



SWI Valve Co., Ltd.

Reliable Performance In Extreme Conditions

www.swivalve.com

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We Manufacture Critical Service Valves for the Worlds Industries

SWI Global Footprint

Wherever industrial valves are needed in the world, SWI is nearby. We maintain strong partnerships with authorized stocking distributors on every continent. For your nearest authorized stocking distributor or representative, full contact details can be obtained from our web site: www.swivalve.com



Foreword

SWI Valve Co., Ltd. is a leading industrial valve manufacturing company, specializing in the design and manufacture of Ball, Gate, Globe, Check, Cryogenic and Bellows Seal valves.

Our facilities incorporate all aspects of valve design, development rarely encountered elsewhere.

At SWI, we stand for three values - quality, innovation and service. We know the worlds Oil, Chemical, Petrochemical and Process industries require precision flow control products. We have dedicated ourselves to supplying that need with an extensive range of industrial valves, manufactured in our own factories and designed for environmental sensitivity. The Quality Policy of SWI Valve Co., Ltd. is to consistently provide product that meets customer and applicable regulatory requirements, with the aim to enhance customer satisfaction by providing exactly what has been agreed contractually, to the required quality and time stated.

The company operates under the Quality Assurance Scheme which is in accordance with ISO 9001 and API Monogram.

We are pleased to introduce our range of High Integrity Floating Ball Valves and trust this catalogue will assist our customers in the selection and application of SWI product.



We Manufacture Critical Service Valves for the Worlds Industries



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Critical Service Valves for the Worlds Industries



INTRODUCTION

SWI Positive Isolation Block & Bleed Valves are designed to overcome the problems of traditional valve assemblies on primary isolation duty. By combining piping and instrument valves in a single assembly, they provide weight and space savings along with other benefits including reduced leakage and safer hook-up. This more compact and efficient arrangement reduces pipe work vibration and associated stress to provide the highest integrity and ideal configuration for many arduous applications.

MAJOR ACCREDITATION

- Quality Management ISO 9001/API Q1/KEPIC-MN
- Environment Management to ISO 14001
- Health & Safety Management to OHSAS 18001
- API6D Monogram, ISO 15848-1 & API 622
- PED 97/23/EC & ATEX 94/9/EC
- Fire Safety API 607 6th & ISO 10497 & API 6FA
- GOST-R & GAZPROM Accreditation
- CSA Approval (CRN all reigns)

MARKETS

- · Offshore Oil and Gas Production
- Gas & Oil Terminals
- Chemical & Petrochemical
- Compressor Manufacturers
- Fiscal Metering Skid Manufacturers
- Refining
- LNG Gas Carriers
- Process/Power Industry Contractors









TYPE APPROVAL CERTIFIC









CONVENTIONAL- BLOCK & BLEED VALVE

Disadvantages with conventional double block & bleed valve pressure taping based on multi-valve assembly;

- A huge amount of direct labor and site installation cost
- A terrific amount of space
- Potential Leak point 8
- · Susceptible to vibration stress failure
- · Local site support bracket required
- Induced bending moment acts on branch fitting weld.
- · 6 gasket and more than 24 bolting sets required

ADVANTAGES

Advantages gained by installing SWI Positive Isolation Block & Bleed valve;

- Reduced weight and minimize space envelope
- · Reduced the number of joints and potential leakage point
- Reduced effect of system vibration
- Supporting brackets are not required
- · Reduced bending moment acting on the vessel branch fitting weld
- Reduced installation/maintenance time & cost

PRODUCT SOLUTION

SWI Positive Isolation Block & Bleed valve products provide the ultimate solution with a compact range of one-piece forged body featuring a choice of end connections, body styles and advanced valve technology.

