

3500/6000 PSI Flow Meters

For Phosphate Ester 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 1.18 S.G.



SPECIFICATIONS:

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:	Retaining Ring: SAE 1070/1090 Carbon Steel
Spider Plate: T316 SS	Retaining Spring: SAE 1070/1090 Carbon Steel
Spring: T302 SS	Indicator and Internal Magnet: PPS / Ceramic
Fasteners: T303 SS	Guard Seal / Bumper: EPR
Pressure Seals: EPR	Scale Support: 6063 - T6 Aluminum
Guard: Nylon	End Caps: Nylon ST

THREADS: SAE J1926/1, NPTF ANSI B2.2, BSPP ISO1179, **Code 62:** SAEJ518

TEMPERATURE RANGE: -20 to +240 °F (-29 to +116 °C) for higher temp. meters, see page 19

PRESSURE RATING:

Aluminum / 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 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 16.

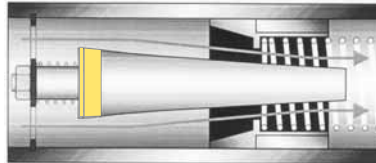
For detailed differential pressure charts, see page 56.

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

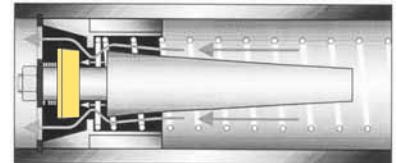
REPEATABILITY: $\pm 1\%$

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



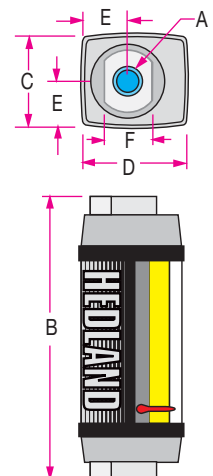
Reverse Flow By-Pass

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)	1.75 (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 1-1/2" Code 62 can be found on page 72.

Weights for all sizes can be found on page 73.



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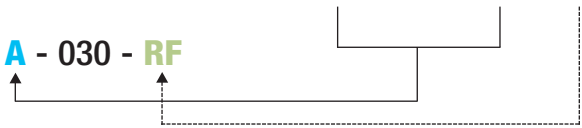
ORDERING INFORMATION:

