IP1023 Cooling Tower *All Stainless Steel*

Special Features

- Stainless steel construction
- Suitable for clean air
- Gases & non crystallized liquids

Application

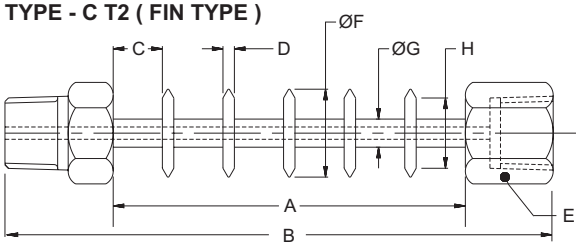
- Cooling towers are used mainly to protect pressure Instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours filled with condensation fluids.
- These are mounted between process and pressure instrument.
- They reduce process pulsation, act as heat dispenser and generate cooling effect to save instrument from working at dangerous temperature.

Specifications

Standard Version

Process Connection	:	1/4" BSP(M)
Instrument Connection	:	1/4" BSP(F)
Material of Connection	:	AISI 316 SS

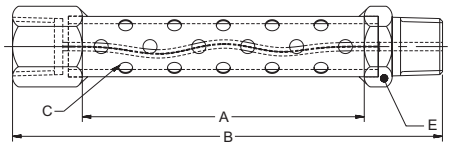
TYPE - C T2 (FIN TYPE)



A	B	C	D	ØF	ØG	H	E
100	150 ± 5	14	3.25	25	10	20	A/F 25.0

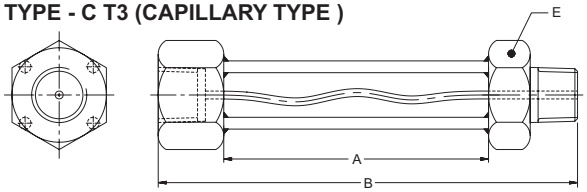
Dimensions - Standard Version

TYPE - C T1 (PERFORATED TYPE)



A	B	E	C
100	150	A/F 25.0	Ø5.0

TYPE - C T3 (CAPILLARY TYPE)



A	B	E
100	150 ± 5	A/F 25.0

Notes :
- Drawings are not to scale.
- All Dimensions are in mm.
- NS = Nominal Size.

How To Order

		Example
Basic Model		
Code		
Type		
C T1 Perforated **C T2** FIN type **C T3** Capillary		XXX
Body		
CL AISI 316 SS (Standard) **CM** AISI 316L SS		XX
Total length (Including Thread)		
150 mm 300 mm		150 mm
Connections		
2BM.2BF 1/4" BSP (M x F) (Standard) **3BM.3BF** 3/8" BSP (M x F) **4BM.4BF** ½" BSP (M x F) **2NM.2NF** 1/4" NPT (M x F) **3NM.3NF** 3/8" NPT (M x F) **4NM.4NF** ½" NPT (M x F)		XXX.XXX

Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc can be provided on request.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1024 Gauge Cock *All Stainless Steel*

Special Features

- Air vent hole for drain
- Working pressure up to 100 kg/cm^2
- Working temperature up to180 °C
- Backelite cover on operating
- Lever (handle)

Application

- Hydraulic machines
- Compressors
- Process plants
- Clean air
- Gases
- Non crystallized liquids

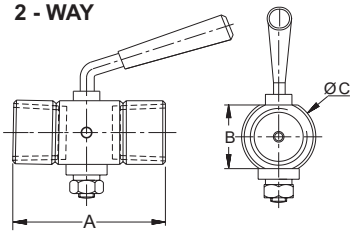
Specifications

Standard Version

Body	:	AISI 316 SS
Handle	:	AISI 304 SS with Backelite cover
Working pressure	:	100 kg/cm^2
Working temperature	:	Up to 180°C
Gasket seal	:	PTFE
Connection	:	½" BSP (F x F) For 2 - Way
	:	½" BSP (M x F x F) For 3 - Way

