

# 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<sup>Ⓟ</sup>

T303 Stainless body, 2024 - T351 Anodized aluminum piston and cone

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

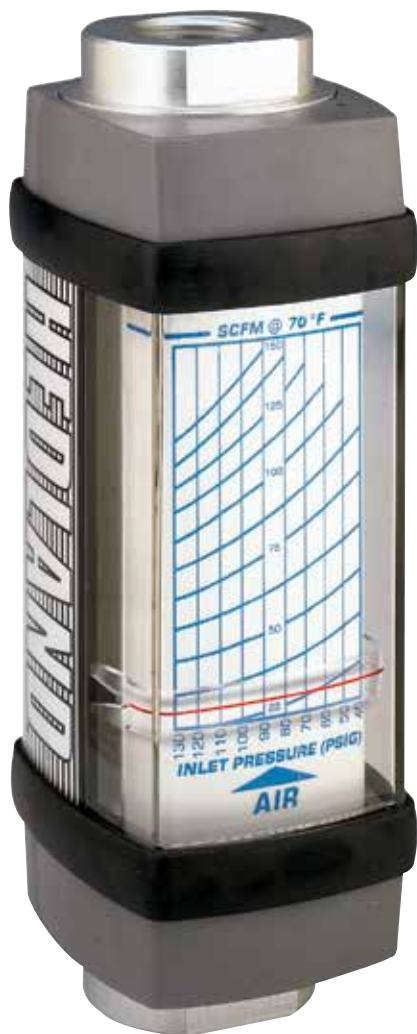
**Stainless Steel Operating:** 1,500 psi/103 bar max. with a 10:1 safety factor.

**For High Cycle Applications:** See page 7

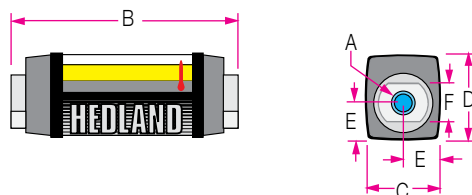
**PRESSURE DROP:** See Ordering Information Table, page 42.

For detailed differential pressure charts, see page 66.

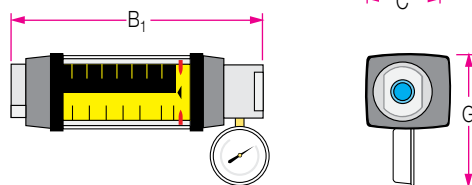
**ACCURACY:**  $\pm 2\%$  of full scale,  $\pm 7\%$  of full scale for 1/4" meters **REPEATABILITY:**  $\pm 1\%$



#### STANDARD PRODUCT



#### STANDARD PRODUCT WITH EP & EG OPTION



#### DIMENSIONS:

A	B	B <sub>1</sub>	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.

<sup>Ⓟ</sup>3 inch models have Celcon<sup>®</sup> piston/piston ring

Celcon is a registered trademark of Hoechst Celanese Corp.  
Viton is a registered trademark of DuPont Dow Elastomers

