### Introduction

BMT (SUPERLOK®)'s response to the demand for reduction in leakage paths has been the combination of primary and secondary valves into one compact unit. The combining of piping and instrument valves into a single unit has benefitted various markets.

BMT (SUPERLOK®) can offer the special combination of double block and bleed valve systems together with fittings, both being designed and produced in-house. Choice of this combination results in the elimination of taper thread connections and the need for thread sealant.

### **Application & Installation**

BMT Block & Bleed Valves incorporate up to 3 ball valves or mixture of ball and needle design into a single valve unit. One compact unit reduces the need for Large, Complicated, Costly Multi-Valve Systems. Removing Connections between separate units result in fewer potential leak paths. A vent valve allows to check the integrity of seat seals and permits withdrawal of fluid leakage increasing safety and ease of maintenance.

#### Conventional Installation <1>

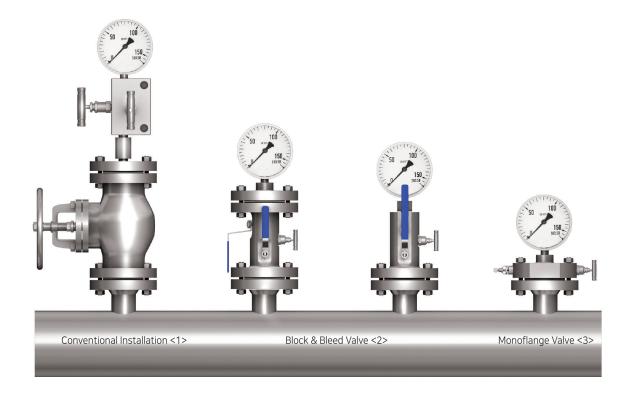
A welded flange, connected to a primary ANSI class isolating valve. The primary valve will be connected to a secondary instrument valve. A pressure gauge or transmitter will then be installed downstream of the instrument valve.

#### Block & Bleed Valve <2>

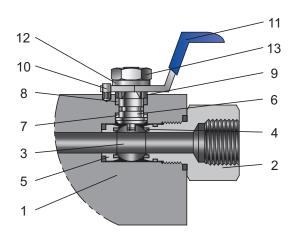
- A one-piece integral unit incorporating up to 3 ball valve or mixture of ball and needle design.
- Improved safety: leak paths reduced by up to 60%
- Reduced costs: installation and component costs reduced by up to 70%
- Reduced weight : by up to 80%
- Reduced susceptibility to problems caused by vibration.

#### Monoflange Valve <3>

- More compact then DBB valve, adding further space and weight saving possibilities.
- Improved safety: leak paths reduced by up to 60%, less susceptibility to vibration
- Reduced costs: installation and component costs saving up to 80%
- Reduced weight : up to 85%



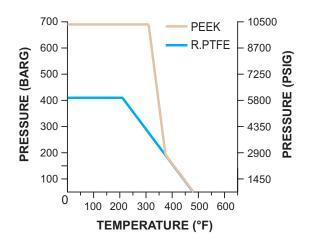
### **Ball Valve**



### **Materials of Construction**

		BODY MATERIAL				
COMPONENT		STAINLESS STEEL	CARBON STEEL	DUPLEX STAINLESS STEEL		
1	VALVE BODY	A182 F316	A350 LF2	A182 F51		
2	OULET CONNECTOR	A276 TP316	A350 LF2	A182 F51		
3	BALL	A479	S31803			
4	BALL SEAT	PTFE	/ ETC			
5	SEAT CAPSULE	A276	S31803			
6	STEM	A276 TP3	16, SS630	S31803		
7	LOWER STEM SEAL		PTFE			
8	UPPER STEM SEAL		GRAPHITE			
9	PACKING GLAND	A276	TP316	S31803		
10	STOP PIN	A276	S31803			
11	HANDLE	S	TAINLESS STEE	L		
12	STEM WASHER	STAINLESS STEEL				
13	STEM NUT	A194 8M				

### **Technical Information**



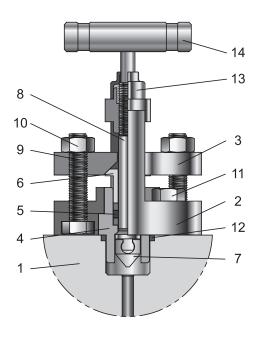
- 316 Stainless steel as standard.
- Pressure rating up to 10,000 psig (690bar).
- Temperature rating -71°F to 482°F (-57°C to 250°C).

