H213 C - 010		
	0.2 - 2.0	1 - 7.5	6.0 (.41)	13 (.90)		H212 C - 020	H213 C - 020		
½" SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	5.2 (.36)	H612 C - 001 - †	H613 C - 001 - †	3000 PSI	RF
	0.2 - 2.0	1 - 7.5	2.0 (.14)	3.0 (.21)	9.6 (.66)	H612 C - 002 - †	H613 C - 002 - †		
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	4.8 (.33)	H612 C - 005 - †	H613 C - 005 - †		
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	23.0 (1.6)	H612 C - 010 - †	H613 C - 010 - †		
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	55.2 (3.8)	H612 C - 015 - †	H613 C - 015 - †		
¾" SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H712 C - 002 - †	H713 C - 002 - †	2500 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H712 C - 005 - †	H713 C - 005 - †		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H712 C - 010 - †	H713 C - 010 - †		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H712 C - 020 - †	H713 C - 020 - †		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H712 C - 030 - †	H713 C - 030 - †		
1" SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H782 C - 002 - †	H783 C - 002 - †	2500 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H782 C - 005 - †	H783 C - 005 - †		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H782 C - 010 - †	H783 C - 010 - †		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H782 C - 020 - †	H783 C - 020 - †		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H785 C - 030 - †	H783 C - 030 - †		
	4 - 40	15 - 150	9.0 (.62)	24 (1.7)	87.5 (6.04)	H782 C - 040 - †	H783 C - 040 - †		
	5 - 50	20 - 190	12.5 (.86)	34 (2.3)	150 (10.4)	H782 C - 050 - †	H783 C - 050 - †		
1¼" SAE 20	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H812 C - 030 - †	H813 C - 030 - †	2450 PSI	RF
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H812 C - 050 - †	H813 C - 050 - †		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H812 C - 075 - †	H813 C - 075 - †		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H812 C - 100 - †	H813 C - 100 - †		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H812 C - 150 - †	H813 C - 150 - †		
1½" SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H882 C - 030 - †	H883 C - 030 - †	2450 PSI	RF
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H882 C - 050 - †	H883 C - 050 - †		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H882 C - 075 - †	H883 C - 075 - †		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H882 C - 100 - †	H883 C - 100 - †		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H882 C - 150 - †	H883 C - 150 - †		

②Fractional sizes apply to NPTF.

(example) H 713 **C** - 030 - **RF**



Canadian Registered High Temperature Flow Meters For Water-based Fluids (Water/Oil Emulsions)

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 500 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.0 S.G.
- For 80/20 and other water/oil emulsions

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Seals: Viton®

Scale Support: T316 SS

Scale: Polymide

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator: Nickel-plated Carbon Steel

Internal Magnet: Teflon® Coated Alnico 8

Bumper: 2011 - T3 Anodized Aluminum

Guard: Cylindrical Pyrex® Glass

End Caps: 2011 - T3 Anodized Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous

PRESSURE RATING:

See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

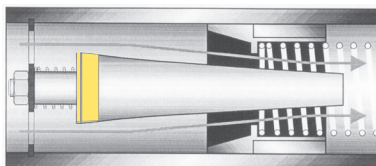
For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale

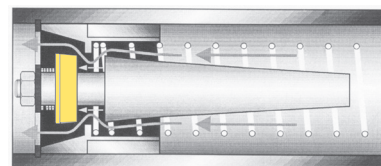
REPEATABILITY: $\pm 1\%$



REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice, which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction

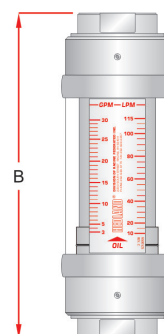
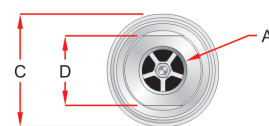


Reverse Flow By-Pass

DIMENSIONS:

A	B	C	D
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	FLATS in (mm)
¼ (SAE 6)	6.60 (168)	2.01 (51)	1.25 (32)
½ (SAE 10)	6.60 (168)	2.01 (51)	1.25 (32)
¾ (SAE 12)	7.20 (183)	2.48 (63)	1.50 (38)
1 (SAE 16)	7.20 (183)	2.48 (63)	1.75 (44)
1¼ (SAE 20)	12.20 (310)	4.20 (107)	2.75 (70)
1½ (SAE 24)	12.20 (310)	4.20 (107)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Pyrex is a registered trademark of Corning, Inc.
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.
Viton is a registered trademark of DuPont Dow Elastomers

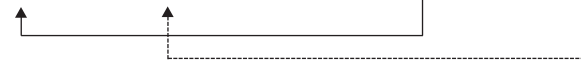
Canadian Registration High Temperature Flow Meters For Water-based Fluids (Water/Oil Emulsions)

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)		PRESSURE	OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	RATING	REVERSE FLOW
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)		H212 C - 010 - HT	H213 C - 010 - HT	3000 PSI	Not Available
	0.2 - 2.0	1.0 - 7.5	6.0 (.41)	13.0 (.90)		H212 C - 020 - HT	H213 C - 020 - HT		
½" SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	5.2 (.36)	H612 C - 001 - HT	H613 C - 001 - HT	3000 PSI	HR
	0.2 - 2.0	1 - 7.5	2.0 (.14)	3.0 (.21)	9.6 (.66)	H612 C - 002 - HT	H613 C - 002 - HT		
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	4.8 (.33)	H612 C - 005 - HT	H613 C - 005 - HT		
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	23.0 (1.6)	H612 C - 010 - HT	H613 C - 010 - HT		
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	55.2 (3.8)	H612 C - 015 - HT	H613 C - 015 - HT		
¾" SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H712 C - 002 - HT	H713 C - 002 - HT	2350 PSI	HR
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H712 C - 005 - HT	H713 C - 005 - HT		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H712 C - 010 - HT	H713 C - 010 - HT		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H712 C - 020 - HT	H713 C - 020 - HT		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H712 C - 030 - HT	H713 C - 030 - HT		
1" SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H782 C - 002 - HT	H783 C - 002 - HT	2350 PSI	HR
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H782 C - 005 - HT	H783 C - 005 - HT		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H782 C - 010 - HT	H783 C - 010 - HT		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H782 C - 020 - HT	H783 C - 020 - HT		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H782 C - 030 - HT	H783 C - 030 - HT		
	4 - 40	15 - 150	9.0 (.62)	24.0 (1.7)	87.5 (6.04)	H782 C - 040 - HT	H783 C - 040 - HT		
	5 - 50	20 - 190	12.5 (.86)	34.0 (2.3)	150 (10.4)	H782 C - 050 - HT	H783 C - 050 - HT		
1¼" SAE 20	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H812 C - 030 - HT	H813 C - 030 - HT	2175 PSI	HR
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H812 C - 050 - HT	H813 C - 050 - HT		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H812 C - 075 - HT	H813 C - 075 - HT		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H812 C - 100 - HT	H813 C - 100 - HT		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H812 C - 150 - HT	H813 C - 150 - HT		
1½" SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H882 C - 030 - HT	H883 C - 030 - HT	2175 PSI	HR
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H882 C - 050 - HT	H883 C - 050 - HT		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H882 C - 075 - HT	H883 C - 075 - HT		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H882 C - 100 - HT	H883 C - 100 - HT		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H882 C - 150 - HT	H883 C - 150 - HT		

① Fractional sizes apply to NPTF.

(example) **H 713 C - 030 - HR**



NOTE: **HT** suffix represents standard high temperature configuration.
For reverse flow high temperature, replace **HT** with **HR** suffix.

Canadian Registration Flow Meters

For Water and Other Liquids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.0 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, C360 Brass piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: Viton®

Guard: Polycarbonate

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator and Internal Magnet: PPS / Ceramic

Guard Seal / Bumper: Buna N

Scale Support: 6063 - T6 Aluminum

End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 18.

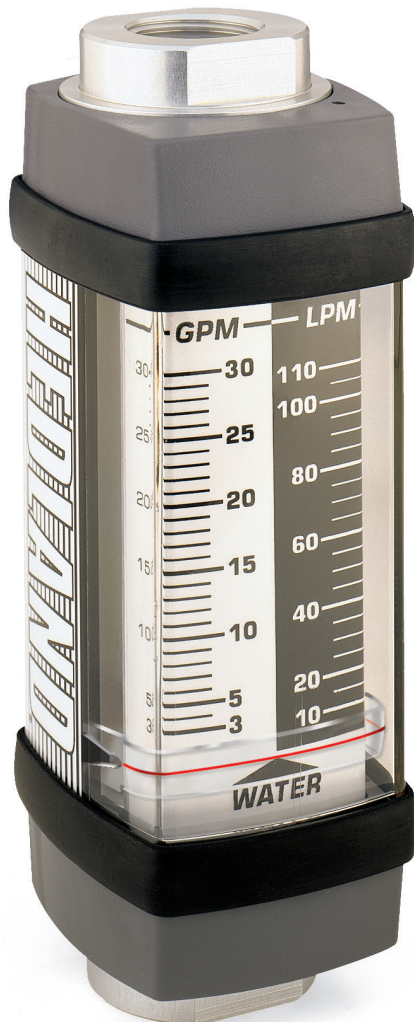
PRESSURE RATING:

See Order Information Table.

PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

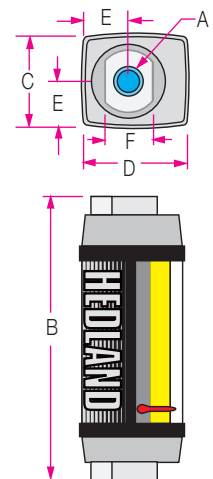
ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for $\frac{1}{4}$ " meters **REPEATABILITY:** $\pm 1\%$



DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
$\frac{1}{4}$ (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
$\frac{1}{2}$ (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
$\frac{3}{4}$ (SAE 12)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1 (SAE 16)	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 $\frac{1}{4}$ (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 $\frac{1}{2}$ (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Canadian Registration Flow Meters

For Water and Other Liquids

ORDERING INFORMATION:

NOMINAL PORT SIZE ②	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)		PRESSURE
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF	RATING
¼" SAE 6	.02 - 0.2 .05 - 0.5 0.1 - 1.0 0.2 - 2.0	0.1 - 0.75 0.2 - 1.9 0.5 - 3.75 1 - 7.5	3.5 (.24) 3.0 (.21) 4.0 (.28) 6.0 (.41)	4.0 (.28) 5.0 (.35) 9.0 (.62) 13 (.90)	H204 C - 002 H204 C - 005 H204 C - 010 H204 C - 020	H205 C - 002 H205 C - 005 H205 C - 010 H205 C - 020	5000 PSI
½" SAE 10	0.1 - 1.0 0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	0.5 - 3.75 1 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	2.75 (.19) 3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	H604 C - 001 H604 C - 002 H604 C - 005 H604 C - 010 H604 C - 015	H605 C - 001 H605 C - 002 H605 C - 005 H605 C - 010 H605 C - 015	3000 PSI
¾" SAE 12	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	H704 C - 002 H704 C - 005 H704 C - 010 H704 C - 020 H704 C - 030	H705 C - 002 H705 C - 005 H705 C - 010 H705 C - 020 H705 C - 030	2500 PSI
1" SAE 16	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150 20 - 190	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62) 12.5 (.86)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24 (1.7) 34 (2.3)	H754 C - 002 H754 C - 005 H754 C - 010 H754 C - 020 H754 C - 030 H754 C - 040 H754 C - 050	H755 C - 002 H755 C - 005 H755 C - 010 H755 C - 020 H755 C - 030 H755 C - 040 H755 C - 050	2500 PSI
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	H804 C - 030 H804 C - 050 H804 C - 075 H804 C - 100 H804 C - 150	H805 C - 030 H805 C - 050 H805 C - 075 H805 C - 100 H805 C - 150	2450 PSI
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	H854 C - 030 H854 C - 050 H854 C - 075 H854 C - 100 H854 C - 150	H855 C - 030 H855 C - 050 H855 C - 075 H855 C - 100 H855 C - 150	2450 PSI

② Fractional sizes apply to NPTF.

