

Flow Measurement Equipment Armored Purge Meters

Features

Accurate Gas Metering

A snubber on the float causes readings to steady out quickly, gives true readings down to atmospheric pressures.

Rugged Construction

316 stainless steel body with Buna N, TFE or SS O-rings gives corrosion resistance and reliable operation to 1500 psi (100 bar) and 800°F (427°C) (600°F (316°C) with flow switch). A heavy stainless sheath encloses

the scale tube, which is sealed at both ends by O-rings.

Built-In Backcheck

An O-ring at the top of the float seals against the seat to prevent backflow through the meter.

Easy To Clean

A port in the bottom of the meter body makes cleaning easy.

Change Floats or Scales

To change capacity, a different float is inserted without removing the meter from the line. Scale tubes have gallon and percent scales.

Either can be exposed by loosening a cap screw and turning the tube.

Powerful Magnetic Linkage

An indicating follower ring slides on the precision inside bore of the scale tube. This low friction travel and a powerful bond between the ring and the float magnet makes for immediate response to flow changes.

Key Benefits

- *Reduced maintenance cost without removing meter from service*
- *Stands up to extreme conditions with rugged construction*
- *Reliable long term performance in gas or liquid service*
- *Highly accurate and stable readings for precise measurement and control*
- *Easily adaptable to fit your exact needs with standard*



Technical Data

Accuracy

10% of full scale

Range

10 to 1.

Scales

1/2-inch meter has GPH and percent scales; 3/4-inch meter has GPM and percent scales. Scale length is 1-1/4". Flow switches have percent scales.

Fluid Temperature-Pressure Ratings

With Buna N O-rings, 250° F TFE O-rings, 400° F

SS O-rings, 800° F (600° F with

Switch) 1500 psi with all O-rings.

These temperature and pressure limits must not be exceeded.

Weight and Shipping Weight

1/2-inch meter, 2 1/2 lb and 3 1/2 lb.

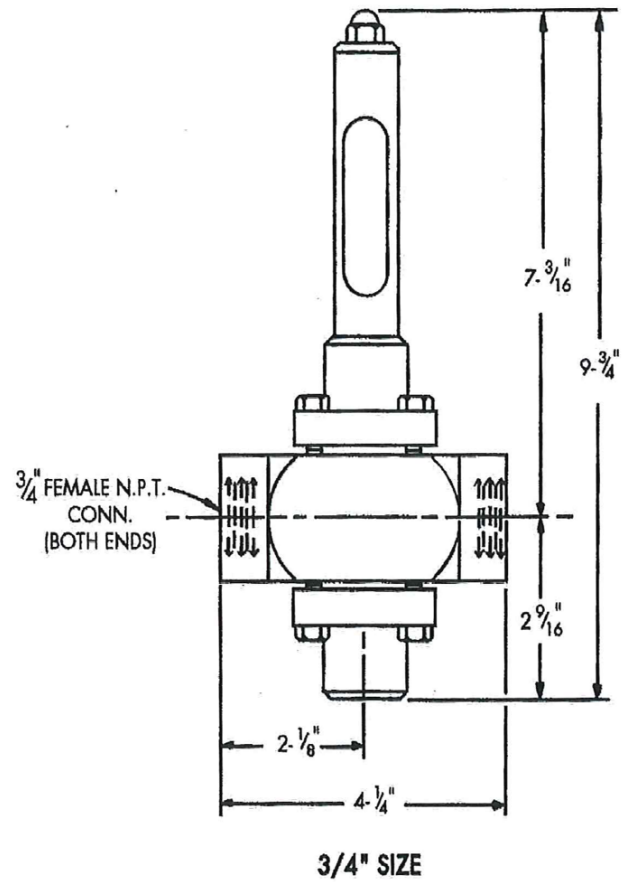
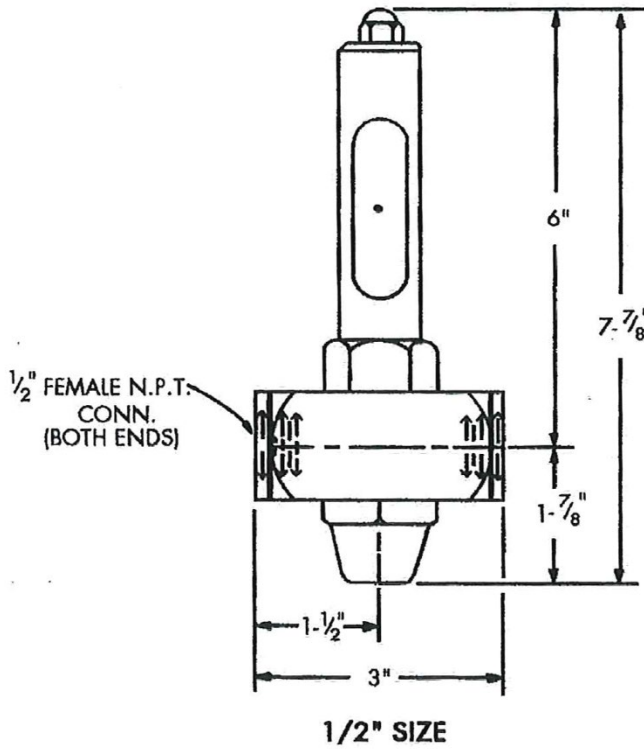
3/4-inch meter, 4 1/4 lb and 5 1/4 lb.