#### **Design codes**

- ANSI / ASME B 16.34 Designed to meet the pressure and temperature requirements
- ANSI / ASME B 16.5 Flange dimensions
- ANSI / ASME B 1.20.1 National pipe threads
- API 607 / BS 6755 Fire safe designed

- One piece or two piece body design -minimize leakage paths.
- Ball seat choice of seat materials : PTFE (virgin or filled), PCTFE, PEEK, DEVLON
- End connector threads are fully isolated from process.
- Fully encapsulated ball seat.
- Superior finished ball for low operating torque.
- Floating ball design providing seat wear compensation.
- Anti static design as standard.
- Blowout proof stem design.
- Colour coded & function identified handle.
- Bore size : Full bore, Reducer bore
- Optional : handle locking available, NACE compliance.

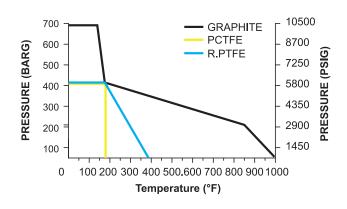
## Outside Screw and Yoke(OS&Y) Needle Valve



### **Materials of Construction**

		BODY MATERIAL				
COMPONENT		STAINLESS CARBON STEEL STEEL		DUPLEX STAINLESS STEEL		
1	VALVE BODY	A182 F316	A350 LF2	A182 F51		
2	OS & Y BONNET	A351 CF8M	A352 LCC	A182 F51		
3	GLAND FLANGE	A351 CF8M	A352 LCC	A182 F51		
4	INSERT	A276	S31803			
5	PACKING					
6	BUSHING	A276	A276 TP316			
7	VEE TIP		A564 TP630			
8	STEM	A276	TP316	S31803		
9	FLANGE BOLT	A193 B8M	A320 L7M			
10	FLANGE NUT	A194 8M	A194 Gr.7	A453 Gr.660		
11	BONNET BOLT	A193 B8M A320 L7M				
12	BONNET SEAL	GRAPHITE				
13	DUST CAP	NYLON				
14	BAR HANDLE	A276 TP316 S31803				

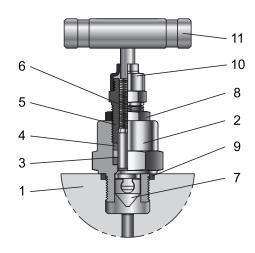
### **Technical Information**



- 316 Stainless steel as standard.
- Pressure rating up to 10,000 psig (690bar).
- Temperature rating -65°F to 1000°F (-54°C to 538°C).

- Externally adjustable gland.
- PTFE or Graphite packing for bubble tight sealing.
- Self centering crimped needle tip for bubble tight shut off and repeatability.
- Back seat design provides secondary stem sealing and prevents stem blow out.
- Colour coded close contact dust cap and function label for easy indentification.
- Bonnet seal ensure a bubble tight between body and bonnet.
- Stem threads are completely isolated from the process.
- Yoke of investment casting is precision casted for strength and perfect stem alignment.
- Bolted bonnet for strength.

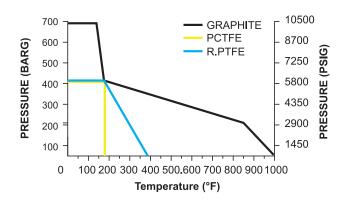
## **Globe Style Needle Valve**



### **Materials of Construction**

		BODY MATERIAL					
COMPONENT		STAINLESS STEEL	CARBON STEEL	DUPLEX STAINLESS STEEL			
1	BODY	A276 TP316	A350 LF2	A182 F51			
2	BONNET	A276 TP316	A350 LF2	A182 F51			
3	PACKING	GRAPHITE					
4	PACKING GLAND	A276	TP316	S31803			
5	PACKING BOLT	A276 TP316	A350 LF2	S31803			
6	STEM	A276	TP316	S31803			
7	VEE TIP		A564 TP630				
8	LOCK NUT	A276 TP316	A350 LF2	S31803			
9	BONNET SEAL	GRAPHITE					
10	DUST CAP	NYLON					
11	BAR HANDLE	A276 TP316 S31803					

### **Technical Information**



- 316 Stainless steel as standard.
- Pressure rating up to 10,000 psig (690bar).
- Temperature rating -65°F to 1000°F (-54°C to 538°C).

