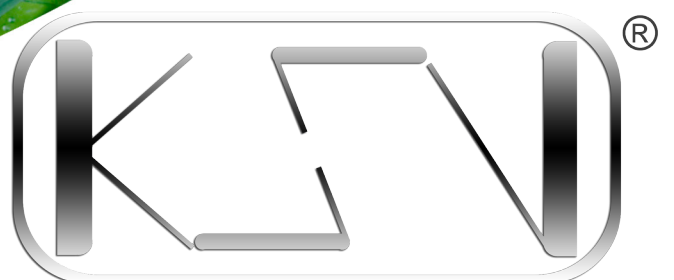




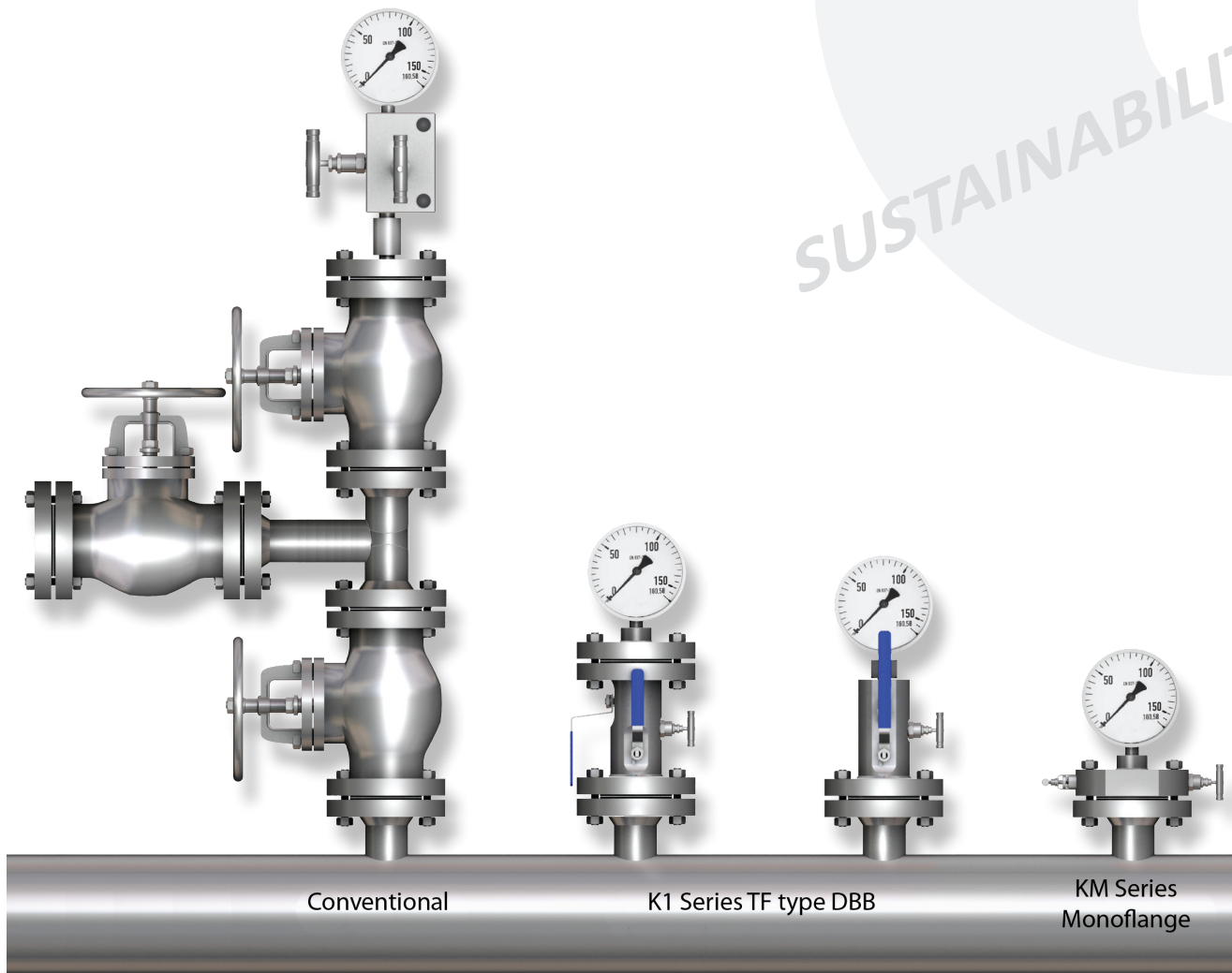
industrial **RELIABLE**

environmental **SUSTAINABLE**



Why use Double Block and Bleed?

