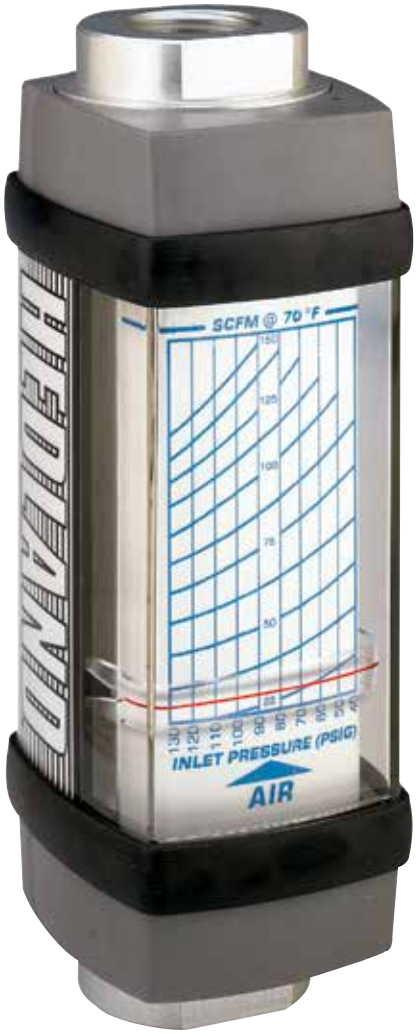
1000/1500 PSI Flow Meters

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 ±2% full scale
- Repeatability ±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 cone①
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

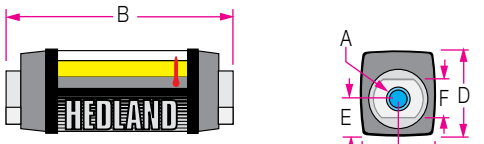
PRESSURE RATING:

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

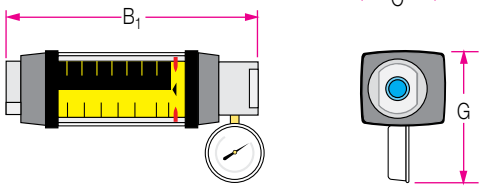
PRESSURE DROP: See Ordering Information Table, page 42.
For detailed differential pressure charts, see page 66.

ACCURACY: ±2% of full scale, ±7% of full scale for ¼" meters **REPEATABILITY:** ±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)
¼ (SAE 6)	4.8 (122)	6.12 (155)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)	5.0 (127)
½ (SAE 10)	6.6 (168)	8.00 (203)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)	5.4 (137)
¾ (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)
1¼ (SAE 20)	12.2 (310)	13.8 (351)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	7.2 (183)
1½ (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.

①3 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

600 PSI Test Kits

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 ±2% full scale
- Repeatability ±1%
- Special scales available

SPECIFICATIONS:

MATERIALS:
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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: NPTF ANSI B2.2, **BSPP** ISO1179

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

PRESSURE RATING:
Aluminum / Brass Operating: 600 psi/41 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7
Stainless Steel Operating: 600 psi/41 bar max. with a 10:1 safety factor.
For High Cycle Applications: See page 7

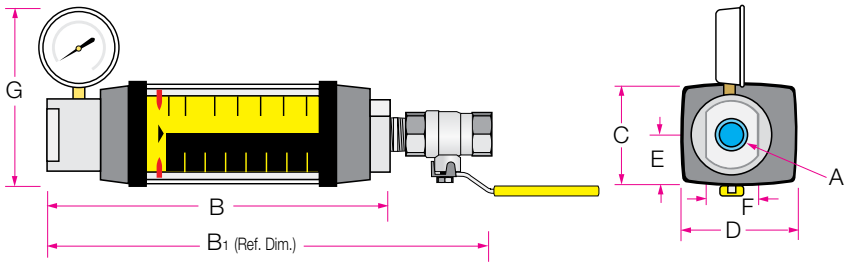
PRESSURE DROP: See Ordering Information Table, page 44.
For detailed differential pressure charts, see page 66.

ACCURACY: ±2% of full scale, ±7% of full scale for ¼" meters **REPEATABILITY:** ±1%

PRESSURE GAUGE: Glycerin dampened, 0 - 160 psi / 0 - 10 bar pressure range available on all test kits.

LOAD VALVE: ½" to 1½" nickel-plated brass ball valve with chrome-plated brass ball and Teflon® seals.

SILENCER (optional) : Brass body with 40 micron porous sintered bronze filter.



DIMENSIONS:

A	B	B1	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)
¼	6.12 (155)	8.38 (213)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)	5.0 (127)
½	8.00 (203)	11.0 (279)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)	5.4 (137)
¾	8.90 (226)	12.38 (315)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)	5.9 (150)
1	8.90 (226)	12.38 (315)	2.48 (63)	2.85 (72)	1.24 (32)	1.75 (44)	5.9 (150)
1¼	13.80 (351)	18.39 (465)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	7.2 (183)
1½	13.80 (351)	18.39 (465)	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 79.
BSPP Test Kits include outlet adapter.