(example) H 705 **C** - 030



Canadian Registered High Temperature Flow Meters For Water and Other Liquids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 500 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.0 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, C360 Brass piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Seals: Viton®

Scale Support: T316 SS

Scale: Polymide

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator: Nickel-plated Carbon Steel

Internal Magnet: Teflon® Coated Alnico 8

Bumper: 2011 - T3 Anodized Aluminum

Guard: Cylindrical Pyrex® Glass

End Caps: 2011 - T3 Anodized Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous

PRESSURE RATING:

See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale

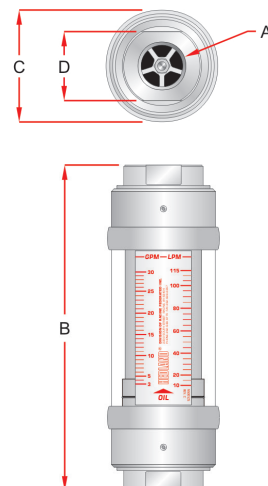
REPEATABILITY: $\pm 1\%$



DIMENSIONS:

A	B	C	D
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	FLATS in (mm)
¼ (SAE 6)	6.60 (168)	2.01 (51)	1.25 (32)
½ (SAE 10)	6.60 (168)	2.01 (51)	1.25 (32)
¾ (SAE 12)	7.20 (183)	2.48 (63)	1.50 (38)
1 (SAE 16)	7.20 (183)	2.48 (63)	1.75 (44)
1¼ (SAE 20)	12.20 (310)	4.20 (107)	2.75 (70)
1½ (SAE 24)	12.20 (310)	4.20 (107)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.



Pyrex is a registered trademark of Corning, Inc.
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.
Viton is a registered trademark of DuPont Dow Elastomers

Canadian Registration High Temperature Flow Meters For Water and Other Liquids

ORDERING INFORMATION:

NOMINAL PORT SIZE ^②	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)		PRESSURE
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF	RATING
¼" SAE 6	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1.0 - 7.5	4.0 (.28) 6.0 (.41)	9.0 (.62) 13.0 (.90)	H204 C - 010 - HT H204 C - 020 - HT	H205 C - 010 - HT H205 C - 020 - HT	3000 PSI
½" SAE 10	0.1 - 1.0 0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	0.5 - 3.75 1.0 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	2.75 (.19) 3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	H604 C - 001 - HT H604 C - 002 - HT H604 C - 005 - HT H604 C - 010 - HT H604 C - 015 - HT	H605 C - 001 - HT H605 C - 002 - HT H605 C - 005 - HT H605 C - 010 - HT H605 C - 015 - HT	3000 PSI
¾" SAE 12	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	H704 C - 002 - HT H704 C - 005 - HT H704 C - 010 - HT H704 C - 020 - HT H704 C - 030 - HT	H705 C - 002 - HT H705 C - 005 - HT H705 C - 010 - HT H705 C - 020 - HT H705 C - 030 - HT	2350 PSI
1" SAE 16	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40 5 - 50	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150 20 - 190	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62) 12.5 (.86)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24.0 (1.7) 34.0 (2.3)	H754 C - 002 - HT H754 C - 005 - HT H754 C - 010 - HT H754 C - 020 - HT H754 C - 030 - HT H754 C - 040 - HT H754 C - 050 - HT	H755 C - 002 - HT H755 C - 005 - HT H755 C - 010 - HT H755 C - 020 - HT H755 C - 030 - HT H755 C - 040 - HT H755 C - 050 - HT	2350 PSI
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	H804 C - 030 - HT H804 C - 050 - HT H804 C - 075 - HT H804 C - 100 - HT H804 C - 150 - HT	H805 C - 030 - HT H805 C - 050 - HT H805 C - 075 - HT H805 C - 100 - HT H805 C - 150 - HT	2175 PSI
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	H854 C - 030 - HT H854 C - 050 - HT H854 C - 075 - HT H854 C - 100 - HT H854 C - 150 - HT	H855 C - 030 - HT H855 C - 050 - HT H855 C - 075 - HT H855 C - 100 - HT H855 C - 150 - HT	2175 PSI

① Fractional sizes apply to NPTF.

(example) H 705 **C** - 030 - **HT**

NOTE: **HT** suffix represents standard high temperature configuration.

Canadian Registration Flow Meters

For A.P.I. Oil / Caustic and Corrosive Liquids

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Good viscosity stability
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, piston and cone

COMMON PARTS:	Retaining Ring: T316 SS
Spider Plate: T316 SS	Retaining Spring: T316 SS
Spring: T316 SS	Indicator and Internal Magnet: PPS / Ceramic
Fasteners: T316 SS	Guard Seal / Bumper: Buna N
Pressure Seals: Viton®	Scale Support: 6063 - T6 Aluminum
Guard: Polycarbonate	End Caps: Nylon ST

THREADS: NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temperatures consult factory

PRESSURE RATING:

Oil/Liquids Operating: See Ordering Information Table.

PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for 1/4" meters **REPEATABILITY:** $\pm 1\%$

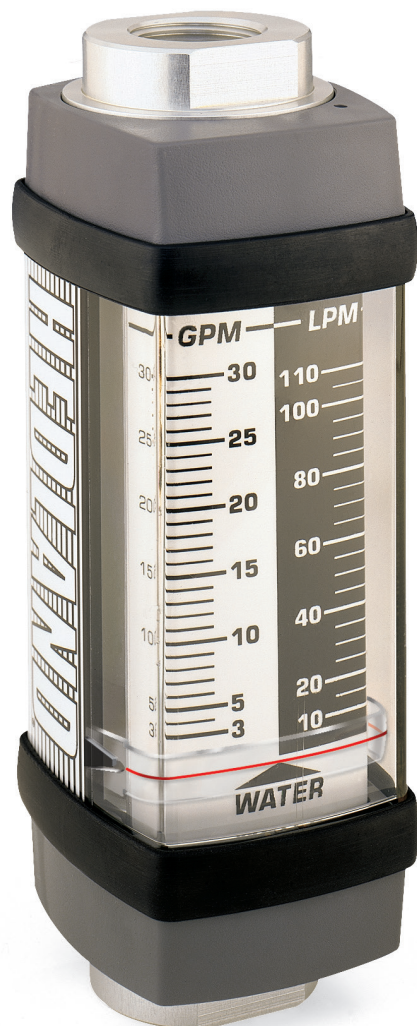
HOSTILE ENVIRONMENT OPTION SPECIFICATIONS:

MATERIALS:

T316 Stainless body, piston and cone

COMMON PARTS:	Retaining Ring: T316 SS
Spider Plate: T316 SS	Retaining Spring: T316 SS
Spring: T316 SS	Indicator: T416 SS
Fasteners: T316 SS	Bumper: T316 SS
Seals: Viton®	Scale Support: T316 SS
End Caps: T316 SS	Guard: Cylindrical Pyrex® glass
Internal Magnet: Teflon® Coated Alnico 8	

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous
+400 to +500 °F (+205 to +260 °C) Intermittent



DIMENSIONS:

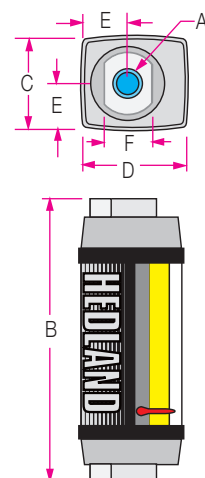
A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
1/4	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
1/2	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
3/4	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 1/4	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 1/2	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.

Pyrex is a registered trademark of Corning, Inc.

Teflon is a registered trademark of E.I. DuPont de Nemours & Co.

Viton is a registered trademark of DuPont Dow Elastomers



Canadian Registration Flow Meters

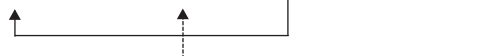
For A.P.I. Oil / Caustic and Corrosive Liquids

ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)		HOSTILE ENVIRONMENT OPTION
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	API - OIL .876 (S.G.) NPTF	LIQUIDS 1.0 (S.G.) NPTF	
1/4"	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1 - 7.5	4.0 (.28) 6.0 (.41)	9.0 (.62) 13.0 (.90)	3000 PSI H231C - 010 - † H231C - 020 - †	3000 PSI H234C - 010 - † H234C - 020 - †	3000 PSI HE
1/2"	0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	1 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	3000 PSI H631C - 002 - † H631C - 005 - † H631C - 010 - † H631C - 015 - †	3000 PSI H634C - 002 - † H634C - 005 - † H634C - 010 - † H634C - 015 - †	3000 PSI HE
3/4"	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	2500 PSI H731C - 002 - † H731C - 005 - † H731C - 010 - † H731C - 020 - † H731C - 030 - †	2500 PSI H734C - 002 - † H734C - 005 - † H734C - 010 - † H734C - 020 - † H734C - 030 - †	2350 PSI HE
1"	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24.0 (1.7)	2500 PSI H741C - 002 - † H741C - 005 - † H741C - 010 - † H741C - 020 - † H741C - 030 - † H741C - 040 - †	2500 PSI H744C - 002 - † H744C - 005 - † H744C - 010 - † H744C - 020 - † H744C - 030 - † H744C - 040 - †	2350 PSI HE
1 1/4"	3 - 30 5 - 50 10 - 75 10 - 100	10 - 110 20 - 190 40 - 280 50 - 380	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0)	2450 PSI H831C - 030 - † H831C - 050 - † H831C - 075 - † H831C - 100 - †	2450 PSI H834C - 030 - † H834C - 050 - † H834C - 075 - † H834C - 100 - †	2175 PSI HE
1 1/2"	3 - 30 5 - 50 10 - 75 10 - 100	10 - 110 20 - 190 40 - 280 50 - 380	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0)	2450 PSI H841C - 030 - † H841C - 050 - † H841C - 075 - † H841C - 100 - †	2450 PSI H844C - 030 - † H844C - 050 - † H844C - 075 - † H844C - 100 - †	2175 PSI HE

NOTE: Consult factory for availability.

(example) H731C - 030 - HE



Canadian Registration Flow Meters

For Air / Caustic and Corrosive Gases

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, piston and cone

COMMON PARTS:	Retaining Ring: T316 SS
Spider Plate: T316 SS	Retaining Spring: T316 SS
Spring: T316 SS	Indicator and Internal Magnet: PPS / Ceramic
Fasteners: T316 SS	Guard Seal/Bumper: Buna N
Pressure Seals: Viton®	Scale Support: 6063 - T6 Aluminum
Guard: Polycarbonate	End Caps: Nylon ST

THREADS: NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

PRESSURE RATING:

Air / Gases Operating: 1,500 psi/103 bar max.

PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for 1/4" meters **REPEATABILITY:** $\pm 1\%$

HOSTILE ENVIRONMENT OPTION SPECIFICATIONS:

MATERIALS:

T316 Stainless body, piston and cone

COMMON PARTS:	Retaining Ring: T316 SS
Spider Plate: T316 SS	Retaining Spring: T316 SS
Spring: T316 SS	Indicator: T416 SS
Fasteners: T316 SS	Bumper: T316 SS
Seals: Viton®	Scale Support: T316 SS
End Caps: T316 SS	Guard: Cylindrical Pyrex® glass
Internal Magnet: Teflon® Coated Alnico 8	

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous
+400 to +500 °F (+205 to +260 °C) Intermittent

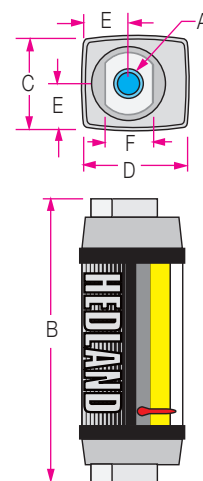


DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
1/4	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
1/2	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
3/4	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)
1 1/4	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1 1/2	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

NOTE: Weights for all sizes can be found on page 40.

