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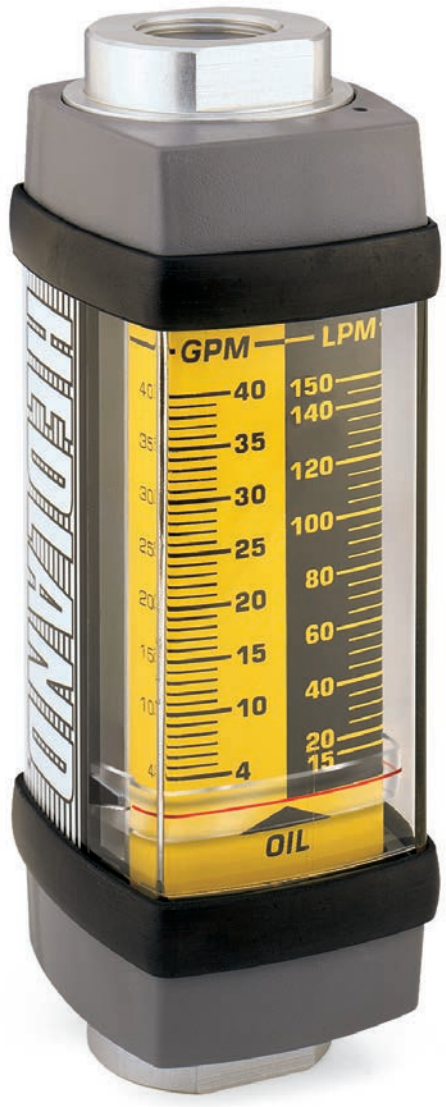
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3500/6000 PSI Flow Meters

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 ±2% full scale
- Repeatability ±1%
- Special scales available
- Calibrated for .876 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: 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: SAE**J518

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

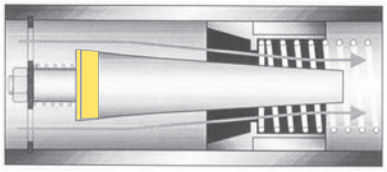
Stainless Steel Operating: 6,000 psi/414 bar max. (5,000 psi/345 bar max. for ¾" to 1½" series and 4,000 psi/276 bar max. for code 62 flange) with a 3:1 safety factor.
For High Cycle Applications: See page 7

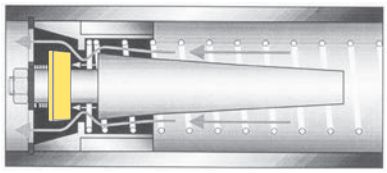
PRESSURE DROP: See Ordering Information Table, page 10.
For detailed differential pressure charts, see page 55.

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

* SAE ports will accept both light-duty (SAE J1926-3) and heavy-duty (SAE J1926-2) stud ends, except 1/4 (SAE 6) size, which will accept only light-duty (SAE J1926-3) studs ends.

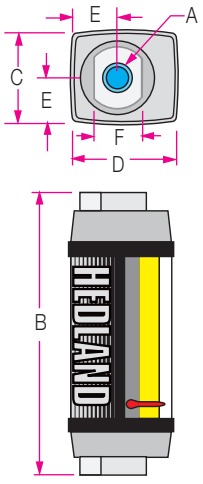
REVERSE FLOW BY-PASS OPTION: Features a two-piece cone that responds to flow in the primary flow direction in the same manner as the standard design. Flow in the reverse direction causes the lower cone shuttle to shift, moving it below the sharp-edged piston orifice. This shift creates a gap which allows 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)
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 1½" Code 62, 3" and 3" Code 61 can be found on page 78.
Weights for all sizes can be found on page 79.

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

Hedland®

3500/6000 PSI Flow Meters

For Petroleum Fluids

ORDERING INFORMATION:

NOMINAL PORT SIZE②	FLOW RANGE		PRESSURE DROP			MODEL NUMBER (see example below)			MATERIAL			OPTIONS
	GPM	LPM	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	REVERSE 100% FLOW PSI (BAR)	SAE	NPTF	BSPP③	ALUMINUM 3500 PSI	BRASS 3500 PSI	STAINLESS	REVERSE FLOW
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)		H200 ✱ - 002 - † H200 ✱ - 005 - † H200 ✱ - 010 - † H200 ✱ - 020 - †	H201 ✱ - 002 - † H201 ✱ - 005 - † H201 ✱ - 010 - † H201 ✱ - 020 - †	H202 ✱-002 - † H202 ✱-005 - † H202 ✱-010 - † H202 ✱-020 - †	A	B	6000 PSI S	Not Available
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)	5.2 (.36) 9.6 (.66) 4.8 (.33) 23.0 (1.6) 55.2 (3.8)	H600 ✱ - 001 - † H600 ✱ - 002 - † H600 ✱ - 005 - † H600 ✱ - 010 - † H600 ✱ - 015 - †	H601 ✱ - 001 - † H601 ✱ - 002 - † H601 ✱ - 005 - † H601 ✱ - 010 - † H601 ✱ - 015 - †	H602 ✱-001 - † H602 ✱-002 - † H602 ✱-005 - † H602 ✱-010 - † H602 ✱-015 - †	A	B	6000 PSI S	RF
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)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11)	H700 ✱ - 002 - † H700 ✱ - 005 - † H700 ✱ - 010 - † H700 ✱ - 020 - † H700 ✱ - 030 - †	H701 ✱ - 002 - † H701 ✱ - 005 - † H701 ✱ - 010 - † H701 ✱ - 020 - † H701 ✱ - 030 - †	H702 ✱-002 - † H702 ✱-005 - † H702 ✱-010 - † H702 ✱-020 - † H702 ✱-030 - †	A	B	5000 PSI S	RF
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)	2.9 (.20) 5.3 (.37) 8.8 (.61) 18.0 (1.24) 45.1 (3.11) 87.5 (6.04) 150 (10.4)	H760 ✱ - 002 - † H760 ✱ - 005 - † H760 ✱ - 010 - † H760 ✱ - 020 - † H760 ✱ - 030 - † H760 ✱ - 040 - † H760 ✱ - 050 - †	H761 ✱ - 002 - † H761 ✱ - 005 - † H761 ✱ - 010 - † H761 ✱ - 020 - † H761 ✱ - 030 - † H761 ✱ - 040 - † H761 ✱ - 050 - †	H762 ✱-002 - † H762 ✱-005 - † H762 ✱-010 - † H762 ✱-020 - † H762 ✱-030 - † H762 ✱-040 - † H762 ✱-050 - †	A	B	5000 PSI S	RF
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 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H800 ✱ - 030 - † H800 ✱ - 050 - † H800 ✱ - 075 - † H800 ✱ - 100 - † H800 ✱ - 150 - †	H801 ✱ - 030 - † H801 ✱ - 050 - † H801 ✱ - 075 - † H801 ✱ - 100 - † H801 ✱ - 150 - †	H802 ✱-030 - † H802 ✱-050 - † H802 ✱-075 - † H802 ✱-100 - † H802 ✱-150 - †	A	B	5000 PSI S	RF
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)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H860 ✱ - 030 - † H860 ✱ - 050 - † H860 ✱ - 075 - † H860 ✱ - 100 - † H860 ✱ - 150 - †	H861 ✱ - 030 - † H861 ✱ - 050 - † H861 ✱ - 075 - † H861 ✱ - 100 - † H861 ✱ - 150 - †	H862 ✱-030 - † H862 ✱-050 - † H862 ✱-075 - † H862 ✱-100 - † H862 ✱-150 - †	A	B	5000 PSI S	RF
1½" Code 62	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 (1.0) 27.5 (1.9)	4.8 (.33) 12.5 (.86) 31.9 (2.2) 39.0 (2.7) 110 (7.6)	H808 ✱ - 030 - † H808 ✱ - 050 - † H808 ✱ - 075 - † H808 ✱ - 100 - † H808 ✱ - 150 - †			A	B	4000 PSI S	RF
3"	10 - 200 20 - 300	50 - 750 100 - 1100	11 (.76) 11 (.76)	17 (1.1) 18 (1.2)		Not Available	H901 ✱ - 200 - † H901 ✱ - 300 - †	H902 ✱-200 - † H902 ✱-300 - †	800 PS A	800 PS B	Not Available	
3" Code 61	10 - 200 20 - 300	50 - 750 100 - 1100	11 (.76) 11 (.76)	17 (1.1) 18 (1.2)		H909 ✱ - 200 - † H909 ✱ - 300 - †			800 PS A	800 PS B	Not Available	

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

② Fractional sizes apply to NPTF and BSPP.

③ 3 inch models have BSPT (BS21) threads

(example) **H 701 A - 030 - RF**

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