APPLICATIONS

- Pressure instrument take-off point
- Double Block & bleed Instrument Isolation
- Gauge isolation
- Drain for tanks and pipes
- High Pressure firesafe diverter
- Chemical injection connection
- Sample connection
- Piping/Instrument interface
- Direct mounting of instruments



Modular

- Ball and needle type globe valves
- Integrally Forged Body

Monoflange

- Needle type globe valves
- Flange and Threaded connections Flange and Threaded connections
 - Slim line Integrally Forged Body

Root Valves

- Ball and needle type globe valves
- Weld and Threaded connections
- Direct Connection to the Vessel



GENERAL SPECIFICATION

Design

ASME B16.34	Design & W
ASME B16.5	Flange Spe
ASME B1.20.1	National Pip
ASME Sec. VIII	Design Proc
API 607 / ISO 10497	Fire Testing
Directive 97/23/EC	PED & CE m

esign & Wall Thickness ange Specification ational Pipe Thread esign Procedures and Material re Testing ED & CE marking

Sour Service

Valves are available conforming to the requirements of the NACE specification MR 01-75 or MR 01-03 for use on applications where the presence of wet H₂S generates a risk of stress corrosion cracking. NACE compliance certificates are available on request.

Traceability

Valve Ratings

Valve Pressure & Temperature ratings are in accordance with ASME B16.34 and only limited by selected seat and seal materials.

For clarification consult SWI Valve Co., Ltd.

Tough Handles

Rugged 316 stainless steel handles provide extended corrosion resistance and ideal for offshore applications.

Heavy Duty Needle Valves

SWI proven heavy duty needle pattern head unit features a rugged fire safe and tested construction.

Testing

All products as standard receive hydrostatic and pneumatic testing in accordance with API598 including optional hydrostatic seat tests.

Testing in accordance with API6D, EN12266-1 or ISO5208 can be provided on request.

All major pressure containing components exhibit unique identification coding and material test certificates, to EN 10204 Type 3.1

Quality Assurance

The company operates under the Quality Assurance Scheme which is in accordance with ISO 9001 and API Monogram.

SWI Valves operate under a Quality Assurance system which is approved by Bureau Veritas to ISO 9001:2008 / KS Q ISO 9001: 2009 / KEPIC-MN and API Q1.

The company is licensed to use the API Monogram in respect of API 6D ball valves and our facilities are always open to customer audits.

SWI ball valves have been independently accredited for Design and Fire Safety. In addition, manufacture and materials comply with the essential safety requirements of the Pressure Equipment Directive 97/23/EC (PED).



QUARTER TURN BALL VALVE SPECIFICATION



Features

- Design, manufacture and materials conform to the essential requirements of ASME B16.34, ASME VIII and Directive 97/23/ EC.
- 316 stainless steel handle and stop pin as standard for corrosion resistance.
- Blowout proof one-piece stem.
- Superior high integrity live loaded stem with triple sealing system.
- Vented ball provides positive upstream cavity relief, valve is uni-directional.
- Fully encapsulated seats minimizes risk of extrusion and allows higher working pressures and temperatures.
- Super finished ball for low operating torque and extended life.
- End connector threads are fully isolated from process by primary and secondary static seals or bolted type provided.
- Lock nut is vibration resistant to avoid working loose.
- Extensive choice of seat materials: PVDF, PTFE(virgin or filled), Modified PTFE, PCTFE, PEEK.
- Anti-static design as standard.
- Pressure rating up to 10,000psig (680barg).
- Temperature ratings form -70°F to 482°F (-57°C to +250°C) available.

	Valve Body Materials					
Component	Stainless Steel Carbon Steel		Duplex Stainless Steel			
Body	A182 F316	A350 LF2	A182 F51			
Ball	A276/47	UNS S31803				
Ball Seat	PVDF/PTFE/PCTFE/PEEK					
Ball Stem	A276/47	UNS S31803				
Stem Packing						
End Packing		PTFE/ Graphile				
End Connector	A276/479 Type316	A350 LF2	UNS S31803			
Locknut		A1948M				
Handle		316 Stainless Steel				

Material Construction

Pressure and Temperature Ratings



OS & Y TYPE GLOBE VALVE SPECIFICATION



Features

- Stem packing with Graphite or PTFE for bubble tight sealing.
- Non rotating stem for repetitive bubble tight shut off.
- Bolted bonnet for strength and reliability.
- Back seat design provides secondary stem sealing and prevents stem blow out
- Adjustable gland flange allows easy access to the packing gland, and packing adjustment for an effective stem seal.
- Robust SS316 bar handle with locking bolt as standard.
- Color coded and function label for easy identification.
- Orifice size 0.2"(5mm)
- Pressure rating up to 6,000psig(414barg)
- Temperature rating -70°F to 1022°F (-57°C to +550°C) available.