- Rolled stem operating threads for low torque operation.
- Gland packing in PTFE or Graphite for bubble tight sealing.
- Colour coded close contact dust cap and function label for easy identification.
- Self centering crimped needle tip for bubble tight seat sealing.
- Close contact dust cap for operating thread protection.
- Back seat design provides secondary stem sealing and prevents stem blowout.
- Stem threads are completely isolated from the process.
- Packing bolt with easy access.
- Lock nut for vibration protection.

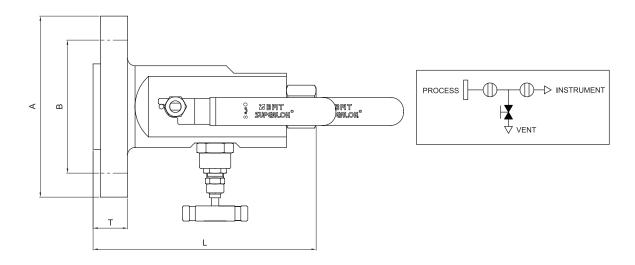
# **Block & Bleed Valves**

- ANSI /ASME B16.5 flanged inlet connections, sizes from 1/2" to 16", rated from Class 150 to 2,500.
- 1/2" to 1" F.NPT Thread outlet to ANSI/ASME B1.20.1(depending on bore size).
- 1/2" F.NPT Thread vent connection to ANSI/ASME B1.20.1
- Stainless steel as the standard body material. Optional materials include Super Duplex, Monel, Hastelloy, Inconel.
- Raised face and ring type joint flange styles.
- One-piece forged construction flange as standard.
- Fire safe designed (and tested) to meet BS 6755 Part 2/API 607.
- DBB & SBB Products meet the relevant code requirement of ASME VIII, ANSI /ASME B 16.34, B16.5, B31.3 and API 6D.
- Bubble tight shut off.
- locking and anti tamper devices for all valve types available option.
- Positive lever stop.
- User preferred handles.
- Permanent affixed reference label.



## **DB1 Series(Flange x FNPT)**

### **Table of Dimensions**



### (10mm BORE)

Size	Rating				
(inch)	(lb)	L (RF)	А	В	T(RF)
	150	470	90	60.3	11.6
4.10	300	170	95	66.7	14.7
1/2	600	177	95	66.7	21.3
(DN15)	900/1500	191	120	82.5	29.3
	2500	195	135	88.9	37.2
	150	170	100	69.8	13.2
2//	300	170	115	02.5	16.3
3/4 DN(20)	600	175	115	82.5	22.9
DN(20)	900/1500	190	130	88.9	32.4
	2500	195	140	95.2	38.8
	150	170	110	79.4	14.7
4	300		125	00.0	17.9
(DN25)	600	175	125	88.9	24.5
(DN25)	900/1500	190	150	101.6	35.6
	2500	205	160	108.0	42.0
	150	170	125	98.4	17.9
4.4/0	300	175	155	11 / 2	21.1
1-1/2	600	180	155	114.3	29.3
(DN40)	900/1500	190	180	124.0	38.8
	2500	210	205	146.1	51.5
	150	172	150	120.6	19.5
0	300	177	465	127.0	22.7
2	600	190	165	127.0	32.4
(DN50)	900/1500	202	202	165.1	45.1
	2500	213	213	171.5	57.9

<sup>-</sup> Dimensions and Drawings are for reference only and are subject to change without prior notice.

<sup>-</sup> Unless otherwise specified, all dimensions are in millimeters.

<sup>-</sup> Sizes, pressure classes, and end connections not listed are available upon request.

### **Table of Dimensions**

### (14mm BORE)

Size	Rating		Dimension				
(inch)	(lb)	L (RF)	Α	В	T(RF)		
	150	005	100	69.8	13.2		
2//	300	205	115	02.5	16.3		
3/4 DN(20)	600	210	115	82.5	22.9		
DN(20)	900/1500	225	130	88.9	32.4		
	2500	230	140	95.2	38.8		
	150	208	110	79.4	14.7		
1 (DN25)	300	208	125	00.0	17.9		
	600	218	125	88.9	24.5		
	900/1500	224	150	101.6	35.6		
	2500	227	160	108.0	42.0		
	150	208	125	98.4	17.9		
1.1/2	300	210	155	11/2	21.1		
1-1/2 (DN40)	600	218	155	114.3	29.3		
(DN40)	900/1500	224	180	124.0	38.8		
	2500	238	205	146.1	51.5		
	150	210	150	120.6	19.5		
2	300	218	165	127.0	22.7		
2 (DNEO)	600	224	165	127.0	32.4		
(DN50)	900/1500	238	215	165.1	45.1		
	2500	246	235	171.5	57.9		