Pyrex is a registered trademark of Corning, Inc.
Teflon is a registered trademark of E.I. DuPont de Nemours & Co.
Viton is a registered trademark of DuPont Dow Elastomers



Canadian Registration Flow Meters

For Air / Caustic and Corrosive Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)	HOSTILE ENVIRONMENT OPTION
	①	②	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	GASES 1.0 (S.G.)	
	SCFM	L/SEC			NPTF	
1/4"	2-20 3-30	1-9 1.5-14	10.15 (0.70) 13.75 (0.95)	18.71 (1.29) 26.23 (1.81)	H237C - 020 H237C - 030	Not Available
1/2"	3-25 5-50 10-100 15-150	2-12 3-22 5-47 7-70	3.73 (0.26) 6.04 (0.42) 7.18 (0.50) 8.06 (0.56)	6.10 (0.42) 10.35 (0.71) 13.85 (0.95) 18.49 (1.27)	H637C - 025 - † H637C - 050 - † H637C - 100 - † H637C - 150 - †	HE
3/4"	3-25 5-50 10-100 15-150 25-250	1.5-11.5 2-23 5-47.5 7-70 10-118	2.99 (0.21) 2.00 (0.14) 7.19 (0.50) 4.44 (0.31) 6.27 (0.43)	5.90 (0.41) 3.58 (0.25) 12.87 (0.89) 9.52 (0.66) 15.38 (1.06)	H737C - 025 - † H737C - 050 - † H737C - 100 - † H737C - 150 - † H737C - 250 - †	HE
1"	3-25 5-50 10-100 15-150 25-250	1.5-11.5 2-23 5-47.5 7-70 10-118	2.99 (0.21) 2.00 (0.14) 7.19 (0.50) 4.44 (0.31) 6.27 (0.43)	5.90 (0.41) 3.58 (0.25) 12.87 (0.89) 9.52 (0.66) 15.38 (1.06)	H747C - 025 - † H747C - 050 - † H747C - 100 - † H747C - 150 - † H747C - 250 - †	HE
1 1/4"	20-200 40-400 60-600 80-800	10-95 20-180 30-280 50-350	1.89 (0.13) 2.53 (0.17) 4.47 (0.31) 6.13 (0.42)	3.16 (0.22) 5.49 (0.38) 10.71 (0.74) 17.14 (1.18)	H837C - 200 - † H837C - 400 - † H837C - 600 - † H837C - 800 - †	HE
1 1/2"	20-200 40-400 60-600 80-800	10-95 20-180 30-280 50-350	1.89 (0.13) 2.53 (0.17) 4.47 (0.31) 6.13 (0.42)	3.16 (0.22) 5.49 (0.38) 10.71 (0.74) 17.14 (1.18)	H847C - 200 - † H847C - 400 - † H847C - 600 - † H847C - 800 - †	HE

(example) H 737C - 250 - HE

NOTE: Consult factory for availability.

① SCFM/PSI multipressure scales are standard.

② L/sec/bar multipressure scales are available at no extra charge. Consult factory for other options.

NOTE: When ordering a L/sec/bar scale add "S1" suffix to part number

(example) H737 X - 250 - S1 or H737 X - 250 - HE - S1

Canadian Registration Flow Meters

For Air and Other Compressed Gases

- Direct reading
- Install in any position
- 360° rotatable guard/scale
- Easier-to-read linear scale
- No flow straighteners or special piping required
- Relatively insensitive to shock and vibration
- Temperature up to 240 °F
- Accuracy $\pm 2\%$ full scale
- Repeatability $\pm 1\%$
- Special scales available
- Calibrated for 1.0 S.G.

SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone

COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: Viton®

Guard: Polycarbonate

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator and Internal Magnet: PPS / Ceramic

Guard Seal / Bumper: Buna N

Scale Support: 6063 - T6 Aluminum

End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

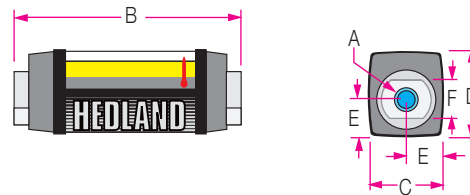
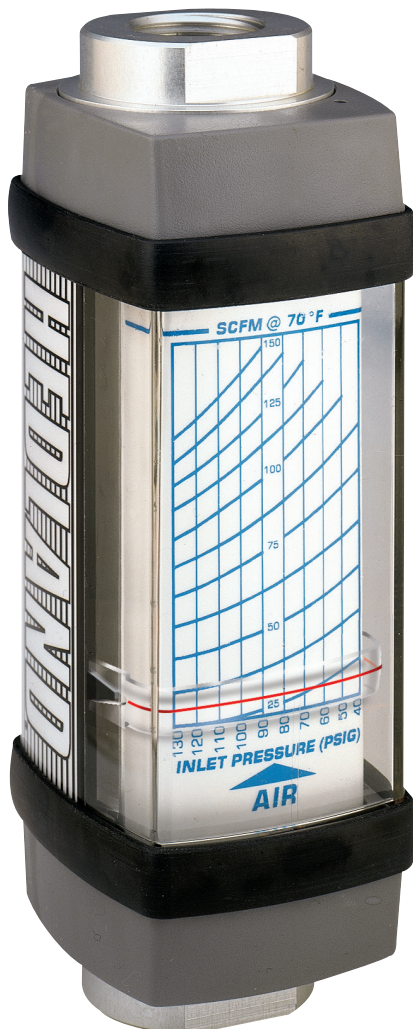
PRESSURE RATING:

Stainless Steel Operating: 1,500 psi/103 bar max.

PRESSURE DROP: See Ordering Information Table.

For detailed differential pressure charts, see the Hedland full-line catalog.

ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for $\frac{1}{4}$ " meters REPEATABILITY: $\pm 1\%$



DIMENSIONS:

A	B	B ₁	C	D	E	F	G
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)	HEIGHT in (mm)
$\frac{1}{4}$ (SAE 6)	4.8 (122)	6.12 (155)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)	5.0 (127)
$\frac{1}{2}$ (SAE 10)	6.6 (168)	8.00 (203)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)	5.4 (137)
$\frac{3}{4}$ (SAE 12)	7.2 (183)	8.9 (226)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)	5.9 (150)
1 (SAE 16)	7.2 (183)	8.9 (226)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)	5.9 (150)
1 $\frac{1}{4}$ (SAE 20)	12.2 (310)	13.8 (351)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	7.2 (183)
1 $\frac{1}{2}$ (SAE 24)	12.2 (310)	13.8 (351)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	7.2 (183)

NOTE: Weights for all sizes can be found on page 40.

Canadian Registration Flow Meters

For Air and Other Compressed Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE ^②	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)	
	③ SCFM	④ L/SEC	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF
¼" SAE 6	0.5 - 5	0.2 - 2.2	2.51 (0.17)	4.45 (0.31)	H270 C - 005 - †	H271 C - 005 - †
	1 - 10	0.5 - 4.75	9.29 (0.64)	16.46 (1.13)	H270 C - 010 - †	H271 C - 010 - †
	2 - 20	1 - 9	10.15 (0.70)	18.71 (1.29)	H270 C - 020 - †	H271 C - 020 - †
	3 - 30	1.5 - 14	13.75 (0.95)	26.23 (1.81)	H270 C - 030 - †	H271 C - 030 - †
½" SAE 10	3 - 25	2 - 12	3.73 (0.26)	6.10 (0.42)	H670 C - 025 - †	H671 C - 025 - †
	5 - 50	3 - 22	6.04 (0.42)	10.35 (0.71)	H670 C - 050 - †	H671 C - 050 - †
	10 - 100	5 - 47	7.18 (0.50)	13.85 (0.95)	H670 C - 100 - †	H671 C - 100 - †
	15 - 150	7 - 70	8.06 (0.56)	18.49 (1.27)	H670 C - 150 - †	H671 C - 150 - †
¾" SAE 12	3 - 25	1.5 - 11.5	2.99 (0.21)	5.90 (0.41)	H770 C - 025 - †	H771 C - 025 - †
	5 - 50	2 - 23	2.00 (0.14)	3.58 (0.25)	H770 C - 050 - †	H771 C - 050 - †
	10 - 100	5 - 47.5	7.19 (0.50)	12.87 (0.89)	H770 C - 100 - †	H771 C - 100 - †
	15 - 150	7 - 70	4.44 (0.31)	9.52 (0.66)	H770 C - 150 - †	H771 C - 150 - †
1" SAE 16	25 - 250	10 - 118	6.27 (0.43)	15.38 (1.06)	H770 C - 250 - †	H771 C - 250 - †
	3 - 25	1.5 - 11.5	2.99 (0.21)	5.90 (0.41)	H790 C - 025 - †	H791 C - 025 - †
	5 - 50	2 - 23	2.00 (0.14)	3.58 (0.25)	H790 C - 050 - †	H791 C - 050 - †
	10 - 100	5 - 47.5	7.19 (0.50)	12.87 (0.89)	H790 C - 100 - †	H791 C - 100 - †
1¼" SAE 20	15 - 150	7 - 70	4.44 (0.31)	9.52 (0.66)	H790 C - 150 - †	H791 C - 150 - †
	25 - 250	10 - 118	6.27 (0.43)	15.38 (1.06)	H790 C - 250 - †	H791 C - 250 - †
	20 - 200	10 - 95	1.89 (0.13)	3.16 (0.22)	H870 C - 200 - †	H871 C - 200 - †
	40 - 400	20 - 180	2.53 (0.17)	5.49 (0.38)	H870 C - 400 - †	H871 C - 400 - †
1½" SAE 24	60 - 600	30 - 280	4.47 (0.31)	10.71 (0.74)	H870 C - 600 - †	H871 C - 600 - †
	80 - 800	50 - 350	6.13 (0.42)	17.14 (1.18)	H870 C - 800 - †	H871 C - 800 - †
	100 - 1000	50 - 475	9.84 (0.68)	28.45 (1.96)	H870 C - 999 - †	H871 C - 999 - †
	20 - 200	10 - 95	1.89 (0.13)	3.16 (0.22)	H890 C - 200 - †	H891 C - 200 - †
1½" SAE 24	40 - 400	20 - 180	2.53 (0.17)	5.49 (0.38)	H890 C - 400 - †	H891 C - 400 - †
	60 - 600	30 - 280	4.47 (0.31)	10.71 (0.74)	H890 C - 600 - †	H891 C - 600 - †
	80 - 800	50 - 350	6.13 (0.42)	17.14 (1.18)	H890 C - 800 - †	H891 C - 800 - †
	100 - 1000	50 - 475	9.84 (0.68)	28.45 (1.96)	H890 C - 999 - †	H891 C - 999 - †

NOTE: Consult factory for other options.

② Fractional sizes apply to NPTF.

③ SCFM/PSI multipressure scales are standard.

④ L/sec/bar multipressure
scales are available at no extra charge.

