

# 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 116°C (240 °F)
- Accuracy ±2% full scale
- Repeatability ±1%
- Special scales available

### Technical data

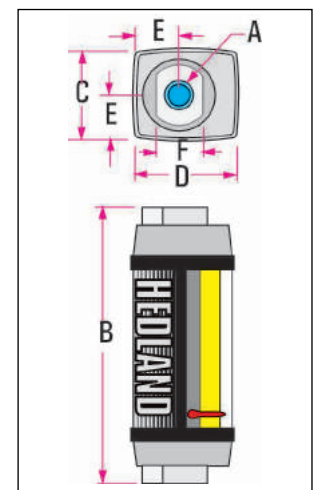
<b>Materials</b>	T316 Stainless body, piston and cone
<b>Common parts</b>	
<b>Spider plate:</b> T316 SS <b>Spring:</b> T316 SS <b>Fasteners:</b> T316 SS <b>Guard seal / Bumper:</b> Buna N <b>Guard:</b> Polycarbonate <b>End caps:</b> Nylon ST	<b>Retaining ring:</b> T316 SS <b>Retaining spring:</b> T316 SS <b>Indicator and internal magnet:</b> PPS / ceramic pressure <b>Seals:</b> Viton® <b>Scale support:</b> 6063 - T6 aluminum
<b>Threads</b>	NPTF ANSI B2.2, BSPP ISO1179
<b>Temperature range</b>	-29 to +116 °C (-20 to +240 °F) for higher temperatures, consult factory.
<b>Pressure rating</b>	
<b>Oil / liquids operating</b>	6,000 psi/414 bar max. (5,000 psi/345 bar max for ¼" to 1½" series) with a 3:1 safety factor. For high cycle applications, see page conversion information.
<b>Pressure drop</b>	See ordering information table next page. Detailed differential pressure charts, see page 62.
<b>Accuracy</b>	±2% of full scale, ±7% of full scale for ¼" meters
<b>Repeatability</b>	±1%
<b>Hostile environment option specifications</b>	
<b>Materials</b>	T316 stainless body, piston and cone
<b>Comon parts</b>	
<b>Spider plate:</b> T316 SS <b>Spring:</b> T316 SS <b>Fasteners:</b> T316 SS <b>Bumper:</b> T316 SS <b>Seals:</b> Viton® <b>End caps:</b> T316 SS	<b>Retaining ring:</b> T316 SS <b>Retaining spring:</b> T316 SS <b>Indicator:</b> T416 SS <b>Scale support:</b> T316 SS <b>Guard:</b> Cylindrical Pyrex® glass <b>Internal magnet:</b> Teflon® Coated Alnico 8
<b>Temperature range</b>	-29 to +205 ° C (-20 to +400 °F) continuous +205 to +260 °C (+400 to +500 °F) intermittent For detailed "Pressure vs. temperature" correlation information, see next page.



### 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	4.8 (122)	1.68 (43)	1.90 (48)	.84 (21)	.88 (22)
½	6.6 (168)	2.07 (53)	2.40 (61)	1.04 (26)	1.25 (32)
¾	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)
1¼	12.2 (310)	4.12 (105)	4.72 (120)	2.06 (52)	2.75 (70)
1½	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 80.



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## Ordering information

Nominal port size	Flow range		Pressure drop		Model number (see example below)		Hostile environment option ♦
	① SCFM	② l/sec	50% flow psi (bar)	100% flow psi (bar)	Gases 1.0 (S.G.)		
					NPTF	BSPP	
¼"	2 - 20	1 - 9	10.15 (0.70)	18.71 (1.29)	H237X - 020 - ♦	H238X - 020 - ♦	n/a
	3 - 30	1.5 - 14	13.75 (0.95)	26.23 (1.81)	H237X - 030 - ♦	H238X - 030 - ♦	
½"	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 - ♦	
¾"	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 - ♦	
1¼"	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 - ♦	
1½"	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 - ♦	

Note: Consult factory for availability.

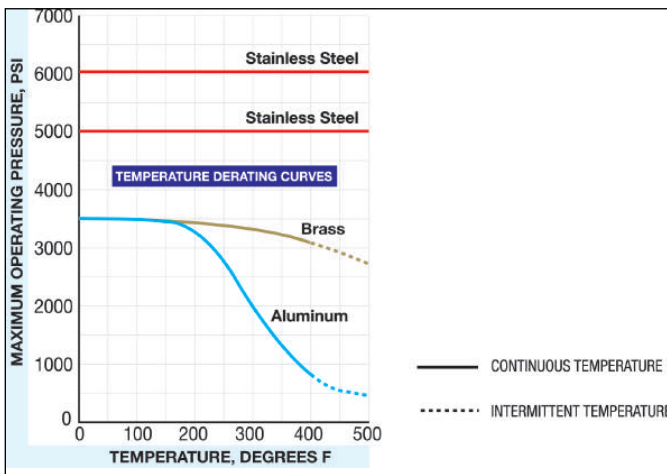
- ① SCFM/PSI multipressure scales are standard.
- ② l/sec/bar multipressure scales are available at no extra charge. Consult factory for other options.

Example: H 737X - 250 - HE



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



## ООО "РусАвтоматизация"

454010 г. Челябинск, ул. Гагарина 5, оф. 507  
 тел. 8-800-775-09-57 (звонок бесплатный), +7(351)799-54-26, тел./факс +7(351)211-64-57  
[info@rusautomation.ru](mailto:info@rusautomation.ru); [rusautomation.ru](http://rusautomation.ru); [www.rusautomation.ru](http://www.rusautomation.ru)