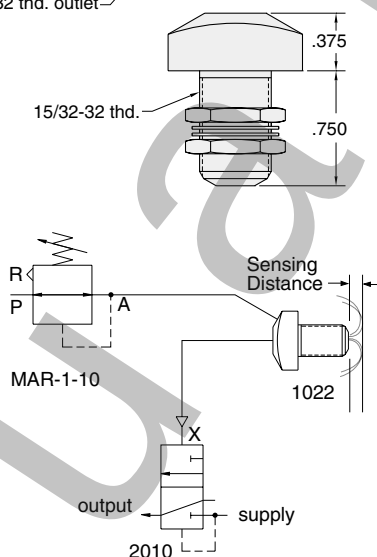
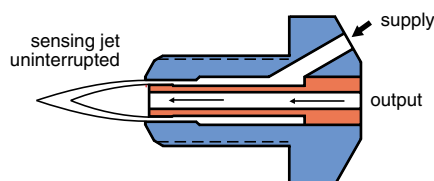
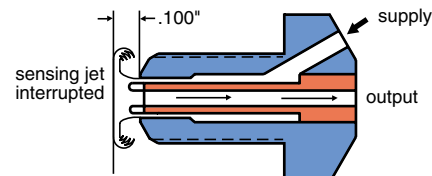
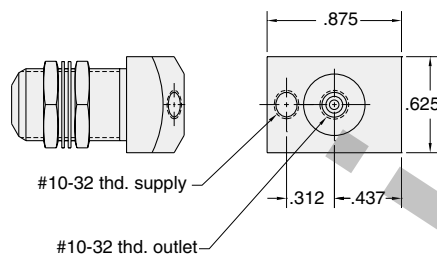




PROXIMITY SENSORS

1022

Non-contact air limit switch with no moving parts; will sense any flat or curved object which presents a sensing surface of 1/4" or more to the sensing nozzle



Medium: Air

Input Pressure: 4 to 10 psig

Nominal Proximity Distance: .100"

Output Signal at 4 psig supply:

Normal: 2" H₂O actuated: 7 1/2" H₂O

Frequency Response: 500 CPM

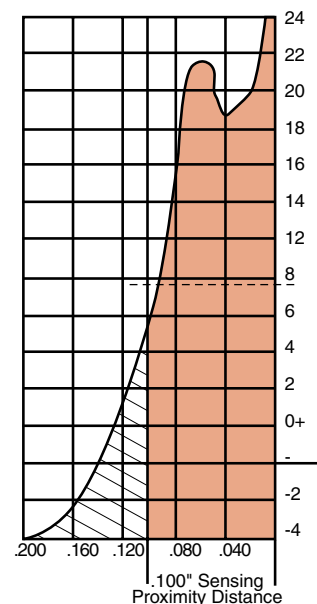
Air Consumption: 0.3 SCFM

Sensing Capability: Flat or curved surfaces with 1/8" minimum radius

Connections: 10-32 female

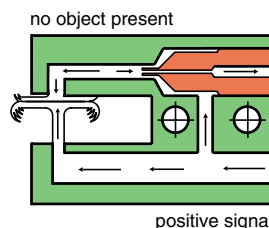
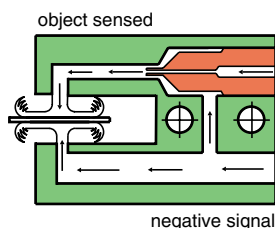
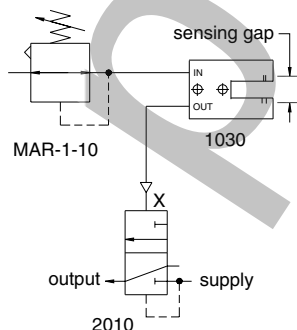
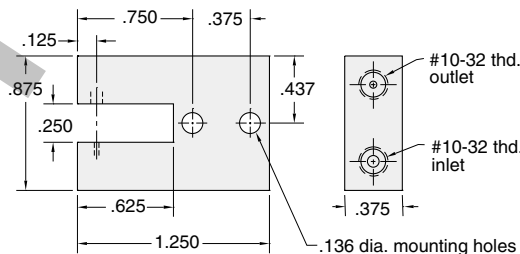
Construction: Solid brass bright dipped

