

INTEGRAL BLOCK & BLEED VALVES





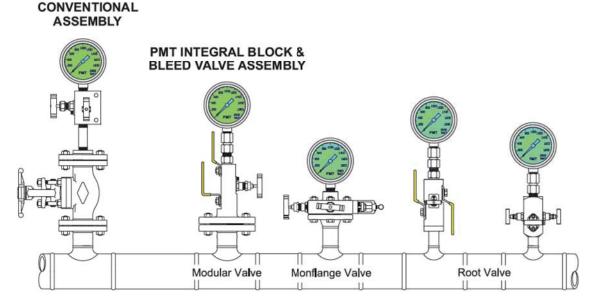
APPLICATION & INSTALLATION

Conventional Installation

 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 Type

- A one-piece integral forging incorporating up 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.



Modular Manifold

Ball and Globe style Needle Valves Flange and Threaded Connections Integrally Forged Body

Monoflange Manifold

Globe Style Needle Valves Flanged and Threaded Connections Slimline Integrally Forged Body

(02)

Features

- 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.
- · Raised face and ring type joint flange styles.
- Optional materials include Super Duplex, Monel, Hastelloy, Inconel.

Advantages

- More compact design
- Reduced weight
- · Reduced height
- Reduced leakage points

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- Reduced effect of system vibration
- · Supporting brackets are not required

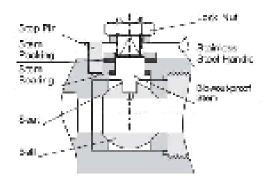


Ball and Globe Style Needle Valves Weld or Threaded Connections Direct Connection to the Vessel Integrally Forged Body

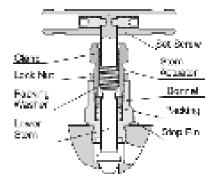
Applications

- Double block and bleed instrument isolation
- Gauge isolation
- Instrument drain
- Chemical injection connection
- Sample connections
- · Chemical seal instrument isolation
- · Piping / instrument interface
- · Direct mounting of insturments
- · Remote mounting of instruments
- T: 713.645.2100 E: sales@tvi-i.com Web: tvi-i.com

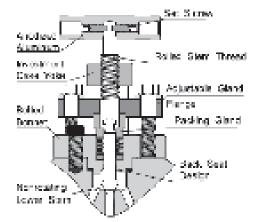
Ball Valve Design



Needle Valve Design



OS&Y Bonnet Design



Features

- * One piece of two piece body design -minimize leakage paths.
- Ball seat choice of seat materials : PTEE , PEEK.
- Fully encapsulated ball seat.
- Superior finished ball for low operating torque.
- Eloating ball design providing seat wear compensation.
- Anti static design as standard.
- Blowout proof stem design.
- Optional : handle looking available.
- 316 Stainless steel as standard materials.
- Pressure rating up to 10,000 psig (690bar).
- Temperature rating -71°E to 482°E (-57°C to 250°C).

Features

- Rolled stem operating threads for low torque operation.
- Gland packing in PTFE or Graphite for bubble tight scaling.
- Close contact dust cap for operating thread protection.
- Back seal design provides secondary stem sealing.
- Stem threads are completely isolated from the process.
- Packing bolt with easy access.
- Look nut for vibration protection.
- 316 Stainless steel as standard materials.
- Pressure rating up to 10,000 psig (690bar).
- Temperature rating -65°F to 1000°F (-64°C to 638°C).

Features

- Externally adjustable gland.
- PTFE or Graphite packing for bubble tight sealing.
- 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.
- Bolted bonnet for strength.
- 316 Stainless skeel as standard materials.
- Pressure rating up to 6,000 psig (413bar).
- Temperature rating -65°F to 1000°F (-64°C to 638°C).

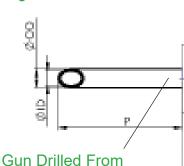
Custom Configurations

TVI process interface valves and process monoflanges can be configuredo suit a variety of special applications. In addition to double block and bleed assemblies, single block and block and bleed combinations are available. Block and bleed globe valve module options are also available for all configurations.

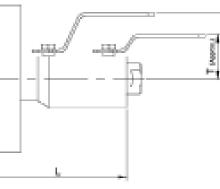
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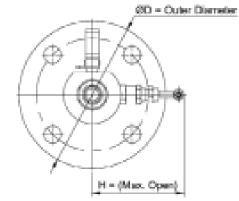
(03)

Injection Quill DBB



Solid Bar - No Welding





Probe Dims

OD

ID

JSER SPECIFIED

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F

Т

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T1

NA

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4.3

7.3

7.2

7.3

7.3

ANSI/ B16.34 Raised Face Design - 10mm Ball RTJ Design - 10mm Ball Flange Press D Η Т T1 D Η Size Class 1/2" 150 NA 3.5 4.0 2.8 4.3 7.0 NA NA 1/2" 4.3 7.1 3.75 300 3.75 40. 2.8 4.0 1/2" 600 4.0 2.8 4.3 7.3 3.75 4.0 2.8 3.75 1/2" 2.8 4.3 7.7 2.8 900/1500 4.75 4.0 4.75 4.0 1/23/4 3/4 3/4 3/4 3/4

