

# 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
- Relatively insensitive to shock and vibration
- 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:

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

**For High Cycle Applications:** See page 7

**PRESSURE DROP:** See Ordering Information Table, page 34.

For detailed differential pressure charts, see page 59.

**ACCURACY:** ±2% of full scale

**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 34.

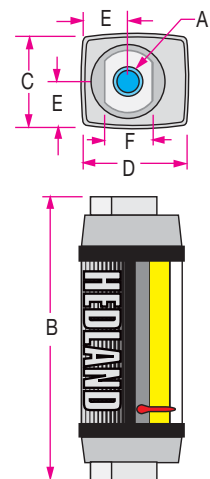
**NOTE:** See page 29 for dimensions and similar photo illustration.



### 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)	1.75 (44)
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 73.



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## For Air / Caustic and Corrosive Gases

### 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	10.15 (0.70)	18.71 (1.29)	H237X - 020 - †	H238X - 020 - †	HE
	3-30	1.5-14	13.75 (0.95)	26.23 (1.81)	H237X - 030 - †	H238X - 030 - †	
1/2"	3-25	2-12	3.73 (0.26)	6.10 (0.42)	H637X - 025 - †	H638X - 025 - †	HE
	5-50	3-22	6.04 (0.42)	10.35 (0.71)	H637X - 050 - †	H638X - 050 - †	
	10-100	5-47	7.18 (0.50)	13.85 (0.95)	H637X - 100 - †	H638X - 100 - †	
	15-150	7-70	8.06 (0.56)	18.49 (1.27)	H637X - 150 - †	H638X - 150 - †	
3/4"	3-25	1.5-11.5	2.99 (0.21)	5.90 (0.41)	H737X - 025 - †	H738X - 025 - †	HE
	5-50	2-23	2.00 (0.14)	3.58 (0.25)	H737X - 050 - †	H738X - 050 - †	
	10-100	5-47.5	7.19 (0.50)	12.87 (0.89)	H737X - 100 - †	H738X - 100 - †	
	15-150	7-70	4.44 (0.31)	9.52 (0.66)	H737X - 150 - †	H738X - 150 - †	
	25-250	10-118	6.27 (0.43)	15.38 (1.06)	H737X - 250 - †	H738X - 250 - †	
1"	3-25	1.5-11.5	2.99 (0.21)	5.90 (0.41)	H747X - 025 - †	H748X - 025 - †	HE
	5-50	2-23	2.00 (0.14)	3.58 (0.25)	H747X - 050 - †	H748X - 050 - †	
	10-100	5-47.5	7.19 (0.50)	12.87 (0.89)	H747X - 100 - †	H748X - 100 - †	
	15-150	7-70	4.44 (0.31)	9.52 (0.66)	H747X - 150 - †	H748X - 150 - †	
	25-250	10-118	6.27 (0.43)	15.38 (1.06)	H747X - 250 - †	H748X - 250 - †	
1-1/4"	20-200	10-95	1.89 (0.13)	3.16 (0.22)	H837X - 200 - †	H838X - 200 - †	HE
	40-400	20-180	2.53 (0.17)	5.49 (0.38)	H837X - 400 - †	H838X - 400 - †	
	60-600	30-280	4.47 (0.31)	10.71 (0.74)	H837X - 600 - †	H838X - 600 - †	
	80-800	50-350	6.13 (0.42)	17.14 (1.18)	H837X - 800 - †	H838X - 800 - †	
1-1/2"	20-200	10-95	1.89 (0.13)	3.16 (0.22)	H847X - 200 - †	H848X - 200 - †	HE
	40-400	20-180	2.53 (0.17)	5.49 (0.38)	H847X - 400 - †	H848X - 400 - †	
	60-600	30-280	4.47 (0.31)	10.71 (0.74)	H847X - 600 - †	H848X - 600 - †	
	80-800	50-350	6.13 (0.42)	17.14 (1.18)	H847X - 800 - †	H848X - 800 - †	

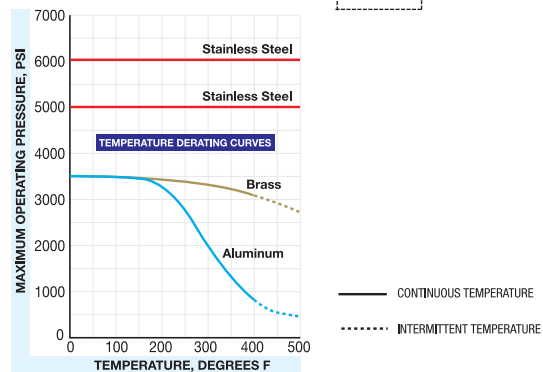
(example) H 737X - 250 - HE

**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.

**NOTE:** 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

PAGE 37



#### FLOW-ALERT FLOW SWITCHES

PAGES 39 and 41



#### FLOW TRANSMITTERS

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