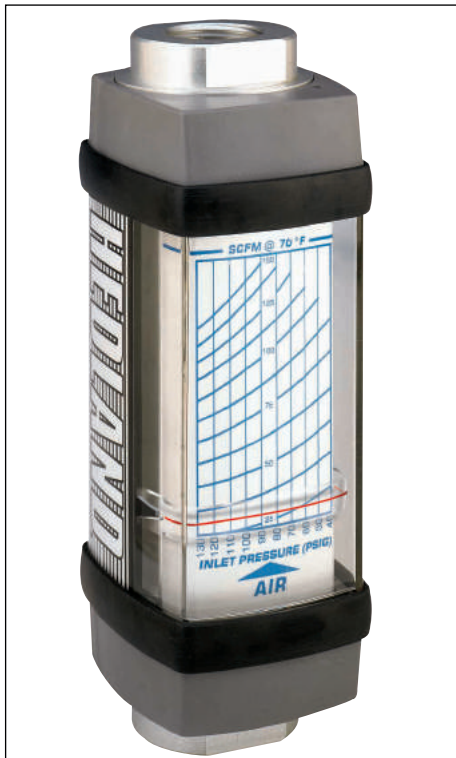


1000/1500 PSI flow meters

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 116°C (240 °F)
- Accuracy ±2% full scale
- Repeatability ±1%
- Special scales available
- Calibrated for 1.0 S.G.

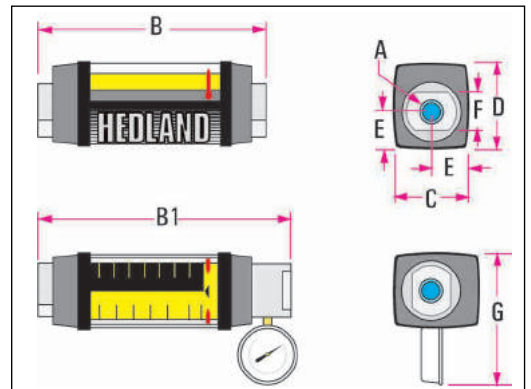


Technical data

Materials	2024 - T351 anodized aluminum body, piston and cone C360 brass body piston and cone ^① , 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	-29 to +116 °C (-20 to +240 °F) 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 conversion information.
Stainless steel operating	1,500 psi/103 bar max. with a 10:1 safety factor. For high cycle applications, see page conversion information.
Pressure drop	See ordering information table next page. For detailed differential pressure charts, see page 62.
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	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)	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 79.

Weights for all sizes can be found on page 80.

^① 3 inch models have Celcon[®] piston/piston ring

1000/1500 PSI flow meters

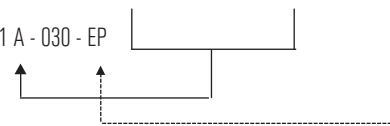
For air and other compressed gases

Ordering information

Nominal port size ^②	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 [Ⓞ]	Aluminium 1000 psi	Brass 1000 psi	Stainless 1500 psi	Ex-tended cap plugged [Ⓞ]	Extended cap with gauge [Ⓞ]
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 - ◆					
	25 - 250	10 - 118	6.27 (0.43)	15.38 (1.06)	H770 ☒ - 250 - ◆	H771 ☒ - 250 - ◆	H772 ☒ - 250 - ◆					
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 - ◆					
	25 - 250	10 - 118	6.27 (0.43)	15.38 (1.06)	H790 ☒ - 250 - ◆	H791 ☒ - 250 - ◆	H792 ☒ - 250 - ◆					
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 - ◆					
	100 - 1000	50 - 475	9.84 (0.68)	28.45 (1.96)	H870 ☒ - 999 - ◆	H871 ☒ - 999 - ◆	H872 ☒ - 999 - ◆					
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 - ◆					
	100 - 1000	50 - 475	9.84 (0.68)	28.45 (1.96)	H890 ☒ - 999 - ◆	H891 ☒ - 999 - ◆	H892 ☒ - 999 - ◆					
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			

- ② Fractional sizes apply to NPTF and BSPP.
- ③ SCFM/psi multipressure scales are standard.
- ④ l/sec/bar multipressure
- ⑤ Scales are available at no extra charge.
- ⑥ 3 inch models have BSPT (BS21) threads
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

600 PSI test kits

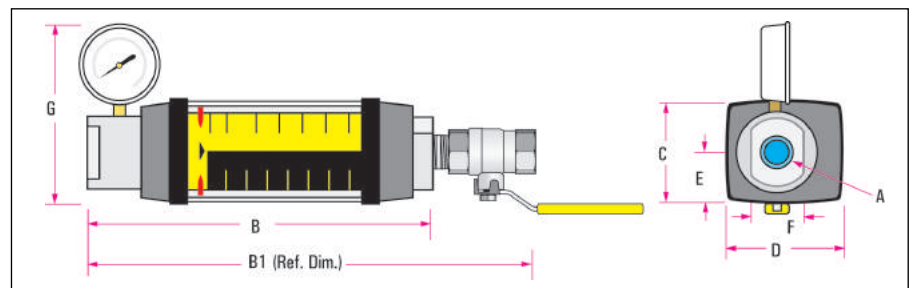
For air and other compressed gases

- 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 116°C (240 °F)
- Accuracy ±2% full scale
- Repeatability ±1%
- Special scales available



Technical data

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 End caps: Nylon ST	Retaining ring: T316 SS Retaining spring: T316 SS Indicator and internal magnet: PPS / ceramic Guard seal / bumper: Buna N Scale support: 6063 - T6 aluminum
Threads	NPTF ANSI B2.2, BSPP ISO1179
Temperature range	-29 to +116 °C (-20 to +240 °F)
Pressure rating	
Aluminum / brass operating	600 psi/41 bar max. with a 10:1 safety factor. For high cycle applications, see page conversion information.
Stainless steel operating	600 psi/41 bar max. with a 10:1 safety factor. For high cycle applications, see page conversion information.
Pressure drop	See ordering information table next page. For detailed differential pressure charts, see page 62.
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)	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 80.
BSPP Test Kits include outlet adapter.

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

① SCFM/psi multipressure scales are standard.

Example: H 771 A - 250 - TK

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



Note: Consult factory for other options.

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

Example: H771 A - 250 - TK - S1