Hedland

RusAutomation

3500/6000 PSI flow meters

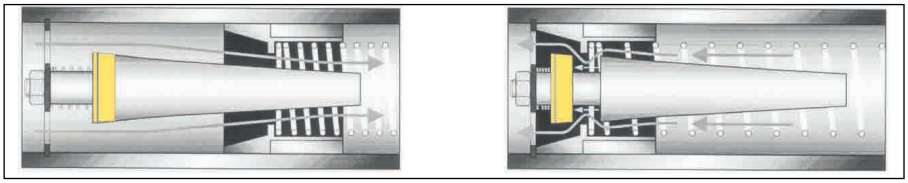
For phosphate ester fluids

- 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 116°C (240 °F)
- Accuracy ±2% full scale
- Repeatability ±1%
- Special scales available
- Calibrated for 1.18 S.G.

Technical data

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	
Spider plate: T316 SS **Spring:** T302 SS **Fasteners:** T303 SS **Pressure seals:** EPR **Guard:** Nylon **End caps: Nylon ST**	**Retaining ring:** SAE 1070/1090 carbon steel **Retaining spring:** SAE 1070/1090 carbon steel **Indicator and internal magnet:** PPS / ceramic **Guard seal / bumper:** EPR **Scale support:** 6063 - T6 aluminum
Threads	SAE J1926/1, NPTF ANSI B2.2, BSPP ISO1179, code 62: SAE J518
Temperature range	-29 to +116 °C (-20 to +240 °F) for higher temp. meters, see page 24-25.
Pressure rating -	
Aluminum / brass operating	3,500 psi/241 bar max. with a 3:1 safety factor. For high cycle applications: See page conversion information
Stainless steel operating	6,000 psi/414 bar max. (5,000 psi/345 bar max. for ¾" to 1½" series, 4000 psi for code 62) with a 3:1 safety factor. For high cycle applications: See page conversion information
Pressure drop:	See ordering information table, next page and detailed differential pressure charts on page 62.
Accuracy	±2% of full scale, ±7% of full scale for ¼" meters
Repeatability	±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.

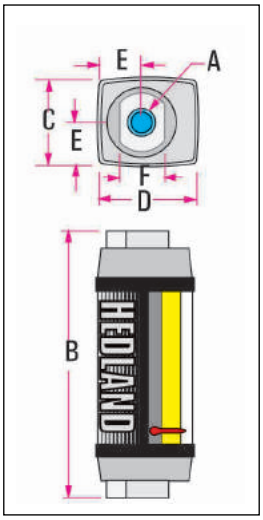


Normal flow direction

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)
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 1-½"Code 62 can be found on page 79.
Weights for all sizes can be found on page 80.

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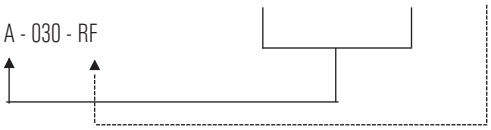
Ordering information

Nominal port size①	Flow range		Pressure drop			Model number (see example below)			Material ⌘			Options ♦
	gal/min	l/min	50% flow psi (bar)	100% flow psi (bar)	Reverse 100% flow psi (bar)	SAE	NPTF	BSPP	Aluminium 3500 psi	Brass 3500 psi	Stainless steel	Reverse flow
¼" 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 S	Not available
	.05 - 0.5	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 - ♦				
½" 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 S	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 - ♦				
¾" 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 S	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 S	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 - ♦				
1¼" 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 S	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 - ♦				
1½" SAE 24	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H864 ⌘ - 030 - ♦	H865 ⌘ - 030 - ♦	H866 ⌘ -030 - ♦	A	B	4000 psi S	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 - ♦				
1½" Code 62	3 - 30	10 - 110	3.0 (.21)	4.0 (.28)	4.8 (.33)	H898 ⌘ - 030 - ♦			A	B	4000 psi S	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 - ♦						

①Fractional sizes apply to NPTF and BSPP.

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

Example: H 795 A - 030 - RF



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