RELIABILITY
SUSTAINABILITY



- Savings on space, up to 80%
- Savings on material and labour
- Minimized leakage point by up to 60%, hence improved safety
- One piece of equipment replacing 3 valves Less Material Take Off parts
- Significantly reduced vibration problems caused by long string of bulky equipments
- Reduced risk of transporting and installation especially in hazardous area
- Less impact on the natural resources and the environment
- Last but not least saving on COSTS.

DOUBLE BLOCK & BLEED VALVE

K1

SERIES

Flange & Barstock DBB



Model TF

features

- Stainless steel, duplex stainless steel, Super duplex stainless steel, Monel, Carbon Steel body and trim
- Size range from 3/8" to 3"
- ASME B16.5 flange connection
- Integration of Ball valves and needle valves with precision machining, reducing leakage.
- Comply to API6D, BS6755PT2 design up to 2500#
- Anti-blowout backseat design to prevent stem blowout
- Precision machining to ensure zero leakage on ball valves
- Tough Forged Body eliminates leak point in conventional installation
- Stop Pin
- Durable high performance seats
- Fire safe design (API 607 optional)
- Anti-static design
- Comply to NACE MR01-75

All of KSV valves Body are hydrotested up to 1.5x max operation pressure, 1.1x seat leakage test. Air pressure test in accordance to BS EN 12266-1 and API 598.

applications

- Oil & Gas
- Petrochemical
- Power Generation
- Pharmaceutical

model

- TF - Flange end with 2 balls& needle vent
- TN - Flange end with 3 needle valves
- TB - Flange end with 3 balls valves
- TA - Flange end with 2 balls valves
- BO - Barstock with 3 balls in oblique
- BB - Barstock with 3 balls in line
- BN - Barstock with 3 needle valves
- BF - Barstock with 2 balls & needle valve



DOUBLE BLOCK & BLEED VALVE

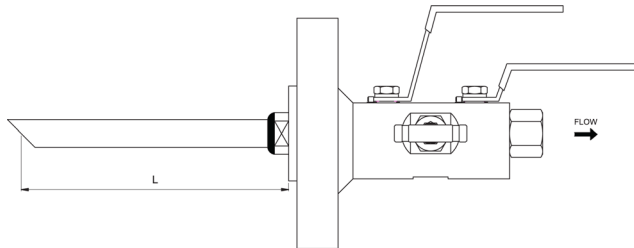
K1

SERIES

RELIABILITY
SUSTAINABILITY

DBB with Quill

Model QS



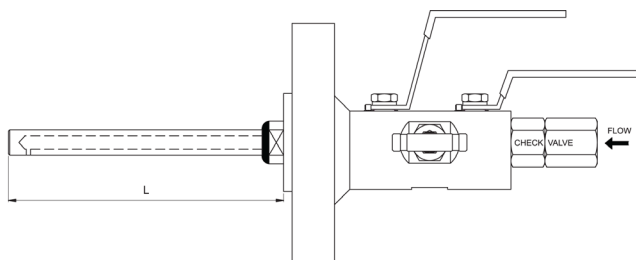
Sampling DBB

Typically our QS model DBB consists of 2 balls and a needle vent valves. Sample from the process can be taken via the probe which positioned perpendicular to the flow. This design ensures double isolation from process for safety purpose.

Our sampling DBB body is machined from solid forged steel which provides durability in high pressure application. It bares KSV K1 series DBB standard features and designed in accordance to industrial standards.

Customer will specify the length "L" of the probe or quill to suit their process application.

Model QC



Chemical Injection DBB

Typically our QC model DBB consists of 2 balls, a needle vent valves and a check valve on the inlet. Chemical are injected through the one way check valve directly into the process line. This product replaces conventional multiple valves installation for chemical injection application.

