TRUEWAY

Thriving For Excellence

INSTRUMENT VALVES

MODEL CHART









www.trueweyindia.com

INTRODUCTION

- TRUEWAY Instrument Valves are precision designed products suitable for Low to High Pressure requirements. They are used in Pipeline systems to start, Stop and regulate Flow of Liquid or Gases or vacuume. They are available in various sizes with complete range as Needle Valve, Ball Valve, NRV, PRV, QRC, etc. Trueway Valves are manufactured in various Material grads as Stainless Steel, Hastelloy, Inconel, Monel, Brass, PTFE, CS etc.

FEATURES

- Wide range of Products from Low to High Pressure
- 100% Factory Tested for guaranteed performance
- Multiple Range availability based on application
- Also available in range Suitable for High Pressure Gases, Liquids & Vacuum
- Instrument Valves Type Tested as per MSS-SP-99-2016A

PRODUCT RANGE

- Needle Valve (NV)
- Needle Valve Tube (NV)
- Needle Valve Angle (NVA)
- Needle Valve with Drain (NVD)
- Needle Valve Lockable (NVL)
- Ball Valve (BV)
- Ball Valve High Pressure (BVHP)
- Ball Valve Panel Mounting (BVPM)
- Three Way Ball Valve (3BVPM)
- Multiway Ball Valve (MBV)
- Non-Return Valve (NRV)
- Pressure Relief Valve (PRV)

INDUSTRIES SERVE

- Instrumentation
- Chemicals
- Oil & Gas
- Hydraulics
- Power
- Steel
- Fertilizers
- Petrochemicals
- Pharmaceuticals

Needle Valve (NV)

Model Selection Chart

NPT (Female) x NPT (Female)			
Sr. No.	InletThread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: **SS316**
1	1/8"	1/8"	SS-NV-2F
2	1/4"	1/4"	SS-NV-4F
3	3/8"	3/8"	SS-NV-6F
4	1/2"	1/2"	SS-NV-8F
5	3/4"	3/4"	SS-NV-12F
6	1"	1"	SS-NV-16F



NPT (Male) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: **SS316**
1	1/4"	1/4"	SS-NV-4M-4F
2	3/8"	3/8"	SS-NV-6M-6F
3	1/2"	1/2"	SS-NV-8M-8F
4	3/4"	3/4"	SS-NV-12M-12F
5	1"	1"	SS-NV-16M-16F

Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
PTFE	T
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Needle Valve Tube (NV)
Model Selection Chart

Tube OD x Tube OD, Tube OD Dia Size: Fractional			
Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NV-4
2	3/8"	3/8"	SS-NV-6
3	1/2"	1/2"	SS-NV-8
4	3/4"	3/4"	SS-NV-12
5	1"	1"	SS-NV-16

Tube OD x Tube OD, Tube OD Dia Size: Metric			
Sr. No.	InletTube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-NV-6mm
2	8mm	8mm	SS-NV-8mm
3	10mm	10mm	SS-NV-10mm
4	12mm	12mm	SS-NV-12mm



Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
PTFE	T
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Needle Valve Angle (NVA)

Model Selection Chart

NPT (Female) x NPT (Female)

Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NVA-4F
2	3/8"	3/8"	SS-NVA-6F
3	1/2"	1/2"	SS-NVA-8F

NPT (Male) x NPT (Female)

Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NVA-4M-4F
2	3/8"	3/8"	SS-NVA-6M-6F
3	1/2"	1/2"	SS-NVA-8M-8F

Tube OD x Tube OD, Tube OD Dia Size: Fractional

Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NVA-4
2	3/8"	3/8"	SS-NVA-6
3	1/2"	1/2"	SS-NVA-8



Tube OD x Tube OD, Tube OD Dia Size: Metric

Sr. No.	Inlet Tube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-NVA-6mm
2	8mm	8mm	SS-NVA-8mm
3	12mm	12mm	SS-NVA-12mm

NPT (Male) x Tube OD

Sr. No.	Inlet Thread Type NPT Male	Outlet Tube OD Size: Inch/MM	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NVA-4M-4
2	1/4"	6mm	SS-NVA-4M-6mm
3	1/2"	1/2"	SS-NVA-8M-8
4	1/2"	12mm	SS-NVA-8M-12mm