Material Construction

	١	/alve Body Materia	ls
Component	Stainless Steel	Carbon Steel	Duplex Stainless Steel
Body	A182 F316	A350 LF2	A182 F51
OS & Y Bonnet	A351 CF8M	A352 LCC	A182 F51
OS & Y Flange	A351 CF8M	A352 LCC	A182 F51
Stem	A276/47	UNS S31803	
Disc	A564 S174	00 Type630	UNS S31803
Stem Packing		PTFE / Graphite	
Bonnet Gasket		Graphite	
Flange Bolt	A193 B8M	A320 L7M	
Flange Nut	A1948M	A194 Gr.7	A453 Gr.660
Bonnet Bolt	A193 B8M	A320 L7M	
Handle		316 Stainless Steel	

Pressure and Temperature Ratings





NEEDLE TYPE GLOBE VALVE SPECIFICATION



Features

- Stem packing with Graphite or PTFE for bubble tight sealing.
- Non rotating stem for repetitive bubble tight shut off.
- Back seat design provides secondary stem sealing and prevents stem blow out.
- Robust SS316 bar handle as standard.
- Packing bolt allows easy access to adjust the packing gland.
- Color coded and function label for easy identification.
- Orifice size 0.2"(5)
- Pressure rating up to 6,000psig(414barg)
- Temperature rating -70°F to 1022°F (-57°C to +550°C) available.

Material Construction

	Valve Body Materials						
Component	Stainless Steel	Carbon Steel	Duplex Stainless Steel				
Body	A182 F316 A350 LF2		A182 F51				
Bonnet	A276/47	UNS S31803					
Stem	A276/47	UNS S31803					
Disc	A564 S174	UNS S31803					
Stem Packing		PTFE/Graphite					
Bonnet Gasket		Graphite					
Packing Bolt	A276/47	9Type316	UNS S31803				
Locknut	A276/47	9Type316	UNS S31803				
Handle		316 Stainless Steel					

Pressure and Temperature Ratings





VALVE RANGE

Valves are integrally forged, a single piece double block & bleed assemblies for primary isolation of pressure take-offs, where the valve is directly mounted to the vessel or process pipe. Instrument maybe directly mounted to the valve outlet or alternatively remotely with gauge lines / impulse pipe work.

Applications

- Isolation Service (MI series)
- Block and Bleed Valves (SA/SB/MS/RS series)
- Double Block and Bleed Valves (DA/DB/MD/RD series)
- Pressure Measurement
- Chemical Injection
- Level Measurement
- Sampling

Standard Features

- ANSI B16.5 flanged inlet connections 1/2" to 2" sizes
- Class 150 to Class 2500 ratings
- API flanged inlet connections size 2 1/16".
- 1/2" NPT Female Thread vent connection to ASME B1.20.1
- Material Thickness to ASME B16.34
- Bolted Body construction(inlet / outlet) is option for modular valves.
- Fire safe to API 607 / ISO 10497
- Pressure testing to API598
- Material traceability to EN 10204 Type 3.1 (body only)
- Extensive choice of seat materials: PTFE(virgin or filled), Modified PTFE, PCTFE, PEEK, PVDF, Metal Seat (Tungsten Carbide Coating or Stellite 6)
- Anti-static, Locking Device Handle, Fire safety design is standard for Ball Valve.
- OS & Y needle type globe valve packing material are offered .
- Anti-Tamper Handle is option for OS & Y needle type globe valve.
- Carbon / stainless steel body material with stainless steel barstock trims, socket, end connector, etc.



