

# 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<sup>Ⓞ</sup>

T303 Stainless body, C360 Brass piston and cone

#### COMMON PARTS:

Spider Plate: T316 SS

Spring: T302 SS

Fasteners: T303 SS

Pressure Seals: Viton<sup>®</sup>

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 29.

#### 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 3/4" to 1-1/2" series) with a 3:1 safety factor.

For High Cycle Applications: See page 7

PRESSURE DROP: See Ordering Information Table, page 28.

For detailed differential pressure charts, see page 58.

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

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)	
1/4 (SAE 6)	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)	
1/2 (SAE 10)	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)	
3/4 (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)	
1-1/4 (SAE 20)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	
1-1/2 (SAE 24)	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)	

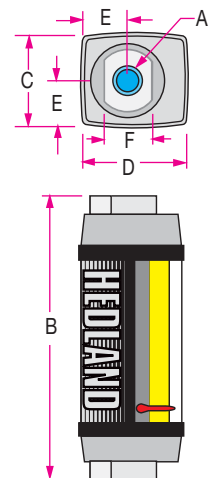
NOTE: Dimensions for 3" can be found on page 72.

Weights for all sizes can be found on page 73.

<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



# 3500/6000 PSI Flow Meters

## For Water and Other Liquids

### ORDERING INFORMATION:

NOMINAL PORT SIZE <sup>®</sup>	FLOW RANGE		PRESSURE DROP		MODEL NUMBER <i>(see example below)</i>			MATERIAL	
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	SAE	NPTF	BSPP <sup>®</sup>	BRASS 3500 PSI	STAINLESS
<b>1/4"</b> SAE 6	.02 - .20	0.1 - 0.75	3.5 (.24)	4.0 (.28)	H204 * - 002	H205 * - 002	H206 * - 002	<b>B</b>	6000 PSI <b>S</b>
	.05 - .50	0.2 - 1.9	3.0 (.21)	5.0 (.35)	H204 * - 005	H205 * - 005	H206 * - 005		
	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)	H204 * - 010	H205 * - 010	H206 * - 010		
	0.2 - 2.0	1.0 - 7.5	6.0 (.41)	13.0 (.90)	H204 * - 020	H205 * - 020	H206 * - 020		
<b>1/2"</b> SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	H604 * - 001	H605 * - 001	H606 * - 001	<b>B</b>	6000 PSI <b>S</b>
	0.2 - 2.0	1.0 - 7.5	2.0 (.14)	3.0 (.21)	H604 * - 002	H605 * - 002	H606 * - 002		
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	H604 * - 005	H605 * - 005	H606 * - 005		
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	H604 * - 010	H605 * - 010	H606 * - 010		
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	H604 * - 015	H605 * - 015	H606 * - 015		
<b>3/4"</b> SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	H704 * - 002	H705 * - 002	H706 * - 002	<b>B</b>	5000 PSI <b>S</b>
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	H704 * - 005	H705 * - 005	H706 * - 005		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	H704 * - 010	H705 * - 010	H706 * - 010		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	H704 * - 020	H705 * - 020	H706 * - 020		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	H704 * - 030	H705 * - 030	H706 * - 030		
<b>1"</b> SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	H754 * - 002	H755 * - 002	H756 * - 002	<b>B</b>	5000 PSI <b>S</b>
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	H754 * - 005	H755 * - 005	H756 * - 005		
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	H754 * - 010	H755 * - 010	H756 * - 010		
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	H754 * - 020	H755 * - 020	H756 * - 020		
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	H754 * - 030	H755 * - 030	H756 * - 030		
	4 - 40	15 - 150	9.0 (.62)	24.0 (1.7)	H754 * - 040	H755 * - 040	H756 * - 040		
	5 - 50	20 - 190	12.5 (.86)	34.0 (2.3)	H754 * - 050	H755 * - 050	H756 * - 050		
<b>1-1/4"</b> SAE 20	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	H804 * - 030	H805 * - 030	H806 * - 030	<b>B</b>	5000 PSI <b>S</b>
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	H804 * - 050	H805 * - 050	H806 * - 050		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	H804 * - 075	H805 * - 075	H806 * - 075		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	H804 * - 100	H805 * - 100	H806 * - 100		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	H804 * - 150	H805 * - 150	H806 * - 150		
<b>1-1/2"</b> SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	H854 * - 030	H855 * - 030	H856 * - 030	<b>B</b>	5000 PSI <b>S</b>
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	H854 * - 050	H855 * - 050	H856 * - 050		
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	H854 * - 075	H855 * - 075	H856 * - 075		
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	H854 * - 100	H855 * - 100	H856 * - 100		
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	H854 * - 150	H855 * - 150	H856 * - 150		
<b>3"</b>	5 - 50	20 - 190	.50 (.03)	.75 (.05)		H905 * - 050	H906 * - 050	<b>B</b>	800 PSI Not Available
	10 - 100	40 - 360	1.40 (.10)	2.25 (.16)		H905 * - 100	H906 * - 100		
	30 - 150	125 - 575	3.25 (.22)	5.25 (.36)		H905 * - 150	H906 * - 150		
	20 - 275	100 - 1000	11.0 (.76)	18.0 (1.2)		H905 * - 275	H906 * - 275		

<sup>®</sup>Fractional sizes apply to NPTF and BSPP.

<sup>®</sup>3 inch models have BSPT (BS21) threads

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

#### WATER-BASED FLUIDS

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#### HIGH TEMP. FLOW METERS

PAGE 29



#### FLOW-ALERT FLOW SWITCHES

PAGES 39  
and 41



#### FLOW TRANSMITTERS

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