Material Grade Selection Chart

For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
PTFE	T
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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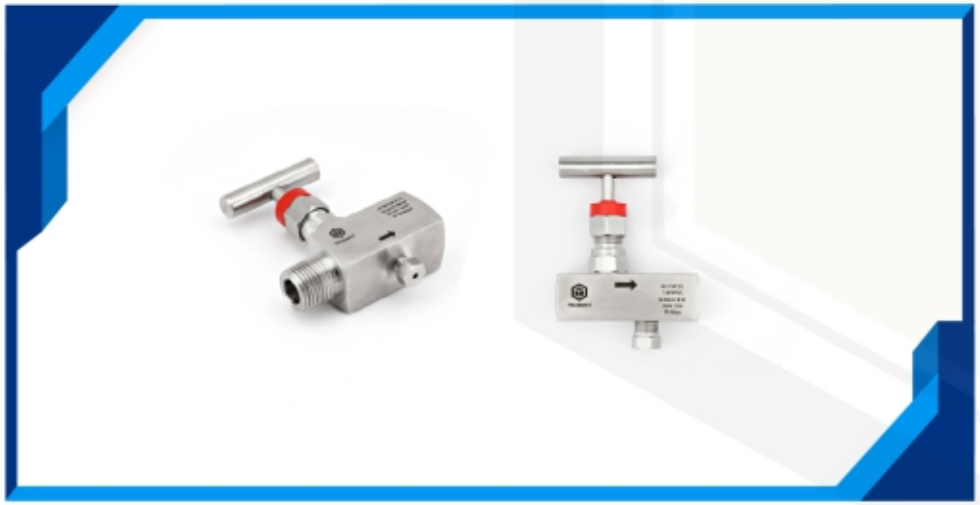
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Needle Valve With Drain (NVD)

Model Selection Chart

NPT (Female) x NPT (Female)				
Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Drain with Plug Thread type NPT Female	Model No. For MOC: **SS316**
1	1/4"	1/4"	1/4"	SS-NVD-4F-4F-4F
2	3/8"	3/8"	1/4"	SS-NVD-6F-6F-4F
3	1/2"	1/2"	1/4"	SS-NVD-8F-8F-4F

NPT (Male) x NPT (Female)				
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Drain with Plug Thread type NPT Female	Model No. For MOC: **SS316**
1	1/4"	1/4"	1/4"	SS-NVD-4M-4F-4F
2	3/8"	3/8"	1/4"	SS-NVD-6M-6F-4F
3	1/2"	1/2"	1/4"	SS-NVD-8M-8F-4F



Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
PTFE	T
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Needle Valve Lockable (NVL)

Model Selection Chart

NPT (Female) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: **SS316**
1	1/4"	1/4"	SS-NVL-4F
2	3/8"	3/8"	SS-NVL-6F
3	1/2"	1/2"	SS-NVL-8F



Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Ball Valve (BV)

Model Selection Chart

NPT (Female) x NPT (Female)

Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BV-4F
2	3/8"	3/8"	SS-BV-6F
3	1/2"	1/2"	SS-BV-8F
4	3/4"	3/4"	SS-BV-12F
5	1"	1"	SS-BV-16F

NPT (Male) x NPT (Female)

Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BV-4M-4F
2	3/8"	3/8"	SS-BV-6M-6F
3	1/2"	1/2"	SS-BV-8M-8F



Tube OD x Tube OD, Tube OD Dia Size: Fractional

Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BV-4
2	3/8"	3/8"	SS-BV-6
3	1/2"	1/2"	SS-BV-8

Tube OD x Tube OD, Tube OD Dia Size: Metric

Sr. No.	Inlet Tube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-BV-6mm
2	8mm	8mm	SS-BV-8mm
3	12mm	12mm	SS-BV-12mm

Material Grade Selection Chart

For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
PTFE	T
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Ball Valve High Pressure (BVHP)

Model Selection Chart

NPT (Female) x NPT (Female)

Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVHP-4F
2	3/8"	3/8"	SS-BVHP-6F
3	1/2"	1/2"	SS-BVHP-8F
4	3/4"	3/4"	SS-BVHP-12F
5	1"	1"	SS-BVHP-16F

NPT (Male) x NPT (Female)