Temperature Range: 32° to 230° F



1030

Non-contact positive pressure sensor will sense any flat or round object with a 1/32" minimum radius. Produces a positive signal when no object is present and a negative signal when an object interrupts its sensing system



Medium: Air

Input Pressure: 0.5-5 psig

Output: -3" to 26" H₂O @ 4 psig

Frequency Response: 1000 cpm

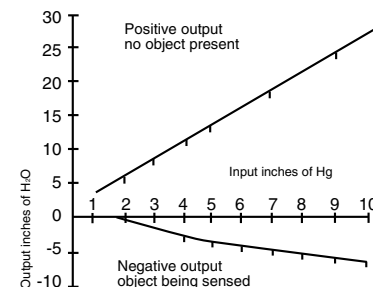
Air Consumption: 1/4 SCFM @ 4 psig

Sensing Capability: Flat or curved surfaces with 1/32" minimum radius. May be used for up to 4" gap with an additional auxiliary jet

Connections: 10-32 female

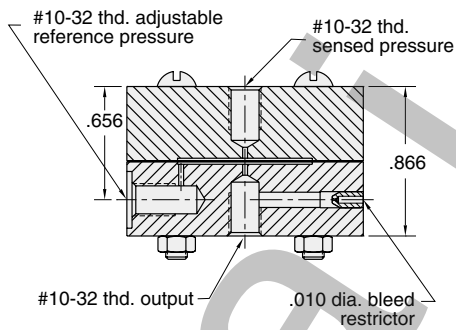
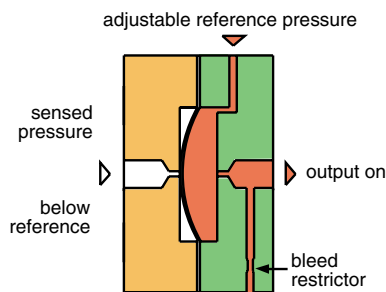
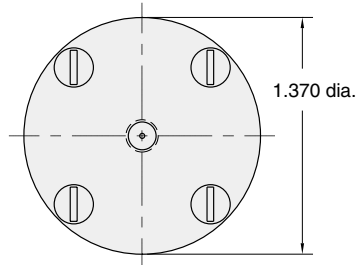
Construction: Solid brass bright dipped

Temperature Range: 32° to 230° F



1043

Normally on single stage pressure repeater for off-on control of an adjustable reference pressure when a sensed pressure moves above or below the reference pressure level



Medium: reference pressure - air
sensed pressure - air, gas, or liquid

Input Pressure: 1-150 psig max.

Air Flow: .029" orifice

Response Time: 5 ms.

