

1000/1500 PSI 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:

2024 - T351 Anodized aluminum body, piston and cone

C360 Brass body, piston and cone[Ⓢ]

T303 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, BSPP ISO1179

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

PRESSURE RATING:

Aluminum / Brass Operating: 1,000 psi/69 bar max. (250 psi/17 bar max. for 3" series) with a 10:1 safety factor.

For High Cycle Applications: See page 7

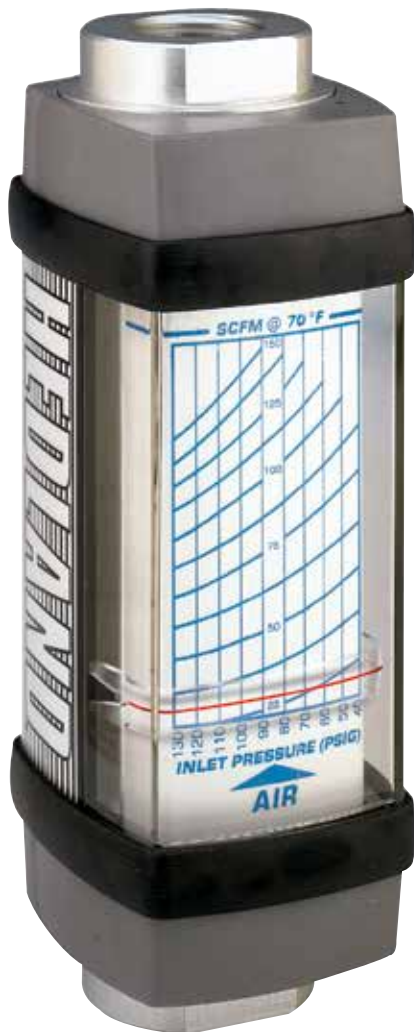
Stainless Steel Operating: 1,500 psi/103 bar max. with a 10:1 safety factor.

For High Cycle Applications: See page 7

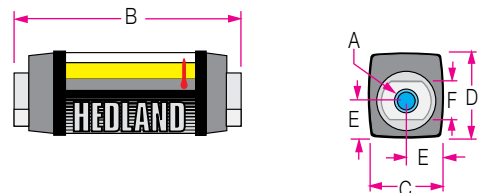
PRESSURE DROP: See Ordering Information Table, page 42.

For detailed differential pressure charts, see page 66.

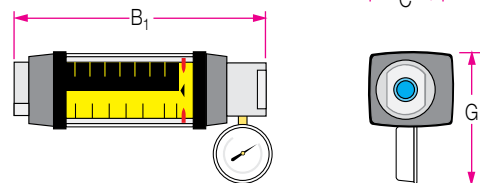
ACCURACY: $\pm 2\%$ of full scale, $\pm 7\%$ of full scale for 1/4" meters **REPEATABILITY:** $\pm 1\%$



STANDARD PRODUCT



STANDARD PRODUCT WITH EP & EG OPTION



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)
1/4 (SAE 6)	4.8 (122)	6.12 (155)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)	5.0 (127)
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)
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 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 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: Dimensions for 3" meters 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 Air / Compressed Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE ^①	FLOW RANGE		MODEL NUMBER (see example below)			MATERIAL			OPTIONS		
	SCFM	L/SEC	SAE	NPTF	BSPP	ALUMINUM 1000 PSI	BRASS 1000 PSI	STAINLESS 1500 PSI	Flow-Alert 1 SWITCH / 2 SWITCH	Flow-Alert REED SWITCH	MULTIPLE OUTPUT SENSOR
¼" SAE 6	0.5 - 5	0.2 - 2.2	H270  - 005 - 	H271  - 005 - 	H272  - 005 - 	A	B	S	Not Available	SEE OPTIONS BELOW	Not Available
	1 - 10	0.5 - 4.75	H270  - 010 - 	H271  - 010 - 	H272  - 010 - 						
	2 - 20	1 - 9	H270  - 020 - 	H271  - 020 - 	H272  - 020 - 						
	3 - 30	1.5 - 14	H270  - 030 - 	H271  - 030 - 	H272  - 030 - 						
¼" SAE 6	3 - 25	2 - 12	H270  - 025 - 	H271  - 025 - 	H272  - 025 - 	A	B	S	F1/F2		MR
	5 - 50	3 - 22	H270  - 050 - 	H271  - 050 - 	H272  - 050 - 						
½" SAE 10	3 - 25	2 - 12	H670  - 025 - 	H671  - 025 - 	H672  - 025 - 	A	B	S	F1/F2		MR
	5 - 50	3 - 22	H670  - 050 - 	H671  - 050 - 	H672  - 050 - 						
	10 - 100	5 - 47	H670  - 100 - 	H671  - 100 - 	H672  - 100 - 						
	15 - 150	7 - 70	H670  - 150 - 	H671  - 150 - 	H672  - 150 - 						
¾" SAE 12	3 - 25	1.5 - 11.5	H770  - 025 - 	H771  - 025 - 	H772  - 025 - 	A	B	S	F1/F2	MR	
	5 - 50	2 - 23	H770  - 050 - 	H771  - 050 - 	H772  - 050 - 						
	10 - 100	5 - 47.5	H770  - 100 - 	H771  - 100 - 	H772  - 100 - 						
	15 - 150	7 - 70	H770  - 150 - 	H771  - 150 - 	H772  - 150 - 						
	25 - 250	10 - 118	H770  - 250 - 	H771  - 250 - 	H772  - 250 - 						
1" SAE 16	3 - 25	1.5 - 11.5	H790  - 025 - 	H791  - 025 - 	H792  - 025 - 	A	B	S	F1/F2	MR	
	5 - 50	2 - 23	H790  - 050 - 	H791  - 050 - 	H792  - 050 - 						
	10 - 100	5 - 47.5	H790  - 100 - 	H791  - 100 - 	H792  - 100 - 						
	15 - 150	7 - 70	H790  - 150 - 	H791  - 150 - 	H792  - 150 - 						
	25 - 250	10 - 118	H790  - 250 - 	H791  - 250 - 	H792  - 250 - 						
1¼" SAE 20	20 - 200	10 - 95	H870  - 200 - 	H871  - 200 - 	H872  - 200 - 	A	B	S	F1/F2	MR	
	40 - 400	20 - 180	H870  - 400 - 	H871  - 400 - 	H872  - 400 - 						
	60 - 600	30 - 280	H870  - 600 - 	H871  - 600 - 	H872  - 600 - 						
	80 - 800	50 - 350	H870  - 800 - 	H871  - 800 - 	H872  - 800 - 						
	100 - 1000	50 - 475	H870  - 999 - 	H871  - 999 - 	H872  - 999 - 						
1½" SAE 24	20 - 200	10 - 95	H890  - 200 - 	H891  - 200 - 	H892  - 200 - 	A	B	S	F1/F2	MR	
	40 - 400	20 - 180	H890  - 400 - 	H891  - 400 - 	H892  - 400 - 						
	60 - 600	30 - 280	H890  - 600 - 	H891  - 600 - 	H892  - 600 - 						
	80 - 800	50 - 350	H890  - 800 - 	H891  - 800 - 	H892  - 800 - 						
	100 - 1000	50 - 475	H890  - 999 - 	H891  - 999 - 	H892  - 999 - 						

① Fractional sizes apply to NPTF and BSPP.

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



Flow-Alert Flow Switches

F1 = Single Switch
F2 = Double Switch

(example) H 771 **A** - 250 - **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" 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 40.
For detailed flow/pressure drop charts, see page 66.