Materials of Construction

Body, 316 stainless; other wetted parts, 316 stainless; external parts, 303 and 304 stainless; scale tube, borosilicate glass; follower ring, 416 stainless; scale tube O-ring, silicone; body O-ring, Buna N, TFE or SS.

Armored Purge Meter

1/2" and 3/4" Armored Purge Meter



NOTE: SCALE TUBE AND GUARD MAY BE ROTATED 360°

Selection Procedure & Ordering Procedure

Determine the capacity range, temperature and pressure capability, materials of construction and options required for each meter. (See Technical Data section for pressure and temperature limits.)

Note: For fluids with SP. GR. other than 1.0 or viscosity other than 1.0 CSS, consult your local Equipment Distributor.

Example:

To order a 1/2" Metal-Body Armored Purge Meter with 316 stainless steel body, Buna N O-rings, 54 GPH water capacity, and hazardous-service flow switch with two switch, two relays; standard gph scale; no tag, ask for:

5120M1 2 1 13 HXL X

Product Sheet *CF.510.200.100.CN*

Armored Purge Meter

Selection Codes

5 1 2 0 M 1 2 X

1
Material
2
O ring
3
Capacity
4
Switch
5
Scale
6
Tag

Selection 1 – BODY MATERIAL

Code	Material
2	316 Stainless Steel

Selection 2 – O-RING TYPE

Code	Material	Limits
1	Buna N	1500 PSI at 250° F
3	TFE	1500 PSI at 400° F
5	Stainless Steel	1500 PSI at 800° F*

* Note: 600° F with Switch

Selection 3 – CAPACITY (code for tube & float)

Code	Size	Without Flow Switch	With Flow Switch
11	1/2"	6 GPH 30* SCFH	8.0 GPH 39* SCFH
12		16 GPH 75 SCFH	17.5 GPH 76.5 SCFH
13		50 GPH 250 SCFH	54 GPH 260 SCFH
14		100 GPH 420 SCFH	105 GPH 462 SCFH
31	3/4"	1.0 GPM 5.0* SCFM	1.03 GPM 5.0* SCFM
32		2.0 GPM 9.5* SCFM	2.04 GPM 9.5* SCFM
33		5.0 GPM 25 SCFM	5.3 GPM 24 SCFM
34		7.5 GPM 36 SCFM	7.7 GPM 36 SCFM
35		10.0 GPM 53 SCFM	10.3 GPM 53 SCFM

* Not recommended for Gas service unless pressure exceeds 60 PSIG.