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

600 PSI Test Kits

For Air and Other Compressed Gases

ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)		MATERIAL		
	① SCFM	② L/SEC	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	NPTF	BSPP	ALUMINUM 600 PSI	BRASS 600 PSI	STAINLESS 600 PSI
¼"	0.5 - 5 1 - 10 2 - 20 3 - 30	0.2 - 2.2 0.5 - 4.75 1 - 9 1.5 - 14	3.38 (0.23) 8.08 (0.56) 11.02 (0.76) 14.62 (1.01)	5.32 (0.37) 17.33 (1.19) 19.64 (1.35) 27.10 (1.87)	H271 * - 005 - TK H271 * - 010 - TK H271 * - 020 - TK H271 * - 030 - TK	H272 * - 005 - TK H272 * - 010 - TK H272 * - 020 - TK H272 * - 030 - TK	A	B	S
½"	3 - 25 5 - 50 10 - 100 15 - 150	2 - 12 3 - 22 5 - 47 7 - 70	4.60 (0.32) 6.91 (0.48) 8.67 (0.60) 8.93 (0.62)	6.97 (0.48) 11.22 (0.77) 14.72 (1.01) 19.36 (1.33)	H671 * - 025 - TK H671 * - 050 - TK H671 * - 100 - TK H671 * - 150 - TK	H672 * - 025 - TK H672 * - 050 - TK H672 * - 100 - TK H672 * - 150 - TK	A	B	S
¾"	3 - 25 5 - 50 10 - 100 15 - 150 25 - 250	1.5 - 11.5 2 - 23 5 - 47.5 7 - 70 10 - 118	3.86 (0.27) 2.87 (0.20) 8.06 (0.56) 5.31 (0.37) 7.14 (0.49)	6.77 (0.47) 4.45 (0.31) 13.74 (0.95) 10.39 (0.72) 16.25 (1.12)	H771 * - 025 - TK H771 * - 050 - TK H771 * - 100 - TK H771 * - 150 - TK H771 * - 250 - TK	H772 * - 025 - TK H772 * - 050 - TK H772 * - 100 - TK H772 * - 150 - TK H772 * - 250 - TK	A	B	S
1"	3 - 25 5 - 50 10 - 100 15 - 150 25 - 250	1.5 - 15 2 - 23 5 - 47.5 7 - 70 10 - 118	3.86 (0.27) 2.87 (0.20) 8.06 (0.56) 5.31 (0.37) 7.14 (0.49)	6.77 (0.47) 4.45 (0.31) 13.74 (0.95) 10.39 (0.72) 16.25 (1.12)	H791 * - 025 - TK H791 * - 050 - TK H791 * - 100 - TK H791 * - 150 - TK H791 * - 250 - TK	H792 * - 025 - TK H792 * - 050 - TK H792 * - 100 - TK H792 * - 150 - TK H792 * - 250 - TK	A	B	S
1¼"	20 - 200 40 - 400 60 - 600 80 - 800 100 - 1000	10 - 95 20 - 180 30 - 280 50 - 350 50 - 475	2.76 (0.19) 3.40 (0.23) 5.34 (0.37) 7.00 (0.48) 10.71 (0.74)	4.03 (0.28) 6.36 (0.44) 11.58 (0.80) 18.01(1.24) 29.32 (2.02)	H871 * - 200 - TK H871 * - 400 - TK H871 * - 600 - TK H871 * - 800 - TK H871 * - 999 - TK	H872 * - 200 - TK H872 * - 400 - TK H872 * - 600 - TK H872 * - 800 - TK H872 * - 999 - TK	A	B	S
1½"	20 - 200 40 - 400 60 - 600 80 - 800 100 - 1000	10 - 95 20 - 180 30 - 280 50 - 350 50 - 475	2.76 (0.19) 3.40 (0.23) 5.34 (0.37) 7.00 (0.48) 10.71 (0.74)	4.03 (0.28) 6.36 (0.44) 11.58 (0.80) 18.01(1.24) 29.32 (2.02)	H891 * - 200 - TK H891 * - 400 - TK H891 * - 600 - TK H891 * - 800 - TK H891 * - 999 - TK	H892 * - 200 - TK H892 * - 400 - TK H892 * - 600 - TK H892 * - 800 - TK H892 * - 999 - TK	A	B	S

NOTE: Consult factory for other options.

①SCFM/PSI multipressure scales are standard.

②L/sec-bar multipressure scales are available at no extra charge.

(example) **H 771 A - 250 - TK**

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

(example) H771 A - 250 - TK - S1