2.8

2.8

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4.3

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4.0

172	000/1000	1.70	1.0	2.0	1.0	1.1	1.70	1.0	2.0	1.0	1.0	, I	
1/2"	2500	5.25	4.0	2.8	4.3	8.0	5.25	4.0	2.8	4.3	8.0		
3/4"	150	3.88	4.0	2.8	4.3	7.0	NA	NA	NA	NA	NA		
3/4"	300	4.62	4.0	2.8	4.3	7.1	4.62	4.0	2.8	4.3	7.3		
3/4"	600	4.62	4.0	2.8	4.3	7.4	4.62	4.0	2.8	4.3	7.4		
3/4"	900/1500	5.12	4.0	2.8	4.3	7.8	5.12	4.0	2.8	4.3	7.8		
3/4"	2500	5.50	4.0	2.8	4.3	8.0	5.50	4.0	2.8	4.3	8.0		
1.0"	150	4.25	4.0	2.8	4.3	7.1	4.25	4.0	2.8	4.3	7.3		
1.0"	300	4.88	4.0	2.8	4.3	7.2	4.88	4.0	2.8	4.3	7.4	CIFIE	PECIFIED
1.0"	600	4.88	4.0	2.8	4.3	7.5	4.88	4.0	2.8	4.3	7.5	ш	ECI
1.0"	900/1500	5.88	4.0	2.8	4.3	7.9	5.88	4.0	2.8	4.3	7.9	SP	S
1.0"	2500	6.25	4.0	2.8	4.3	8.2	6.25	4.0	2.8	4.3	8.2	SER	SER
1.5"	150	5.00	4.0	2.8	4.3	7.2	5.00	4.0	2.8	4.3	7.4	ő	ISU
1.5"	300	6.12	4.0	2.8	4.3	7.3	6.12	4.0	2.8	4.3	7.5		
1.5"	600	6.12	4.0	2.8	4.3	7.7	6.12	4.0	2.8	4.3	7.7		
1.5"	900/1500	7.00	4.0	2.8	4.3	8.0	7.00	4.0	2.8	4.3	8.0		

8.5

7.3

7.4

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6.00

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8.3

8.8

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2500

150

300

600

2500

900/1500

8.00

6.00

6.50

6.50

8.50

9.25

1.5"

2.0"

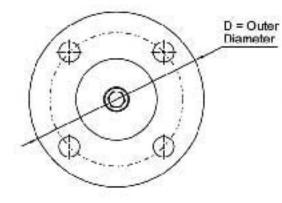
2.0"

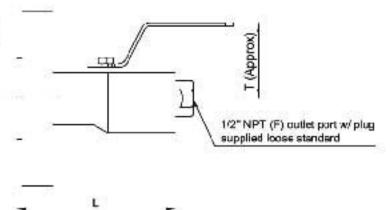
2.0"

2.0"

2.0"

10mm Ball Valve - Single Flange





10mm Std Single Block

Units: Inches

ANSI/	B16.34	Raised Fac	ce Design -	10mm Ball	RTJ D	esign - 10m	m Ball
⁻ lange Size	Press Class	D	Т	L	D	Н	Т
1/2*	160	3.60	2.5	4.1	N/A	N/A	N/A
1/2"	300	3.75	2.5	4.1	3.75	2.5	4.1
1/2*	600	3.75	2.5	4.3	3.75	2.5	4.3
1/2*	900/1600	4.75	2.5	4.7	4.75	2.5	4.7
1/2*	2500	6.25	2.5	5.1	5.25	2.5	5.1
3.44"	150	3.68	2.5	4.1	N/A.	N/A	N/A
3,47*	300	4.62	Z.5	4.1	4.82	2.5	4.1
347	600	4.62	2.5	4.5	4.52	2.5	4.5
347	900/1500	5.12	2.5	4.9	5.12	2.5	4.9
3/4"	2500	6.60	2.5	5.1	5.50	2.5	5.1
1"	150	4.25	2.5	4.1	4.25	2.5	4.1
1"	300	4.68	2.5	4.1	4.88	2.5	4.1
1"	600	4.88	2.5	4.5	4.88	2.5	4.5
1"	900/1500	5.68	2.5	4.9	5.88	2.5	4.9
17	2500	6.25	2.5	5.1	6.25	2.5	5.1
1-1/2"	150	5.00	2.5	43	5.00	2.5	4.3
1-1/2*	300	6.12	2.5	4.3	6.12	2.5	4.3
1-1/2*	600	6.12	2.5	4.7	6.12	2.5	4.7
1-1/2*	900/1500	7.00	2.5	5.1	7.00	2.5	5.1
1-1/2"	2500	8.00	2.5	5.9	8.00	2.5	5.9
2"	150	6.00	2.5	4.3	6.00	2.5	4.3
z	300	6.50	2.5	4.5	6.50	2.5	4.5
2"	600	6.50	2.5	4.9	6.50	2.5	4.9
Z'	900/1500	8.50	2.5	5.3	8.50	2.5	5.3
Z'	2500	9.25	2.5	5.9	9.25	2.5	5.8

