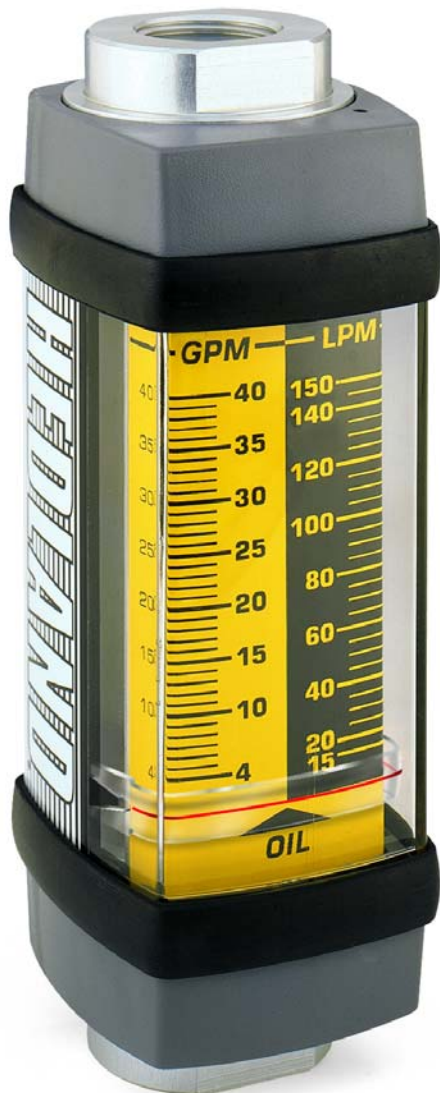


3500/6000 PSI Flow Meters

For Petroleum Fluids

- 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 .876 S.G.



SPECIFICATIONS:

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: SAE 1070/1090 Carbon Steel

Retaining Spring: SAE 1070/1090 Carbon Steel

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, Code 61 and Code 62: SAEJ518

TEMPERATURE RANGE: -20 to 240 °F (-29 to 116 °C) for higher temp. meters, see page 13

PRESSURE RATING:

Aluminum / 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 10.

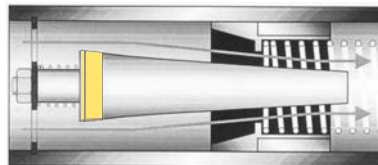
For detailed differential pressure charts, see page 55.

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

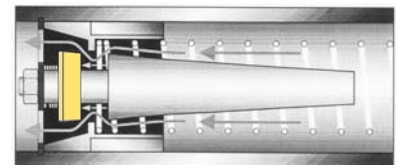
REPEATABILITY: $\pm 1\%$

REVERSE FLOW BY-PASS OPTION:

Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice. This shift creates a gap which allows the fluid to flow freely in the reverse direction.



Normal Flow Direction



Reverse Flow By-Pass

DIMENSIONS:

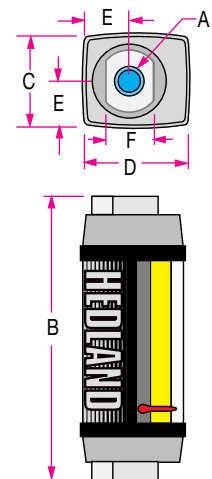
| A | B | C | D | E | F |
|-------------------|----------------|---------------|---------------|----------------|---------------|
| NOMINAL PORT SIZE | LENGTH in (mm) | WIDTH in (mm) | DEPTH in (mm) | OFFSET in (mm) | FLATS in (mm) |
| 1/4 (SAE 6) | 4.8 (122) | 1.68 (43) | 1.90 (48) | .84 (21) | .88 (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) | 1.50 (38) |
| 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 1-1/2" Code 62, 3" and 3" Code 61 can be found on page 72.

Weights for all sizes can be found on page 73.

