

# 1500 PSI Flow Meters

## For Air / Caustic and Corrosive Gases

- 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
- Temperature up to 240°F
- Accuracy  $\pm 2\%$  Full Scale
- Repeatability  $\pm 1\%$
- 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>Bumper:</b> Buna N
<b>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:

**Air / Gases Operating:** 1,500 psi/103 bar max. with a 10:1 safety factor.

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

**PRESSURE DROP:** See Ordering Information Table, page 34. For detailed differential pressure charts, see page 55.

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

**REPEATABILITY:**  $\pm 1\%$

### 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 34.

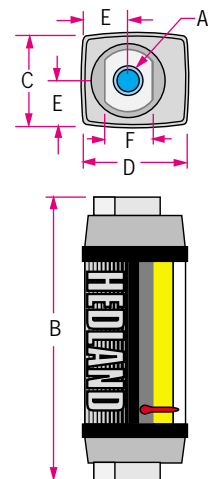
**NOTE:** See page 29 for dimensions and similar photo illustration.



### 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.



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### ORDERING INFORMATION:

NOMINAL PORT SIZE	FLOW RANGE		PRESSURE DROP		MODEL NUMBER <i>(see example below*)</i>		HOSTILE ENVIRONMENT OPTION
	① SCFM	② L/SEC	50% FLOW PSI (BAR)	100% FLOW PSI (BAR)	GASES 1.0 (S.G.)		
					NPTF	BSPP	
1/4	2 - 20	1 - 9	6.50 (.45)	12.50 (.86)	H237X - 020 - †	H238X - 020 - †	HE
	3 - 30	1.5 - 14	10.75 (.74)	21.25 (1.47)	H237X - 030 - †	H238X - 030 - †	
1/2	3 - 25	2 - 12	5.63 (.39)	9.38 (.65)	H637X - 025 - †	H638X - 025 - †	HE
	5 - 50	3 - 22	4.38 (.30)	7.50 (.52)	H637X - 050 - †	H638X - 050 - †	
	10 - 100	5 - 47	3.00 (.21)	6.88 (.47)	H637X - 100 - †	H638X - 100 - †	
	15 - 150	7 - 70	8.13 (.56)	18.75 (1.29)	H637X - 150 - †	H638X - 150 - †	
3/4	3 - 25	1.5 - 11.5	2.50 (.17)	4.00 (.28)	H737X - 025 - †	H738X - 025 - †	HE
	5 - 50	2 - 23	1.88 (.13)	3.13 (.22)	H737X - 050 - †	H738X - 050 - †	
	10 - 100	5 - 47.5	2.50 (.17)	4.75 (.33)	H737X - 100 - †	H738X - 100 - †	
	15 - 150	7 - 70	5.63 (.39)	10.94 (.75)	H737X - 150 - †	H738X - 150 - †	
1	3 - 25	1.5 - 11.5	2.50 (.17)	4.00 (.28)	H747X - 025 - †	SEE NOTE	HE
	5 - 50	2 - 23	1.88 (.13)	3.13 (.22)	H747X - 050 - †		
	10 - 100	5 - 47.5	2.50 (.17)	4.75 (.33)	H747X - 100 - †		
	15 - 150	7 - 70	5.63 (.39)	10.94 (.75)	H747X - 150 - †		
1-1/4	20 - 200	10 - 95	2.00 (.14)	3.13 (.22)	H837X - 200 - †	H838X - 200 - †	HE
	40 - 400	20 - 180	3.13 (.22)	5.60 (.39)	H837X - 400 - †	H838X - 400 - †	
	60 - 600	30 - 280	4.38 (.30)	8.75 (.60)	H837X - 600 - †	H838X - 600 - †	
	80 - 800	50 - 350	5.60 (.39)	12.00 (.83)	H837X - 800 - †	H838X - 800 - †	
1-1/2	20 - 200	10 - 95	2.00 (.14)	3.13 (.22)	H847X - 200 - †	SEE NOTE	HE
	40 - 400	20 - 180	3.13 (.22)	5.60 (.39)	H847X - 400 - †		
	60 - 600	30 - 280	4.38 (.30)	8.75 (.60)	H847X - 600 - †		
	80 - 800	50 - 350	5.60 (.39)	12.00 (.83)	H847X - 800 - †		

Note: Consult factory for availability.

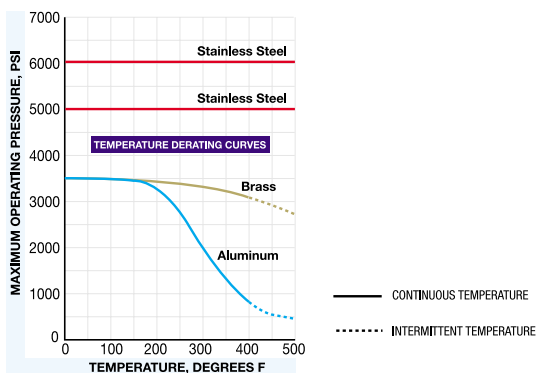
① SCFM/PSI multipressure scales are standard.

② L/sec/bar multipressure scales are available at no extra charge. Consult factory for other options.

*(example)* H 737X - 250 - HE

⚠ **Caution:** When ordering a L/sec/bar scale add "S1" suffix to part number

*(example)* H737 X - 250 - S1 or H737 X - 250 - HE - S1



#### AIR & COMPRESSED GASES

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#### AIR TEST KITS

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#### FLOW ALERT FLOW SWITCHES

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#### FLOW TRANSMITTERS

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