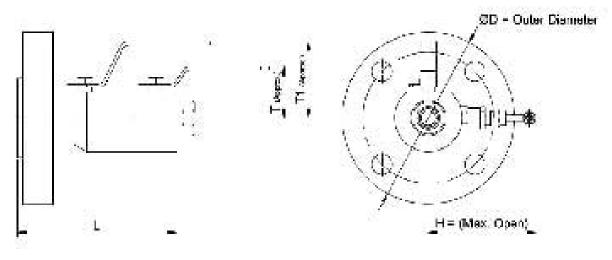
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10mm Std Single Block

Units: Inches

ANSI/	B16.34		RF Design	- 10mm Bal			RTJ Design	- 10mm Ba	
Flange Size	Press Class	D	H*	Т	L	D	H*	Т	L
101	- 54	2,90	4.0	2.8	1.1	NP/5	M/A	NVA .	NW
16	304	2,75	4.0	2.1	- 64	2,75	4.4	2.8	- C.
1(2)	600	2.78	4.0	2.8	7.5	5.76	4.0	2.8	7.5
12	900°-630	4.76	4.0	2.5	7.7	6.76	4.0	2.6	-32
172*	2500	5.25	4.0	2,3	1.9	5.25	4.0	2.5	1.9
347	161	2,30	40	2.8	7.0	HPA .	NA.	NV4	46
8 9 2	301	4.02	40	2,3	7.1	1.92	4,0	2.3	7.8
2411	600	1.62	40	5.8	7,4	4.62	4.0	2.3	7.4
241	P00/1500	8.2	40	2.8	Τ.5	5 Z	40	2,8	7.5
:41	14500	n ati	44	3.4	P.D .	8.80	40	2.8	8.5
12	150	4.25	4.0	2.4	2.1	1.25	4.0	2.4	7.2
15	300	4.88	4.0	2.4	7,2	4.33	40	2.4	7.4
17	600	4.88	4.0	3 d	2.5	4.68	4.0	3.4	1/15
17	500/1600	5.88	40	2.8	7.9	3 181	40	5.4	2.4
35	2500	0.25	4.0	2.8	5,2	ð 26	40	2.8	5.2
1-1/27	150	5.00	4.0	2.3	7.2	3.06	40	2.3	7,4
1-62*	370	6.12	4 Q.	2.0	7.3	6.12	4.0	2.8	7.5
5.61	670	6.12	40	2.8	7.7	6.12	40	2.8	2.7
1462	2001500	7.04	3.0	2.8	E.d.	7.00	4.0	2.3	5.4
1-1-7	2900	4.00	3.0	2.0	5.5	3.00	4.0	2.0	5.6
27	150	e.00	4.0	2.8	1.8	6.00	4.0	2.6	7.5
20	200	4.50	4.0	2.8	2.4	4.50	4.0	2.0	1.6
٤*	600	6.50	4.0	2.8	7.8	6.50	4.0	2.6	7.4
2	3001500	8.60	4.C	2.8	4.3	4.60	4.0	2.8	5.4
2	2000	9.25	4.0	2.6	3.6	9.25	4.0	2.6	8.8

BLOCK & BLEED VALVES 10mm Double Ball Valve & Needle Bleed - Single Flange



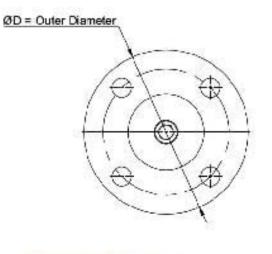
10mm Std Single Block

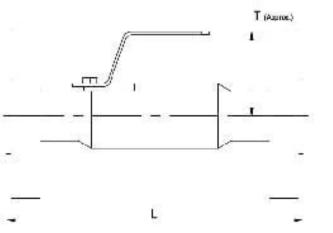
Units: Inches

ANSI/	B16.34		RF De	sign - 10n	nm Ball			RTJ De	esign - 10	Omm Ball	
Flange Size	Press Class	D	H*	Т	Т	L	D	H*	Т	T1	L
1/2*	150	3.50	4.0	2.8	4.5	7.0	A.F.	N/A:	: N/A	NW .	114
1.2*	500	3.75	4.0	2.8	4.3	7.1	8.76	4.0	2.8	43	7.2
1/2*	696	3.71	4.0	2.8	43	7.2	8,76	4.0	2.0	4.3	7.3
1.2*	900/1500	4.70	4.0	2.6	4.3	7.7	4.70	4.0	2.0	4.3	T T
1/2*	2900	5.25	4.0	2.8	43	8.6	6.26	4.0	2.%	4.3	B, D
84"	156	3.66	4.0	2.0	4.3	7.6	30%	N/A	N/A	200	19
84*	200	4.62	4.0	2.8	4.3	7.1	4.62	4.6	2.0	43	7.3
84"	600	4.62	4,0	2.8	4.3	7.4	4.62	4.0	2.8	4.3	7,4
84*	900(1500	5.12	4.0	2.8	43	7.8	6.12	4.0	2.%	4.3	7.8
84"	2000	5.50	4.0	2.8	4.3	0.0	6.60	6.0	2.0	4.2	9.0
12263	156	4.25	4.0	2.8	43	7.1	4.25	4.0	2.0	43	7.3
22.5	306	4.85	4,0	2.8	4.3	7.2	4.88	4.0	2.8	4.3	7.4
	610	4.38	4.0	2.8	43	$\tau_{\mathcal{L}}$	4.69	4,0	2.6	4.3	7.6
-1	300-1500	5.36	4.0	2.8	4.2	7.8	6.99	4.0	2.0	4.2	7.9
1.1	2500	6.25	4.0	2.8	43	8.2	6.25	4.0	2.0	4.3	8.2
1422	- 30	5.00	4.0	2.8	4.3	T 2	0.00	4.0	2.8	4.3	7.6
1.107	300	6.12	4.0	2.8	4.3	7.5	6.12	4.0	2.8	4.3	7.5
112	600	6.12	4.0	2.8	4.3	7.7	6.12	4.0	2.8	43	7.7
1-121	8009.500	7.00	4.0	2.0	4.3	26	7.00	4.0	2.0	4.3	80
1402	2500	8.00	4.0	2.8	4.3	8.6	8.00	4.0	2.6	4.3	- 66
\mathcal{Q}^{*}	-50	6.00	4.0	2.0	4.3	7.3	6.00	4.0	2.0	4.3	7.5
\mathbf{Z}^*	330	8.50	4.0	2.5	4.3	74	6.50	4.0	2.0	43	7.6
7*	600	5.50	4.0	2.5	4.3	7.6	6 50	4.0	2.6	4.5	7.0
T^{*}	8004.508	8.50	4.0	2.9	4.3	8.5	9.60	4.0	2.9	4.3	8.8
Z*	2500	9.25	4.0	2.5	4.5	0.6	8.25	4.0	2.0	4.3	n.e.