① 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



3500/6000 PSI Flow Meters

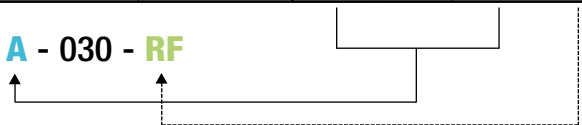
For Petroleum Fluids

ORDERING INFORMATION:

| NOMINAL PORT SIZE | FLOW RANGE | | PRESSURE DROP | | | MODEL NUMBER <i>(see example below)</i> | | | MATERIAL | | | OPTIONS |
|-------------------|------------|------------|--------------------|---------------------|-----------------------------|---|------------------|-------------------|-------------------|----------------|---------------|---------------|
| | GPM | LPM | 50% FLOW PSI (BAR) | 100% FLOW PSI (BAR) | REVERSE 100% FLOW PSI (BAR) | SAE | NPTF | BSPP [®] | ALUMINUM 3500 PSI | BRASS 3500 PSI | STAINLESS | REVERSE FLOW |
| 1/4 SAE 6 | .02 - 0.2 | 0.1 - 0.75 | 3.5 (.24) | 4.0 (.28) | | H200 * - 002 - † | H201 * - 002 - † | H202 * - 002 - † | A | B | S | Not Available |
| | .05 - 0.5 | 0.2 - 1.9 | 3.0 (.21) | 5.0 (.35) | | H200 * - 005 - † | H201 * - 005 - † | H202 * - 005 - † | | | | |
| | 0.1 - 1.0 | 0.5 - 3.75 | 4.0 (.28) | 9.0 (.62) | | H200 * - 010 - † | H201 * - 010 - † | H202 * - 010 - † | | | | |
| | 0.2 - 2.0 | 1 - 7.5 | 6.0 (.41) | 13 (.90) | | H200 * - 020 - † | H201 * - 020 - † | H202 * - 020 - † | | | | |
| 1/2 SAE 10 | 0.1 - 1.0 | 0.5 - 3.75 | 2.0 (.14) | 2.75 (.19) | 5.2 (.36) | H600 * - 001 - † | H601 * - 001 - † | H602 * - 001 - † | A | B | S | RF |
| | 0.2 - 2.0 | 1 - 7.5 | 2.0 (.14) | 3.0 (.21) | 9.6 (.66) | H600 * - 002 - † | H601 * - 002 - † | H602 * - 002 - † | | | | |
| | 0.5 - 5.0 | 2 - 19 | 3.0 (.21) | 6.0 (.41) | 4.8 (.33) | H600 * - 005 - † | H601 * - 005 - † | H602 * - 005 - † | | | | |
| | 1 - 10 | 5 - 38 | 4.0 (.28) | 9.5 (.66) | 23.0 (1.6) | H600 * - 010 - † | H601 * - 010 - † | H602 * - 010 - † | | | | |
| | 1 - 15 | 4 - 56 | 6.5 (.45) | 18.5 (1.3) | 55.2 (3.8) | H600 * - 015 - † | H601 * - 015 - † | H602 * - 015 - † | | | | |
| 3/4 SAE 12 | 0.2 - 2.0 | 1 - 7.5 | 1.0 (.07) | 2.0 (.14) | 2.9 (.20) | H700 * - 002 - † | H701 * - 002 - † | H702 * - 002 - † | A | B | S | RF |
| | 0.5 - 5.0 | 2 - 19 | 2.5 (.17) | 3.5 (.24) | 5.3 (.37) | H700 * - 005 - † | H701 * - 005 - † | H702 * - 005 - † | | | | |
| | 1 - 10 | 5 - 38 | 3.5 (.24) | 9.0 (.62) | 8.8 (.61) | H700 * - 010 - † | H701 * - 010 - † | H702 * - 010 - † | | | | |
| | 2 - 20 | 10 - 76 | 4.0 (.28) | 9.0 (.62) | 18.0 (1.24) | H700 * - 020 - † | H701 * - 020 - † | H702 * - 020 - † | | | | |
| | 3 - 30 | 10 - 115 | 7.0 (.48) | 16.5 (1.1) | 45.1 (3.11) | H700 * - 030 - † | H701 * - 030 - † | H702 * - 030 - † | | | | |
| 1 SAE 16 | 0.2 - 2.0 | 1 - 7.5 | 1.0 (.07) | 2.0 (.14) | 2.9 (.20) | H760 * - 002 - † | H761 * - 002 - † | H762 * - 002 - † | A | B | S | RF |
| | 0.5 - 5.0 | 2 - 19 | 2.5 (.17) | 3.5 (.24) | 5.3 (.37) | H760 * - 005 - † | H761 * - 005 - † | H762 * - 005 - † | | | | |