(example) **H 771 C - 050**

NOTE: When ordering a L/sec/bar
scale add "S1" suffix to part number

(example) H771 **A** - 250 - **S1**

Canadian Registration Flow-Alert™ Flow Switches (Micro Switch)

For Liquids / Air and Other Compressed Gases

- Automatically signals alarm if flow is too high or too low
- Automatically opens or closes electrical circuits
- Triggers warning lights, buzzers and other devices
- Shuts down pumps and/or other equipment to protect your operation against permanent damage
- Available from ¼" to 1½" sizes in aluminum, brass and stainless
- Installs in any position
- Easier-to-read linear scale
- No flow straighteners or special piping requirements
- Relatively insensitive to shock and vibration
- Special scales available



SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air Meters)

T316 Stainless body, C360 Brass piston and cone (Water meters)

T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: Viton®

Lens: Polycarbonate

Retaining Ring: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

Indicator and Internal Magnet: PPS / Ceramic

Enclosure Seal: Silicone gasket

Scale Support: 6063 - T6 Aluminum

PHOSPHATE ESTER (PE) COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: EPR

Lens: Polycarbonate

Retaining Ring: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

Indicator and Internal Magnet: PPS / Ceramic

Enclosure Seal: Silicone gasket

Scale Support: 6063 - T6 Aluminum

WATER-BASED (WBF), WATER, AIR COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: Viton®

Lens: Polycarbonate

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator and Internal Magnet: PPS / Ceramic

Enclosure Seal: Silicone gasket

Scale Support: 6063 - T6 Aluminum

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:

Spider Plate: T316 SS

Spring: T316 SS

Fasteners: T316 SS

Pressure Seals: Viton®

Lens: Polycarbonate

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator and Internal Magnet: PPS / Ceramic

Enclosure Seal: Silicone gasket

Scale Support: 6063 - T6 Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

PRESSURE RATING:

See Ordering Information Tables pages 33-39.

ACCURACY: ±2% of full scale

REPEATABILITY: ±1%

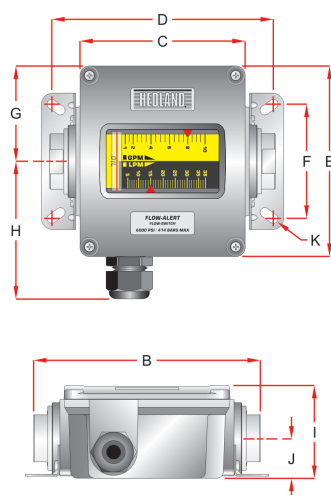
PRESSURE DROP REFERENCE TABLE:

	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 5	p. 9	p. 13	p. 17	p. 21	p. 21	p. 23	p. 25
Pressure Drop Charts	See Hedland full-line catalog							

Viton is a registered trademark of DuPont Dow Elastomers

Canadian Registration Flow-Alert™ Flow Switches (Micro Switch)

For Liquids / Air and Other Compressed Gases



DIMENSIONS:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.6 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
½ (SAE 10)	6.6 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
¾ (SAE 12)	7.2 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
1 (SAE 16)	7.2 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
1¼ (SAE 20)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.28 (7)
1½ (SAE 24)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.28 (7)

ENCLOSURE:

Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens.

Seals: Silicone gasket between enclosure and lens.

Viton® O-rings between enclosure and flow meter body.

Connection: Pig-tail conductor (standard) with water-tight strain relief.

Other connections, including quick-disconnect, are available – consult factory for details.

Fastener: T303 SS

Rating: NEMA 12 & 13 (IP52/54)

ELECTRICAL CIRCUITRY:

Adjustable Flow-Alert™ signal: single (1) or double (2) switch, pre-wired single-pole, double-throw (SPDT) with high or low flow limit setting, adjustable over the entire flow measuring range. Other switches are available – consult factory for details.

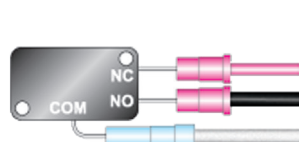
10A @ 250 VAC maximum, 0.5A @ 125 VDC maximum.

All Flow-Alert sizes (¼ to 1½ inch series) are offered in single (1) switch or double (2) switch models.

The single switch model is supplied with a 34" length of 4-wire #18 AWG jacketed cable.

The double switch model is supplied with an 18" length of 7-wire #16 AWG jacketed cable.

Optional 8 ft. cables are available – consult factory for details.



One (1) Switch 4-wire cable

Red: Normally Closed (NC)
Black: Normally Open (NO)
White: Common (COM)
Green: Ground

Two (2) Switch 7-wire cable

Switch #1

Red: Normally Closed (NC)

Black: Normally Open (NO)

White: Common (COM)

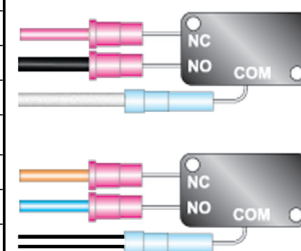
Switch #2

Orange: Normally Closed (NC)

Blue: Normally Open (NO)

White/Black: Common (COM)

Green: Ground



NOTE: Weights for all sizes can be found on page 40.

Canadian Registration Flow-Alert™ Flow Switches (Reed Switch)

For Liquids / Air and Other Compressed Gases

- No mechanical linkage
- Automatically signals alarm if flow is too high or too low
- Available from 1/4" to 1 1/2" sizes in aluminum, brass and stainless
- Installs in any position
- Easier-to-read linear scale
- No flow straighteners or special piping requirements
- Relatively insensitive to shock and vibration
- Special scales available



SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air meters)

T316 Stainless body, C360 Brass piston and cone (Water meters)

T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

PHOSPHATE ESTER (PE) COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: EPR **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

WATER-BASED (WBF), WATER, AIR COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T302 SS **Retaining Spring:** T316 SS
Fasteners: T303 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:

Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T316 SS **Retaining Spring:** T316 SS
Fasteners: T316 SS **Indicator:** T400 Series Stainless
Pressure Seals: Viton® **Internal Magnet:** Teflon® Coated Alnico 8
Lens: Polycarbonate **Switch Carrier:** Aluminum
Enclosure Seal: Silicone gasket **Scale Support:** 6063 - T6 Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-20 to +116 °C)

PRESSURE RATING:

See Ordering Information Tables pages 33-39.

ACCURACY: ±2% of full scale, ±7% of full scale for 4.8" (122 mm) length 1/4" meters

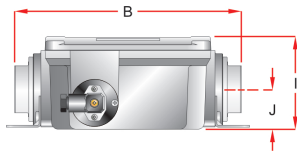
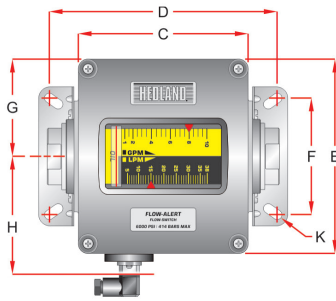
REPEATABILITY: ±1%

PRESSURE DROP REFERENCE TABLE:

	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 5	p. 9	p. 13	p. 17	p. 21	p. 21	p. 23	p. 25
Pressure Drop Charts	See Hedland full-line catalog							

Canadian Registration Flow-Alert™ Flow Switches (Reed Switch)

For Liquids / Air and Other Compressed Gases

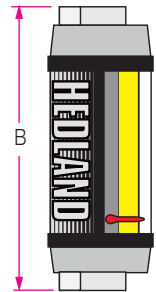
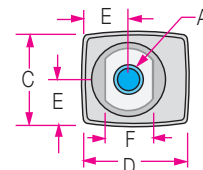


DIMENSIONS:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.6 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	3.60 (91)	2.94 (75)	1.46 (37)	.28 (7)
½ (SAE 10)	6.6 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	3.60 (91)	2.94 (75)	1.46 (37)	.28 (7)
¾ (SAE 12)	7.2 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	3.60 (91)	2.94 (75)	1.46 (37)	.28 (7)
1 (SAE 16)	7.2 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	3.60 (91)	2.94 (75)	1.46 (37)	.28 (7)
1¼ (SAE 20)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	4.20 (107)	4.50 (114)	2.20 (56)	.28 (7)
1½ (SAE 24)	12.2 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	4.20 (107)	4.50 (114)	2.20 (56)	.28 (7)

DIMENSIONS:

A	B	C	D	E	F
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	FLATS in (mm)
¼ (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)



ENCLOSURE:

Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens.

Seals: Silicone gasket between enclosure and lens.

Viton® O-rings between enclosure and flow meter body.

Connection: 4-pin (Protection Class IP65)

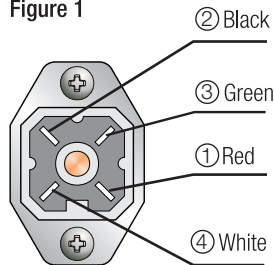
Fastener: T303 SS

Rating: NEMA 12 & 13 (IP52/54)

ELECTRICAL SPECIFICATIONS:

Adjustable Flow-Alert™ signal: single (1) or double (2) reed switch, pre-wired single-pole, single-throw (SPST-NO) normally open; or single-pole, single-throw (SPST-NC) normally closed, with high or low flow limit setting, adjustable over the entire flow measuring range.

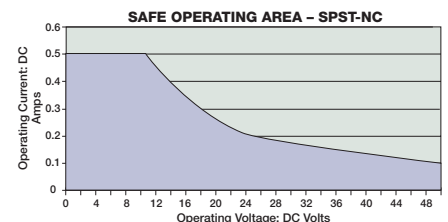
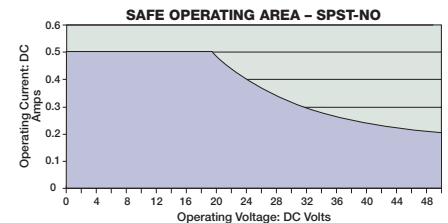
Figure 1



Electrical Circuitry:

The flow switch is supplied with 15 feet of shielded, 4-wire #22 AWG PVC jacketed cable, color coded as follows: ① Red, ② Black for single (1) Reed Switch, and ③ Green, ④ White for double (2) Reed Switch.

Contact Form	SPST-NO	SPST-NC
ELECTRICAL SPECIFICATIONS		
Contact Rating	10 Watts Max	5 Watts Max
Voltage, Switching	50 VDC Max	50 VDC Max
Current (resistive), Switching	0.500 A Max	0.500 A Max
OPERATING SPECIFICATIONS		
Contact Resistance, Initial	0.100 Ω Max	0.100 Ω Max
Operating Temperature	20 to +240 °F (-20 to +116 °C)	-20 to +240 °F (-20 to +116 °C)



NOTE: Weights for all sizes can be found on page 40.

Canadian Registration MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

- Full line of multi-functional remote flow indicators and transmitters
- Operate as part of a totally integrated electronic process control/data acquisition system
- Non-contact sensor electronics
- Electronic signal conditioning circuit
- Digital flow rate and total flow indication
- Proportional analog output
- In-field compensation for- Specific gravity of all fluids Viscosity of petroleum-based fluids Specific gravity, pressure, and temperature of pneumatic systems
- CE compliant- exceeds US and meets European standards for EMI/EMC
- US Patent 7,130,750



SPECIFICATIONS:

MATERIALS:

T316 Stainless body, 2024 - T351 Anodized aluminum piston and cone (Oil, PE, WBF, & Air meters)

T316 Stainless body, C360 Brass piston and cone (Water meters)

T316 Stainless body, piston and cone

PETROLEUM (Oil) COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

PHOSPHATE ESTER (PE) COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** SAE 1070/1090 Carbon Steel
Spring: T302 SS **Retaining Spring:** SAE 1070/1090 Carbon Steel
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: EPR **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

WATER-BASED (WBF), WATER, AIR COMMON PARTS:

Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T302 SS **Retaining Spring:** T316 SS
Fasteners: T303 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

API OIL / AIR / CAUSTIC and CORROSIVE LIQUIDS and GASES:

Spider Plate: T316 SS **Retaining Ring:** T316 SS
Spring: T316 SS **Retaining Spring:** T316 SS
Fasteners: T316 SS **Internal Magnet:** Teflon® Coated Alnico 8
Pressure Seals: Viton® **Enclosure Seal:** Silicone gasket
Lens: Polycarbonate

THREADS: SAE J1926/1, NPTF ANSI B2.2

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C)

PRESSURE RATING:

See Ordering Information Tables pages 33-39.