### (20mm BORE)

Size	Rating		Dim	ension	
(inch)	(lb)	L (RF)	Α	В	T(RF)
	150	220	110	79.4	14.7
1	300	220	125	88.9	17.9
1	600	225	125	88.9	24.5
(DN25)	900/1500	250	150	101.6	35.6
	2500	255	160	108.0	42.0
	150	235	125	98.4	17.9
1 1 1 2	300	244	155	11/2	21.1
1-1/2 (DN40)	600		155	114.3	29.3
(DN40)	900/1500	251	180	124.0	38.8
	2500	265	205	146.1	51.5
	150	2//	150	120.6	19.5
2	300	244	165	127.0	22.7
2 (DN50)	600	251	165	127.0	32.4
	900/1500	265	215	165.1	45.1
	2500	273	235	171.5	57.9

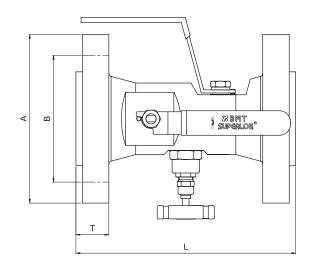
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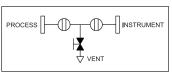
<sup>-</sup> Unless otherwise specified, all dimensions are in millimeters.

<sup>-</sup> Sizes, pressure classes, and end connections not listed are available upon request.

## DB2 Series(Flange x Flange)

### **Table of Dimensions**





### (10mm BORE)

Size	Rating		ension		
(inch)	(lb)	L (RF)	Α	В	T(RF)
	150	190	90	60.3	11.6
4.10	300	190	95	66.7	14.7
1/2 (DN15)	600	205	95	66.7	21.3
(DIV15)	900/1500	230	120	82.5	29.3
	2500	240	135	88.9	37.2
	150	190	100	69.8	13.2
2//	300	190	115	02.5	16.3
3/4 DN(20)	600	200	115	82.5	22.9
DIN(20)	900/1500	230	130	88.9	32.4
	2500	240	140	95.2	38.8
	150	190	110	79.4	14.7
1	300	190	125	00.0	17.9
(DN25)	600	200	125	88.9	24.5
(DN25)	900/1500	230	150	101.6	35.6
	2500	260	160	108.0	42.0
	150	190	125	98.4	17.9
1 1/2	300	200	155	114.3	21.1
1-1/2 (DN40)	600	210	155	114.5	29.3
(DN40)	900/1500	240	180	124.0	38.8
	2500	290	205	146.1	51.5
	150	190	150	120.6	19.5
2	300	200	165	127.0	22.7
2 (DN50)	600	230	165	127.0	32.4
(חנאום)	900/1500	280	215	165.1	45.1
	2500	305	235	171.5	57.9

<sup>-</sup> Dimensions and Drawings are for reference only and are subject to change without prior notice.

<sup>-</sup> Unless otherwise specified, all dimensions are in millimeters.

<sup>-</sup> Sizes, pressure classes, and end connections not listed are available upon request.

### **Table of Dimensions**

### (14mm BORE)

Size	Rating		Dimension		
(inch)	(lb)	L (RF)	Α	В	T(RF)
	150	220	100	69.8	13.2
2//	300		115	02.5	16.3
3/4 DN(20)	600	230	115	82.5	22.9
DN(20)	900/1500	260	130	88.9	32.4
	2500	270	140	95.2	38.8
	150	225	110	79.4	14.7
1	300	235	125	00.0	17.9
1 (5)105)	600	254	125	88.9	24.5
(DN25)	900/1500	267	150	101.6	35.6
	2500	273	160	108.0	42.0
	150	235	125	98.4	17.9
1.1/2	300	25/	155	11/2	21.1
1-1/2 (DN40)	600	254	155	114.3	29.3
(DN40)	900/1500	267	180	124.0	38.8
	2500	334	205	146.1	51.5
	150	25/	150	120.6	19.5
2	300	254	165	127.0	22.7
2 (DN50)	600	267	165	127.0	32.4
(טפאום)	900/1500	334	215	165.1	45.1
	2500	334	235	171.5	57.9

