

# **MDV SERIES 3 WAY BALL VALVES**

Diverting ball valves for industrial and process applications.



The Jarecki MDV Series ball valves are available in a variety of materials, end connections, and seat materials. This series is an economical alternative to piping systems using multiple valves to divert flow. Jarecki valves are built for applications in the Pulp and Paper, Petrochemical, Petroleum, Chemical, and Power industries.

#### Standard Applications:

Natural Gas Hot Oil Saturated Steam Feedwater Sour Water Gas HAP - Hazardous Air Pollutants VOC – Volatile Organic Compounds

#### Seat Leakage Class:

RTFE Seats Bubble Tight RTFE Seats API 598 Metal Seats Class V - Standard Metal Seats Class VI Metal Seats Zero Leakage Metal Seats API 598 Metal Seats ISO 5208

#### Design

#### Pressure Rating

- 150# to 1500# Available in Sizes ½" to 12"
- 2500# Available in Sizes ½" to 4"

#### Valve Size

- 1/2" to 12" Full Port
- 6" to 12" Reduced Port

#### End Connections

- Flanged
- Butt weld Available On Request

#### Valve Construction

- Bar Body Size ½" to 2"
- Forged Body Size 3" to 12"
- Floating Ball or Trunnion
- Spiral Wound Body Gasket with Secondary Metal to Metal Seal
- Actuator Mounting Pad
- Live Loaded Stem Packing
- Designed to B16.34
- Blow Out Proof Stem
- Heavy Duty Stem For High Torque

#### Seat Designs

- Bi-Direction RTFE Seats
- Bi-Direction Metal Seats
- Uni-Directional Metal Seats Standard

#### Service Conditions

- Temperatures Up to 1500 deg F
- Pressures as low as Vacuum Service
- Pressures as High as 740 psi
- For Clean and Abrasive Services

# Live Loaded Packing System

Blow-Out proof stem design to ensure workman safety.

•Tight tolerance between the stem and the stem thrust washer allow for precise stem to ball contact.

•Live-Loaded stem packing to compensate for temperature fluctuations and normal wear.

•Care is taken not to over torque the stem packing at the testing facility. This provides the customer with the longest packing life possible. At the same time, it keeps the valve torque at a minimum.

•Stem system certified to ISO 15848 available on request.



# FEATURES

The body and end connections are bolted with a metal to metal contact to ensure that proper compression on the body gasket is achieved. This metal to metal contact also guarantees that the dimensions inside the valve are correct. The torque is constant, and both the body and seat seal gaskets will always have the proper compression.

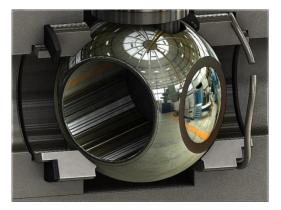
> Tight shut-off is accomplished by grinding every ball to very tight tolerances, carefully radiusing each individual seat to its mating ball, and then carefully lapping them together.

> > Seat designs are picked based on the flow pattern to ensure shut-off

Wave spring utilized on metal seated seat designs for more accurate spring rate provides for a consistent load and low torque performance.

### SEAT STYLES

P Seat - Spring Loaded (Standard)



For unidirectional applications. The sealing seat is available as a separate seat ring for reparability, or integral with the tailpiece for high temperature applications. The spring seat OD seal prevents media from building up between the spring and the back of the seat.

Temperature Range: -40 to 1300 deg F Application: Steam, Hot Air, Gases, Low Pressure Differentials, High Temperatures Shut-Off: Class V, Class VI, Bubble Tight



G Seal - Graphite Sealed Seat

A series of Graphite seal rings behind the metal seat prevents media from building up behind the seat. The rings also allow for expansion of the internal valve components in high temperature applications. This design is great for applications involving fine solids as the graphite prevents the media from building up behind the seats.

Temperature Range: -20 to 1500 deg F Application: Steam, Abrasion, High Temperatures, Fine Solids, Slurry

Shut-Off: Class V, Class VI, Bubble Tight

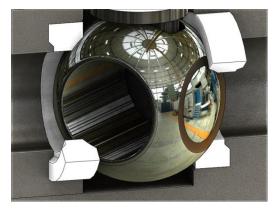
O Seal - Graphite Sealed Seat



A double seal design providing both spring loading and excellent sealing capabilities. There is no area for media to build up behind the seat, which prevents the valve from locking up.