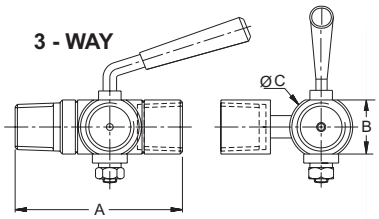
Dimensions - Standard Version

2 - WAY



Size	A			B	ØC
	F x F	M x F	M x M		
1/4"	50	55	60	19	22
3/8"	55	60	65	25	28
½"	60	65	70	25	28

3 - WAY



Size	A	B	ØC
	M x F x F		
1/4"	70	19	22
3/8"	75	25	28
½"	80	25	28

Notes : • Drawings are not to scale. • All Dimensions are in mm.

How To Order

								Example
Basic Model								
Code								
Type	**KS** 2 - WAY		**KU** 3 - WAY					XX
Body	**CL** AISI 316 SS (Standard)		**CQ** AISI 304 SS					XX
2 Way - size & end connection [inlet x outlet] (* Standard)								
2BF.2BF	1/4" BSP (F x F)*	**3BM.3BM**	3/8" BSP (M x M)	**2NF.2NF**	1/4" NPT (F x F)*	**3NM.3NM**	3/8" NPT (M x M)	XXX.XXX OR
2BM.2BF	1/4" BSP (M x F)	**4BF.4BF**	½" BSP (F x F)*	**2NM.2NF**	1/4" NPT (M x F)	**4NF.4NF**	½" NPT (F x F)*	
2BM.2BM	1/4" BSP (M x M)	**4BM.4BF**	½" BSP (M x F)	**2NM.2NM**	1/4" NPT (M x M)	**4NM.4NF**	½" NPT (M x F)	
3BF.3BF	3/8" BSP (F x F)*	**4BM.4BM**	½" BSP (M x M)	**3NF.3NF**	3/8" NPT (F x F)*	**4NM.4NM**	½" NPT (M x M)	
3BM.3BF	3/8" BSP (M x F)			**3NM.3NF**	3/8" NPT (M x F)			
3 Way - size & end connection [inlet x outlet x outlet]								
2BM.2BF.2BF	1/4" BSP (M x F x F)*			**2NM.2NF.2NF**	1/4" NPT (M x F x F)*	**4BM.4BF.4BF**	½" BSP (M x F x F)	XXX.XXX. XXX
3BM.3BF.3BF	3/8" BSP (M x F x F)			**3NM.3NF.3NF**	3/8" NPT (M x F x F)	**4NM.4NF.4NF**	½" NPT (M x F x F)	
Optional extras For other optional items, please contact factory for delivery and minimum quantity of order.								
SG Oxygen service			**GH** Material test certificates*					XX
GI Threaded hex plug for vent hole			**TF** Conformity as per NACE Standard					

* Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1025 Overload Protector (Gauge Saver)
All Stainless Steel

Special Features

- Nominal pressure up to 400 kg/cm²
- 7 different adjustable ranges
- Over pressure up to 600 kg/cm²
- Bellow type & piston type models

Application

- 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, when system pressure becomes normal.
- Hence this device safeguards the pressure instruments, gauges, switches or transmitters by blocking extra high pressure.
- Widely used in mechanical engineering and plant construction, power stations, mining, environmental technology, chemical and petrochemical, on shore & off shore.