BLOCK & BLEED VALVES





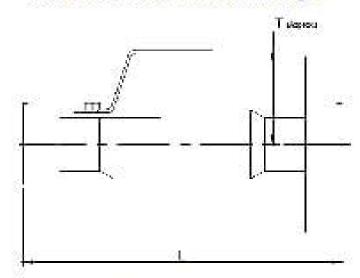


10mm Std Single Block

Units: Inches

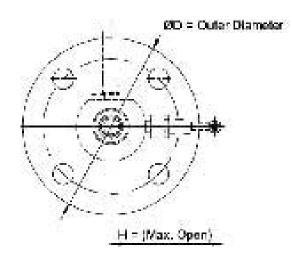
	ANSI/	B16.34	RF Doub	le Flange - ´	I0mm Ball	RTJ Doub	le Flange-	10mm Ball
	Flange Size	Press Class	D	Т	L	D	Н	Т
	1.2*	150	3.50	4.3	8.5	NA	NA	NA
5	1.2"	300	3.75	4.3	8.7	3.75	4.3	91
	1,2"	600	3.75	4.3	9.2	3.75	4.3	92
10	1.2"	900/1500	4.75	4.3	9.9	4.75	4.3	9.9
	1.2*	2500	5.25	4.3	10.5	5.25	4.3	10.5
	34*	150	3.63	4.3	6.6	NA	NA	NA
	34*	300	4.6Z	4.3	5.9	4.62	4.3	92
14	34*	600	4.62	4.3	9.4	4.62	4.3	9.4
	34"	900/1500	5.12	4.3	10.1	5.12	4.3	10.1
	34"	2500	5.60	4.3	10.6	5.50	4.3	10.6
33	17	150	4.25	4.3	8.7	4.25	4.3	91
	1"	300	4.83	4.3	0.0	4.8-8	4.3	9.4
	1"	600	4.83	4.3	8.5	4.88	4.3	9.5
	1"	900/1500	5.83	4.3	10.4	5.88	4.3	10.4
14	17	2500	6.25	4.3	10.9	6.25	4.3	10.9
	1-1/2"	150	5.00	4.3	9.0	5.00	4.3	94
	1-1/2"	300	6.12	4.3	9.2	6.12	4.3	9.6
	1-1/2*	600	6.12	4.3	99	6.12	4.3	99
	1-1/2"	900/1500	7.00	4.3	10.6	7.00	4.3	10.6
	1-1/2*	2500	8.00	4.3	11.6	8.00	4.3	11.7
	2*	150	6.00	4.3	9.1	6.00	4.3	95
	2"	300	6.60	4.3	9.4	6.50	4.3	9.9
	2*	600	6.50	4.3	10.1	6.50	4.3	10.2
	2"	900/1500	8.50	4.3	11.1	8.50	4.3	11.2
	2"	2500	9.25	4.3	12.1	9.25	4.3	12.2