DA SERIES A TYPE





Weights and Dimensions

Sizo	Pating	Dimension(mm)							
	(cl)	•	р		L		Т	weight	
(NPS)	(Class)	A	Б	RF	RTJ	RF	RTJ	(kg)	
	150	89	60.3		-	11.2	-	3.6	
	300	06	667	188	193	14.3	18.3	3.9	
1/2	600	90	00.7		196	20.6	19.8	4.0	
	900/1500	121	82.5	206	212	28.8	28.8	5.4	
	2500	134	88.9	200	215	36.6	36.6	6.9	
	150	99	69.8		-	12.7	-	3.9	
	300	110	97 F	188	106	15.7	20.6	4.6	
3/4	600	118	82.5		196	22.1	22.3	4.7	
	900/1500	130	88.9	200	212	31.8	21.8	6.3	
	2500	140	95.2	206	213	38.2	38.2	7.5	
	150	108	79.4	178	183	14.3	19.0	4.0	
	300	124	88.9	190	185	17.5	22.3	4.6	
1	600	124		160	188	23.9	23.9	4.7	
	900/1500	150	101.6	191	198	34.8	34.8	7.0	
	2500	159	108.0	206	206	41.5	41.5	8.6	
	150	127	98.4	180	185	17.5	22.3	4.6	
	300	150	1140	183	188	20.6	25.4	6.0	
1 1/2	600	150	114.3	193	193	28.8	28.8	6.5	
	900/1500	178	123.8	203	203	38.2	38.2	9.4	
	2500	203	146.1	216	216	50.9	52.4	15.9	
	150	153	120.6	183	188	19.1	23.9	6.6	
	300	165	1070	185	192	22.4	28.7	8.0	
2	600	105	127.0	196	197	31.8	33.3	8.3	
	900/1500	216	165.1	226	210	44.5	46.0	15.0	
	2500	235	171.5	221	223	57.2	58.7	22.0	



SA/SB/DB SERIES A TYPE





Weights and Dimensions

Sizo	Pating	Dimension(mm)							
Size		٥	D		L		weight		
(NPS)	(Class)	A	D	RF	RTJ	RF	RTJ	(kg)	
	150	89	60.3	161	-	11.2	-	3.6	
	300	06	667	101	163	14.2	18.3	3.9	
1/2	600	90	00.7	166	165	20.6	19.8	4.0	
	900/1500	121	82.5	19/	19/	28.8	28.8	5.4	
	2500	134	88.9	104	104	36.6	36.6	6.9	
	150	99	69.8	161	-	12.7	-	3.9	
	300	110	97 E	101	165	15.7	20.6	4.6	
3/4	600	110	02.3	166	105	22.1	22.3	4.7	
	900/1500	130	88.9	104	10/	31.8	21.8	6.3	
	2500	140	95.2	104	104	38.2	38.2	7.5	
	150	108	79.4	156	161	14.2	19.0	4.0	
	300	124	88.0	88.9	150	164	17.5	22.3	4.6
1	600		00.9	159	166	23.9	23.9	4.7	
	900/1500	150	101.6	169	177	34.8	34.8	7.0	
	2500	159	108.0	183	183	41.5	41.5	8.6	
	150	127	98.4	159	164	17.5	22.3	4.6	
	300	156	11/1 2	162	167	20.6	25.4	6.0	
1 1/2	600	001	114.5	170	170	28.8	28.8	6.5	
	900/1500	178	123.8	180	180	38.2	38.2	9.4	
	2500	203	146.1	193	194	50.9	52.4	15.9	
	150	153	120.6	161	166	19.1	23.9	6.6	
	300	165	127.0	164	170	22.4	28.7	8.0	
2	600	201	127.0	173	175	31.8	33.3	8.3	
	900/1500	216	165.1	186	188	44.5	46.0	15.0	
	2500	235	171.5	199	201	57.2	58.7	22.0	