Capacities based on Water at 70° F and Air at STP

Selection 4 SWITCH

Code	Material
X	None
A	General Purpose 1 Switch
B	General Purpose 2 Switch
G	Haz 1 Switches 1 Relay
H	Haz 2 Switches 2 Relays

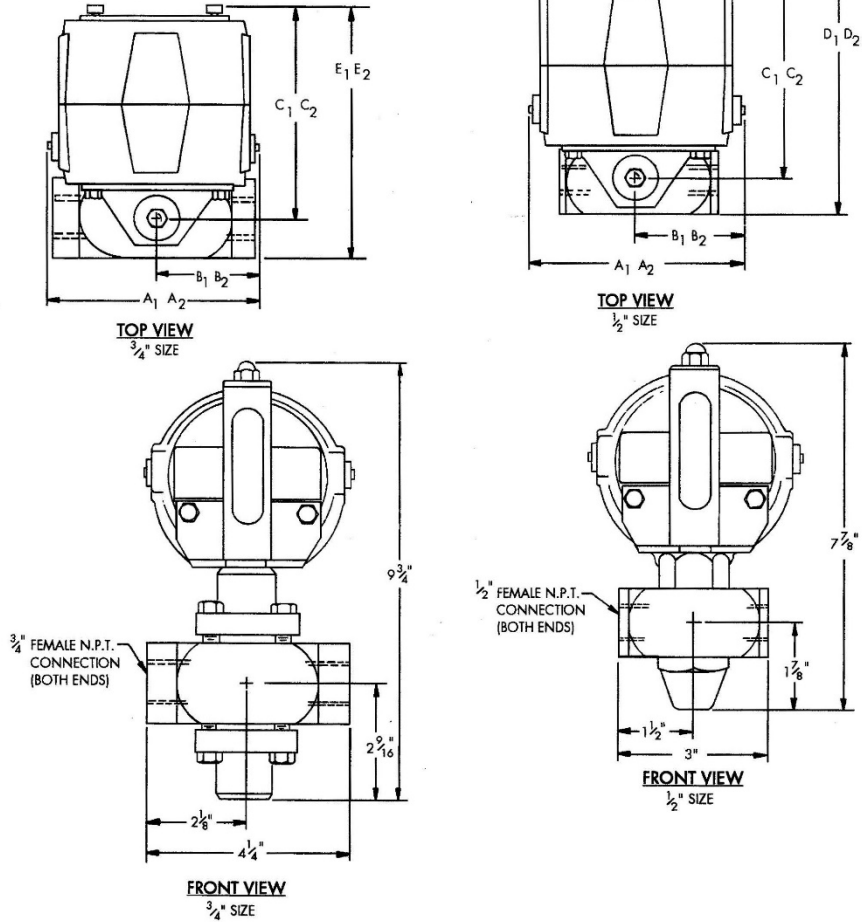
Selection 5 SCALE

Code	Material
E	Standard % Air
L	Standard GPH or GPM Water
K	Standard % Water

Selection 6 – TAG

Code	Material
X	No Tag
1	Stainless Steel(wired on)

**Armored Purge Meter
With Flow Switch**



A ₁	A ₂	B ₁	B ₂	C ₁	C ₂	D ₁	D ₂	E ₁	E ₂
4 3/8"	5 3/8"	2 3/16"	2 1 3/16"	5 1/4"	5 1/4"	6"	6"	6 3/8"	6 1/8"

A₁, B₁, C₁, D₁, E₁ = SERIES 5600 GENERAL PURPOSE FLOW SWITCH
 A₂, B₂, C₂, D₂, E₂ = SERIES 5500 HAZARDOUS LOCATION FLOW SWITCH

CF.510.200.102.CN

Flow Switch Technical Data

Temperature Limits – Ambient, -20° to 120° F.
 Actuating Time – Reed Switches open in one millisecond

TECHNICAL DATA 5600 SERIES

Range 0 to 100% of flow range
 Enclosure NEMA 4
 Contacts are rated at 250 mA
 (at 48 Vdc or 120 Vac resistive or
 50 mA (VDC or 120 Vac inductive)

TECHNICAL DATA 5500 SERIES

Range 0 to 100% of flow range
 UL Listed for Class I, Group C & D or Class II, Groups E, F, & G
 Hazardous Location.
 An electric supply of 120 volt single phase,
 50/60 Hz must be brought into the enclosure to power the
 relay coils.
 Each relay coil requires 50.60 Hz, 0.033 amperes.
 The relay contacts have 10 ampere maximum ratings
 At 120 Vac for noninductive loads.

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