10mm Ball Valve - Double Flange



10mm Std Block & Bleed





Units: Inches

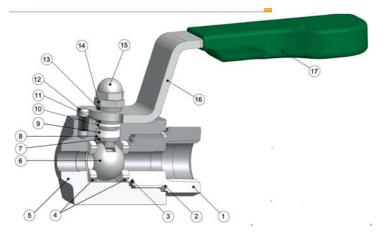
ANSI/	B16.34	RF Double Flange - 10mm Ball				RTJ Double Flange- 10mm Ball			
Flange Size	Press Class	D	H*	Т	L	D	H*	Т	L
1/2*	160	016	4.9	4.8	3.5	N/A	8.05	990	96
1/2*	300	9.76	4.0	4.8	3.7	3.75	4.0	4.3	9.1
12'	600	8.76	4.0	4.3	9.2	5,75	4.0	43	9.2
12'	500/1605	4.76	4.0	4.8	9.9	4.75	4.0	43	9.9
142	2500	6.26	4.4	4.8	10.5	5.25	4.9	4.3	10.6
24	160	8.58	4,4	4.8	4.8	386	B/A	2396	305
341	200	4.62	4.4	4.9	4.9	4.62	4.0	4.3	9.5
34	600	4.82	4.4	4.3	4.4	4.65	4.0	4.3	9.4
34	900/1500	5.12	4.4	4.3	10.1	5,75	4.0	4.3	- 20,1
341	2900	5,50	4.0	4.3	10.5	5.50	$\dot{\phi}(0)$	4.3	- 19/6
ii -	150	0.25	4.0	43	3.7	4,28	4.0	6.3	8.1
1	500	4,68	4.0	4.9	9.0	4.35	4.0	4.3	84
6	600	4.58	4.0	4.3	0.6	4.35	$\mathcal{L}(\mathbb{R})$	6.3	0.5
17	900/1503	5.66	4.0	4,8	10.4	5.38	4.5	4.2	154
. to	2000	6.25	4.0	4.3	10.9	6,25	4.0	4.3	10.9
1-1/2"	150	5.00	4.0	4.3	9.0	5.00	4.0	4.3	0.4
1-1/2°	\$00	6.12	4.0	4.3	9.2	6.12	4.0	4.3	5.6
1-162*	600	6.12	4.0	4.8	9.9	6.12	4.0	4.5	- 9.9
1-1/2	960(1500	1.40	4.0	4.3	10.6	7,01	4.D	4.5	10.8
14164	250.5	E.M.	4.0	4.3	11.6	4.04	(4.1)	4.5	71.5
z.	150	8.00	6.0	4.3	9.4	6.00	(-4, 0)	4.3	P. 5
5	300	5, 50	4.0	4.3	8.4	9.50	4.9	6.2	9.9
81	010	8.30	4.0	4.3	10.1	0.50	4.0	4.3	10 Z
2	8001570	3.30	4.0	4.3	11.1	3.50	4.0	6.3	11.2
2	2000	3.25	2.0	4.3	12.5	9.25	4.0	4.8	12.2

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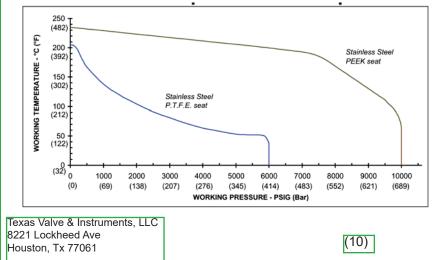
Houston, Tx 77061

Features

- Two piece body design minimal leakage paths
- 4:1 Pressure boundary designed safety factor
- Designed to comply with requirements of ANSI/ASME B16.34 where applicable
- Bi-directional
- PEEK and PTFE standard ball seat materials.
- PTFE and Graphoil gland packings
- Bubble tight shutoff
- Floating ball principal with dynamic response seats featuring inherent self relief
- Anti blowout stem
- Integral compression ends available eliminating taper threads and thread sealants
- Low torque operation
- Quarter turn positive stop handle with ergonomically designed protective sleeve
- Full hydrostatic and low pressure air tested
- Connector thread environmentally sealed
- Anti static
- Optional firesafe designed to meet API 607, BS6755 Pt2



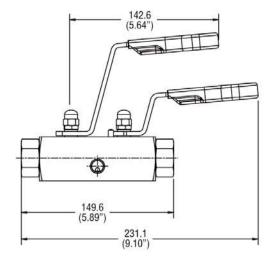
Temperature Performance

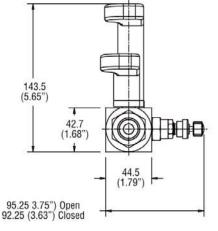




Part Legend

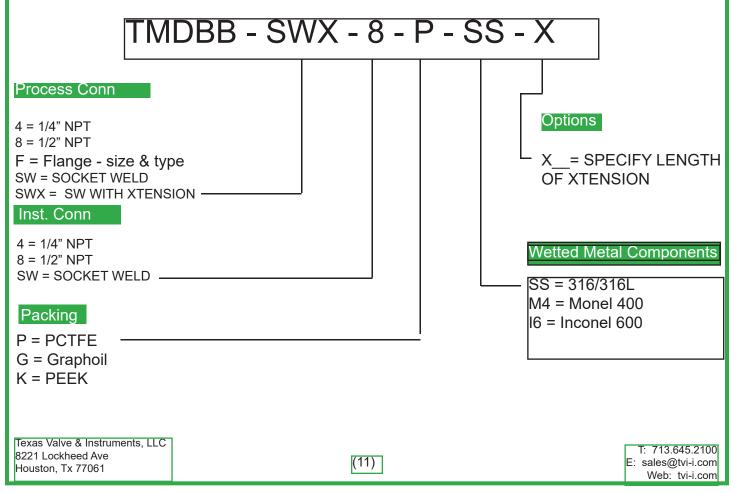
Item	Description
1	End Connector
2	Seal
3	Sealing washer
4	Seats
5	Body
6	Ball
7	Anti blowout stem
8	Thrust Seal
9	Gland packing
10	Upper gland packing
11	Thrust bush
12	Stop pin
13	Thrust bush
14	Lock nut
15	Locking dome nut
16	Handle
17	Handle grip





Odering Tree





MP DOUBLE BLOCK & BLEED





These are double block and bleed ball valves specifically design for chemical injection and drain line isolation of high pressure systems. They are panel mountable and require only a simple quarter turn to operate. They are available with up to 20,000 psig MAWP. They come standard with 316SS contruction and are available in Super Dupex 2507.