DA SERIES B TYPE





Weights and Dimensions

Sizo	Pating	Dimension(mm)							
SIZE	naung	٥	D		L		Т	weight	
(NPS)	(Class)	A	Б	RF	RTJ	RF	RTJ	(Kg)	
	150	89	60.3		-	11.2	-	4.3	
	300	06	667	208	221	14.2	18.3	5.0	
1/2	600	90	00.7		221	20.6	19.8	5.2	
	900/1500	121	82.5	242	256	28.8	28.8	7.9	
	2500	134	88.9	245	250	36.6	36.6	10.8	
	150	99	69.8		-	12.7	-	4.9	
	300	110	97 F	208	221	15.7	20.6	6.3	
3/4	600	110	82.5			22.1	22.3	6.5	
	900/1500	130	88.9	242	250	31.8	21.8	9.5	
	2500	140	95.2	245	250	38.2	38.2	12.0	
	150	108	79.4	180	189	14.2	19.0	5.0	
	300	124	00.0	186	196	17.5	22.3	6.3	
1	600		00.9	199	199	23.9	23.9	6.5	
	900/1500	150	101.6	221	221	34.8	34.8	11.2	
	2500	159	108.0	234	234	41.5	41.5	14.3	
	150	127	98.4	186	196	17.5	22.3	6.4	
	300	156	1140	192	202	20.6	25.4	9.1	
1 1/2	600	150	114.3	208	208	28.8	28.8	10.1	
	900/1500	178	123.8	227	227	38.2	38.2	16.0	
	2500	203	146.1	253	256	50.9	52.4	27.8	
	150	153	120.6	189	199	19.1	23.9	9.9	
	300	165	127.0	196	208	22.4	28.7	11.9	
2	600	COI	127.0	215	218	31.8	33.3	13.4	
	900/1500	216	165.1	240	243	44.5	46.0	27.2	
	2500	235	171.5	265	268	57.2	58.7	40.0	



SA/SB/DB SERIES B TYPE





Weights and Dimensions

Sino	Dating	Dimension(mm)							
SIZE		٥	D		L		weight		
(NPS)	(Class)	A	В	RF	RTJ	RF	RTJ	(kg)	
	150	89	60.3	107	-	11.2	-	4.3	
	300	06	667	197	206	14.2	18.3	5.0	
1/2	600	90	00.7	206	200	20.6	19.8	5.2	
	900/1500	121	82.5	242	242	28.8	28.8	7.9	
	2500	134	88.9	243	245	36.6	36.6	10.8	
	150	99	69.8	107	-	12.7	-	4.9	
	300	110	97 E	197	206	15.7	20.6	6.3	
3/4	600	110	02.5	206	200	22.1	22.3	6.5	
	900/1500	130	88.9	242	242	31.8	21.8	9.5	
	2500	140	95.2	245	245	38.2	38.2	12.0	
	150	108	79.4	180	189	14.2	19.0	5.0	
	300	12/	000	186	196	17.5	22.3	6.3	
1	600	124	00.9	199	199	23.9	23.9	6.5	
	900/1500	150	101.6	221	221	34.8	34.8	11.2	
	2500	159	108.0	234	234	41.5	41.5	14.3	
	150	127	98.4	186	196	17.5	22.3	6.4	
	300	156	11/1 2	192	202	20.6	25.4	9.1	
1 1/2	600	001	114.5	208	208	28.8	28.8	10.1	
	900/1500	178	123.8	227	227	38.2	38.2	16.0	
	2500	203	146.1	253	256	50.9	52.4	27.8	
	150	153	120.6	189	199	19.1	23.9	9.9	
	300	165	127.0	196	208	22.4	28.7	11.9	
2	600	165	127.0	215	218	31.8	33.3	13.4	
	900/1500	216	165.1	240	243	44.5	46.0	27.2	
	2500	235	171.5	265	268	57.2	58.7	40.0	