ACCURACY: ±2% of full scale

REPEATABILITY: ±1%

PRESSURE DROP REFERENCE TABLE:

	FLUID TYPE							
	Oil	PE	WBF	Water	API Oil	Caustic & Corrosive Liquids	Air/Caustic & Corrosive Gases	Air
50% / 100% Pressure Drop	p. 5	p. 9	p. 13	p. 17	p. 21	p. 21	p. 23	p. 25
Pressure Drop Charts	See Hedland full-line catalog							

Canadian Registration MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

ENCLOSURE:

Material: Anodized and epoxy powder-coated aluminum with polycarbonate lens

Seals: Silicone gaskets between enclosure and lens
Viton® O-rings between enclosure and flow meter body

Connection: 4-pin (Protection Class IP65) standard, see Figure 2
Other connections available - consult factory for details

Fasteners: T303 SS

Rating: NEMA 12 & 13 (IP 52/54)

ELECTRICAL SPECIFICATIONS:

Power

Requirement: 0-5 VDC Output: 10-30 VDC @ 0.75W maximum
0-10 VDC Output: 12-30 VDC @ 0.75W maximum
4-20 mA Output: loop-powered, 30 VDC maximum

Power

Consumption: 25 mA maximum

Analog

Outputs: 0-5 VDC and 0-10 VDC into 10,000 Ohms minimum
4-20 mA into 1000 Ohms maximum, see Figure 1

Circuit

Protection: Reverse polarity and current limiting

Transmission

Distance: 4-20 mA limited by cable resistance
0-5 VDC and 0-10 VDC 1000 feet (300 m) maximum

Isolation: Inherently isolated from the piping system

Display:

Fixed or toggle modes of operation for rate and totalizer display
8 digit, 0.70" high numeric display for rate and total
8 digit, 0.35" high alphanumeric display for units and setup

Temperature

Drift: 50 ppm / °C (max)

Analog Output: Resolution - 1:4000

Transient

Over-Voltages: Category 3, in accordance with IEC 664

Pollution

Degree: Category 2, in accordance with IEC 664

Approvals:

EMC Directive 89/336/EEC

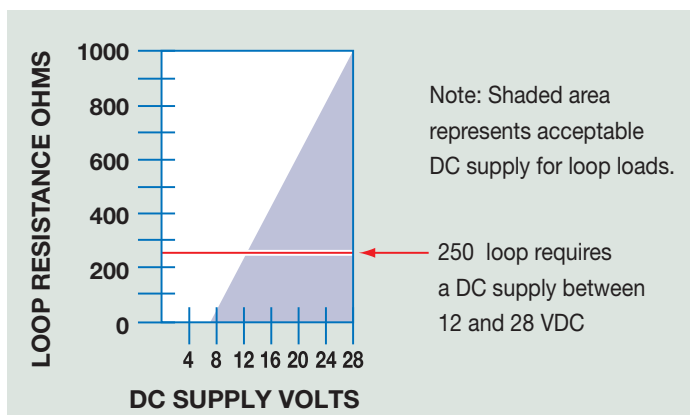
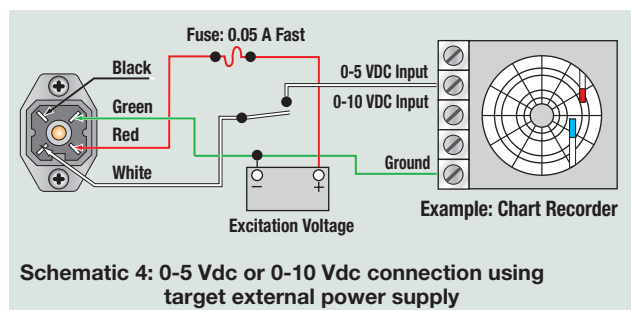
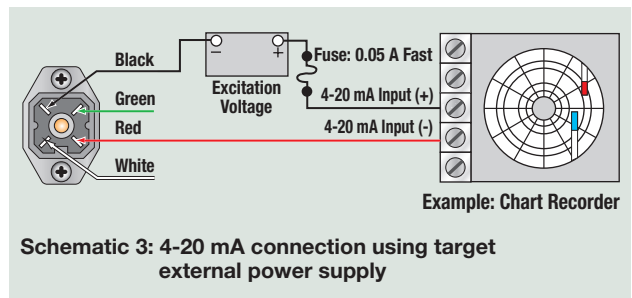
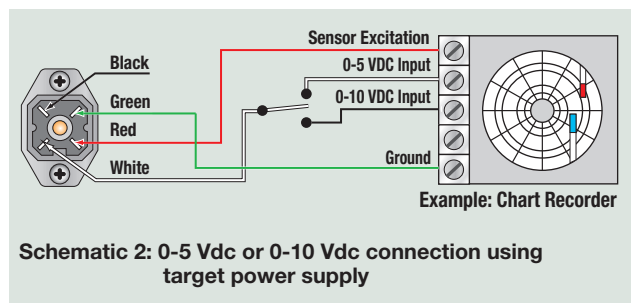
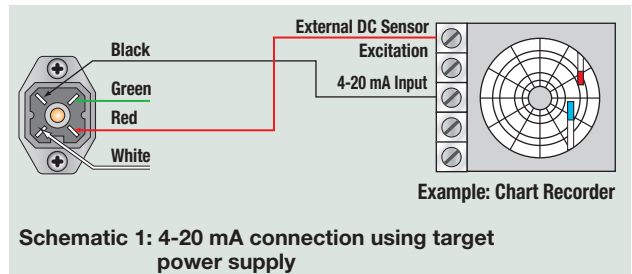


Figure 1. Load Limitations (4-20 mA Output Only)

SCHEMATICS:

The transmitter can be wired in various configurations to allow interface with many different types of data collection and control instrumentation.

Schematics 1 & 2 represent typical wiring for a target powered by either AC power or DC supply. Schematics 3 & 4 will be utilized when the flow transmitter is operated with loop-powered process indicators or data loggers that do not have external sensor excitation available.



	DC Output Connection	Loop Power Connection
2 Black:	No Connection	(-) 4-20 mA Out
3 Green:	0 VDC	No Connection
1 Red:	(+) DC Power	(+) 4-20 mA In
4 White:	0-5 VDC or 0-10 VDC Output	No Connection

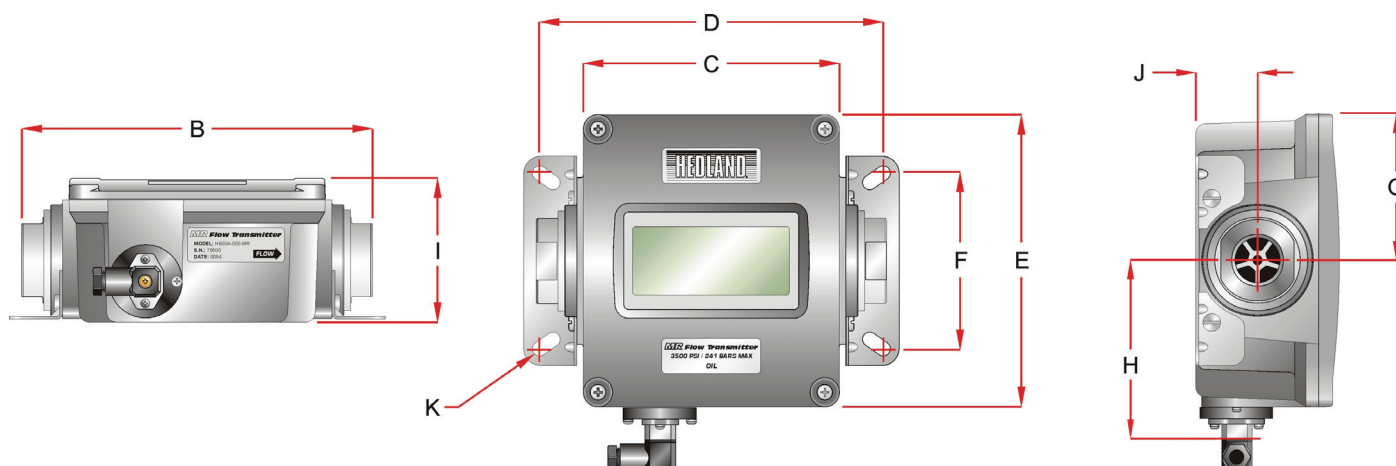
Figure 2. Electrical 4-Pin Connection

Canadian Registration MR Flow Transmitters

For Liquids / Air and Other Compressed Gases

Dimensions:

A	B	C	D	E	F	G	H	I	J	K
NOMINAL PORT SIZE	LENGTH in (mm)	LENGTH in (mm)	LENGTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	WIDTH in (mm)	DEPTH in (mm)	OFFSET in (mm)	HOLE DIA. in (mm)
¼ (SAE 6)	6.60 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
½ (SAE 10)	6.60 (168)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
¾ (SAE 12)	7.20 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
1 (SAE 16)	7.20 (183)	5.27 (134)	6.92 (176)	6.00 (152)	3.60 (91)	3.00 (76)	4.20 (107)	2.94 (75)	1.46 (37)	.28 (7)
1¼ (SAE 20)	12.20 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.28 (7)
1½ (SAE 24)	12.20 (310)	10.68 (271)	11.65 (296)	7.63 (194)	4.84 (123)	3.82 (97)	5.02 (128)	4.50 (114)	2.20 (56)	.28 (7)



Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters For Petroleum Fluids

ORDERING INFORMATION:

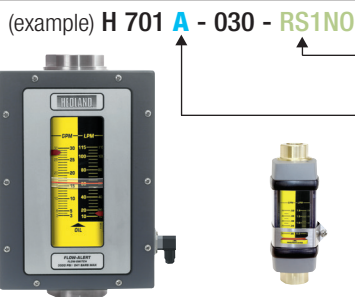
NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)		PRESSURE	OPTIONS		
	GPM	LPM	SAE	NPTF	RATING	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2	0.1 - 0.75	H200 C - 002 - †	H201 C - 002 - †	5000 PSI	Not Available	SEE OPTIONS BELOW	Not Available
	.05 - 0.5	0.2 - 1.9	H200 C - 005 - †	H201 C - 005 - †				
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	H200 C - 010 - †	H201 C - 010 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1.0 - 7.5	H200 C - 020 - †	H201 C - 020 - †				
½" SAE 10	0.1 - 1.0	0.5 - 3.75	H600 C - 001 - †	H601 C - 001 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1 - 7.5	H600 C - 002 - †	H601 C - 002 - †				
	0.5 - 5.0	2 - 19	H600 C - 005 - †	H601 C - 005 - †				
	1 - 10	5 - 38	H600 C - 010 - †	H601 C - 010 - †				
	1 - 15	4 - 56	H600 C - 015 - †	H601 C - 015 - †				
¾" SAE 12	0.2 - 2.0	1 - 7.5	H700 C - 002 - †	H701 C - 002 - †	2500 PSI	F1/F2		MR
	0.5 - 5.0	2 - 19	H700 C - 005 - †	H701 C - 005 - †				
	1 - 10	5 - 38	H700 C - 010 - †	H701 C - 010 - †				
	2 - 20	10 - 76	H700 C - 020 - †	H701 C - 020 - †				
	3 - 30	10 - 115	H700 C - 030 - †	H701 C - 030 - †				
1" SAE 16	0.2 - 2.0	1 - 7.5	H760 C - 002 - †	H761 C - 002 - †	2500 PSI	F1/F2	MR	
	0.5 - 5.0	2 - 19	H760 C - 005 - †	H761 C - 005 - †				
	1 - 10	5 - 38	H760 C - 010 - †	H761 C - 010 - †				
	2 - 20	10 - 76	H760 C - 020 - †	H761 C - 020 - †				
	3 - 30	10 - 115	H760 C - 030 - †	H761 C - 030 - †				
	4 - 40	15 - 150	H760 C - 040 - †	H761 C - 040 - †				
	5 - 50	20 - 190	H760 C - 050 - †	H761 C - 050 - †				
1¼" SAE 20	3 - 30	10 - 110	H800 C - 030 - †	H801 C - 030 - †	2450 PSI	F1/F2	MR	
	5 - 50	20 - 190	H800 C - 050 - †	H801 C - 050 - †				
	10 - 75	40 - 280	H800 C - 075 - †	H801 C - 075 - †				
	10 - 100	50 - 380	H800 C - 100 - †	H801 C - 100 - †				
	10 - 150	50 - 560	H800 C - 150 - †	H801 C - 150 - †				
1½" SAE 24	3 - 30	10 - 110	H860 C - 030 - †	H861 C - 030 - †	2450 PSI	F1/F2	MR	
	5 - 50	20 - 190	H860 C - 050 - †	H861 C - 050 - †				
	10 - 75	40 - 280	H860 C - 075 - †	H861 C - 075 - †				
	10 - 100	50 - 380	H860 C - 100 - †	H861 C - 100 - †				
	10 - 150	50 - 560	H860 C - 150 - †	H861 C - 150 - †				

① Fractional sizes apply to NPTF.