MP DOUBLE BLOCK & BLEED FEATURES:

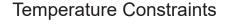
- 316 SS construction is standard Super Duplex 2507 & others available
- PEEK-carbon filled seats
- Full port construction
- FKM o-rings are standard; others available
- Single piece trunnion mounted stem
- Packing glands may be torqued
- Metal seated vent valve
- Robust stem handles

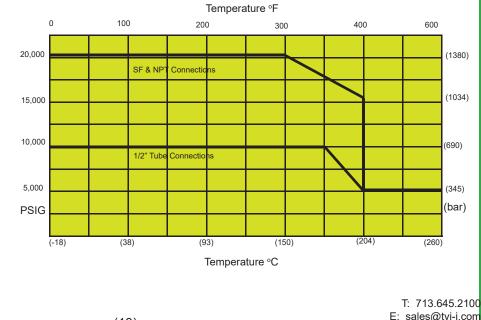
MP DOUBLE BLOCK & BLEED

General Performance Specifications:

End Connection	MAWP @ 70 ^o F psig (bar)	Orifice in(mm)
1/2" Tube	10,000 (690)	0.328 (8.33)
SF3750CX20	20,000 (1380)	0.203 (5.16)
SF5620CX20	20,000 (1380)	0.312 (7.92)
SF7500CX20	20,000 (1380)	0.328 (8.33)
SF1000CX20	20,000 (1380)	0.416 (10.57)
1/4"FNPT	20,000 (1380)	0.328 (8.33)
3/8" FNPT	20,000 (1380)	0.328 (8.33)
1/2" FNPT	20,000 (1380)	0.328 (8.33)
	Cv = 2.3	

Maximum Working Pressure@ 70°F



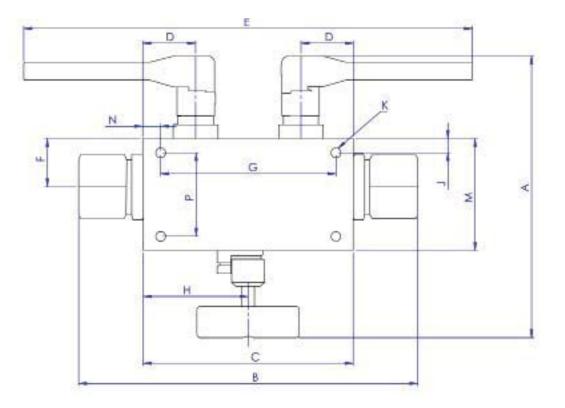


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MP DOUBLE BLOCK & BLEED

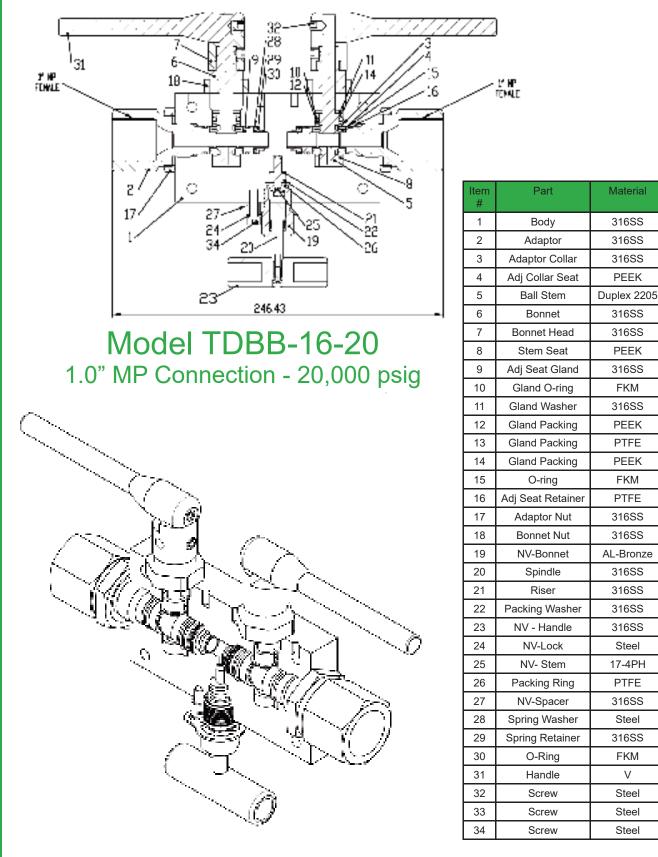
Basic Dimensions



Model TDBB Valve Dimension in (mm)				
A	7.17 (181.4)			
В	8.81 (223.8)			
	1" size- 9.7(246.4)			
С	6.00 (152.4)			
D	1.5 (38.1)			
E	12.94 (32.87)			
F	1.38 (34.9)			
G	5.00 (127.0)			
Н	3.00 (76.2)			
J	0.41 (10.3)			
K	0.28 (7.14)			
L	3.19 (81.0)			
М	2.38 (60.4)			
Ν	0.50 (12.7)			
Body Width	1.75 (44.5)			
Aprox Wt.	10.5 lb (23.1kg)			
(14	4)			