Temperature Range: --40 to 650 deg F Application: Steam, Abrasion, Low Pressure Differentials, Fine Solids, Emulsions Shut-Off: Class V, Class VI, Bubble Tight

T Seat - Reinforced TFE Seat

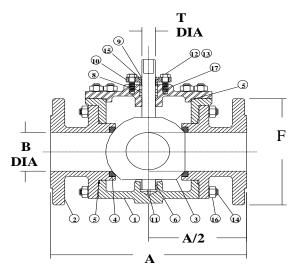


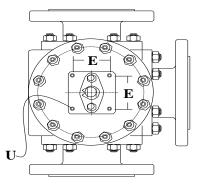
The T Seat Style designates a soft seat material. There are many seat materials available with TFM being the standard option. A metal lip on the body and tailpiece provides fire safety and meets API 607 requirements.

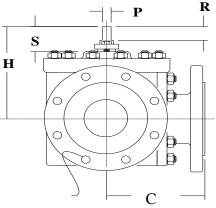
Temperature Range: -20 to 450 deg F Application: Steam, Low Pressure Differentials, Emulsions, Nonabrasive Media Shut-Off: Class VI, Bubble Tight



## CLASS 150# AND 300# DIMENSIONS





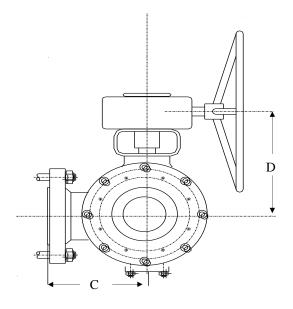


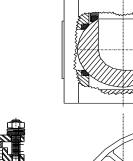
		ANSI CL	ASS 150#			ANSI CLASS 300#								
SIZE	A - R.F.	B (Dia)	C - R.F.	F (Dia)	Н	SIZE	A - R.F.	B (Dia)	C - R.F.	F (Dia)	Н			
3/4	6.64	0.75	3.32	3.88	3.2	3/4	6.64	0.75	3.32	3.88	3.2			
1	7.20	1.00	3.60	4.25	3.3	1	7.20	1.00	3.60	4.25	3.3			
1 1/2	7.20	1.50	3.60	5.00	4.2	1 1/2	7.20	1.50	3.60	5.00	4.2			
2	8.65	2.00	4.33	6.00	4.93	2	8.65	2.00	4.33	6.00	4.93			
3	11.25	3.00	5.63	7.50	6.67	3	11.25	3.00	5.63	7.50	6.67			
4	13.65	4.00	6.83	9.00	8.01	4	13.65	4.00	6.83	9.00	8.01			
6	16.77	6.00	8.39	11.00	10.1	6	16.77	6.00	8.39	11.00	10.1			
8	20.93	7.95	10.47	13.50	11.55	8	20.93	7.95	10.47	13.50	11.55			
10	27.55	9.90	13.78	16.00	13.01	10	27.55	9.90	13.78	16.00	13.01			
12	30.00	11.80	15.00	19.00	12	12	30.00	11.80	15.00	19.00	12			

			MOUN	TING DIME	NSIONS			
SIZE	Р	T Dia	E	R	S	Н	Μ	U
3/4	0.354	0.46	1.95	0.47	0.50	3.20	0.38	1/4-20 NC
1	0.433	0.55	1.95	0.47	0.54	3.30	0.38	1/4-20 NC
1 1/2	0.551	0.61	1.95	0.63	0.72	4.12	0.67	5/16-18 NC
2	0.669	0.87	2.83	1.57	1.90	4.90	0.88	5/16-18 NC
3	0.669	1.16	3.50	1.97	3.10	6.75	1.13	1/2-13 NC
4	0.906	1.34	3.50	2.44	3.10	8.10	1.13	1/2-13 NC
6	1.378	1.77	3.50	2.36	3.58	10.05	1.88	5/8-11 NC

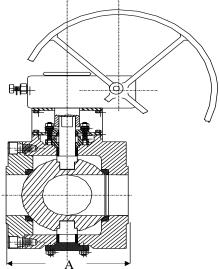
The MDV Series are made to order valves. The manufacturer can make changes to the bore diameter, end to end, or any other changes which may be beneficial to the customer. Common flange is always (except for carbon steel valves) 316 sst unless otherwise specified. Manufacturer reserves the right to make design alterations. Cv is for T Port Valves