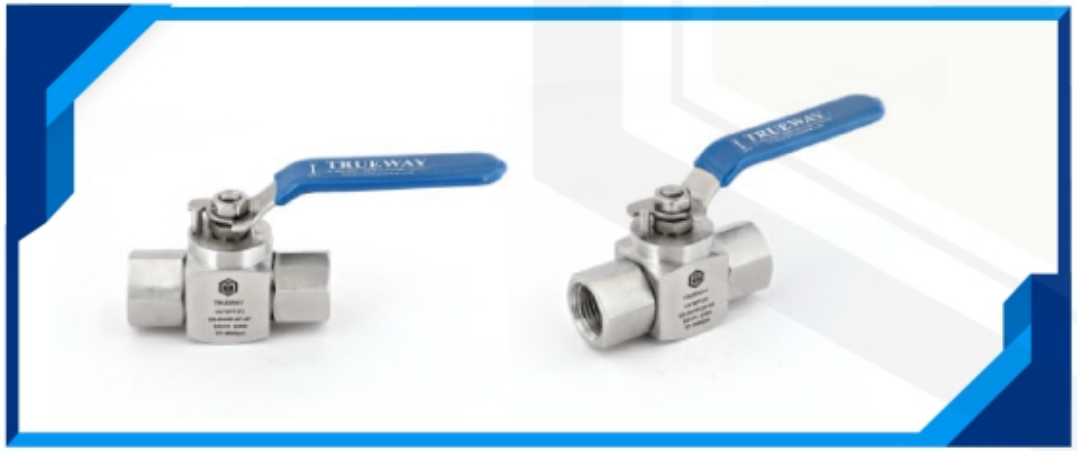
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVHP-4M-4F
2	3/8"	3/8"	SS-BVHP-6M-6F
3	1/2"	1/2"	SS-BVHP-8M-8F

Tube OD x Tube OD, Tube OD Dia Size: Fractional

Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVHP-4
2	3/8"	3/8"	SS-BVHP-6
3	1/2"	1/2"	SS-BVHP-8

Tube OD x Tube OD, Tube OD Dia Size: Metric

Sr. No.	Inlet Tube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-BVHP-6mm
2	8mm	8mm	SS-BVHP-8mm
3	12mm	12mm	SS-BVHP-12mm



Material Grade Selection Chart

For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Ball Valve Panel Mounting (BVPM)

Model Selection Chart

NPT (Female) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Female	OutletThread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVPM-4F
2	3/8"	3/8"	SS-BVPM-6F
3	1/2"	1/2"	SS-BVPM-8F

NPT (Male) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVPM-4M-4F
2	3/8"	3/8"	SS-BVPM-6M-6F
3	1/2"	1/2"	SS-BVPM-8M-8F



Tube OD x Tube OD, Tube OD Dia Size: Fractional			
Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-BVPM-4
2	3/8"	3/8"	SS-BVPM-6
3	1/2"	1/2"	SS-BVPM-8

Tube OD x Tube OD, Tube OD Dia Size: Metric			
Sr. No.	Inlet Tube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-BVPM-6mm
2	8mm	8mm	SS-BVPM-8mm
3	12mm	12mm	SS-BVPM-12mm

Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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3 Way Ball Valve Panel Mounting (3BVPM)

Model Selection Chart

NPT (Female) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Female	Outlet 1 Thread type NPT Female	Model No. For MOC: **SS316**
1	1/4"	1/4"	SS-3BVPM-4F
2	3/8"	3/8"	SS-3BVPM-6F
3	1/2"	1/2"	SS-3BVPM-8F

Tube OD x Tube OD, Tube OD Dia Size: Fractional				
Sr. No.	Inlet Tube OD Size: Inch	Outlet 1 Tube OD Size: Inch	Outlet 2 Tube OD Size: Inch	Model No. For MOC: **SS316**
1	1/4"	1/4"	1/4"	SS-3BVPM-4
2	1/2"	1/2"	1/2"	SS-3BVPM-8

Tube OD x Tube OD, Tube OD Dia Size: Metric				
Sr. No.	Inlet Tube OD Size: MM	Outlet 1 Tube OD Size: MM	Outlet 2 Tube OD Size: MM	Model No. For MOC: **SS316**
1	6mm	6mm	6mm	SS-3BVPM-6mm
2	12mm	12mm	12mm	SS-3BVPM-12mm



Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Non Return Valve (NRV)
Model Selection Chart

NPT (Female) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Female	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NRV-4F
2	3/8"	3/8"	SS-NRV-6F
3	1/2"	1/2"	SS-NRV-8F
4	3/4"	3/4"	SS-NRV-12F
5	1"	1"	SS-NRV-16F

NPT (Male) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NRV-4M-4F
2	3/8"	3/8"	SS-NRV-6M-6F
3	1/2"	1/2"	SS-NRV-8M-8F
4	3/4"	3/4"	SS-NRV-12M-12F
5	1"	1"	SS-NRV-16M-16F



Tube OD x Tube OD, Tube OD Dia Size: Fractional			
Sr. No.	Inlet Tube OD Size: Inch	Outlet Tube OD Size: Inch	Model No. For MOC: SS316
1	1/4"	1/4"	SS-NRV-4
2	1/2"	1/2"	SS-NRV-8

Tube OD x Tube OD, Tube OD Dia Size: Metric			
Sr. No.	Inlet Tube OD Size: MM	Outlet Tube OD Size: MM	Model No. For MOC: SS316
1	6mm	6mm	SS-NRV-6mm
2	12mm	12mm	SS-NRV-12mm

Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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Pressure Relief Valve (PRV)

Model Selection Chart

NPT (Male) x NPT (Female)			
Sr. No.	Inlet Thread Type NPT Male	Outlet Thread type NPT Female	Model No. For MOC: SS316
1	1/4"	1/4"	SS-PRV-4M-4F
2	3/8"	3/8"	SS-PRV-6M-6F
3	1/2"	1/2"	SS-PRV-8M-8F

NPT (Male) x Tube OD			
Sr. No.	Inlet Thread Type NPT Male	Outlet Tube OD Size: Inch/MM	Model No. For MOC: SS316
1	1/4"	1/4"	SS-PRV-4M-4
2	1/4"	6mm	SS-PRV-4M-6mm
3	1/2"	1/2"	SS-PRV-8M-8
4	1/2"	12mm	SS-PRV-8M-12mm



Material Grade Selection Chart	
For following Material Grade (MOC)	Replace First Two Letters of Model No. with following
SS316L	SSL
SS304	S4
SS304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy C276	HC
Carbon Steel	CS

Note: Above Model Nos. are for NPT Threads. For BSP Threads Add -B & for BSPT Threads add -BT at end of Model Nos.

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HOW TO ORDER INSTRUMENT VALVES

To Order: Needle Valve Angle 1/2" NPT Male X 1/2" Tube OD SS316

Trueway Model No. : SS - NVA - 8M - 8

SS — **NVA** — **8M** — **8**

MATERIAL GRADE

MATERIAL GRADE	MOC (*)
SS 316	SS
SS316L	SSL
Ss304	S4
SS 304L	S4L
BRASS	B
ALLOY400	ML
ALLOY600	INC
ALLOY276	HC
PTFE	T
CARBON SYEEL	CS

ITEM DESIGNATOR

PIPE THREAD TYPE & SIZE

SIZE(METRIC)	MPT (*) MALE	FPT (*) FEMALE	PSW (*)FOR INCH	PBW (*)FOR INCH
1/16 INCH	1M	1F	-	-
1/8 INCH	2M	2F	2SW	2BW
1/4 INCH	4M	4F	4SW	4BW
3/8 INCH	6MM	6F	6SW	6BW
1/2 INCH	8M	8F	8SW	8BW
3/4 INCH	12M	12F	12SW	12BW
1 INCH	16M	16F	16SW	16BW
1-1/4 INCH	20M	20F	20SW	20BW
1-1/2 INCH	24M	24F	24SW	24BW
2 INCH	32M	32F	32SW	32BW

Note: Above are NPT Threads. I For BSP Add -B & for BSPT add -BT at end.

