

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 options.



Armored Purge Meters

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.

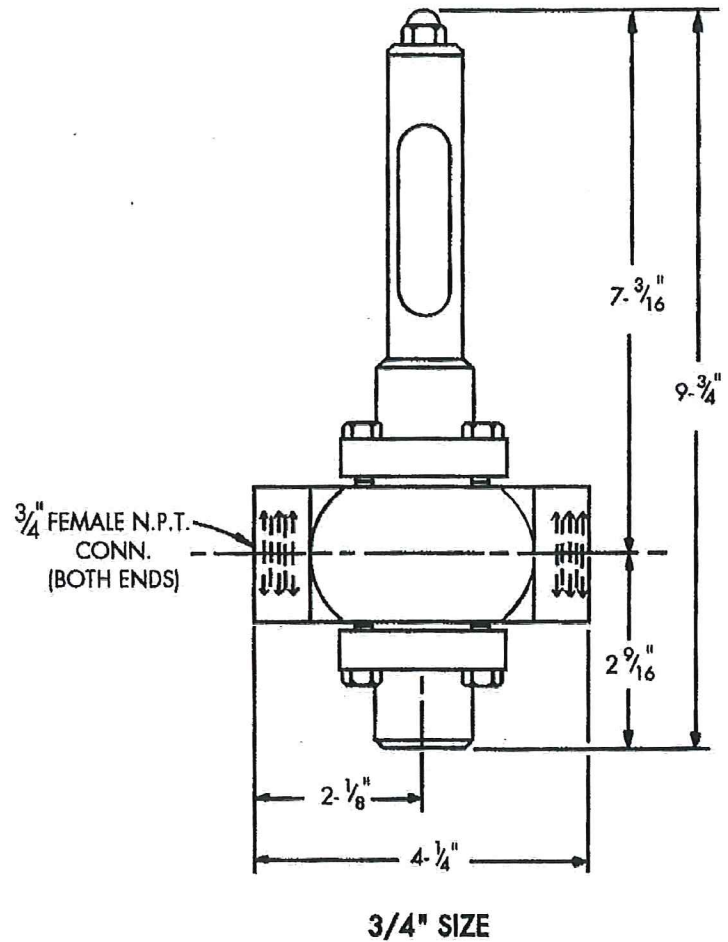
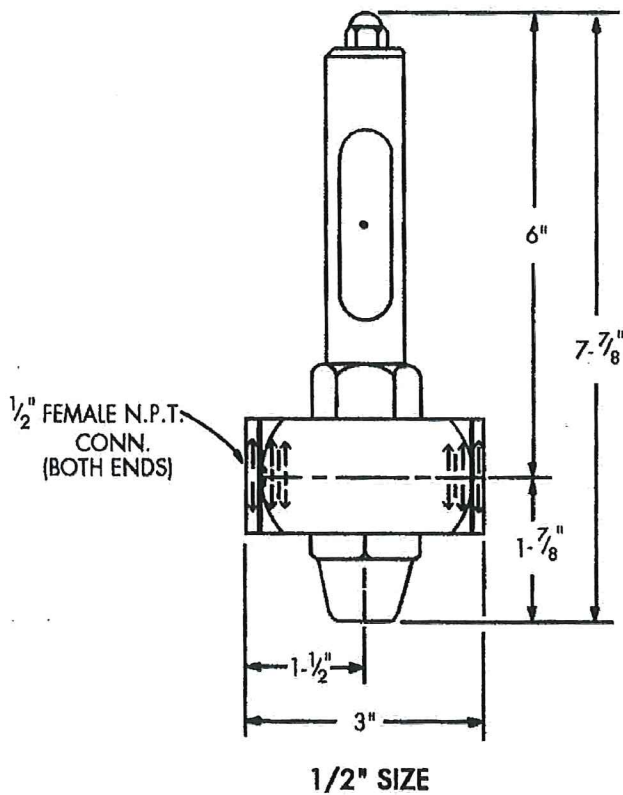
3/4-inch meter, 4 1/4 lb and 5 1/4 lb.

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°

CF.510.200.100.CN.0714

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 H X L X**

Product Sheet CF.510.200.100CN.0714 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

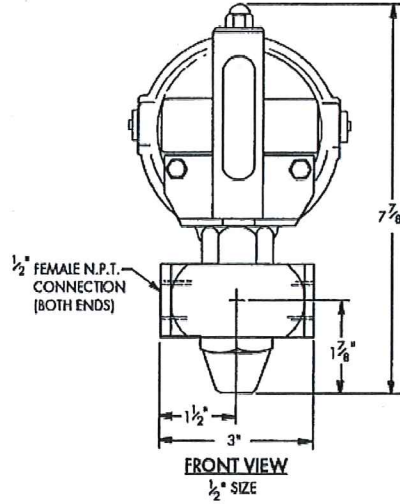
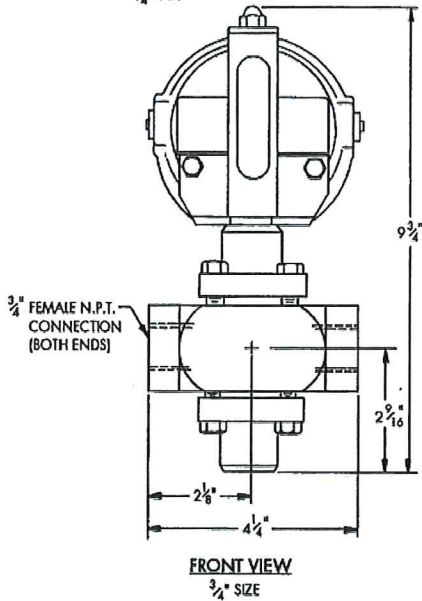
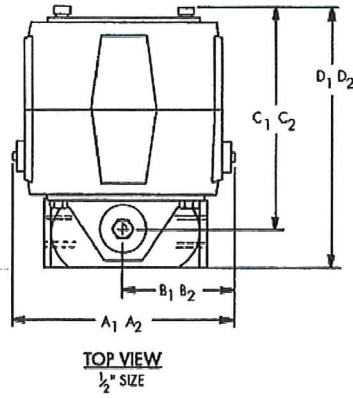
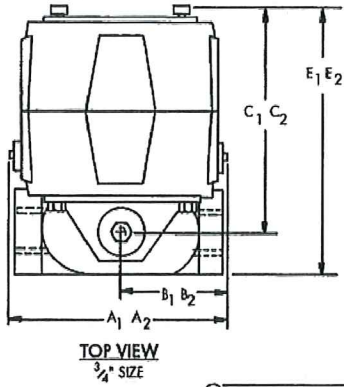
Selection 5 SCALE

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 5/8"	2 3/16"	2 13/16"	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

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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 (at 48 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 electrical 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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