NOMINAL PORT SIZE ①	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)		H294 * - 002 - †	H295 * - 002 - †	H296 * - 002 - †	A	B	6000 PSI	Not Available
	.05 - .05	0.2 - 1.9	3.0 (.21)	5.0 (.35)		H294 * - 005 - †	H295 * - 005 - †	H296 * - 005 - †				
	0.1 - 1.0	0.5 - 3.75	4.0 (.28)	9.0 (.62)		H294 * - 010 - †	H295 * - 010 - †	H296 * - 010 - †				
	0.2 - 2.0	1.0 - 7.5	6.0 (.41)	13 (.90)		H294 * - 020 - †	H295 * - 020 - †	H296 * - 020 - †				
1/2" SAE 10	0.1 - 1.0	0.5 - 3.75	2.0 (.14)	2.75 (.19)	5.2 (.36)	H694 * - 001 - †	H695 * - 001 - †	H696 * - 001 - †	A	B	6000 PSI	RF
	0.2 - 2.0	1 - 7.5	2.0 (.14)	3.0 (.21)	9.6 (.66)	H694 * - 002 - †	H695 * - 002 - †	H696 * - 002 - †				
	0.5 - 5.0	2 - 19	3.0 (.21)	6.0 (.41)	4.8 (.33)	H694 * - 005 - †	H695 * - 005 - †	H696 * - 005 - †				
	1 - 10	5 - 38	4.0 (.28)	9.5 (.66)	23.0 (1.6)	H694 * - 010 - †	H695 * - 010 - †	H696 * - 010 - †				
	1 - 15	4 - 56	6.5 (.45)	18.5 (1.3)	55.2 (3.8)	H694 * - 015 - †	H695 * - 015 - †	H696 * - 015 - †				
3/4" SAE 12	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H794 * - 002 - †	H795 * - 002 - †	H796 * - 002 - †	A	B	5000 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H794 * - 005 - †	H795 * - 005 - †	H796 * - 005 - †				
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H794 * - 010 - †	H795 * - 010 - †	H796 * - 010 - †				
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H794 * - 020 - †	H795 * - 020 - †	H796 * - 020 - †				
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H794 * - 030 - †	H795 * - 030 - †	H796 * - 030 - †				
1" SAE 16	0.2 - 2.0	1 - 7.5	1.0 (.07)	2.0 (.14)	2.9 (.20)	H764 * - 002 - †	H765 * - 002 - †	H766 * - 002 - †	A	B	5000 PSI	RF
	0.5 - 5.0	2 - 19	2.5 (.17)	3.5 (.24)	5.3 (.37)	H764 * - 005 - †	H765 * - 005 - †	H766 * - 005 - †				
	1 - 10	5 - 38	3.5 (.24)	9.0 (.62)	8.8 (.61)	H764 * - 010 - †	H765 * - 010 - †	H766 * - 010 - †				
	2 - 20	10 - 76	4.0 (.28)	9.0 (.62)	18.0 (1.24)	H764 * - 020 - †	H765 * - 020 - †	H766 * - 020 - †				
	3 - 30	10 - 115	7.0 (.48)	16.5 (1.1)	45.1 (3.11)	H764 * - 030 - †	H765 * - 030 - †	H766 * - 030 - †				
	4 - 40	15 - 150	9.0 (.62)	24.0 (1.7)	87.5 (6.04)	H764 * - 040 - †	H765 * - 040 - †	H766 * - 040 - †				
	5 - 50	20 - 190	12.5 (.86)	34.0 (2.3)	150 (10.4)	H764 * - 050 - †	H765 * - 050 - †	H766 * - 050 - †				
1-1/4" SAE 20	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H894 * - 030 - †	H895 * - 030 - †	H896 * - 030 - †	A	B	5000 PSI	RF
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H894 * - 050 - †	H895 * - 050 - †	H896 * - 050 - †				
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H894 * - 075 - †	H895 * - 075 - †	H896 * - 075 - †				
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H894 * - 100 - †	H895 * - 100 - †	H896 * - 100 - †				
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H894 * - 150 - †	H895 * - 150 - †	H896 * - 150 - †				
1-1/2" SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H864 * - 030 - †	H865 * - 030 - †	H866 * - 030 - †	A	B	5000 PSI	RF
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H864 * - 050 - †	H865 * - 050 - †	H866 * - 050 - †				
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H864 * - 075 - †	H865 * - 075 - †	H866 * - 075 - †				
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H864 * - 100 - †	H865 * - 100 - †	H866 * - 100 - †				
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H864 * - 150 - †	H865 * - 150 - †	H866 * - 150 - †				
1-1/2" Code 62	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H898 * - 030 - †			A	B	5000 PSI	RF
	5 - 50	20 - 190	3.5 (.24)	7.0 (.48)	12.5 (.86)	H898 * - 050 - †						
	10 - 75	40 - 280	5.0 (.35)	10.5 (.72)	31.9 (2.2)	H898 * - 075 - †						
	10 - 100	50 - 380	6.5 (.45)	15.0 (1.0)	39.0 (2.7)	H898 * - 100 - †						
	10 - 150	50 - 560	10.5 (.72)	27.5 (1.9)	110 (7.6)	H898 * - 150 - †						

① Fractional sizes apply to NPTF and BSPP.

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

(example) H 795 A - 030 - RF



PHOSPHATE ESTER TEST KITS

PAGE 17



HIGH TEMP. FLOW METERS

PAGE 19



FLOW-ALERT FLOW SWITCHES

PAGES 39 and 41



FLOW TRANSMITTERS

PAGE 43