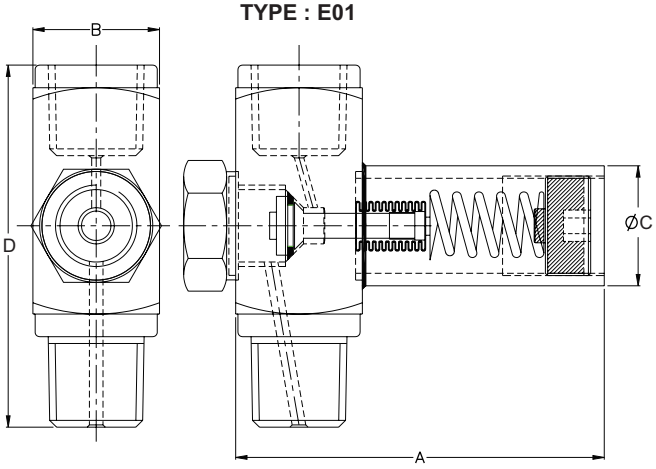
Specifications

Standard Version

Overload Protector Type	:	E01: Bellow Type
	:	E02: Piston Type
Adjustable Range		E01: 0.6 kg/cm² to 2.5 kg/cm²
	:	E02: 4 kg/cm² to 400 kg/cm²
'O' Ring	:	Viton
Maximum Working pressure	:	600 kg/cm²
Operating Temperature	:	-20°C to 120°C
Material of construction	:	AISI 316 SS

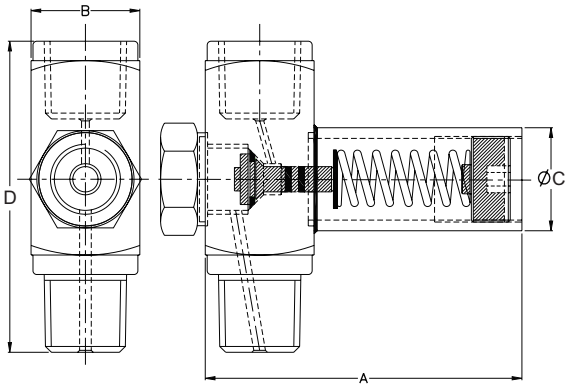
Dimensions - Standard Version

TYPE : E01



A	B	ØC	D	Weight in gram (With Box)
89	28 Sq.	26.5	80	500

TYPE : E02



A	B	ØC	D	Weight in gram (With Box)
89	28 Sq.	26.5	80	490

Notes : • Drawings are not to scale. • All Dimensions are in mm.

01-10-13

How To Order

Example

Basic Model

Code

Adjustable range

Note: Please specify required pressure range or adjustable pressure range while ordering. Otherwise the protector will be set to first value of adjustable range table.

Type	Adjustable Range (kg/cm² or bar)
Bellow (E01)	0.6 to 2.5
Piston (E02)	4 to 6
Piston (E02)	7 to 16
Piston (E02)	10 to 40
Piston (E02)	30 to 80
Piston (E02)	60 to 160
Piston (E02)	100 to 400

Example: XXX OR XXX XXX

Body

CL	AISI 316 SS (Standard)	**CN**	Monel	**HA**	Hastelloy C

Example: XX

Process Connection

2BM.2BF	1/4” BSP (M x F)	**3BM.3BF**	3/8” BSP (M x F)	**4BM.4BF**	½” BSP (M x F) (Standard)
2NM.2NF	1/4” NPT (M x F)	**3NM.3NF**	3/8” NPT (M x F)	**4NM.4NF**	½” NPT (M x F) (Standard)
4MM.4MF	M20 x 1.5 (M x F)				

Example: XXX.XXX

Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc can be provided on request.

Options

GH	Material test certificates**	**SG**	Oxygen service*	**TF**	Conformity as per NACE Standard

Example: XX

* Applicable for Stainless Steel version.

** Material test certificates will be provided for wetted parts only with chemical composition testing. For others, Please consult factory.

For other optional items, please contact factory for delivery and minimum quantity of order.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1026 Flushing Ring *All Stainless Steel*

Special Features

- With double flushing ports.
- Suitable with flanged, pancake or inline diaphragm seals.
- Available in all exotic material grades.