### (20mm BORE)

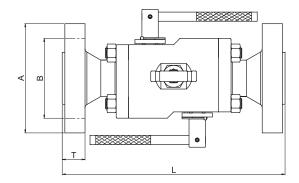
Size	Rating		Dim	ension	
(inch)	(lb)	L (RF)	А	В	T(RF)
	150	250	110	79.4	14.7
1	300	260	125	00.0	17.9
(DN25)	600	280	125	88.9	24.5
(DIN25)	900/1500	360	150	101.6	35.6
	2500	410	160	108.0	42.0
	150	235	125	98.4	17.9
1 1/2	300	254	155	114.3	21.1
1-1/2 (DN40)	600		155	114.5	29.3
(DN40)	900/1500	268	180	124.0	38.8
	2500	334	205	146.1	51.5
	150	254	150	120.6	19.5
2	300	254	165	127.0	22.7
2 (DN50)	600	173	165	127.0	32.4
	900/1500	227	215	165.1	45.1
	2500	334	235	171.5	57.9

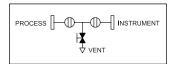
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<sup>-</sup> Unless otherwise specified, all dimensions are in millimeters.

<sup>-</sup> Sizes, pressure classes, and end connections not listed are available upon request.

### **Table of Dimensions**





### (REDUCED BORE)

-				Dimension				
Size (inch)	Bore	Rating (lb)	RF F	ange	RTJ F	lange		D
(IIICII)		(ID)	L	Т	L	Т	Α	В
		150	270	17.9	280	22.7	125	98.4
4.4/0		300	290	21.1	300	25.9	155	11/2
1-1/2 (DN40)	25.4	600	310	29.3	330	30.3	155	114.3
(DN40)		900/1500	400	38.8	350	39.8	180	124.0
		2500	400	51.5	400	52.5	205	146.1
		150	370	19.5	390	24.3	150	120.6
0		300	380	22.7	400	27.5	405	107.0
(DNEO)	38.1	600	400	32.4	410	33.4	165	127.0
(DN50)		900/1500	490	45.1	450	46.1	215	165.1
	2500	490	57.9	490	58.9	235	171.5	
3 (DN80) 50.8	150	530	24.3	540	29.1	190	152.4	
	50.8	300	540	29.0	550	33.8	240	160.1
		600	560	38.8	560	39.9	210	168.1

### (FULL BORE)

Size (inch)	Bore	Rating (lb)	RF F	ange	RTJ Flange		Δ.	В
(IIICII)		(ID)	L	Т	L	T	Α	В
		150	270	14.7	280	19.5	110	79.4
1		300	280	17.9	290	22.7	125	00.0
ı	25.4	600	300	24.5	300	25.5	125	88.9
(DN25)		900/1500	410	35.6	350	36.6	150	101.6
		2500	370	42.0	370	43.0	160	108.0
		150	340	17.9	380	22.7	125	98.4
4.4/0		300	380	21.1	410	25.9	155	11/2
1-1/2	38.1	600	405	29.3	410	30.3	155	114.3
(DN40)		900/1500	430	38.8	430	39.8	180	124.0
		2500	470	51.5	470	52.5	205	146.1
		150	350	19.5	470	24.3	150	120.6
2	F0.0	300	400	22.7	480	27.5	165	127.0
(DN50)	50.8	600	430	32.4	490	33.4	165	127.0
		900/1500	520	45.1	510	46.1	215	165.1

<sup>-</sup> Dimensions and Drawings are for reference only and are subject to change without prior notice.

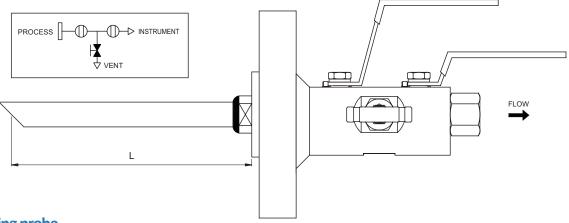
<sup>-</sup> Unless otherwise specified, all dimensions are in millimeters.

<sup>-</sup> Sizes, pressure classes, and end connections not listed are available upon request.

### **OPTIONS**

## **Sampling Valve**

This manifold is designed to replace conventional multiple-valve installations where sampling of the process stream is required. This design has been developed to remove a sample directly from the process stream at full system pressure.