Our chemical injection DBB body is machined from solid forged steel which gives durability in high pressure application. It bares KSV K1 series DBB standard features and are designed in accordance to industrial standards.

Customer will specify the length "L" of the probe or quill to suit their process application.



How To Order DBB

Series Model - End Connections Material Custom

Main Vent Instrument

Example K1 TF - 25RTJ15008F15F - M02 X

Series

K1 Double Block & Bleed

Model

TF Flange end with 2 balls & needle vent
TN Flange end with 3 needle valves
TB Flange end with 3 balls
TA Flange end with 2 balls
BO Barstock with 3 ball in oblique
BB Barstock with 3 ball in line
BN Barstock with 3 needle valves
BF Barstock with 2 balls & needle valve
QS Quill for Sampling
QC Quill for Chemical Injection

Material

M01 Carbon Steel
M02 Stainless Steel
M03 Duplex Stainless Steel
M04 Super Duplex Stainless Steel
M05 Monel
M06 Alloy Steel (composition required)

Custom

X High or Low Temp. Applications
XC Extended Bonnet (Cryogenic)
DP Dual Port

End Connections

Main

Size

15 1/2"
20 3/4"
25 1"
40 1-1/2"
50 2"
80 3"

Connection Type

RTJ Ring Type Joint
RF Raised Face

Ratings

150 150#
300 300#
600 600#
900 900#
1500 1500#
2500 2500#

Vent & Instrument

Size

8 1/4"
10 3/8"
15 1/2"
20 3/4"
25 1"
40 1-1/2"
50 2"
80 3"

Connection Type

F Female NPT
M Male NPT
S Special Connection
RF Raised Face
RTJ Ring Type Joint

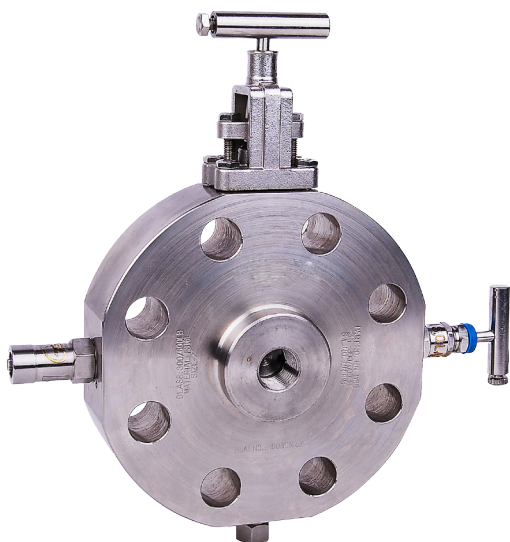


MONOFLANGE VALVE

KM

SERIES

Monoflange Valve



applications

- Oil & Gas
- Petrochemical
- Power Generation
- Pharmaceutical

features

- Stainless steel, duplex stainless steel, Super duplex stainless steel, Monel, Carbon Steel body and trim
- Size range from 3/8" to 2"
- ASME B16.5 flange connection
- 1/2" -14 NPT Standard outlet and 1/4"-18 NPT standard vent.
- Comply to API6D, BS6755PT2 design up to 2500#
- Combined needle and OS & Y valves available.
- Single piece durable forged construction flange
- Raised face and Ring Type Joint flange connection available
- Reduced leak path
- Anti tampered option available
- Fire safe design (API 607 optional)
- NACE MR01-75 option
- Available in Single block and Double block options

model

- 1B - Single Block
- 2B - Double Block
- BB - Block and Bleed
- 3B - Double Block and Bleed



How To Order Monoflange

Series Model - End Connections Material

 Main Vent Instrument

Example KM 3B - 25RF60015F15F - M02

Series

KM Monoflange

Model

1B Single Block
2B Double Block
BB Block and Bleed
3B Double Block and Bleed

Material

M01 Carbon Steel
M02 Stainless Steel
M03 Duplex Stainless Steel
M04 Super Duplex Stainless Steel
M05 Monel
M06 Alloy Steel (composition required)

End Connections

Main

Size

15 1/2"
20 3/4"
25 1"
40 1-1/2"
50 2"
80 3"