Application

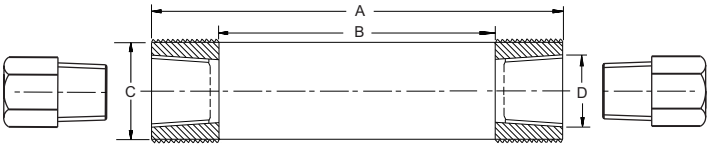
- The flushing ring is designed to be sandwiched between the process flange & the diaphragm seal.
- Material collected in front of diaphragm can be flushed out through the flushing ports.

Specifications

Standard Version (Compatible Baumer Models : DI, DJ, DK & DM)

Flange Size	:	½" to 5" as per ANSI B 16.5
Material	:	AISI 316 SS
Number of ports	:	Two
Port Connection	:	1/4" NPT (F) with Male plug
Sealing Face	:	Suitable to Raised Face of Flange

Dimensions - Standard Version



For flange type diaphragm seals

Flange Size	Class	A	B	C	D
½"	150 # to 600 #	35	12	30	1/4" NPT or ½" NPT (F)
3/4"	150 # to 600 #	43	20	30	
1"	150 # to 600 #	51	25	30	
11/2"	150 # to 600 #	73	43	30	
2"	150 # to 600 #	92	62	30	
3"	150 # to 600 #	127	92	30	
4"	150 # to 600 #	157	92	30	
5"	150 # to 600 #	185.5	126	30	

Note: other sealing face and higher pressure rating flushing rings on request. Please specify.

Notes :
- Drawings are not to scale.
- All Dimensions are in mm.

How To Order

How To Order	Example
Basic Model	
Code	
Optional Extras	X
Flange Size (As per ANSI B 16.5) (* Consult factory for drawings of these Baumer models)	OR
½" 3/4" 1" 1½" 2" 3" 4" 5" D0* DB* DI*	XX
Flange Rating (Do not select if DA or DB required)	
150 300 400 600	XXX
Sealing Face	
A2 Raised Face (Standard) **A3** Flat Face	XX
Flushing Ring Material	
KM AISI 316L SS **KV** Carbon steel **KX** Titanium **KY** Hastelloy C **KW** Monel **CT** AISI 316 SS (Standard)	XX
Flushing Ports (with two male plugs)	
VF 1/4" NPT (F) (Standard) **VD** ½" NPT (F)	XX
Options **GH** Material test certificates* **TF** Conformity as per NACE Standard	XX

* Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1027 Pulsarion Dampener (Snubber)
Adjustable Needle Type

Special Features

- Designed to reduce dampening effect of process fluid
- Working pressure up to 400 kg/cm^2
- Working temperature up to 120 °C
- All stainless steel construction
- For corrosive environment & media

Application

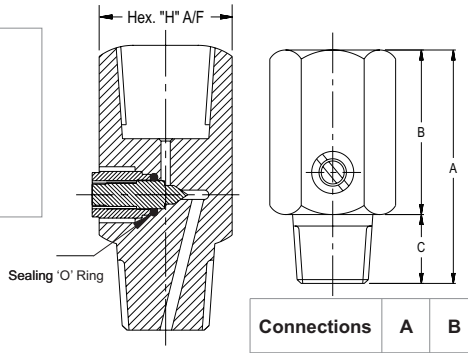
- This device can increase the service life of pressure instruments in critical conditions found at reciprocating
- Pumps
- Hydraulic machines
- Compressors
- Process plants
- Clean air,
- Non crystallized liquids

Specifications

Standard Version

Working Pressure	:	Up to 400 kg/cm²
Working Temperature	:	- 20 °C to 120 °C
Instrument Connection	:	½" NPT (F)
Process Connection	:	½" NPT (M)
Body Material	:	AISI 316 SS
Sealing 'O' Ring (Internal)	:	Viton

Dimensions - Standard Version



Notes: Drawings are not to scale.
All Dimensions are in mm.