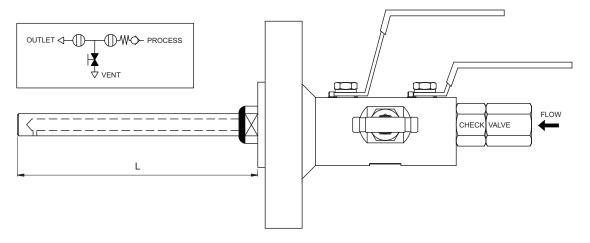
### Sampling probe

The probe length must be specified from the raised face to the end of the probe.

Probes are supplied to suit the insertion length required by the pipeline and thus must be specified by the customer

## **Chemical Injection Valve**

This manifold is designed to replace conventional multiple-valve installations where injection into the process stream is required. This design has been developed to inject directly into the process stream at full system pressure.



### **Injection quill**

The quill length must be specified from the raised face to the end of the probe in mm.

Quill length shall be decided in consideration of injection insert length in the pipeline and customer's request.

#### Non return check valve

This poppet type spring return valve has a viton soft seal (SUPERLOK standard)

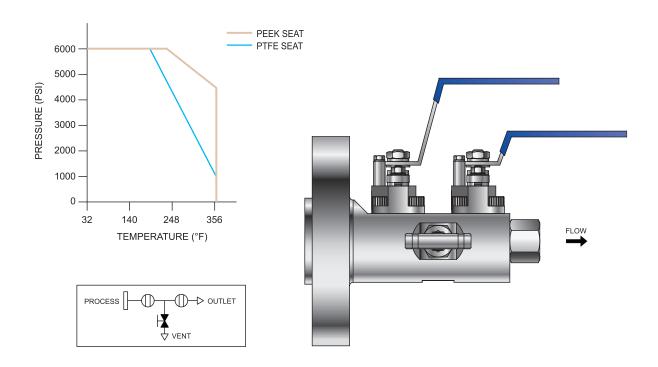
## **Fugitive Emission**

ISO 15848 parts 1&2 (defining a classification system and qualification procedures, and production acceptance test of industrial valves, respectively) specify new ultra low standards for emissions, which effectively set a requirement for zero emissions for processes involving volatile air pollutants and hazardous fluids. This design has been developed to minimise fugitive emissions. This standard is becoming the requirement for oil and gas and petrochemical organizations worldwide.

The standard was originally created for process valves and control valves but is now being also applied to Instrument valves which include primary isolation valves, especially on environmentally sensitive projects. Meeting these low levels is a challenge, which BMT has solved with the new ball and needle valve designs used in these DBB valves and mono flanges.

### **Valve Specification**

- Tightness class A >1 x 10-6 mg.s-1.m-1.
- Maximum cold working pressure rating 6,000 psig.
- Temperature rating -50°C to 180°C (-58°F to 356°F)
- ISO15848-1 prototype tested using global helium vacuum method.



## **Cryogenic Service**

Valves can be designed for cryogenic service.

Please refer to Block & Bleed Valves for Cryogenic Service from "Cryogenic Valve catalog" (page 240 and 241).

## **Ordering Information**

Example 1: 
$$\frac{DB}{1} \frac{2}{2} \frac{1}{3} \frac{1}{4} - \frac{R8C}{56} - \frac{B111}{7} - \frac{LF2}{8}$$

#### 1. Valves

- □ **SB** = Single Block & Bleed Valve
- □ **DB** = Double Block & Bleed Valve
- □ **CSB** = Single Block & Bleed Valve for Cryogenic Service
- □ CDB = Double Block & Bleed Valve for Cryogenic Service

#### 2. Valve Type

- □ 1 = Flange x FNPT
- $\Box$  **7** = BW x FNPT
- □ 2 = Flange x Flange
- □ 8 = Pipe x Flange
- $\square$  3 = MNPT x FNPT  $\square$  **4** = FNPT x FNPT
- □ 9 = MNPT x Flange □ **0** = SW x SW
- □ 5 = Pipe x FNPT
- $\Box$  **B** = BW x BW
- □ 6 = SW x FNPT

#### 4. Bore Size (mm)

- □ **1** = 14mm
- $\Box$  (Blank) = 10mm(Standard)  $\Box$  5 = 38mm  $\Box$  10 = 125mm □ **15** = 335mm □ **16** = 385mm □ **6** = 50mm □ **11** = 150mm