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MP DOUBLE BLOCK & BLEED



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Qty

1

2

4

4

2

2

2

2

2

2

2

2

2

2

8

8

2

2

1

1

1

2

1

1

1

1

1

4

2

2

2

4

1

1

316SS

316SS

316SS

PEEK

316SS

316SS

PEEK

316SS

FKM

316SS

PEEK

PTFE

PEEK

FKM

PTFE

316SS

316SS

316SS

316SS

316SS

316SS

Steel

PTFE

316SS

Steel

316SS

FKM

V

Steel

Steel

Steel

MP DOUBLE BLOCK & BLEED

Part

Body

Adaptor

Ball Stem

Bonnet

Stem Seat

Gland O-ring

O-ring

Adaptor Nut

Bonnet Nut

NV-Bonnet

Spindle

Riser

NV - Handle

NV-Lock

NV- Stem

NV-Spacer

O-Ring

Handle

Screw

Screw

Screw

Material

316SS

316SS

316SS

PEEK

Duplex 2205

316SS

316SS

PEEK

316SS

FKM

316SS

PEEK

PTFE

PEEK

FKM

PTFE

316SS

316SS

AL-Bronze

316SS

316SS

316SS

316SS

Steel

17-4PH

PTFE

316SS

Steel

316SS

FKM

V

Steel

Steel

Steel

Qty

1

2

4

4

2

2

2

2

2

2

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2

1

1

1

2

1

1

1

1

1

4

2

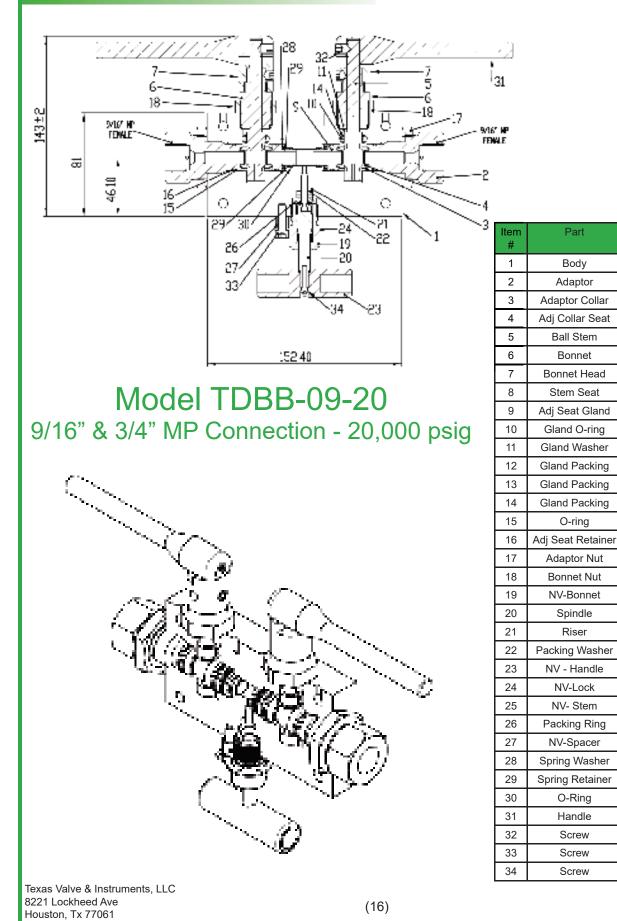
2

2

4

1

1



Houston, Tx 77061

MP DOUBLE BLOCK & BLEED

Material

316SS

316SS

316SS

PEEK

Duplex 2205

316SS

316SS

PEEK

316SS

FKM

316SS

PEEK

PTFE

PEEK

FKM

PTFE

316SS

316SS

AL-Bronze

316SS

316SS

316SS

316SS

Steel

17-4PH

PTFE

316SS

Steel

316SS FKM

V

Steel

Steel

Steel

Qty

1

2

4

4

2

2

2