# 1000/1500 PSI Flow Meters

## For Air and Other Compressed Gases

### ORDERING INFORMATION:

NOMINAL PORT SIZE <sup>②</sup>	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)			MATERIAL			OPTIONS	
	③ SCFM	④ L/SEC	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF	BSPP <sup>⑤</sup>	ALUMINUM 1000 PSI	BRASS 1000 PSI	STAINLESS 1500 PSI	EXTENDED CAP PLUGGED <sup>⑥</sup>	EXTENDED CAP W/GAUGE <sup>⑥</sup>
¼" SAE 6	0.5 - 5	0.2 - 2.2	2.51 (0.17)	4.45 (0.31)	H270 * - 005 - †	H271 * - 005 - †	H272 * - 005 - †	A	B	S	EP	EG
	1 - 10	0.5 - 4.75	9.29 (0.64)	16.46 (1.13)	H270 * - 010 - †	H271 * - 010 - †	H272 * - 010 - †					
	2 - 20	1 - 9	10.15 (0.70)	18.71 (1.29)	H270 * - 020 - †	H271 * - 020 - †	H272 * - 020 - †					
	3 - 30	1.5 - 14	13.75 (0.95)	26.23 (1.81)	H270 * - 030 - †	H271 * - 030 - †	H272 * - 030 - †					
½" SAE 10	3 - 25	2 - 12	3.73 (0.26)	6.10 (0.42)	H670 * - 025 - †	H671 * - 025 - †	H672 * - 025 - †	A	B	S	EP	EG
	5 - 50	3 - 22	6.04 (0.42)	10.35 (0.71)	H670 * - 050 - †	H671 * - 050 - †	H672 * - 050 - †					
	10 - 100	5 - 47	7.18 (0.50)	13.85 (0.95)	H670 * - 100 - †	H671 * - 100 - †	H672 * - 100 - †					
	15 - 150	7 - 70	8.06 (0.56)	18.49 (1.27)	H670 * - 150 - †	H671 * - 150 - †	H672 * - 150 - †					
¾" SAE 12	3 - 25	1.5 - 11.5	2.99 (0.21)	5.90 (0.41)	H770 * - 025 - †	H771 * - 025 - †	H772 * - 025 - †	A	B	S	EP	EG
	5 - 50	2 - 23	2.00 (0.14)	3.58 (0.25)	H770 * - 050 - †	H771 * - 050 - †	H772 * - 050 - †					
	10 - 100	5 - 47.5	7.19 (0.50)	12.87 (0.89)	H770 * - 100 - †	H771 * - 100 - †	H772 * - 100 - †					
	15 - 150	7 - 70	4.44 (0.31)	9.52 (0.66)	H770 * - 150 - †	H771 * - 150 - †	H772 * - 150 - †					
1" SAE 16	3 - 25	1.5 - 11.5	2.99 (0.21)	5.90 (0.41)	H790 * - 025 - †	H791 * - 025 - †	H792 * - 025 - †	A	B	S	EP	EG
	5 - 50	2 - 23	2.00 (0.14)	3.58 (0.25)	H790 * - 050 - †	H791 * - 050 - †	H792 * - 050 - †					
	10 - 100	5 - 47.5	7.19 (0.50)	12.87 (0.89)	H790 * - 100 - †	H791 * - 100 - †	H792 * - 100 - †					
	15 - 150	7 - 70	4.44 (0.31)	9.52 (0.66)	H790 * - 150 - †	H791 * - 150 - †	H792 * - 150 - †					
1¼" SAE 20	20 - 200	10 - 95	1.89 (0.13)	3.16 (0.22)	H870 * - 200 - †	H871 * - 200 - †	H872 * - 200 - †	A	B	S	EP	EG
	40 - 400	20 - 180	2.53 (0.17)	5.49 (0.38)	H870 * - 400 - †	H871 * - 400 - †	H872 * - 400 - †					
	60 - 600	30 - 280	4.47 (0.31)	10.71 (0.74)	H870 * - 600 - †	H871 * - 600 - †	H872 * - 600 - †					
	80 - 800	50 - 350	6.13 (0.42)	17.14 (1.18)	H870 * - 800 - †	H871 * - 800 - †	H872 * - 800 - †					
1½" SAE 24	20 - 200	10 - 95	1.89 (0.13)	3.16 (0.22)	H890 * - 200 - †	H891 * - 200 - †	H892 * - 200 - †	A	B	S	EP	EG
	40 - 400	20 - 180	2.53 (0.17)	5.49 (0.38)	H890 * - 400 - †	H891 * - 400 - †	H892 * - 400 - †					
	60 - 600	30 - 280	4.47 (0.31)	10.71 (0.74)	H890 * - 600 - †	H891 * - 600 - †	H892 * - 600 - †					
	80 - 800	50 - 350	6.13 (0.42)	17.14 (1.18)	H890 * - 800 - †	H891 * - 800 - †	H892 * - 800 - †					
3"	100 - 1400	75 - 750	10.0 (0.69)	16.0 (1.10)	Not Available	H971 * - 140	H972 * - 140	250 PSI		Not Available		
	200 - 2200	75 - 1130	10.0 (0.69)	16.0 (1.10)		H971 * - 220	H972 * - 220	A	B			

NOTE: Consult factory for other options.

② Fractional sizes apply to NPTF and BSPP.

③ SCFM/PSI multipressure scales are standard.

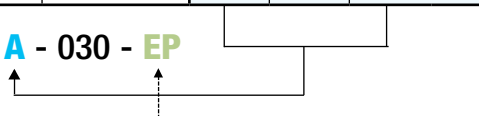
④ L/sec/bar multipressure

scales are available at no extra charge.

⑤ 3 inch models have BSPT (BS21) threads

⑥ EP and EG options are only available with NPTF and BSPP models.

(example) H 771 A - 030 - EP



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

(example) H771 A - 250 - S1 or H771 A - 250 - EG - S1