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MI series

MS series



Size	Rating		Weight			
(NPS)	(Class)		L	А	В	(ka)
((Citabb)	RF	RTJ			(**5)
	150	64	-		60.3	2.0
1/2	300			99	66.7	2.0
1/2	000/1500	69	68		07.5	
	900/1500	00		133	02.5	3.4
	150		_	90	69.8	20
	300	64			07.0	2.0
3/4	600	68	68	133	82.5	3.4
	900/1500				88.9	
	2500	73	73	159	95.2	5.5
	150	64	68		79.4	2.4
	300			133	00.0	24
1	600	68			00.9	3.4
	900/1500	72	70	150	101.6	EE
	2500	/3	/5	601	108.0	5.5
	150	64	68	127	98.4	3.2
	300	69	69	159	1143	55
1 1/2	600	73	73	135		5.5
	900/1500			178	123.8	7.8
	2500	82	84	235	146.1	11.4
	150	69	73	159	120.6	5.5
2	300		75	178	127.0	7.8
	600	73				
	900/1500	82	84	235	165.1	11.4



MD series







Weights and Dimensions

Size	Rating		Dimens	ion(mm)		Weight	
(NIDS)	(Class)			Δ	R	(kg)	
(INF 3)	(Class)	RF	RTJ	Λ		(Kg)	
	150	64	-		60.3		
	300			99	66.7	2.0	
1/2	600		68				
	900/1500	68		133	82.5	34	
	2500				88.9	5.1	
	150	64	-	99	69.8	2.0	
	300				82.5		
3/4	600	68	68	133	02.5	3.4	
	900/1500	00			88.9		
	2500	73	73	159	95.2	5.5	
	150	64	68		79.4	2.4	
	300			133	88.0	3.1	
1	600	68			00.9	J. 1	
	900/1500	72	72	150	101.6	55	
	2500	/3	75	661	108	J.J	
	150	64	68	127	98.4	3.2	
	300	69	69	150	11/1 2	55	
1 1/2	600	72	72	601	114.5	J.J	
	900/1500	/3	75	178	123.8	7.8	
	2500	82	84	235	146.1	11.4	
	150	60	73	159	120.6	5.5	
2	300	09	75	170	127.0	70	
2	600	73	/5	1/0	127.0	/.8	
	900/1500	82	84	235	165.1	11.4	



RS series

• Valve Weight : ~2.0kgs



RD series

• Valve Weight : ~2.5kgs



Valve Weight : ~1.7kgs





SAMPLING VALVES

Sampling the process stream can be accomplished with this valve design, where a sample can be taken even at full system pressure directly from the process line. The product allows double isolation from process for safety. The orientation of the sample nozzle is fixed at the assembly stage and can be specified to suit the application.

The Sampling Probe length (L) is manufactured to suit customer requirements.



CHEMICAL INJECTION VLAVES

Injection of chemical and other media into the stream can be accomplished with this valve design. The Valve inlet houses a one way check valve which opens for injection and goes normally closed to eliminate process fluid outflow. The orientation of the injection nozzle is fixed at the assembly stage and can be specified to suit the application. Injection valves can be provided with either a single flange connection and screwed connection or double flange connections. The Injection Quill length(L) is manufactured to suit customer requirements.



BORE (BALL VALVE)

 \diamondsuit standard bore · BALL 10mm · OS&Y/NEEDLE 5mm

BORE

ORIFICE 10mm

ORIFICE 14mm

ORIFICE 20mm

ORIFICE 25mm

FULL BORE



Ordering Information

A

CODE TABLE	ABC	- D	- E	- FGH	- JK
Sample Valve Code	D2A14	- 16RC	- 08N	- PKS316	- V12

