

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)

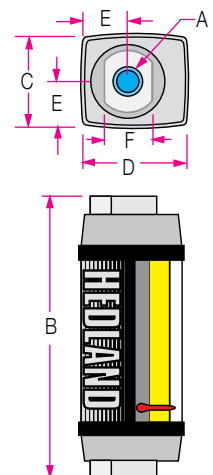
NOTE: Dimensions for 3" can be found on page 78.

Weights for all sizes can be found on page 79.

③ 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



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ORDERING INFORMATION:

NOMINAL PORT SIZE ^②	FLOW RANGE		PRESSURE DROP		MODEL NUMBER (see example below)			MATERIAL	
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF	BSPP ^③	BRASS 3500 PSI	STAINLESS
¼" SAE 6	.02 - 0.2 .05 - 0.5 0.1 - 1.0 0.2 - 2.0	0.1 - 0.75 0.2 - 1.9 0.5 - 3.75 1 - 7.5	3.5 (.24) 3.0 (.21) 4.0 (.28) 6.0 (.41)	4.0 (.28) 5.0 (.35) 9.0 (.62) 13 (.90)	H204 * - 002 H204 * - 005 H204 * - 010 H204 * - 020	H205 * - 002 H205 * - 005 H205 * - 010 H205 * - 020	H206 * - 002 H206 * - 005 H206 * - 010 H206 * - 020	B	6000 PSI S
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	2.0 (.14) 2.0 (.14) 3.0 (.21) 4.0 (.28) 6.5 (.45)	2.75 (.19) 3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	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
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	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1)	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
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	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62) 12.5 (.86)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24 (1.7) 34 (2.3)	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
1¼" SAE 20	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	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
1½" SAE 24	3 - 30 5 - 50 10 - 75 10 - 100 10 - 150	10 - 110 20 - 190 40 - 280 50 - 380 50 - 560	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45) 10.5 (.72)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0) 27.5 (1.9)	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
3"	5 - 50 10 - 100 30 - 150 20 - 275	20 - 190 40 - 360 125 - 575 100 - 1000	.50 (.03) 1.40 (.10) 3.25 (.22) 11.0 (.76)	.75 (.05) 2.25 (1.6) 5.25 (.36) 18 (1.2)	Not Available	H905 B - 050 H905 B - 100 H905 B - 150 H905 B - 275	H906 B - 050 H906 B - 100 H906 B - 150 H906 B - 275	B	800 PSI Not Available

②Fractional sizes apply to NPTF and BSPP.

③3 inch models have BSPT (BS21) threads

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



3500/6000 PSI High Temperature

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 500 °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

Seals: Viton®

Scale Support: T316 SS

Scale: Polyimide

Retaining Ring: T316 SS

Retaining Spring: T316 SS

Indicator: Nickel-plated Carbon Steel

Internal Magnet: Teflon® Coated Alnico 8

Bumper: 2011 - T3 Anodized Aluminum

Guard: Cylindrical Pyrex® Glass

End Caps: 2011 - T3 Anodized Aluminum

THREADS: SAE J1926/1, NPTF ANSI B2.2, BSPP ISO1179

TEMPERATURE RANGE: -20 to +400 °F (-29 to +205 °C) Continuous

+400 to +500 °F (+205 to +260 °C) Intermittent

For detailed "Pressure vs. Temperature" correlation information, see page 36.

PRESSURE RATING:

Brass Operating: 3,500 psi/241 bar max. 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 36.

For detailed differential pressure charts, see page 64.

ACCURACY: $\pm 2\%$ of full scale

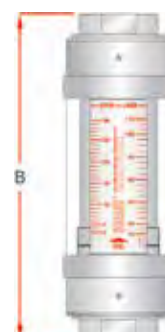
REPEATABILITY: $\pm 1\%$



DIMENSIONS:

A	B	C	D
NOMINAL PORT SIZE	LENGTH in (mm)	WIDTH in (mm)	FLATS in (mm)
¼ (SAE 6)	6.60 (168)	2.01 (53)	1.25 (32)
½ (SAE 10)	6.60 (168)	2.01 (53)	1.25 (32)
¾ (SAE 12)	7.20 (183)	2.48 (63)	1.50 (38)
1 (SAE 16)	7.20 (183)	2.48 (63)	1.75 (44)
1¼ (SAE 20)	12.20 (310)	4.20 (105)	2.75 (70)
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NOTE: Weights for all sizes can be found on page 79.



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