(example) H 701 **C** - 030 - **F1** or **F2**



**FlowAlert Flow
Switches**
F1 = Single Switch
F2 = Double Switch



(example) H 701 **A** - 030 - **RS1NO**

FlowAlert Reed Switches

Options:

- RS1NO** (reed switch one (1) normally open)
- RS2NO** (reed switch two (2) normally open)
- RS1NC** (reed switch one (1) normally closed)
- RS2NC** (reed switch two (2) normally closed)

(example) H 701 **A** - 030 - **MR**



Multiple Output Flow Sensor

3 Standard field selectable outputs

- 0-5 VDC
 - 0-10 VDC
 - 4-20 mA
- Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available (see Price and Availability Digest for details).

NOTE: ¼" liquid meters for .02-0.2 and .05-0.5 GPM ranges available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 5. For detailed flow/pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters For Phosphate Ester Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)		PRESSURE	OPTIONS		
	GPM	LPM	SAE	NPTF	RATING	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2	0.1 - 0.75	H294 C - 002 - †	H295 C - 002 - †	5000 PSI	Not Available	SEE OPTIONS BELOW	Not Available
	.05 - 0.5	0.2 - 1.9	H294 C - 005 - †	H295 C - 005 - †				
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	H294 C - 010 - †	H295 C - 010 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1.0 - 7.5	H294 C - 020 - †	H295 C - 020 - †				
½" SAE 10	0.1 - 1.0	0.5 - 3.75	H694 C - 001 - †	H695 C - 001 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1 - 7.5	H694 C - 002 - †	H695 C - 002 - †				
	0.5 - 5.0	2 - 19	H694 C - 005 - †	H695 C - 005 - †				
	1 - 10	5 - 38	H694 C - 010 - †	H695 C - 010 - †				
	1 - 15	4 - 56	H694 C - 015 - †	H695 C - 015 - †				
¾" SAE 12	0.2 - 2.0	1 - 7.5	H794 C - 002 - †	H795 C - 002 - †	2500 PSI	F1/F2		MR
	0.5 - 5.0	2 - 19	H794 C - 005 - †	H795 C - 005 - †				
	1 - 10	5 - 38	H794 C - 010 - †	H795 C - 010 - †				
	2 - 20	10 - 76	H794 C - 020 - †	H795 C - 020 - †				
	3 - 30	10 - 115	H794 C - 030 - †	H795 C - 030 - †				
1" SAE 16	0.2 - 2.0	1 - 7.5	H764 C - 002 - †	H765 C - 002 - †	2500 PSI	F1/F2		MR
	0.5 - 5.0	2 - 19	H764 C - 005 - †	H765 C - 005 - †				
	1 - 10	5 - 38	H764 C - 010 - †	H765 C - 010 - †				
	2 - 20	10 - 76	H764 C - 020 - †	H765 C - 020 - †				
	3 - 30	10 - 115	H764 C - 030 - †	H765 C - 030 - †				
	4 - 40	15 - 150	H764 C - 040 - †	H765 C - 040 - †				
	5 - 50	20 - 190	H764 C - 050 - †	H765 C - 050 - †				
1¼" SAE 20	3 - 30	10 - 110	H894 C - 030 - †	H895 C - 030 - †	2450 PSI	F1/F2		MR
	5 - 50	20 - 190	H894 C - 050 - †	H895 C - 050 - †				
	10 - 75	40 - 280	H894 C - 075 - †	H895 C - 075 - †				
	10 - 100	50 - 380	H894 C - 100 - †	H895 C - 100 - †				
	10 - 150	50 - 560	H894 C - 150 - †	H895 C - 150 - †				
1½" SAE 24	3 - 30	10 - 110	H864 C - 030 - †	H865 C - 030 - †	2450 PSI	F1/F2		MR
	5 - 50	20 - 190	H864 C - 050 - †	H865 C - 050 - †				
	10 - 75	40 - 280	H864 C - 075 - †	H865 C - 075 - †				
	10 - 100	50 - 380	H864 C - 100 - †	H865 C - 100 - †				
	10 - 150	50 - 560	H864 C - 150 - †	H865 C - 150 - †				

① Fractional sizes apply to NPTF.

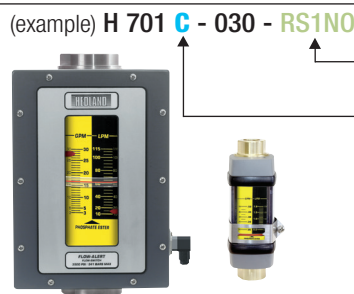
(example) H 795 **C** - 030 - **F1** or **F2**



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 795 **C** - 030 - **MR**



(example) H 701 **C** - 030 - **RS1NO**

Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC } Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow
0-10 VDC } and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available
4-20 mA } (see Price and Availability Digest for details).

NOTE: ¼" liquid meters for .02-0.2 and .05-0.5 GPM ranges available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 9.
For detailed flow/pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters

For Water-based Fluids (Water/Oil Emulsions)

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)		PRESSURE	OPTIONS		
	GPM	LPM	SAE	NPTF	RATING	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2	0.1 - 0.75	H212 C - 002 - †	H213 C - 002 - †	5000 PSI	Not Available	SEE O P T I O N S B E L O W	Not Available
	.05 - 0.5	0.2 - 1.9	H212 C - 005 - †	H213 C - 005 - †				
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	H212 C - 010 - †	H213 C - 010 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1.0 - 7.5	H212 C - 020 - †	H213 C - 020 - †				
½" SAE 10	0.1 - 1.0	0.5 - 3.75	H612 C - 001 - †	H613 C - 001 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1 - 7.5	H612 C - 002 - †	H613 C - 002 - †				
	0.5 - 5.0	2 - 19	H612 C - 005 - †	H613 C - 005 - †				
	1 - 10	5 - 38	H612 C - 010 - †	H613 C - 010 - †				
	1 - 15	4 - 56	H612 C - 015 - †	H613 C - 015 - †				
¾" SAE 12	0.2 - 2.0	1 - 7.5	H712 C - 002 - †	H713 C - 002 - †	2500 PSI	F1/F2	MR	
	0.5 - 5.0	2 - 19	H712 C - 005 - †	H713 C - 005 - †				
	1 - 10	5 - 38	H712 C - 010 - †	H713 C - 010 - †				
	2 - 20	10 - 76	H712 C - 020 - †	H713 C - 020 - †				
	3 - 30	10 - 115	H712 C - 030 - †	H713 C - 030 - †				
1" SAE 16	0.2 - 2.0	1 - 7.5	H782 C - 002 - †	H783 C - 002 - †	2500 PSI	F1/F2	MR	
	0.5 - 5.0	2 - 19	H782 C - 005 - †	H783 C - 005 - †				
	1 - 10	5 - 38	H782 C - 010 - †	H783 C - 010 - †				
	2 - 20	10 - 76	H782 C - 020 - †	H783 C - 020 - †				
	3 - 30	10 - 115	H782 C - 030 - †	H783 C - 030 - †				
	4 - 40	15 - 150	H782 C - 040 - †	H783 C - 040 - †				
5 - 50	20 - 190	H782 C - 050 - †	H783 C - 050 - †					
1¼" SAE 20	3 - 30	10 - 110	H812 C - 030 - †	H813 C - 030 - †	2450 PSI	F1/F2	MR	
	5 - 50	20 - 190	H812 C - 050 - †	H813 C - 050 - †				
	10 - 75	40 - 280	H812 C - 075 - †	H813 C - 075 - †				
	10 - 100	50 - 380	H812 C - 100 - †	H813 C - 100 - †				
	10 - 150	50 - 560	H812 C - 150 - †	H813 C - 150 - †				
1½" SAE 24	3 - 30	10 - 110	H882 C - 030 - †	H883 C - 030 - †	2450 PSI	F1/F2	MR	
	5 - 50	20 - 190	H882 C - 050 - †	H883 C - 050 - †				
	10 - 75	40 - 280	H882 C - 075 - †	H883 C - 075 - †				
	10 - 100	50 - 380	H882 C - 100 - †	H883 C - 100 - †				
	10 - 150	50 - 560	H882 C - 150 - †	H883 C - 150 - †				

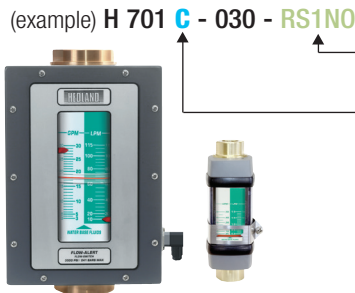
① Fractional sizes apply to NPTF.

(example) H 713 C - 030 - F1 or F2



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch



(example) H 701 C - 030 - RS1NO

Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)

(example) H 713 C - 030 - MR



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC } Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow
0-10 VDC } and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available
4-20 mA } (see Price and Availability Digest for details).