2

2

2

2

2

2

2

8

8

2

2

1

1

1

2

1

1

1

1

1

4

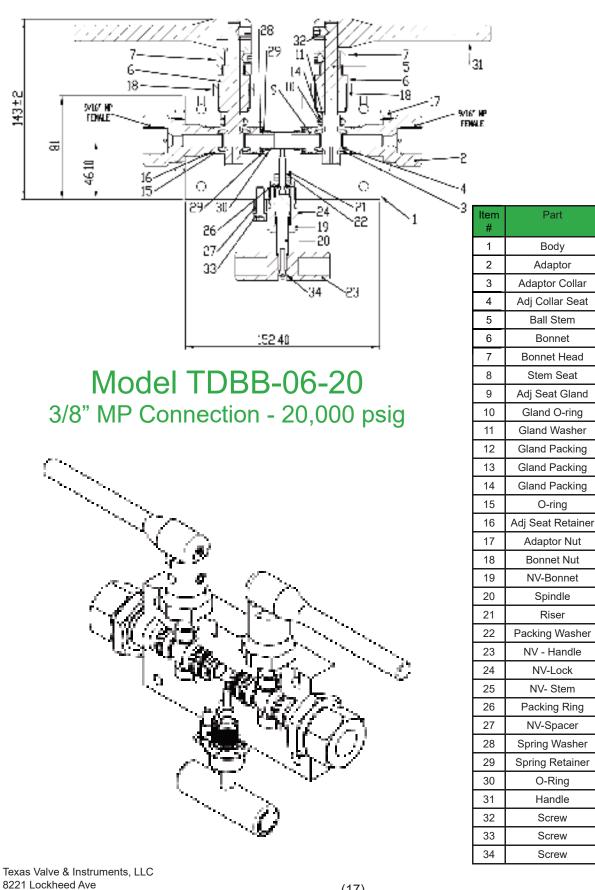
2

2

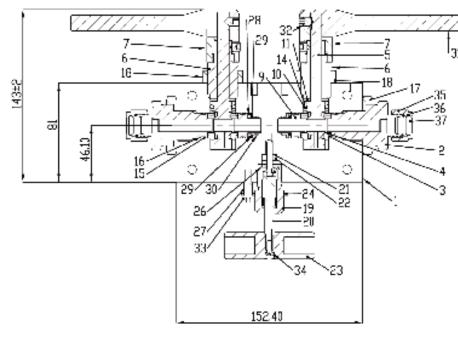
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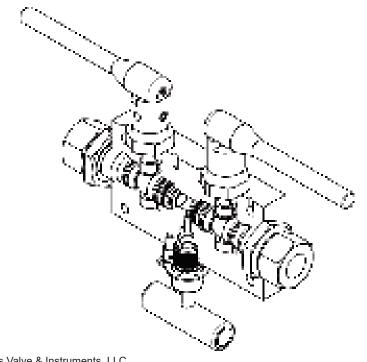
1



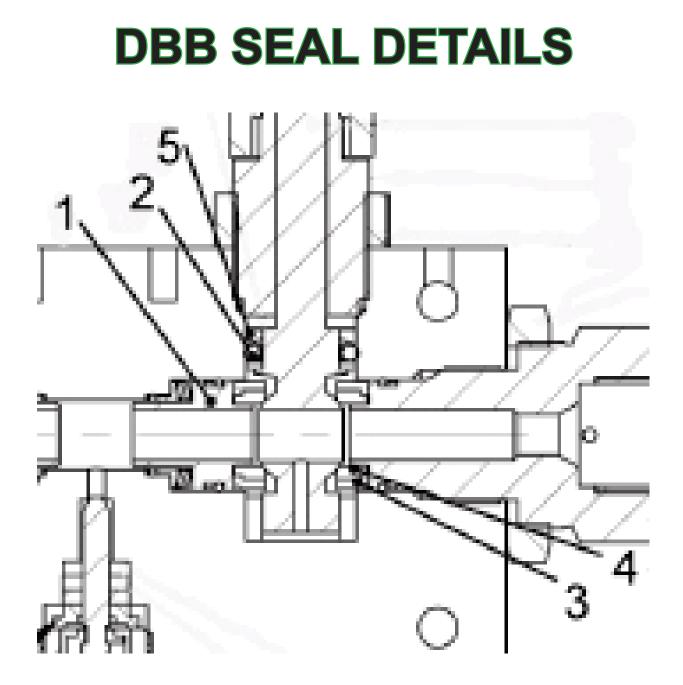
MP DOUBLE BLOCK & BLEED



Model TDBB-08-10 1/2" Tube Connection - 10,000 psig



Item #	Part	Material	Qty
1	Body	316SS	1
2	Adaptor	316SS	2
3	Adaptor Collar	316SS	4
4	Adj Collar Seat	PEEK	4
5	Ball Stem	Duplex 2205	2
6	Bonnet	316SS	2
7	Bonnet Head	316SS	2
8	Stem Seat	PEEK	2
9	Adj Seat Gland	316SS	2
10	Gland O-ring	FKM	2
11	Gland Washer	316SS	2
12	Gland Packing	PEEK	2
13	Gland Packing	PTFE	2
14	Gland Packing	PEEK	2
15	O-ring	FKM	8
16	Adj Seat Retainer	PTFE	8
17	Adaptor Nut	316SS	2
18	Bonnet Nut	316SS	2
19	NV-Bonnet	AL-Bronze	1
20	Spindle	316SS	1
21	Riser	316SS	1
22	Packing Washer	316SS	2
23	NV - Handle	316SS	1
24	NV-Lock	Steel	1
25	NV- Stem	17-4PH	1
26	Packing Ring	PTFE	1
27	NV-Spacer	316SS	1
28	Spring Washer	Steel	4
29	Spring Retainer	316SS	2
30	O-Ring	FKM	2
31	Handle	V	2
32	Screw	Steel	4
33	Screw	Steel	1
34	Screw	Steel	1
35	Nut	316SS	2
36	Front Ferrule	316SS	2
37	Back Ferrule	316SS	2



Item #	Part	Material
1	Adapter Seat Gland	316 SS
2	Gland O-ring	Viton
3	Adapter Collar	316 SS
4	Gland Packing	PEEK
5	Gland Washer	316 SS

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MP DOUBLE BLOCK & BLEED