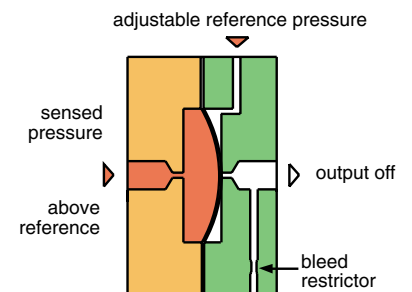
Differential Sensitivity: 2%

Frequency Response: 60 Hz

Ports: 10-32 female

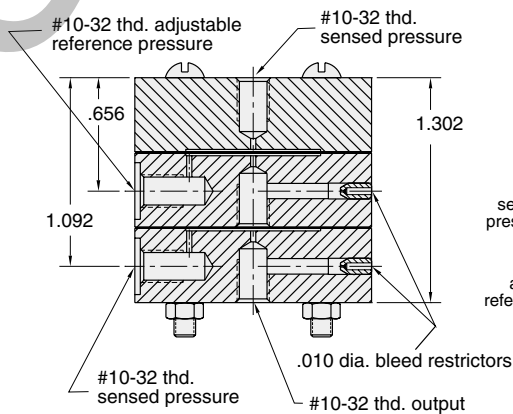
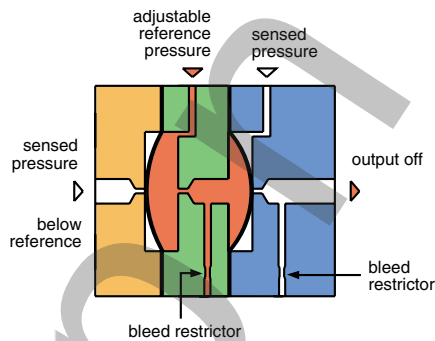
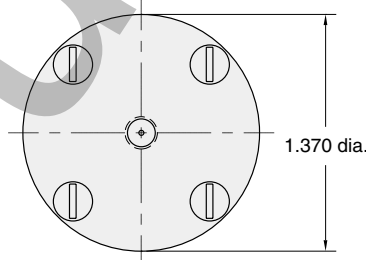
Materials: Anodized aluminum body,
Buna-N diaphragms

Temperature Range: 32° to 230° F



1044

Normally off two stage pressure repeater for off-on control of an adjustable reference pressure when a sensed pressure moves above or below the reference pressure level



Medium: reference pressure - air
sensed pressure - air, gas, or liquid

Input Pressure: 1-150 psig max.

Air Flow: .029" orifice

Response Time: 5 ms.

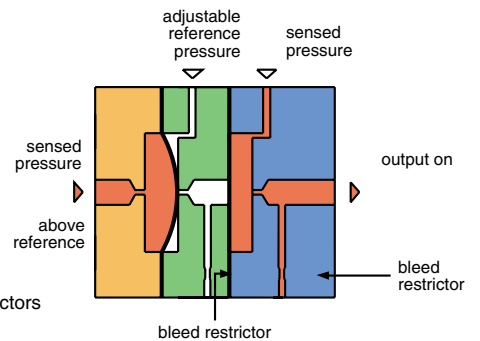
Differential Sensitivity: 2%

Frequency Response: 60 Hz

Ports: 10-32 female

Materials: Anodized aluminum body,
Buna-N diaphragms

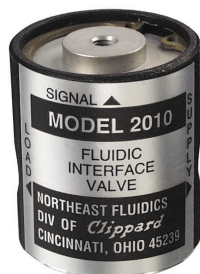
Temperature Range: 32° to 230° F



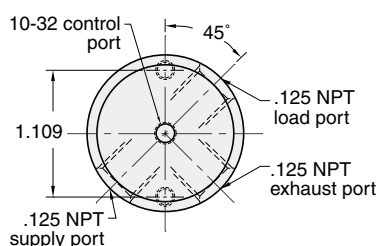


SPECIAL PILOTED 3-WAY VALVES

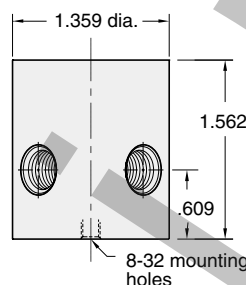
2010



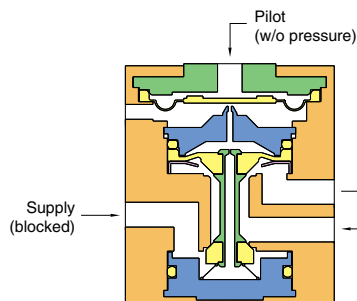
3-way valve normally closed interface amplifies very low pressure air-jet sensing signals to working power levels



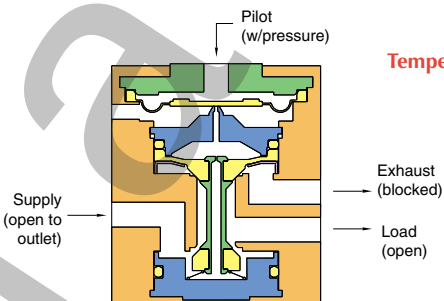
Top View



Side View



Valve Closed



Valve Open

Medium: air

Material: anodized aluminum body, Buna-N diaphragms

Input Pressure: 30-100 psig max.