NOTE: ¼" liquid meters for .02-0.2 and .05-0.5 GPM ranges available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 13. For detailed flow/pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters For Water Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)		PRESSURE	OPTIONS		
	GPM	LPM	SAE	NPTF	RATING	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2	0.1 - 0.75	H204 C - 002 - †	H205 C - 002 - †	5000 PSI	Not Available	SEE OPTIONS BELOW	Not Available
	.05 - 0.5	0.2 - 1.9	H204 C - 005 - †	H205 C - 005 - †				
¼" SAE 6	0.1 - 1.0	0.5 - 3.75	H204 C - 010 - †	H205 C - 010 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1.0 - 7.5	H204 C - 020 - †	H205 C - 020 - †				
½" SAE 10	0.1 - 1.0	0.5 - 3.75	H604 C - 001 - †	H605 C - 001 - †	3000 PSI	F1/F2		MR
	0.2 - 2.0	1 - 7.5	H604 C - 002 - †	H605 C - 002 - †				
	0.5 - 5.0	2 - 19	H604 C - 005 - †	H605 C - 005 - †				
	1 - 10	5 - 38	H604 C - 010 - †	H605 C - 010 - †				
	1 - 15	4 - 56	H604 C - 015 - †	H605 C - 015 - †				
¾" SAE 12	0.2 - 2.0	1 - 7.5	H704 C - 002 - †	H705 C - 002 - †	2500 PSI	F1/F2		MR
	0.5 - 5.0	2 - 19	H704 C - 005 - †	H705 C - 005 - †				
	1 - 10	5 - 38	H704 C - 010 - †	H705 C - 010 - †				
	2 - 20	10 - 76	H704 C - 020 - †	H705 C - 020 - †				
	3 - 30	10 - 115	H704 C - 030 - †	H705 C - 030 - †				
1" SAE 16	0.2 - 2.0	1 - 7.5	H754 C - 002 - †	H755 C - 002 - †	2500 PSI	F1/F2		MR
	0.5 - 5.0	2 - 19	H754 C - 005 - †	H755 C - 005 - †				
	1 - 10	5 - 38	H754 C - 010 - †	H755 C - 010 - †				
	2 - 20	10 - 76	H754 C - 020 - †	H755 C - 020 - †				
	3 - 30	10 - 115	H754 C - 030 - †	H755 C - 030 - †				
	4 - 40	15 - 150	H754 C - 040 - †	H755 C - 040 - †				
	5 - 50	20 - 190	H754 C - 050 - †	H755 C - 050 - †				
1¼" SAE 20	3 - 30	10 - 110	H804 C - 030 - †	H805 C - 030 - †	2450 PSI	F1/F2		MR
	5 - 50	20 - 190	H804 C - 050 - †	H805 C - 050 - †				
	10 - 75	40 - 280	H804 C - 075 - †	H805 C - 075 - †				
	10 - 100	50 - 380	H804 C - 100 - †	H805 C - 100 - †				
	10 - 150	50 - 560	H804 C - 150 - †	H805 C - 150 - †				
1½" SAE 24	3 - 30	10 - 110	H854 C - 030 - †	H855 C - 030 - †	2450 PSI	F1/F2		MR
	5 - 50	20 - 190	H854 C - 050 - †	H855 C - 050 - †				
	10 - 75	40 - 280	H854 C - 075 - †	H855 C - 075 - †				
	10 - 100	50 - 380	H854 C - 100 - †	H855 C - 100 - †				
	10 - 150	50 - 560	H854 C - 150 - †	H855 C - 150 - †				

① Fractional sizes apply to NPTF.

(example) H 705 **C** - 030 - **F1** or **F2**



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 701 **C** - 030 - **RS1NO**



Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)

(example) H 705 **C** - 030 - **MR**



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC } Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow
0-10 VDC } and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available
4-20 mA } (see Price and Availability Digest for details).

NOTE: ¼" liquid meters for .02-0.2 and .05-0.5 GPM ranges available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 17.
For detailed flow/pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters

For API Oil / Caustic and Corrosive Liquids

ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		MODEL NUMBER (see example below)		OPTIONS		
	GPM	LPM	API - OIL .876 (S.G.)	LIQUIDS 1.0 (S.G.)	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
			NPTF	NPTF			
¼"	0.1 - 1.0	0.5 - 3.75	5000 PSI H231C - 010 - †	5000 PSI H234C - 010 - †	Not Available	SEE O P T I O N S B E L O W	Not Available
¼"	0.2 - 2.0	1 - 7.5	3000 PSI H231C - 020 - †	3000 PSI H234C - 020 - †	F1/F2		MR
½"	0.2 - 2.0	1 - 7.5	3000 PSI H631C - 002 - †	3000 PSI H634C - 002 - †	F1/F2		MR
	0.5 - 5.0	2 - 19	H631C - 005 - †	H634C - 005 - †			
	1 - 10	5 - 38	H631C - 010 - †	H634C - 010 - †			
	1 - 15	4 - 56	H631C - 015 - †	H634C - 015 - †			
¾"	0.2 - 2.0	1 - 7.5	2500 PSI H731C - 002 - †	2500 PSI H734C - 002 - †	F1/F2		MR
	0.5 - 5.0	2 - 19	H731C - 005 - †	H734C - 005 - †			
	1 - 10	5 - 38	H731C - 010 - †	H734C - 010 - †			
	2 - 20	10 - 76	H731C - 020 - †	H734C - 020 - †			
	3 - 30	10 - 115	H731C - 030 - †	H734C - 030 - †			
1"	0.2 - 2.0	1 - 7.5	2500 PSI H741C - 002 - †	2500 PSI H744C - 002 - †	F1/F2	MR	
	0.5 - 5.0	2 - 19	H741C - 005 - †	H744C - 005 - †			
	1 - 10	5 - 38	H741C - 010 - †	H744C - 010 - †			
	2 - 20	10 - 76	H741C - 020 - †	H744C - 020 - †			
	3 - 30	10 - 115	H741C - 030 - †	H744C - 030 - †			
	4 - 40	15 - 150	H741C - 040 - †	H744C - 040 - †			
1¼"	3 - 30	10 - 110	2450 PSI H831C - 030 - †	2450 PSI H834C - 030 - †	F1/F2	MR	
	5 - 50	20 - 190	H831C - 050 - †	H834C - 050 - †			
	10 - 75	40 - 280	H831C - 075 - †	H834C - 075 - †			
	10 - 100	50 - 380	H831C - 100 - †	H834C - 100 - †			
1½"	3 - 30	10 - 110	2450 PSI H841C - 030 - †	2450 PSI H844C - 030 - †	F1/F2	MR	
	5 - 50	20 - 190	H841C - 050 - †	H844C - 050 - †			
	10 - 75	40 - 280	H841C - 075 - †	H844C - 075 - †			
	10 - 100	50 - 380	H841C - 100 - †	H844C - 100 - †			

(example) H 734 C - 030 - F1 or F2



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 734 C - 030 - RS1NO



Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)

(example) H 734 C - 030 - MR



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC
0-10 VDC
4-20 mA

Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow and 20 mA (5/10 VDC) at full flow.
Optional 5-point calibration certificate available (see Price and Availability Digest for details).

NOTE: 1/4" liquid meters for 0.1-1.0 GPM range available in strap-on design for RS1NO and RS1NC only.

NOTE: For 50% and 100% flow/pressure drop information, see page 21. For detailed pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters For Air / Caustic and Corrosive Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		MODEL NUMBER (see example below)	OPTIONS		
	SCFM	L/SEC	GASES 1.0 (S.G.)	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
			NPTF			
¼"	20-20 30-30	1-9 1.5-14	H237C - 020 - † H237C - 030 - †	Not Available	SEE O P T I O N S B E L O W	Not Available
	3-25 5-50	2-12 3-22	H237C - 025 - † H237C - 050 - †	F1/F2		MR
½"	3-25 5-50 10-100 15-150	2-12 3-22 5-47 7-70	H637C - 025 - † H637C - 050 - † H637C - 100 - † H637C - 150 - †	F1/F2		MR
	3-25 5-50 10-100 15-150 25-250	1.5-11.5 2-23 5-47.5 7-70 10-118	H737C - 025 - † H737C - 050 - † H737C - 100 - † H737C - 150 - † H737C - 250 - †	F1/F2		MR
	3-25 5-50 10-100 15-150 25-250	1.5-11.5 2-23 5-47.5 7-70 10-118	H747C - 025 - † H747C - 050 - † H747C - 100 - † H747C - 150 - † H747C - 250 - †	F1/F2		MR
	20-200 40-400 60-600 80-800	10-95 20-180 30-280 50-350	H837C - 200 - † H837C - 400 - † H837C - 600 - † H837C - 800 - †	F1/F2		MR
1"	20-200 40-400 60-600 80-800	10-95 20-180 30-280 50-350	H847C - 200 - † H847C - 400 - † H847C - 600 - † H847C - 800 - †	F1/F2		MR
	20-200 40-400 60-600 80-800	10-95 20-180 30-280 50-350	H847C - 200 - † H847C - 400 - † H847C - 600 - † H847C - 800 - †	F1/F2		MR

Pressure Rating 1500 PSI (103 Bar)

(example) H 737 C - 250 - F1 or F2



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 737 C - 250 - RS1NO



Flow-Alert Reed Switches Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)

(example) H 737 C - 250 - MR



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC
0-10 VDC
4-20 mA

Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available (see Price and Availability Digest for details).

NOTE: ¼" air meters for 2.0-20 and 3.0-30 SCFM ranges available in strap-on design for RS1NO and RS1NC only.



CAUTION: High flow gas shock may decouple indicator.

NOTE: For 50% and 100% flow/pressure drop information, see page 23. For detailed flow/pressure drop charts, see Hedland full-line catalog.

Canadian Registration Flow-Alert™ Flow Switches and Flow Transmitters

For Air / Compressed Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)		PRESSURE	OPTIONS		
	SCFM	L/SEC	SAE	NPTF	RATING	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	0.5 - 5	0.2 - 2.2	H270 C - 005 - †	H271 C - 005 - †	1500 PSI	Not Available	SEE OPTIONS BELOW	Not Available
	1 - 10	0.5 - 4.75	H270 C - 010 - †	H271 C - 010 - †				
	2 - 20	1 - 9	H270 C - 020 - †	H271 C - 020 - †				
	3 - 30	1.5 - 14	H270 C - 030 - †	H271 C - 030 - †				
¼" SAE 6	3 - 25	2 - 12	H270 C - 025 - †	H271 C - 025 - †	1500 PSI	F1/F2		MR
	5 - 50	3 - 22	H270 C - 050 - †	H271 C - 050 - †				
½" SAE 10	3 - 25	2 - 12	H670 C - 025 - †	H671 C - 025 - †	1500 PSI	F1/F2		MR
	5 - 50	3 - 22	H670 C - 050 - †	H671 C - 050 - †				
	10 - 100	5 - 47	H670 C - 100 - †	H671 C - 100 - †				
	15 - 150	7 - 70	H670 C - 150 - †	H671 C - 150 - †				
¾" SAE 12	3 - 25	1.5 - 11.5	H770 C - 025 - †	H771 C - 025 - †	1500 PSI	F1/F2	MR	
	5 - 50	2 - 23	H770 C - 050 - †	H771 C - 050 - †				
	10 - 100	5 - 47.5	H770 C - 100 - †	H771 C - 100 - †				
	15 - 150	7 - 70	H770 C - 150 - †	H771 C - 150 - †				
	25 - 250	10 - 118	H770 C - 250 - †	H771 C - 250 - †				
1" SAE 16	3 - 25	1.5 - 11.5	H790 C - 025 - †	H791 C - 025 - †	1500 PSI	F1/F2	MR	
	5 - 50	2 - 23	H790 C - 050 - †	H791 C - 050 - †				
	10 - 100	5 - 47.5	H790 C - 100 - †	H791 C - 100 - †				
	15 - 150	7 - 70	H790 C - 150 - †	H791 C - 150 - †				
	25 - 250	10 - 118	H790 C - 250 - †	H791 C - 250 - †				
1¼" SAE 20	20 - 200	10 - 95	H870 C - 200 - †	H871 C - 200 - †	1500 PSI	F1/F2	MR	
	40 - 400	20 - 180	H870 C - 400 - †	H871 C - 400 - †				
	60 - 600	30 - 280	H870 C - 600 - †	H871 C - 600 - †				
	80 - 800	50 - 350	H870 C - 800 - †	H871 C - 800 - †				
	100 - 1000	50 - 475	H870 C - 999 - †	H871 C - 999 - †				
1½" SAE 24	20 - 200	10 - 95	H890 C - 200 - †	H891 C - 200 - †	1500 PSI	F1/F2	MR	
	40 - 400	20 - 180	H890 C - 400 - †	H891 C - 400 - †				
	60 - 600	30 - 280	H890 C - 600 - †	H891 C - 600 - †				
	80 - 800	50 - 350	H890 C - 800 - †	H891 C - 800 - †				
	100 - 1000	50 - 475	H890 C - 999 - †	H891 C - 999 - †				

① Fractional sizes apply to NPTF.