| | 1 - 10 | 5 - 38 | 3.5 (.24) | 9.0 (.62) | 8.8 (.61) | H760 * - 010 - † | H761 * - 010 - † | H762 * - 010 - † | | | | |
| | 2 - 20 | 10 - 76 | 4.0 (.28) | 9.0 (.62) | 18.0 (1.24) | H760 * - 020 - † | H761 * - 020 - † | H762 * - 020 - † | | | | |
| | 3 - 30 | 10 - 115 | 7.0 (.48) | 16.5 (1.1) | 45.1 (3.11) | H760 * - 030 - † | H761 * - 030 - † | H762 * - 030 - † | | | | |
| | 4 - 40 | 15 - 150 | 9.0 (.62) | 24 (1.7) | 87.5 (6.04) | H760 * - 040 - † | H761 * - 040 - † | H762 * - 040 - † | | | | |
| 1-1/4 SAE 20 | 3 - 30 | 10 - 110 | 3.0 (.21) | 4.0 (.28) | 4.8 (.33) | H800 * - 030 - † | H801 * - 030 - † | H802 * - 030 - † | A | B | S | RF |
| | 5 - 50 | 20 - 190 | 3.5 (.24) | 7.0 (.48) | 12.5 (.86) | H800 * - 050 - † | H801 * - 050 - † | H802 * - 050 - † | | | | |
| | 10 - 75 | 40 - 280 | 5.0 (.35) | 10.5 (.72) | 31.9 (2.2) | H800 * - 075 - † | H801 * - 075 - † | H802 * - 075 - † | | | | |
| | 10 - 100 | 50 - 380 | 6.5 (.45) | 15 (1.0) | 39.0 (2.7) | H800 * - 100 - † | H801 * - 100 - † | H802 * - 100 - † | | | | |
| | 10 - 150 | 50 - 560 | 10.5 (.72) | 27.5 (1.9) | 110 (7.6) | H800 * - 150 - † | H801 * - 150 - † | H802 * - 150 - † | | | | |
| 1-1/2 SAE 24 | 3 - 30 | 10 - 110 | 3.0 (.21) | 4.0 (.28) | 4.8 (.33) | H860 * - 030 - † | H861 * - 030 - † | H862 * - 030 - † | A | B | S | RF |
| | 5 - 50 | 20 - 190 | 3.5 (.24) | 7.0 (.48) | 12.5 (.86) | H860 * - 050 - † | H861 * - 050 - † | H862 * - 050 - † | | | | |
| | 10 - 75 | 40 - 280 | 5.0 (.35) | 10.5 (.72) | 31.9 (2.2) | H860 * - 075 - † | H861 * - 075 - † | H862 * - 075 - † | | | | |
| | 10 - 100 | 50 - 380 | 6.5 (.45) | 15.0 (1.0) | 39.0 (2.7) | H860 * - 100 - † | H861 * - 100 - † | H862 * - 100 - † | | | | |
| | 10 - 150 | 50 - 560 | 10.5 (.72) | 27.5 (1.9) | 110 (7.6) | H860 * - 150 - † | H861 * - 150 - † | H862 * - 150 - † | | | | |
| 1-1/2 Code 62 | 3 - 30 | 10 - 110 | 3.0 (.21) | 4.0 (.28) | 4.8 (.33) | H808 * - 030 - † | | | A | B | S | RF |
| | 5 - 50 | 20 - 190 | 3.5 (.24) | 7.0 (.48) | 12.5 (.86) | H808 * - 050 - † | | | | | | |
| | 10 - 75 | 40 - 280 | 5.0 (.35) | 10.5 (.72) | 31.9 (2.2) | H808 * - 075 - † | | | | | | |
| | 10 - 100 | 50 - 380 | 6.5 (.45) | 15 (1.0) | 39.0 (2.7) | H808 * - 100 - † | | | | | | |
| | 10 - 150 | 50 - 560 | 10.5 (.72) | 27.5 (1.9) | 110 (7.6) | H808 * - 150 - † | | | | | | |
| 3 | 10 - 200 | 50 - 750 | 11 (.76) | 17 (1.1) | | | H901 * - 200 - † | H902 * - 200 - † | 800 PSI | | Not Available | |
| | 20 - 300 | 100 - 1100 | 11 (.76) | 18 (1.2) | | | H901 * - 300 - † | H902 * - 300 - † | A | B | | |
| 3 Code 61 | 10 - 200 | 50 - 750 | 11 (.76) | 17 (1.1) | | H909 * - 200 - † | | | 800 PSI | | Not Available | |
| | 20 - 300 | 100 - 1100 | 11 (.76) | 18 (1.2) | | H909 * - 300 - † | | | A | B | | |

NOTE: RF option is not available with standard brass flow meters.

(example) H 701 A - 030 - RF



© 3 inch models have BSPT (BS21) threads