Air Flow: 22 SCFM @ 100 psig

Pilot Pressure: 4" H₂O @ 100 psig

Maximum Allowable Pilot Pressure: 5 psig

Response Time: 10 ms. dead headed

Operating Speed: 50 Hz

Bleed: 0.1 SCFM @ 100 psig

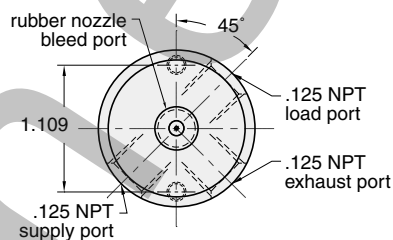
Ports: Load - 1/8 NPT female
Supply - 1/8 NPT female
Exhaust - 1/8 NPT female
Control - 10-32 female

Temperature Range: 32° to 230° F

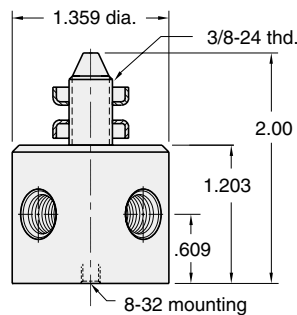
2011-1



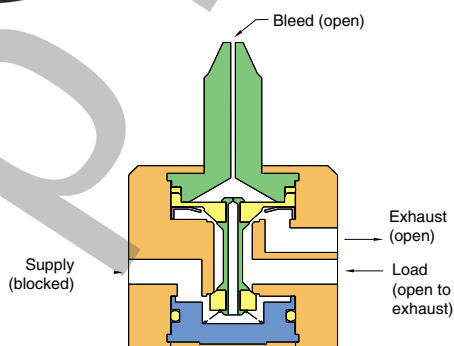
3-way bleed pressure piloted limit valve; blocking of the sensing port causes rapid valve opening



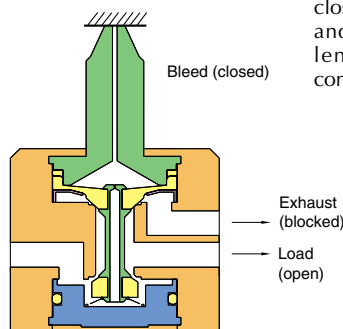
Top View



Side View



Valve Closed



Valve Open

Medium: air

Material: anodized aluminum body, Buna-N diaphragms

Input Pressure: 30-100 psig max.

Air Flow: 22 SCFM@100 psig

Bleed: 0.1 SCFM @ 100 psig

Response Time: 15 ms.
(response time will increase)

Ports: 1/8 NPT

Temperature Range: 32° to 230° F

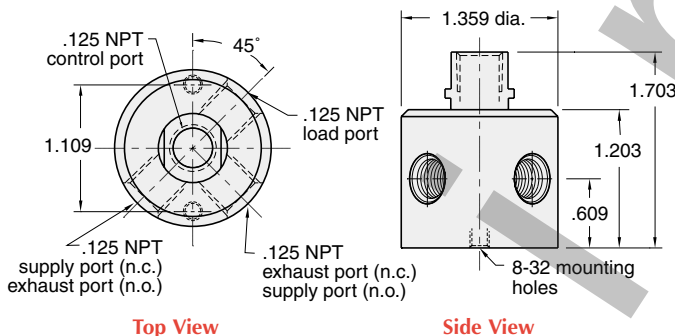
Note: Supplied with threaded bulkhead mount and integral rubber nozzle for direct actuation by mechanical closure. By removing rubber nozzle and inserting a 10-32 fitting and length of hose, 2011-1 can be converted to a remote sensing valve.