Connections	A	B	ØC	Hex. "H" A/F
1/4" (MxF)	55	40	15	25.0
3/8" (MxF)	55	39	16	25.0
1/2" (MxF)	63	43	20	28.0

How To Order

How To Order	Example
Basic Model	
Code	
Body	
CL AISI 316 SS (Standard) **CM** AISI 316L SS **CQ** AISI 304 SS **CN** Monel **CP** Brass* **HA** Hastelloy C	XX
* In case of wetted parts of Brass, max. pressure shall be 250 kg/cm^2	
Connection	
2BM.2BF 1/4" BSP (M x F) **3BM.3BF** 3/8" BSP (M x F) **4BM.4BF** ½" BSP (M x F) (Standard) **4MM.4MF** M20 x 1.5 (M x F) **2NM.2NF** 1/4" NPT (M x F) **3NM.3NF** 3/8" NPT (M x F) **4NM.4NF** ½" NPT (M x F) (Standard) **2TM.2TF** 1/4" BSPT (M x F) **3TM.3TF** 3/8" BSPT (M x F) **4TM.4TF** ½" BSPT (M x F)	XXX.XXX
Note : Connections like Metric/ PT/ PF/ Flaired/ UNF/ G/ R etc can be provided on request.	
Optional Extras	
SG Oxygen Service **GH** Material Test Certificates* **TF** Conformity as per NACE Standard (except option Code 'CP')#	XX

For body material only.
*Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

Ordering Example:

For other optional items, please contact factory for delivery and minimum quantity of order.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1028 Siphon
All Stainless Steel

Special Features

- Pigtail, Coil and “U” type shapes
- Maximum temperature up to 400 °C
- Nominal pressure up to 160 kg/cm²
- TIG welded & hydro tested
- Made with seamless pipes

Application

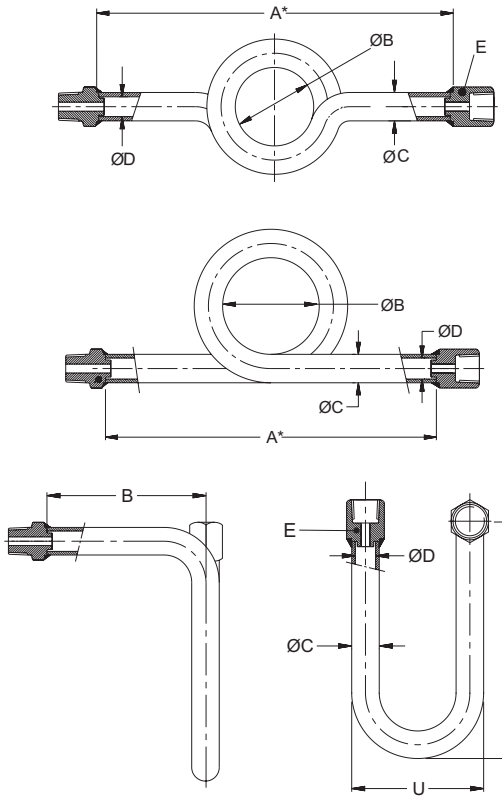
- Siphons are used mainly to protect pressure instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours
- These are mounted between process and pressure instrument
- They reduce process pulsation and generate cooling effect to save the instrument

Specifications

Standard Version

Body material	:	AISI 316 Stainless Steel
Pipe size	:	½”, Schedule 40
Operating pressure	:	100 kg/cm² at 120 °C.

Dimensions - Standard Version



Coil Type

Pipe size	A	ØB	ØC	ØD	E
1/2" Sch. 40	270	61.5	21.3	15.7	25
1/2" Sch. 80	270	61.5	21.3	13.9	25
1/2" Sch. 160	270	61.5	21.3	11.7	25

A*= ±5 mm

Pigtail Type

Pipe size	A	ØB	ØC	ØD	E
1/2" Sch. 40	270	61.5	21.3	15.7	25
1/2" Sch. 80	270	61.5	21.3	13.9	25
1/2" Sch. 160	270	61.5	21.3	11.7	25

A*= ±5 mm

“U” Type

Pipe size	A	B	U	ØC	ØC	E
1/2" Sch. 40	169	155	99	21.3	15.7	25
1/2" Sch. 80	169	155	99	21.3	13.9	25
1/2" Sch. 160	169	155	99	21.3	11.7	25

A*= ±5 mm

Notes : • Drawings are not to scale. • All Dimensions are in mm. • Drawings & dimensions of other pipe schedules are available on request.