Connection Type

RTJ Ring Type Joint
RF Raised Face

Ratings

150 150#
300 300#
600 600#
900 900#
1500 1500#
2500 2500#

Vent & Instrument

Size

8 1/4"
10 3/8"
15 1/2"
20 3/4"
25 1"

Connection Type

F Female NPT
M Male NPT
S Special Connection



NEEDLE VALVE

KN

SERIES

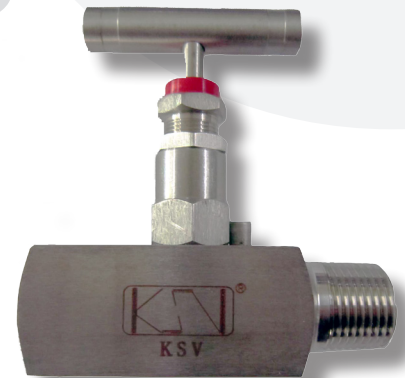
RELIABILITY
SUSTAINABILITY

Needle Valve

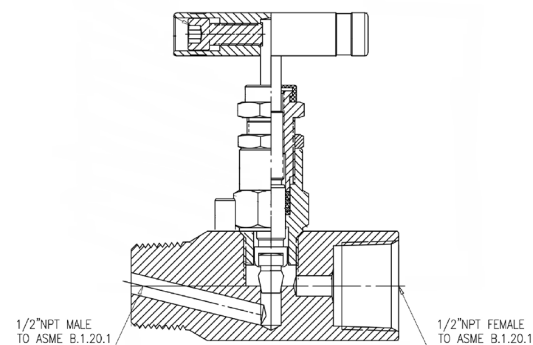
Our KN Series needle valves are mainly used in the Oil and Gas, Petrochemical industries. Manufactured to the highest standard, all KSV Needle valves comply to NACE MR0175. Our needle valve stem are blow-out proof to ensure safety of the operator during the unlikely event of tempering when the instrument line is live.

All needle valves are shipped with thread protection plastic cap to prevent damage on the thread during transit.

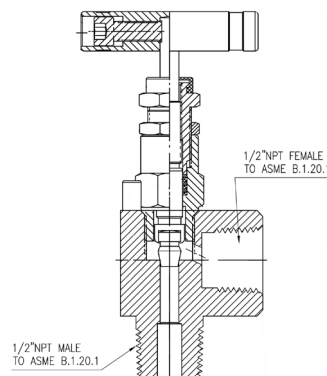
There are 3 main body configurations, Straight Through, Y-Type (45 degree angle between inlet/outlet) and Angle Type (90 degree angle between inlet/outlet). Pressure ratings ranges from 6,000psi up to 15,000psi with various options of end connections, ie. Male to Male, Female to Female, Male to Female.



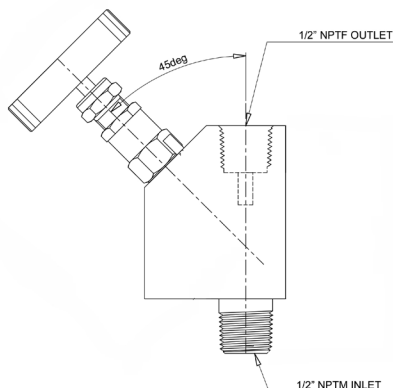
Model: Straight Through



Model: Type-P



Model: Type-Y



How To Order Needle Valve

	Series	Size	Model	End	Ratings	Material
Example	KN	15	P	M	R10	M02

ie. 1/2" P-type, Male to Female, 10,000psi, A182 F316 Body Needle valves

Series

KN	Single Block Needle Valve
----	---------------------------

Size

8	1/4"
15	1/2"
20	3/4"
25	1"

Model

P	Straight Through
Y	Angle Type
	Y-Type

End

M	Male x Female
F	Female x Female
B	Male x Male

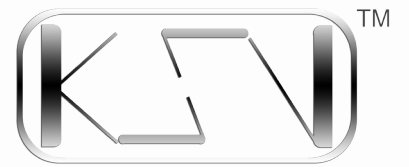
Ratings

6,000 psi	R06
10,000 psi	R10
15,000 psi	R15

Material

M02	A182 F316
M03	A182 F51
M04	A182 F53





Global Network Sustainable Engineering

RELIABILITY
SUSTAINABILITY