TUBE OD FRACTIONAL

SIZE(FRACTIONAL)	TOD (*)FOR INCH	TPE (*)FOR INCH
1/16 INCH	1	1TX
1/8 INCH	2	2TX
3/16 INCH	3	3TX
¼ INCH	4	4TX
5/16 INCH	5	5TX
3/8 INCH	6	6TX
½ INCH	8	8TX
5/8 INCH	10	10TX
¾ INCH	12	12TX
7/8 INCH	14	14TX
1 INCH	16	16TX
1-1/4 INCH	20	20TX
1-1/2 INCH	24	24TX
2 INCH	32	32TX

TUBE OD METRIC

SIZE(METRIC)	TOD (*)FOR MM	TPE (*)FOR MM
3 MM	3MM	3MMTX
4 MM	4MM	4MMTX
6 MM	6MM	6MMTX
8 MM	8MM	8MMTX
10 MM	10MM	10MMTX
12 MM	12MM	12MMTX
14 MM	14MM	14MMTX
15 MM	15MM	15MMTX
16 MM	16MM	16MMTX
18 MM	18MM	18MMTX
20 MM	20MM	20MMTX
22 MM	22MM	22MMTX
25MM	25MM	25MMTX
28 MM	28MM	28MMTX
32 MM	32MM	32MMTX
38 MM	38MM	38MMTX

Terms Used

- "*" : Designator Code
- "MM" : Milli Meter
- "TOD" : Tube Outer Diameter
- "TPE" : Tube Plain End
- "MPT" : Male Pipe Thread (NPT)
- "FPT" : Female Pipe Thread (NPT)
- "PSW" : Pipe Socket Weld
- "PBW" : Pipe Butt Weld

General Terms Used

- OD : Outer Diameter of Tub
- NPT : National Pipe Threads
- BSP : British Standard Pipe Threads
- BSPT : British Standard Taper Threads
- NACE : National Association of Corrosion Engineers
- SW : Socket Weld
- BW : Butt Weld
- psi : Pounds per Square Inch

Dust Cap Colour Coding



INHOUSE TEST FACILITIES AT TRUEWAY

- Hydro Pressure Test up to 20000 psi
- Pneumatic Test up to 2000 psi
- Impulse Testing Fro, 0 to 6000 psi
- Rotary Flex Test
- Flexure Fatigue Test
- Tensile Test for Tube Fittings
- Vibration Test
- Vacuum Test
- Temperature Cycling Test

TRUEWAY TUBE FITTINGS HAS BEEN TESTED & APPROVED AS PER ASTM F 1387-99 (2005)

Availability & applicable standards for Threads offered

- **American National Pipe Thread (NPT) :** ANSI B1.20.1
- **ISO Parallel Pipe Thread (British Standard Pipe Thread) :** BS 2779, ISO 228/1, DIN 259, JIS B 0202, IS 2643
- **ISO Taper Pipe Thread (British Standard Pipe Taper Taper Thread) :** BS 21, ISO 7/1, DIN 2999, JIS B0203, IS 554

TRUEWAY PRODUCT RANGE

- TUBE FITTINGS COMPRESSION TYPE
- INSTRUMENT PIPE FITTINGS
- NEEDLE VALVES
- BALL VALVES
- VALVE MANIFOLDS
- BLEED PLUGS
- CHECK VALVES / NON RETURN VALVES
- SAFETY / PRESSURE RELEIF VALVES
- GAUGE COCKS
- AIR HEADERS / AIR MANIFOLDS / AIR DISTRIBUTOR
- CONDENSATE POTS / CATCH POTS / SEAL POTS
- SYPHONS
- SNUBBERS
- QUICK RELEASE COUPLINGS
- SWIVEL ADAPTORS
- FLANGES
- THERMOWELLS
- SOCKET WELD & SCREWED PIPE FITTINGS
- PTFE / NYLON / PU TUBE & FITTINGS
- COPPER TUBE (BARE & WITH PVC INSULATION)
- IMPULSE TUBE / SEAMLESS PIPES
- TUBE / PIPE CLAMPS
- HOSE & HOSE FITTINGS
- GATE / GLOBE VALVES
- TOGGLE VALVES

TRUEWAY

Thriving For Excellence

PRODUCT RANGE

TUBE FITTINGS



INSTRUMENT PIPE FITTINGS



INSTRUMENT VALVES



VALVE MANIFOLDS



AIR HEADER & MANIFOLDS



CONDENSATE POTS



Instrument Flanges



SYPHONS



SNUBBERS



GAUGE COCKS



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