01-10-13

How To Order								Example
Basic model (with plain end)								
Code								
It is recommended that the Siphon should be filled with water or any other suitable separating fluid, when it is installed first time.								
Type								
MR Coil type		**MS** Pigtail type		**MT** 'U' Type				XX
Body								
CL AISI 316 SS (Standard)		**CM** AISI 316L SS		**CQ** AISI 304 SS		**CR** Carbon steel (red oxide painted)		XX
Pipe size & schedule								
1/4" 40		**3/8"** 40		½" 40		½" 160		(½ 40)
1/4" 80		**3/8"** 80		½" 80				
(Example: Write ½ 40 to select ½" Sch. 40 Pipe)								
Connection type (*Not suitable for NPT threading)								
MU Swivel female*		**MV** Male or female adaptor		**CZ** Male thread on pipe				XX
Connection (*Except option MU)								
2BM.2BF 1/4" BSP (M x F)		**2BM.2BM** 1/4" BSP (M x M)		**2BF.2BF** 1/4" BSP (F x F)				XXX.XXX
2NM.2NF 1/4" NPT (M x F)*		**2NM.2NM** 1/4" NPT (M x M)		**2NF.2NF** 1/4" NPT (F x F)*				
3BM.3BF 3/8" BSP (M x F)		**3BM.3BM** 3/8" BSP (M x M)		**3BF.3BF** 3/8" BSP (F x F)				
3NM.3NF 3/8" NPT (M x F)*		**3NM.3NM** 3/8" NPT (M x M)		**3NF.3NF** 3/8" NPT (F x F)*				
4BM.4BF ½" BSP (M x F) (Standard)		**4BM.4BM** ½" BSP (M x M)		**4BF.4BF** ½" BSP (F x F)				
4NM.4NF ½" NPT (M x F) (Standard)*		**4NM.4NM** ½" NPT (M x M)		**4NF.4NF** ½" NPT (F x F)*				
4NM.PE ½" NPT (M) x Plain end								
Options								
PV IBR approval*		**GH** Material test certificate		**SX** SS tag plate				XX
CW Marking by laser#		**CX** Marking by engraving#		**KT** Marking by stamping**				

* IBR approval will be provided for plain end siphons only. Adaptors will be weld after IBR approval, if required.
** Available for option CR. # Available for options CQ, CL & CM.

For other optional items, please contact factory for delivery and minimum quantity of order.
Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.

IP1029 Siphon-Economical
SS & Steel (Plated)

Special Features

- Pigtail, Coil and “U” type shapes
- Maximum temperature up to 120°C
- Nominal pressure up to 16 kg/cm²
- Made with ERW pipes

Application

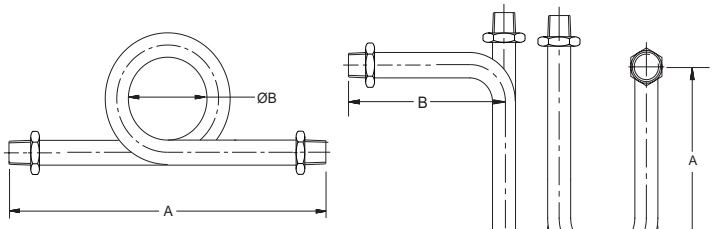
- Siphons are used mainly to protect pressure instruments, gauges, switches and transmitters directly coming in contact with high temperature process fluids or vapours.
- These are mounted between process and pressure instrument.
- They reduce process pulsation and generate cooling effect to save the instrument.

