

Pioneer Enterprise

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http://www.instrumentation-fittings.com/

SYPHONE

Do you want to protect your pressure instruments, gauges, switches and transmitters from high temperature process fluids? Then we, the Pioneer group would like to help you by the product, Syphons. Syphons are used to protect those directly coming in contact with high temperature process fluids or vapors. These reduce steam or other process media temperature prior to enter into these instruments. They are filled with condensation fluids and are mounted between process and pressure instrument. They reduce process pulsation, act as heating dispenser and generate cooling affecto save instrument to work at dangerous temperature.



SPECIFICATION

Type	- 'U' and Coil(O)
Operating Temperature	- Carbon
Steel : 210 Kg/Cm ² at 20 ⁰ C	
	- Stainless Steel : 260 Kg/Cm ² at 20 ⁰ C
Material of Construction	-
Gr.B.Carbon Steel , SS304 , SS316	

FEATURES

- Schedule 40 & schedule 80 seamless pipe construction

OPTIONS

- Schedule 80, schedule 160 and 45 degree angle

Warning for Your Safety

The system designer and user have the sole responsibility to select products suitable for their special application requirements to ensure the proper installation. Operation and maintenance of the product. Application details, material compatibility and product ratings should all be considered in the individual selection. Improper selection or use of products can cause property damage or personal injury. Pioneer accept no liability for any improper selection, installation, operation or maintenance.

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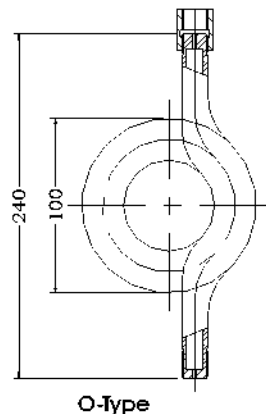
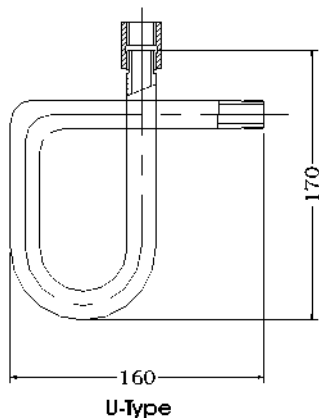
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SYPHONE



ORDERING PROCEDURE

Basic Model : SP



TYPE

Type	Code
U	U
Coil	O

MATERIAL OF CONSTRUCTION

Type	Code
SS304	4
SS316	6
Carbon Steel	C

THICKNESS

Type	Code
Schedule40	4
Schedule80	8

CONNECTION

Type	Code
1/4"	4
3/8"	8
1/2"	2

THREAD TYPE

Type	Code
BSP	B
NPT	N

THREAD

Type	Code
MaleXMale	MM
FemaleXFemale	FF
Male X Female	MF

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GAUGE COCK

Pioneer offers accessory, "Gauge Cock" to your pressure gauge to extend the service life of it. Gauge Cocks are intended to isolate the pressure gauge from the medium in order to enable inspection or replacement of the pressure gauge and also to extend the service life of gauge, where the pressure is continuously pulsating. In OFF position, the pressure medium is blocked and pressure gauge system is open to the atmosphere. In ON position, the pressure gauge is open to the pressure, to the pressure medium. These are available with VENT also by which the system can be vented and the medium can escape into the atmosphere.



CONTAINS

CONSTRUCTION	: Forged or Bar Stock
WORKING PRESSURE	: Upto 400 PSI
TESTING PRESSURE	: Upto 600 PSI
WORKING TEMPERATURE	: 10 ⁰ to 150 ⁰ C
DESIGN	: Female - Female / Male
Female	

FEATURES

- Smooth Operation.
- Bubble tight shut - off.
- Rugged construction.
- P.T.F.E. packing.

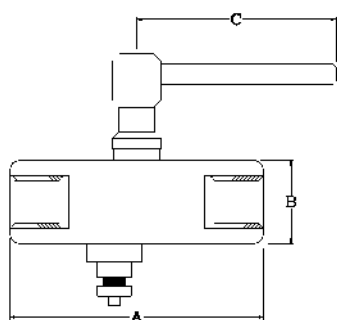
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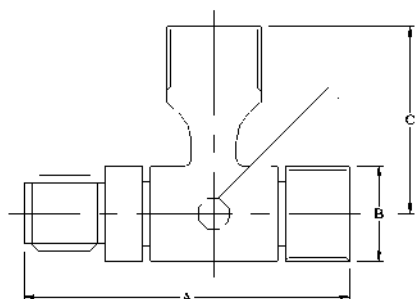
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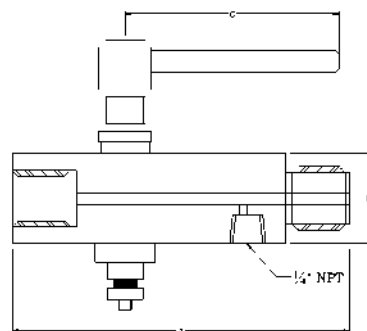
GAUGE COCK