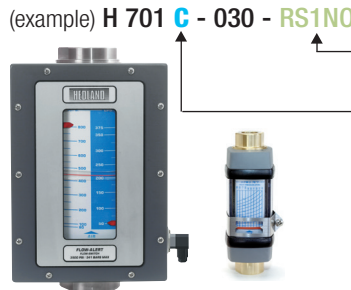
(example) H 771 **C** - 250 - **F1** or **F2**



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 771 **C** - 250 - **MR**



(example) H 701 **C** - 030 - **RS1NO**

Flow-Alert Reed Switches

Options:

RS1NO (reed switch one (1) normally open)
RS2NO (reed switch two (2) normally open)
RS1NC (reed switch one (1) normally closed)
RS2NC (reed switch two (2) normally closed)



Multiple Output Flow Sensor

3 Standard field selectable outputs

0-5 VDC } Flow Transmitter is factory-calibrated to provide 4 mA (0 VDC) at zero flow
0-10 VDC } and 20 mA (5/10 VDC) at full flow. Optional 5-point calibration certificate available
4-20 mA } (see Price and Availability Digest for details).

NOTE: ¼" air meters for .05-5, 1-10, 2-20 and 3-30 SCFM ranges available in strap-on design for RS1NO and RS1NC only.



CAUTION: High flow gas shock may decouple indicator.

NOTE: For 50% and 100% flow/pressure drop information, see page 25.
For detailed flow/pressure drop charts, see Hedland full-line catalog.

WEIGHTS For all Flow Meter Models	T316 SS w/Aluminum Internals	T316 SS w/Brass Internals	T316 SS w/T316 SS Internals	HOSTILE ENVIRONMENT T316 SS w/T316 Internals
	lbs. (kg)	lbs. (kg)	lbs. (kg)	lbs. (kg)
¼ Standard Meter	.9 (.41)	1.05 (.48)	~	~
¼ High Temperature	CF	2.75 (1.25)	2.75 (1.25)	~
¼ API Oil/Caustic & Corrosive Liquids & Gases	~	~	3.00 (1.36)	3.00 (1.36)
¼ Pneumatic Meter with Extended Cap	1.5 (.68)	~	~	~
¼ Pneumatic Meter w/ Extended Cap w/Gauge	2.0 (.91)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	2.3 (1.1)	~	~	~
¼ Flow-Alert Flow Switch	5.15 (2.34)	5.50 (2.50)	5.80 (2.63)	~
¼ Flow Transmitter	5.10 (2.31)	5.45 (2.47)	5.75 (2.61)	~
½ Standard Meter	2.1 (.95)	2.45 (1.11)	~	~
½ Liquid Test Kit	5.3 (2.4)	~	~	~
½ High Temperature	CF	2.75 (1.25)	2.75 (1.25)	~
½ API Oil/Caustic & Corrosive Liquids & Gases	~	~	2.95 (1.34)	2.95 (1.34)
½ Pneumatic Meter with Extended Cap	3.3 (1.5)	~	~	~
½ Pneumatic Meter w/Extended Cap w/Gauge	3.8 (1.7)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	4.3 (2.0)	~	~	~
½ Flow-Alert Flow Switch	5.15 (2.34)	5.50 (2.50)	5.80 (2.63)	~
½ Flow Transmitter	5.10 (2.31)	5.45 (2.47)	5.75 (2.61)	~
¾ Standard Meter	3.5 (1.6)	3.9 (1.8)	~	~
¾ Liquid Test Kit	8.5 (3.9)	~	~	~
¾ High Temperature	4.00 (1.81)	4.40 (2.00)	4.40 (2.00)	~
¾ API Oil/Caustic & Corrosive Liquids & Gases	~	~	4.40 (2.00)	4.6 (2.1)
¾ Pneumatic Meter with Extended Cap	6.2 (2.8)	~	~	~
¾ Pneumatic Meter w/Extended Cap w/Gauge	6.7 (3.1)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	7.5 (3.4)	~	~	~
¾ Flow-Alert Flow Switch	6.60 (3.00)	6.85 (3.11)	7.35 (3.33)	~
¾ Flow Transmitter	CF	CF	CF	~
1 Standard Meter	2.7 (1.3)	3.4 (1.5)	~	~
1 Liquid Test Kit	7.7 (3.5)	~	~	~
1 High Temperature	4.00 (1.81)	4.40 (2.00)	4.40 (2.00)	~
1 API Oil/Caustic & Corrosive Liquids & Gases	~	~	4.40 (2.00)	4.60 (2.10)
1 Pneumatic Meter with Extended Cap	5.4 (2.5)	~	~	~
1 Pneumatic Meter w/Extended Cap w/Gauge	5.9 (2.7)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	6.7 (3.1)	~	~	~
1 Flow-Alert Flow Switch	5.80 (2.63)	6.50 (2.95)	7.50 (3.40)	~
1 Flow Transmitter	CF	CF	CF	~
1¼ Standard Meter	14.6 (6.6)	16.8 (7.6)	~	~
1¼ Liquid Test Kit	26.0 (11.8)	~	~	~
1¼ High Temperature	CF	21.40 (9.71)	21.40 (9.71)	~
1¼ API Oil/Caustic & Corrosive Liquids & Gases	~	~	21.40 (9.71)	CF
1¼ Pneumatic Meter with Extended Cap	21.1 (9.6)	~	~	~
1¼ Pneumatic Meter w/Ext. Cap w/Gauge	21.7 (9.8)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	23.8 (10.8)	~	~	~
1¼ Flow-Alert Flow Switch	20.85 (9.46)	23.05 (10.46)	27.65 (12.54)	~
1¼ 4 Flow Transmitter	CF	CF	CF	~
1½ Standard Meter	14.1 (6.4)	15.8 (7.2)	~	~
1½ Standard Meter w/C62 Flange	25.8 (11.7)	~	~	~
1½ Liquid Test Kit	25.5 (11.6)	~	~	~
1½ High Temperature	CF	21.40 (9.71)	21.40 (9.71)	~
1½ High Temperature w/C62 Flange	CF	CF	CF	~
1½ API Oil/Caustic & Corrosive Liquids & Gases	~	~	21.40 (9.71)	CF
1½ Pneumatic Meter with Extended Cap	20.6 (9.4)	~	~	~
1½ Pneumatic Meter w/Extended Cap w/Gauge	21.2 (9.6)	~	~	~
Test Kit w/Ext. Cap/Gauge/Valve	23.3 (10.6)	~	~	~
1½ Flow-Alert Flow Switch	20.35 (9.23)	22.05 (10.00)	27.65 (12.54)	~
1½ Flow Transmitter	CF	CF	CF	~
3 Standard Meter	~	~	~	~
3 Standard Meter w/C61 Flange	~	~	~	~

~: Not available as standard option

CF: Consult factory for weights

Common Conversions

To Convert	Into...	Multiply by...
Barrel (U.S. liquid)	Gallons	31.5
Bars	Kgs/sq meter	10,200
Bars	Pounds/sq in	14.50
Centigrade	Fahrenheit	(C° x 9.5) +32
Cubic centimeters	Cu feet	.00003521
Cubic centimeters	Cu inches	0.06102
Cubic centimeters	Cu meters	.000001
Cubic centimeters	Gallons (U.S. liquid)	.0002642
Cubic centimeters	Liters	0.001
Cubic feet	Cu cms	28,320
Cubic feet	Cu inches	1,728
Cubic feet	Cu meters	0.02832
Cubic feet	Gallons (U.S. liquid)	7.48052
Cubic feet	Imperial gallons	6.23210
Cubic feet	Liters	28.317
Cubic feet/min	Cu cms/min	28,317
Cubic feet/min	Gallons/min	7.481
Cubic feet/min	Liters/min	28.32
Cubic feet/sec	Gallons/min	448.83
Cubic inches	Cu cms	16.39
Cubic inches	Cu feet	.0005787
Cubic inches	Cu meters	.00001639
Cubic inches	Gallons (U.S. liquid)	.004329
Cubic inches	Imperial gallons	.0036065
Cubic inches	Liters	0.01639
Cubic meters	Cu cms	1,000,000
Cubic meters	Cu feet	35.31
Cubic meters	Cu inches	61,023
Cubic meters	Gallons (U.S. liquid)	264.2
Cubic meters	Liters	1,000
Degree Fahrenheit	Degree Celsius	t °C = (t °F – 32)/1.8
Feet/min	Cms/sec	0.5080

To Convert	Into...	Multiply by...
Feet/min	Meters/min	0.3048
Gallons/min	Cu cms/min	3,785.412
Gallons/min	Cu feet/min	.1337
Gallons/min	Liters/min	3.785
Imperial gallons	Cu feet	.160459
Imperial gallons	Cu inches	277.274
Imperial gallons	Liters	4.54374
Imperial gallons	U.S. gallons	1.20032
Kilograms/sq cm	Pounds/sq ft	2,048
Kilograms/sq cm	Pounds/sq in	14.22
Kilograms/sq meter	Bars	.00009807
Kilograms/sq meter	Pounds/sq in	.001422
Liters	Cu cm	1,000
Liters	Cu feet	0.0353145
Liters	Cu inches	61.0234
Liters	Cu meters	0.001
Liters	Gallons (U.S. liquid)	0.264170
Liters	Imperial gallons	.220083
Liters/min	Cu cms/min	1000
Liters/min	Cu feet/min	.035
Liters/min	Gallons/min	.264
Pascal (Pa)	Bar	.00001
Pascal (Pa)	Pounds/sq in	.000145
Pounds/sq inch	Kgs/sq meter	703.1
Pounds/sq inch	Pascal (Pa)	6,895
Pounds/sq inch	Bar	.069
U.S. gallons	Imperial gallons	.83267
U.S. gallons	Cu cms	3785
U.S. gallons	Cu feet	.133681
U.S. gallons	Cu inches	231
U.S. gallons	Cu meters	.3785
U.S. gallons	Liters	3.785

Viscosity Conversion Table					
	Saybolt Universal Seconds (SSU)	ISO-VG	CentiStoke	CentiPoise*	Typical Brands/Liquids at 100 °F
Standard Range	31	2	1.0	0.876	Water
	35	3	2.5	2.19	—
	40	5	4.2	3.68	—
	45	5/7	5.9	5.17	—
	50	7	7.5	6.57	Kerosene
	55	7/10	8.8	7.71	Atlantic Richfield/Duro 55 Hyd. Oil
	60	10	10.5	9.20	Monsanto/Skydrol - 500 A
	70	10/15	13.2	11.56	Mobil/Aero HFA Hydraulic Oil
	80	15	15.7	13.75	No 4 Fuel Oil
	90	22	18.2	15.94	Stauffer Chemical/Fyrquel 90
	100	22	20.6	18.05	Conoco/Syncon Synthetic AW Hyd. Oil
	150	32	32.0	28.03	Mobil/DTE 24 Hydraulic Oil
	200	46	43.2	37.84	Citco/Glycol FR-40XD (Oil in Water)
	300	68	65.0	56.94	SAE 20 Crankcase Oil
	400	68/100	86.0	75.34	Sunoco/Sunvis 41 Hydraulic Oil
Extended Range**	500	100	108	94.61	SAE 30 Crankcase Oil
	750	150	162	141.91	SAE 40 Crankcase Oil
	1000	220	216	189.22	Mobil/Paper Machine Oil - Type K
	1500	320	323	282.95	SAE 50 Crankcase Oil
	2000	460	431	377.56	Amoco/American Industrial Oil - No. 460
	3000	680	648	567.65	SAE 140 Gear Oil
	4000	1000	862	755.11	SAE 250 Gear Oil

* Centipoise are given for oil of 0.876 specific gravity. Relationship: centistokes x specific gravity = centipoise

** Meters measuring fluid within this range may require custom scales. Consult factory for details.

Notes:

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