SPECIAL PILOTED 3-WAY VALVES



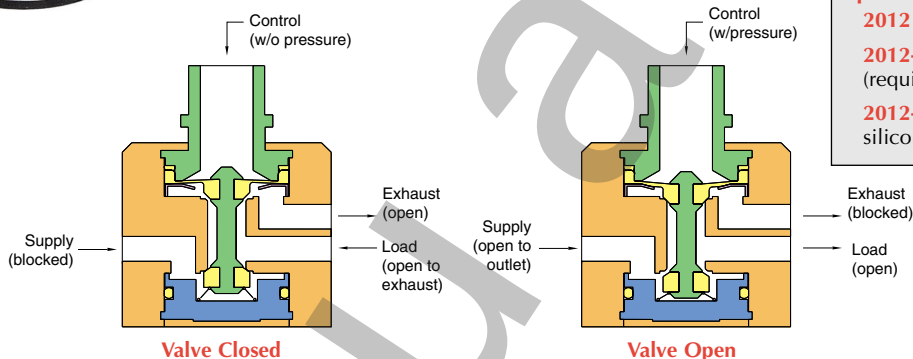
2012

3-way valve n.o. or n.c. air piloted

**Medium:** air**Material:** anodized aluminum body, Buna-N diaphragms**Input Pressure:** 1-100 psig max.**Air Flow:** 22 SCFM @ 100 psig**Bleed:** 0.1 SCFM @ 100 psig**Minimum Pilot Pressure:**

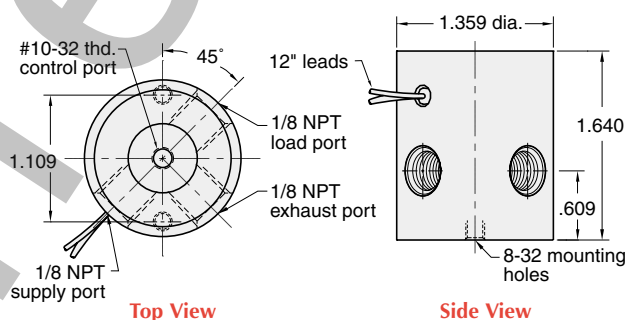
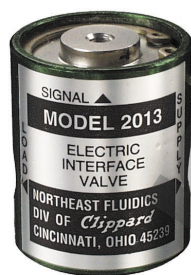
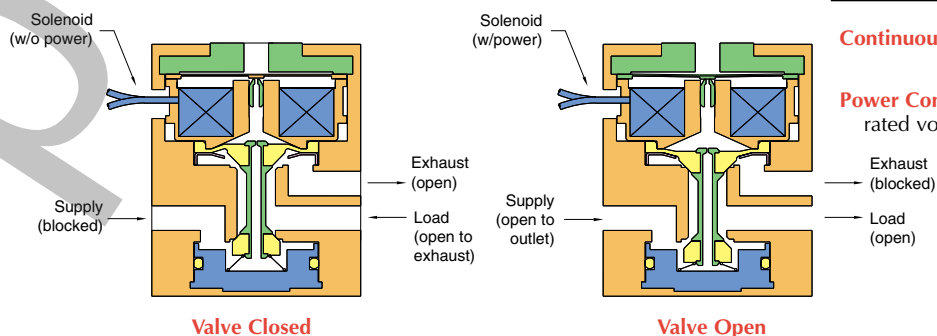
n.o. - 90% of supply pr.

n.c. - 60% of supply pr.

Response Time: 15 ms. after pilot pressure reaches switch point**Operating Speed:** 1100 CPM**Ports:** 1/8 NPT female**Temperature Range:** 32° to 230° F**Options:****2012** standard valve**2012-VAC** for vacuum operation (requires positive pressure pilot signal)**2012-G** for use with liquid adhesives - silicone diaphragm and seals

2013 - □

3-way normally closed electronic valve with low-power DC solenoid solid state output signals can be directly converted to high pressure pneumatic power without amplification

