

3500/6000 PSI 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:

C360 Brass body, piston and cone[®]

T303 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, BSPP ISO1179

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 35.

PRESSURE RATING:

Brass Operating: 3,500 psi/241 bar max. (800 psi/55 bar max. for 3" series) with a 3:1 safety factor.

For High Cycle Applications: See page 7

Stainless Steel Operating: 6,000 psi/414 bar max. (5,000 psi/345 bar max. for ¾" to 1½" series) with a 3:1 safety factor.

For High Cycle Applications: See page 7

PRESSURE DROP: See Ordering Information Table, page 34.

For detailed differential pressure charts, see page 64.

ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for ¼" 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)
¼ (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
½ (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
¾ (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)
1¼ (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1½ (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

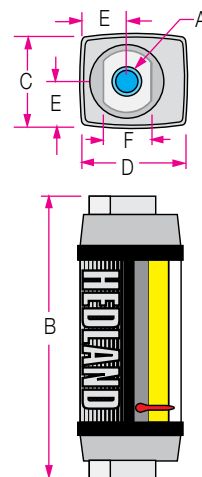
NOTE: Dimensions for 3" can be found on page 78.

Weights for all sizes can be found on page 79.

③ inch models have Celcon[®] piston/piston ring

Celcon is a registered trademark of Hoechst Celanese Corp.

Viton is a registered trademark of DuPont Dow Elastomers



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

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)			MATERIAL		OPTIONS		
	GPM	LPM	SAE	NPTF	BSPP	BRASS 3500 PSI	STAINLESS	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	.02 - 0.2 .05 - 0.5	0.1 - 0.75 0.2 - 1.9	H204  - 002 -  H204  - 005 - 	H205  - 002 -  H205  - 005 - 	H206  - 002 -  H206  - 005 - 	B	6000 PSI S	Not Available	SEE OPTIONS BELOW	Not Available
¼" SAE 6	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1.0 - 7.5	H204  - 010 -  H204  - 020 - 	H205  - 010 -  H205  - 020 - 	H206  - 010 -  H206  - 020 - 	B	6000 PSI S	F1/F2		MR
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	H604  - 001 -  H604  - 002 -  H604  - 005 -  H604  - 010 -  H604  - 015 - 	H605  - 001 -  H605  - 002 -  H605  - 005 -  H605  - 010 -  H605  - 015 - 	H606  - 001 -  H606  - 002 -  H606  - 005 -  H606  - 010 -  H606  - 015 - 	B	6000 PSI S	F1/F2		MR
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	H704  - 002 -  H704  - 005 -  H704  - 010 -  H704  - 020 -  H704  - 030 - 	H705 - 002 - H705 - 005 - H705 - 010 - H705 - 020 - H705 - 030 -	H706 - 002 - H706 - 005 - H706 - 010 - H706 - 020 - H706 - 030 -	B	5000 PSI S	F1/F2		MR
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	H754 - 002 - H754 - 005 - H754 - 010 - H754 - 020 - H754 - 030 - H754 - 040 - H754 - 050 -	H755 - 002 - H755 - 005 - H755 - 010 - H755 - 020 - H755 - 030 - H755 - 040 - H755 - 050 -	H756 - 002 - H756 - 005 - H756 - 010 - H756 - 020 - H756 - 030 - H756 - 040 - H756 - 050 -	B	5000 PSI S	F1/F2		MR
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	H804 - 030 - H804 - 050 - H804 - 075 - H804 - 100 - H804 - 150 -	H805 - 030 - H805 - 050 - H805 - 075 - H805 - 100 - H805 - 150 -	H806 - 030 - H806 - 050 - H806 - 075 - H806 - 100 - H806 - 150 -	B	5000 PSI S	F1/F2		MR
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	H854 - 030 - H854 - 050 - H854 - 075 - H854 - 100 - H854 - 150 -	H855 - 030 - H855 - 050 - H855 - 075 - H855 - 100 - H855 - 150 -	H856 - 030 - H856 - 050 - H856 - 075 - H856 - 100 - H856 - 150 -	B	5000 PSI S	F1/F2		MR

① Fractional sizes apply to NPTF and BSPP.

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



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

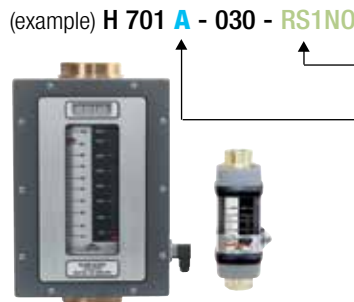
(example) **H 705 B - 030 - MR**



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).



(example) **H 701 A - 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)

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 36. For detailed flow/pressure drop charts, see page 64.