Specifications

Standard Version

Body material	:	Steel (Plated)
Pipe size	:	3/8”
Operating pressure	:	16 kg/cm² at 120 °C.
Standard accessories	:	Check nut (2 Nos.)

Dimensions - Standard Version



Pigtail Type

Pipe size	A	ØB
3/8”	245	53
½"	245	53

Tolerance= ±5 mm

“U” Type

Pipe size	A	ØB	U
3/8”	135	90	85
½"	135	53	95

Tolerance= ±5 mm

Notes : • Drawings are not to scale. • All Dimensions are in mm.

How To Order

		Example
Basic Model (male thread on pipe)		
Code		
It is recommended that the Syphon should be filled with water or any other suitable separating fluid, when it is installed first time.		
Type		
MS Pigtail type **MT** ‘U’ type		XX
*Please contact factory for delivery and minimum quantity of order.		
Body		
CS Steel (plated) (Standard) **CQ** AISI 304 SS		XX
Pipe size (in inch)		
3/8 (Standard) ½		(3/8)
Connection		
3BM.3BM 3/8” BSP (M x M) (Standard) **4BM.4BM** ½” BSP (M x M)		XXX.XXX
Options		
SX SS Tag plate **MV** Male or female adaptor (single side)		XX

For other optional items, please contact factory for delivery and minimum quantity of order.

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

IP1030 Gauge Cock-Economical
Brass (Plated) & SS

Special Features

- Working pressure up to 16 kg/cm^2
- Working temperature up to 120 °C

Application

- Hydraulic machines
- Compressors
- Process plants
- Clean air
- Gases
- Non crystallized liquids

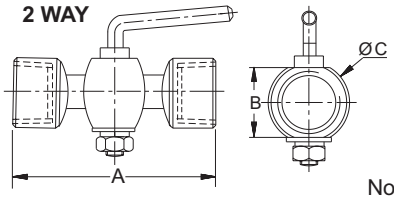
Specifications

Standard Version

Body	:	Brass (Plated)
Working pressure	:	16 kg/cm^2
Working temperature	:	Up to 120°C
Connection	:	3/8"BSP (F x F) For 2 Way
	:	3/8 "BSP (F x F x F) For 3 Way

Dimensions - Standard Version

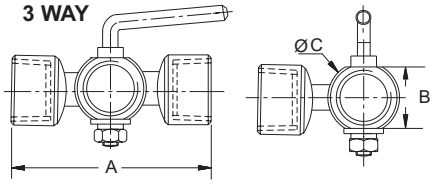
2 WAY



Size	A			B	ØC	Weight in gram (With Box)
	F x F	M x F	M x M			
3/8"	55	60	65	25	28	80.0
½"	60	65	70	25	28	180.0

Notes : • Drawings are not to scale.
• All Dimensions are in mm.

3 WAY



Size	A	B	ØC	Weight in gram (With Box)
	M x F x F			
3/8"	75	25	28	115.0
½"	80	25	28	250.0

How To Order

Example

Basic Model

Code

Type

KS 2 Way **KU** 3 Way (Except option CQ) — XX

Body

CP Brass (Standard) **CQ** AISI 304 SS — XX

2 way - size & end connection [inlet x outlet]

3BF.3BF	3/8" BSP(F x F) (Standard)	**4BF.4BF**	½" BSP (F x F)	XXX.XXX
3BM.3BF	3/8" BSP(M x F)	**4BM.4BF**	½" BSP (M x F)	OR

3 way - size & end connection [inlet x outlet x outlet]

3BF.3BF.3BF	3/8" BSP(F x F x F)(Standard)	**4BF.4BF.4BF**	½" BSP (F x F x F)	XXX.

Optional extras — XXX. XXX

For other optional items, please contact factory for delivery and minimum quantity of order.

SX SS tag plate — XX

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.