VALVE SERIES																	
DIVISION	SERIES	IDENTIFY	BLOCK	BLOCK	BLEED	DIVISION	SERIES	IDENTIFY	BLOCK	BLOCK	BLEED	DIVISION	SERIES	IDENTIFY	BLOCK	BLOCK	BLEED
АГИЕ	SINGLE BLOCK & BLEED						ISOLATION						SINGLE BLOCK & BLEED				
	SA	S1	BALL	-	NEEDLE	GE VALVE	МІ	MI1	NEEDLE	-	-	VALVE	RS	RS1	BALL	-	NEEDLE
		S2	BALL	-	OS&Y			MI2	OS&Y	-	-			RS2	OS&Y	-	NEEDLE
		S3	BALL	-	BALL		SINGLE BLOCK & BLEED				- To		DOUBLE BLOCK & BLEED				
	SB	S4	NEEDLE	-	NEEDLE	IONOFLANG	MS	MS1	NEEDLE	-	NEEDLE	28 D	RD	RD1	BALL	BALL	NEEDLE
		S5	OS&Y	-	NEEDLE			MS2	OS&Y	-	NEEDLE			RD2	OS&Y	NEEDLE	NEEDLE
NR V		S6	OS&Y	-	OS&Y		DOUBLE BLOCK & BLEED										
OL/	DOUBLE BLOCK & BLEED				2	MD	MD1	NEEDLE	NEEDLE	NEEDLE							
QQ		D1	BALL	BALL	NEEDLE		INID	MD2	OS&Y	NEEDLE	NEEDLE						
2	DA	D2	BALL	BALL	OS&Y	♦ STAND	ARD BALL \	ALVE SPEC.									
		D3	BALL	BALL	BALL	· ANTI	STATIC										
	DB	D4	NEEDLE	NEEDLE	NEEDLE	• FIRE S	AFETY										
		D5	OS&Y	OS&Y	NEEDLE	· LOCK	NG DEVICE										
		D6	OS&Y	OS&Y	OS&Y]											

В	с			
V	(B			
IDENTIFY	INLET	OUTLET	IDENTIFY	
А	FLANGE	F.NPT	NIL	
В	FLANGE	FLANGE	14	
с	M.NPT	F.NPT	20	
D	F.NPT	F,NPT	25	
E	SW	F.NPT	FB	

D(INLET)	E(OUTLET
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CONNECTION												
	SIZE (NPS)		FLANGE	THREAD		WELD END						
IDENTIFY		IDENTIFY	DESCRIPTION	IDENTIFY	CLASS	IDENTIFY	TYPE	IDENTIFY	TYPE			
04	1/4	R	RAISED FACE SPIRAL FINISH	А	150	N	NPT	BW	BUTT WELD			
06	3/8	S	RAISED FACE SMOOTH FINISH	В	300	R	BSPT	SW	SOCKET WELD			
08	1/2	т	RAISED FACE STOCK FINISH	с	600							
12	3/4	J	RING JOINT TYPE	D	900]						
16	1	F	FLATTED FACE STOCK FINISH	E	1500]						
24	1 1/2			F	2500							
32	2					-						

F		G		н		J	J		Κ		
E	BALL SEAT MATERIAL	TR	IM MATERIAL	BOI	DY MATERIAL	STEM & EI	OPTION 1 ND SEAL (ELASTOMER)	OPTION 2			
IDENTIFY	MATERIAL	IDENTIFY	MATERIAL	IDENTIFY	MATERIAL	IDENTIFY	MATERIAL	IDENTIFY	MATERIAL		
PV	PVDF	S	316 STAINLESS STEEL	316	ASTM A182 F316/316L	v	FKM(VITON)	01	PLUGGED VENT		
PC	PCTFE	D	DUPLEX STAINLESS	105	ASTM A105	н	HNBR	02	INJECTION QUILL		
РК	PEEK	м	ALLOY 400(MONEL)	LF2	ASTM A350 LF2	N	BUNA-N	03	SAMPLE PROBE		
РТ	PTFE	♦ REFEREN	ICE VALVE SPECIFICATION	F51	DUPLEX UNS S31803	к	FFKM(KARLEZ)	04	CHECKVALVE		
GP	GLASS FILLED PTFE	(PAGE No	o. 7/8/9)	400	UNS N04400	E	EPDM	05	BOLTED BODY CONSTRUCTION		
СР	CARBON FILLED PTFE							06	ANTI TAMPER		
	METAL SEAT							07	1+2		
wc	BALL/SEAT: TUNGSTEN CARBIDE COATING							08	1+2+4		
CT.	METAL SEAT							09	1+2+4+5		
SI	BALL/SEAT: STELLITE 6							10	1+3		

1+3+5

1+5 1+6

11

12

13





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- Positive Isolation Block & Bleed Valves

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