Female x Female



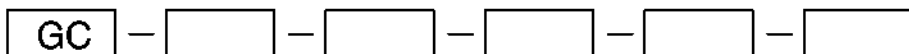
3 Way



Female x Male

ORDERING PROCEDURE

Basic Model: GC



MATERIAL OF CONSTRUCTION

Type	Code
Brass	B
SS304	4
SS316	6

VENT

Type	Code
With	1
Without	2

CONNECTION

Type	Code
BSP	B
NPT	N

THREAD TYPE

Type	Code
1/4"	4
3/8"	8
1/2"	2

THREAD

Type	Code
Male X Male	MM
Female X Female	FF
Male X Female	MF

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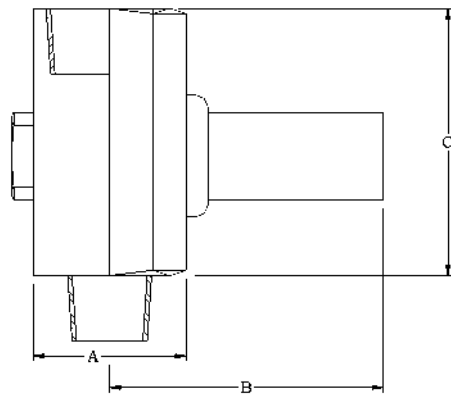
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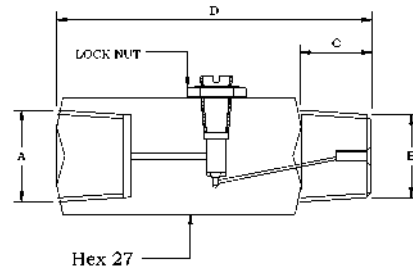
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OVER LOAD PROTECTOR & PULSATION DAMPNER



GAUGE SAVER
OVER LOAD PROTECTOR



PULSATION DAMPNER (SNUBBER)

A x B	C	D
1/4" BSP M x 1/4" BSP F	15.5	66
1/4" NPT M x 1/4" NPT F	15.5	66
1/2" BSP M x 1/2" BSP F	20	66
1/2" NPT M x 1/2" NPT F	20	66

ORDERING PROCEDURE **SN** Basic Model: SN / GS **GS**

MATERIAL OF CONSTRUCTION

Type	Code
SS304	4
SS316	6

CONNECTION

Type	Code
BSP	B
NPT	N

THREAD TYPE

Type	Code
1/4"	4
3/8"	8
1/2"	2

SET PRESSURE

(for GS only)

Snubbers are also available in Brass.

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OVER LOAD PROTECTOR (Gauge Saver)

Are you worried about the process pressure, which is exceeding the specified pressure range and makes some problems to your pressure instruments? If yes, we the Pioneer group would like to give you one solution by the product -Gauge Saver. These Gauge Savers are designed to protect pressure instruments from over pressure exceeding the specified pressure range by sudden & excessive pressure fluctuation from surge or spike . This device blocks the higher pressure exceeding the allowed value, until it comes back to normal. Thus this device safeguards the



SPECIFICATION

Setting Range : 0.2 to 400 Kg/Cm² / BAR
 Reset Value : -30% of Set Value
 Maximum Working Pressure : 500 Kg/Cm²
 Operating Temperature : -25 to 120 °C
 Wetted Parts : SS 316

FEATURES

Bellows, Piston Types
 1/4", 3/8", 1/2" BSP/ NPT, Male X Female

PULSATION DAMPNER (Snubber)

Pioneer's innovative manufacturing unit, offers an accessory that will increase the life span of Pressure instruments. Pulsation Dampeners are designed to protect pressure instruments from sudden pressure changes and fluctuations of pressuring fluids. Thus sudden pressure changes are damped before they reach the pressure sensing element to minimize stress on it and giving longer life. You can use this with any instruments subjected to rapidly fluctuating pressure or sudden shock pressures.



SPECIFICATION

Working Pressures
 Working Temperature
 Working Pressures
 Working Temperature
 Wetted parts
 Principle of operation

NEEDLE DAMPENERS

Up to 400 Kg/Cm²
 -20 to 150 °C
 Up to 400 Kg/Cm²
 -20 to 150 °C
 AISI 316 Stainless Steel
 Adjustable needle

POROUS DAMPENERS

Up to 1000 Kg/Cm
 -40 to 400 C
 Up to 1000 Kg/Cm
 -40 to 400 C
 AISI 316 Stainless Steel
 Porous metal filter disc

APPLICATION

- Hydraulic Machines
- Compressors
- Process Plants, etc.

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