

# 6000 PSI Flow Meters

## For A.P.I. Oil / Caustic and Corrosive Liquids

- Direct reading
- Install in any position
- 360° Rotatable Guard/Scale
- Easier to Read Linear Scale
- No Flow Straighteners or Special Piping Required
- Insensitive to Shock and Vibration
- Good Viscosity Stability
- Temperature up to 240°F
- Accuracy ± 2% Full Scale
- Repeatability ± 1%
- Special Scales Available



### SPECIFICATIONS:

#### MATERIALS:

T316 Stainless body, piston and cone

<b>COMMON PARTS:</b>	<b>Retaining Ring:</b> T316 SS
<b>Spider Plate:</b> T316 SS	<b>Retaining Spring:</b> T316 SS
<b>Spring:</b> T316 SS	<b>Indicator and Internal Magnet:</b> PPS / Ceramic
<b>Fasteners:</b> T316 SS	<b>Guard Seal / Bumper:</b> Buna N
<b>Pressure Seals:</b> Viton®	<b>Scale Support:</b> 6063 - T6 Aluminum
<b>Guard:</b> Polycarbonate	<b>End Caps:</b> Nylon ST

**THREADS:** NPTF ANSI B2.2, BSPP ISO1179

**TEMPERATURE RANGE:** -20 to 240°F (-29 to 116°C) for higher temperatures consult factory

#### PRESSURE RATING:

**Oil / Liquids 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.

**Fatigue Rating:** per NFPA T2.6.1R1-1991, (for details see page 7)

**PRESSURE DROP:** See Ordering Information Table, page 32. For detailed differential pressure charts, see page 51 for API Oil, and page 54 for Liquids.

**ACCURACY:** ± 2% of full scale reading

**REPEATABILITY:** ± 1%

#### HOSTILE ENVIRONMENT OPTION SPECIFICATIONS:

#### MATERIALS:

T316 Stainless body, piston and cone

<b>COMMON PARTS:</b>	<b>Retaining Ring:</b> T316 SS
<b>Spider Plate:</b> T316 SS	<b>Retaining Spring:</b> T316 SS
<b>Spring:</b> T316 SS	<b>Indicator:</b> T416 SS
<b>Fasteners:</b> T316 SS	<b>Bumper:</b> T316 SS
<b>Seals:</b> Viton	<b>Scale Support:</b> T316 SS
<b>End Caps:</b> T316 SS	<b>Guard:</b> Cylindrical Pyrex™ glass
<b>Internal Magnet:</b> Teflon Coated Alnico 8	

**TEMPERATURE RANGE:** -20 to 400°F (-29 to 205°C) Continuous  
400 to 500°F (205 to 260°C) Intermittent

For detailed "Pressure vs. Temperature" correlation information, see page 32.

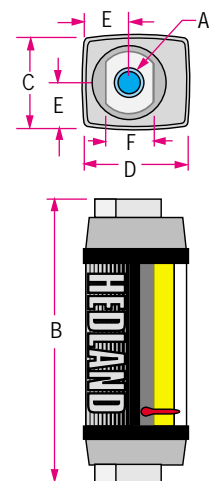
**NOTE:** See page 29 for dimensions and similar photo illustration.



### 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	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
1/2	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
3/4	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1	7.2 (183)	2.48 (63)	2.85 (72)	1.24 (32)	1.50 (38)
1-1/4	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1-1/2	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)

**NOTE:** Weights for all sizes can be found on page 57.



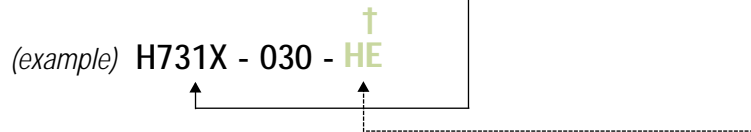
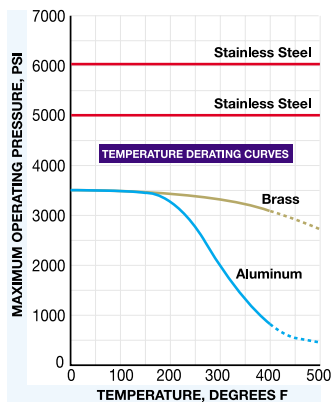
# 6000 PSI Flow Meters