**Medium:** air**Material:** anodized aluminum body, Buna-N diaphragms**Stem Travel:** 1/8"**Input Pressure:** 30-100 psig max.**Air Flow:** 22 SCFM @ 100 psig**Bleed:** 0.1 SCFM @ 100 psig**Filtration:** 10 micron**Frequency Response:** 50 Hz @ 100 psig
70 Hz @ 30 psig**Ports:** 1/8 NPT female**Switching Speed:** 10 ms.**Leads:** 28 gauge stranded P.V.C. insulated**Temperature Range:** 32° to 230° F**Standard Voltages:** 2013-6 6 volts DC,
2013-12 12 volts DC,
2013-24 24 volts DC**Continuous Overload:** 350% @ 25° C ambient;
250% @ 50° C ambient**Power Consumption:** less than 0.50 watts at rated voltage (80 ma. @ 6V
40 ma. @ 12V.
20 ma. @ 24V)



SPECIAL PILOTED 3-WAY VALVES

2020

3-way normally closed pressure piloted valve.

Designed to be piloted by a Clippard EV or ET manifold mount electronic valve. Output from the

EV/ET actuates the valve to produce outputs up to 22 SCFM at 100 psig. Combines low wattage, long life and cool running of the EV/ET valves with quick response and high flow of Clippard booster type valves.

Medium: air

Input Pressure: 30-100 psig max.

Air Flow: 22 SCFM @ 100 psig

Pilot Pressure: 60% of supply pressure, min.

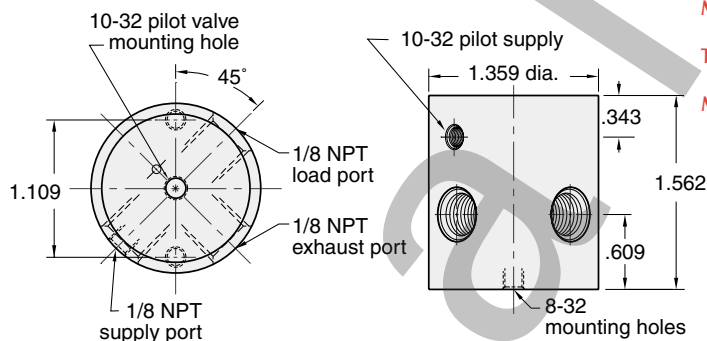
Response Time: approx. 20 ms.

Ports: Inlet, outlet, exhaust 1/8 NPT
Pilot supply is 10-32 female

Mounting: Mounting holes provided

Temperature Range: 32° to 230° F

Materials: Anodized aluminum, stainless steel



2020 shown with ET Pilot Valve and external pilot supply

2021



The 2020 and 2021 are identical in all respects except one. The 2020 has an external 10-32 port for the pressure supply to the EV/ET electronic pilot valve. The 2021 has an internal pressure supply to the EV/ET.

Top View

Side View

2050

3-way miniature valve interface

Medium: air

Input Pressure: 30-100 psig max.

Air Flow: 15 SCFM@100 psig

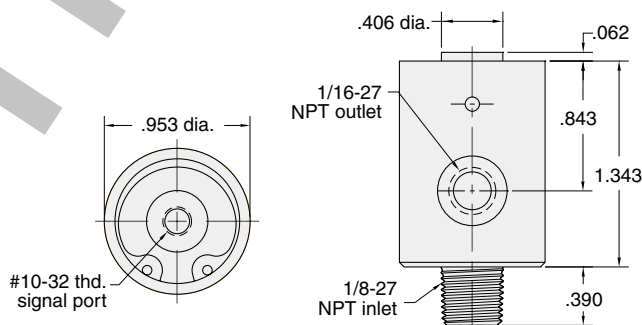
Pilot Pressure: 15" H₂O

Maximum Allowable Pilot Pressure:
5 psig

Response Time: 10 ms.

Ports: Inlet - 1/8 NPT male
Outlet - 1/16" NPT female
Pilot - 10-32 female

Temperature Range: 32° to 230° F



Top View

Side View

Wow! Scratch -n- Sniff photo!