 $\Box$  64 = 4"

□ **80** = 5"

□ **96** = 6"

□ **128** = 8"

□ **160** = 10"

□ **192** = 12"

□ **224** = 14"

 $\Box$  **256** = 16"

- □ **2** = 20mm
- □ **7** = 65mm □ **12** = 200mm

□ **48** = 3"

- □ **3** = 25mm □ **4** = 32mm
- □ **8** = 80mm □ **13** = 250mm □ **9** = 100mm □ **14** = 300mm

#### 5. Connection Size

J. Confidencial Size		
		□ <b>4</b> = 1/4"
□ <b>R</b> = Raised Face		□ <b>6</b> = 3/8"
□ J = Ring Type Joint		□ <b>8</b> = 1/2"
□ F = Flat Face Flange		•
□ <b>AF</b> = API-6B Type		$\Box$ <b>12</b> = 3/4"
,,	+	□ 16 = 1"
□ <b>SA</b> = SAE J518 Flange	'	□ <b>24</b> = 1-1/2"
□ IS = ISO 6164 Flange		•
□ <b>JF</b> = JIS Flange		□ <b>32</b> = 2"
□ Jr - Ji3 i lalige		□ <b>/10 – 2</b> "

7. Option + Trim + Seat + O-Ring\*

#### 3. Valve Series

Туре	Designator	1st ISOLATE	2st ISOLATE	VENT		
	1			NEEDLE		
	2	BALL		0S & Y		
SINGLE	3			BALL		
BLOCK TYPE	4	NEEDLE	_	NEEDLE		
ITE	5	0C 0 V				
	6	OS & Y		0S & Y		
	1		BALL	NEEDLE		
	2	BALL		OS & Y		
501151 5	3			BALL		
DOUBLE BLOCK	4	NEEDLE	NEEDLE	NEEDLE		
TYPE	5	0S & Y	0S & Y	NEEDLE		
11112	6	U5 & Y	05 & 1	0S & Y		
	7	TR BALL	TDDALL	NEEDLE		
	8	IN BALL	TR BALL	0S & Y		
*A		FUGITIVE EMISSION CL-A				
*B		FUGITIVE EMISSION CL-B				

<sup>\*</sup> Add designator "A" or "B" as a suffix to the Valve Series designator for Fugitive Emission. (Example: SB11A1-R8A8-D111-AB)

#### 6. Pressure Class

□ <b>A</b> = CL150	□ <b>G</b> = 2000psi
□ <b>B</b> = CL300	☐ H = 3000psi
□ <b>C</b> = CL600	□ I = 5000psi
□ <b>D</b> = CL900	□ J = 10000ps
E 014500	

- □ **E** = CL1500 □ **F** = CL2500 □ **S** = CL800

#### 8. Body Material

- □ *(Blank)* = SS316 □ **304** = SS304 □ **36L** = SS316L □ **34L** = SS304L □ **15** = A105 □ **LF2** = A350 LF2 □ **F51** = A182 F51
- ☐ **M40** = MONEL 400 □ **AB**= AL BRONZE
- □ **625** = INCONEL 625

Option		Trim		Seat		O-Ring	
Туре	Designator	Туре	Designator	Туре	Designator	Туре	Designator
Fire Safety	Α	Same material as Body	0	PTFE	0	NBR	0
Sampling Probe	В	SS316	1	R.PTFE+Glass	1	VITON	1
Chemical Injection	С	CF8M	2	R.PTFE+Carbon	2	EPDM	2
Locking Device	D	SS316L	3	PEEK	3	KALREZ	3
Anti Tamper Key	E	SS304	4	PCTFE	4	CR	4
Metal Seat	Н	A105 + ENP	5	POM	5	SILICON	5
Gear Actuator	G	A105 + CR	6	DEVLON-V	6	NBR (AED)	6
Weld Overlay	M	MONEL 400	7	DELIN	7	VITON (AED)	7
Lower Temp.	LT	316 + HF	8	METAL	8	HNBR	8
Vent Flange	V	DUPLEX	9	NYLON 6	9	Kalrez (AED)	9
Norsok	N	Inconel625	I			E985	Α
		SS 410	Υ			Lip-Seal	L
		F44	Α			E985	Α

<sup>\*</sup> No designator is required for standard configuration: Fire Safety (A), Trim is the same material as the body (0), PTFE Seat (0), and NBR O-ring (0)