## For A.P.I. Oil / Caustic and Corrosive Liquids

### ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		PRESSURE DROP		MODEL NUMBER <i>(see example below*)</i>				HOSTILE ENVIRONMENT OPTION							
					API - OIL .876 (S.G.)		LIQUIDS 1.0 (S.G.)									
					NPTF	BSPP	NPTF	BSPP								
1/4	0.1 - 1.0 0.2 - 2.0	0.5 - 3.75 1 - 7.5	4.0 (.28) 6.0 (.41)	9.0 (.62) 13 (.90)	6000 PSI		6000 PSI		HE							
					H231X - 010 - † H231X - 020 - †	H232X - 010 - † H232X - 020 - †	H234X - 010 - † H234X - 020 - †	H235X - 010 - † H235X - 020 - †								
1/2	0.2 - 2.0 0.5 - 5.0 1 - 10 1 - 15	1 - 7.5 2 - 19 5 - 38 4 - 56	2.0 (.14) 3.0 (.21) 4.0 (.28) 6.0 (.45)	3.0 (.21) 6.0 (.41) 9.5 (.66) 18.5 (1.3)	6000 PSI		6000 PSI		HE							
					H631X - 002 - † H631X - 005 - † H631X - 010 - † H631X - 015 - †	H632X - 002 - † H632X - 005 - † H632X - 010 - † H632X - 015 - †	H634X - 002 - † H634X - 005 - † H634X - 010 - † H634X - 015 - †	H635X - 002 - † H635X - 005 - † H635X - 010 - † H635X - 015 - †								
					5000 PSI		5000 PSI			HE						
					H731X - 002 - † H731X - 005 - † H731X - 010 - † H731X - 020 - † H731X - 030 - †	H732X - 002 - † H732X - 005 - † H732X - 010 - † H732X - 020 - † H732X - 030 - †	H734X - 002 - † H734X - 005 - † H734X - 010 - † H734X - 020 - † H734X - 030 - †	H735X - 002 - † H735X - 005 - † H735X - 010 - † H735X - 020 - † H735X - 030 - †								
1	0.2 - 2.0 0.5 - 5.0 1 - 10 2 - 20 3 - 30 4 - 40	1 - 7.5 2 - 19 5 - 38 10 - 76 10 - 115 15 - 150	1.0 (.07) 2.5 (.17) 3.5 (.24) 4.0 (.28) 7.0 (.48) 9.0 (.62)	2.0 (.14) 3.5 (.24) 9.0 (.62) 9.0 (.62) 16.5 (1.1) 24 (1.7)	5000 PSI		SEE NOTE	5000 PSI		HE						
					H741X - 002 - † H741X - 005 - † H741X - 010 - † H741X - 020 - † H741X - 030 - † H741X - 040 - †	H744X - 002 - † H744X - 005 - † H744X - 010 - † H744X - 020 - † H744X - 030 - † H744X - 040 - †										
					5000 PSI			5000 PSI			HE					
					H831X - 030 - † H831X - 050 - † H831X - 075 - † H831X - 100 - †	H832X - 030 - † H832X - 050 - † H832X - 075 - † H832X - 100 - †		H834X - 030 - † H834X - 050 - † H834X - 075 - † H834X - 100 - †	H835X - 030 - † H835X - 050 - † H835X - 075 - † H835X - 100 - †							
					1-1/4	3 - 30 5 - 50 10 - 75 10 - 100		10 - 110 20 - 190 40 - 280 50 - 380	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45)		4.0 (.28) 7.0 (.48) 10.5 (.72) 15 (1.0)	5000 PSI		5000 PSI		HE
												H831X - 030 - † H831X - 050 - † H831X - 075 - † H831X - 100 - †	H832X - 030 - † H832X - 050 - † H832X - 075 - † H832X - 100 - †	H834X - 030 - † H834X - 050 - † H834X - 075 - † H834X - 100 - †	H835X - 030 - † H835X - 050 - † H835X - 075 - † H835X - 100 - †	
1-1/2	3 - 30 5 - 50 10 - 75 10 - 100	10 - 110 20 - 190 40 - 280 50 - 380	3.0 (.21) 3.5 (.24) 5.0 (.35) 6.5 (.45)	4.0 (.28) 7.0 (.48) 10.5 (.72) 15.0 (1.0)	5000 PSI		SEE NOTE	5000 PSI		HE						
					H841X - 030 - † H841X - 050 - † H841X - 075 - † H841X - 100 - †	H844X - 030 - † H844X - 050 - † H844X - 075 - † H844X - 100 - †										

Note: Consult factory for availability.



**PETROLEUM FLUIDS**  
PAGE 9



**WATER AND OTHER LIQUIDS**  
PAGE 27



**FLOW ALERT FLOW SWITCHES**  
PAGE 39



**FLOW TRANSMITTERS**  
PAGE 41