ACCESSORIES AND SWITCHES

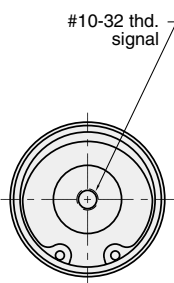


3200-A

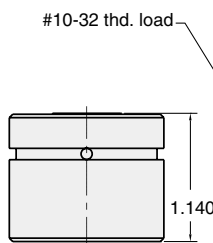


Pressure piloted snap action amplifying valve provides a sharp, clean output signal, even with slow-changing pressure input signals; output is stabilized without chatter or oscillation

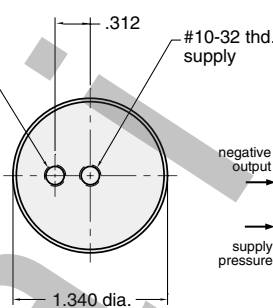
Medium: air
Input Pressure: 3-100 psig max.
Minimum Pilot Pressure: 1.5" H₂O psig
Maximum Pilot Pressure: 1psig (28" H₂O")
Air Flow: .18 SCFM@100 psig
Bleed Orifice Diameter: .010"
Ports: 10-32 female
Temperature Range: 32° to 230° F



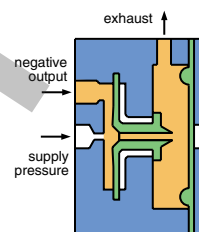
Top View



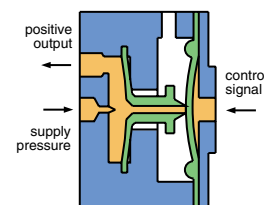
Side View



Bottom View



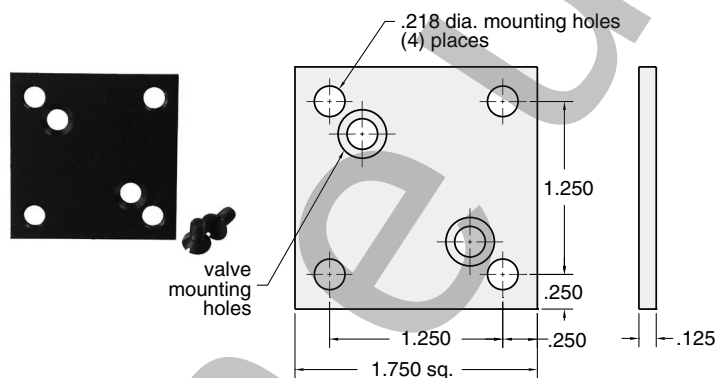
normal



actuated

2010-050

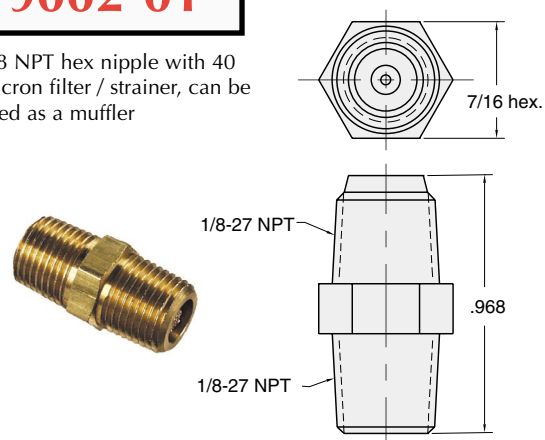
Flat bracket to mount 2010, 2011-1, 2012 and 2013 valves.



Construction: Black oxide finish, two mounting screws furnished.

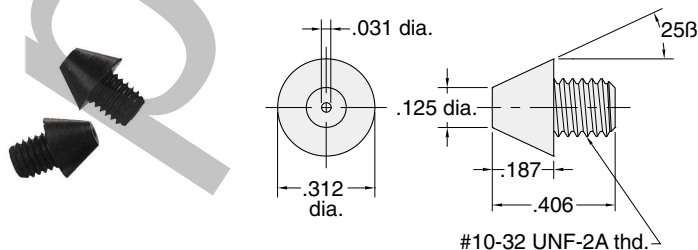
9002-01

1/8 NPT hex nipple with 40 micron filter / strainer, can be used as a muffler



2011-012

10-32 rubber nozzles for replacement 2011-1 limit valves. 10-32 thread, five to a package.



3200-006

Mounting bracket for 3200-A snap action relays.