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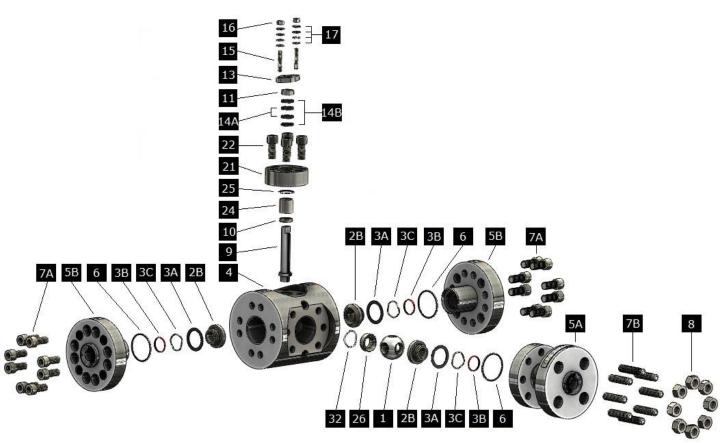
		ANSI	CLASS 600	ŧ		
SIZE	A-RF	A- RTJ	A-SW	С	D	B (Dia)
1/2	5.25	5.25	7.25	5.25	5.20	0.50
3/4	5.25	5.25	7.25	5.25	5.20	0.75
1	6.25	6.25	8.25	6.25	6.00	0.96
1 1/2	7.50	7.50	9.50	9.50	6.50	1.50
2	10.00	10.00	12.00	7.00	7.00	1.94
3	11.50	11.50	13.50	8.00	9.60	2.90
4	11.50	11.50	13.50	12.00	12.38	3.83
6	22.00	22.00	22.00	22.00	14.00	5.76
8	26.00	26.00	26.00	26.00	15.50	7.63
10	31.00	31.00	31.00	31.00	18.00	9.75
12	33.00	33.00	33.00	33.00	18.95	11.75

		ANSIC	CLASS 1500	#		
SIZE	A-R.F.	A-RTJ RTJ	A-SW	С	D	B (Dia)
1/2	7.25	7.25	10.00	7.25	6.00	0.50
3/4	7.25	7.25	10.00	7.25	6.00	0.75
1	8.25	8.25	10.00	8.25	7.00	0.96
1 1/2	9.50	9.50	12.00	8.50	7.50	1.50
2	11.00	11.00	13.00	9.50	8.00	1.94
3	12.00	12.00	14.00	9.50	10.60	2.90
4	12.25	12.25	14.25	10.00	13.44	3.83
6	24.00	24.00	24.00	24.00	16.50	5.76
8	29.00	29.00	29.00	29.00	17.50	7.63
10	31.00	33.00	33.00	33.00	20.13	9.75
12	33.00	38.00	38.00	38.00	22.00	11.75

	·	ANSI	CLASS 900	#		
SIZE	A-R.F.	A-RTJ RTJ	A-SW	С	D	B (Dia)
1/2	7.25	7.25	10.00	7.25	6.00	0.50
3/4	7.25	7.25	10.00	7.25	6.00	0.75
1	8.25	8.25	10.00	8.25	7.00	0.96
1 1/2	9.50	9.50	12.00	8.50	7.50	1.50
2	11.00	11.00	13.00	9.50	8.00	1.94
3	12.00	12.00	14.00	9.50	10.60	2.90
4	12.25	12.25	14.25	10.00	13.44	3.83
6	24.00	24.00	24.00	24.00	16.50	5.76
8	29.00	29.00	29.00	29.00	17.50	7.63
10	31.00	33.00	33.00	33.00	20.13	9.75
12	33.00	38.00	38.00	38.00	22.00	11.75

		ANSIC	LASS 2500	)#		
SIZE	A-R.F.	A-RTJ RTJ	A-SW	С	D	B (Dia)
1/2	8.25	8.25	12.00	8.25	6.50	0.38
3/4	8.25	8.25	12.00	8.25	6.50	0.50
1	9.25	9.25	12.00	9.25	8.00	0.63
1 1/2	10.50	10.50	14.00	9.50	8.50	1.00
2	13.00	13.00	15.00	10.50	9.00	1.20
3	14.00	14.00	17.00	12.50	11.60	2.50
4	14.25	14.25	18.25	14.00	16.25	3.00
6	C/F	C/F	C/F	C/F	C/F	C/F
8	C/F	C/F	C/F	C/F	C/F	C/F
10	C/F	C/F	C/F	C/F	C/F	C/F
12	C/F	C/F	C/F	C/F	C/F	C/F





#### STANDARD OPTIONS

ITEM NO.	NAME	STAINLESS STEEL	A105	ALLOY 20	DUPLEX	F-22	Titanium	Inconel
		316 W/ HARD CHROME*	316 W/ HARD CHROME*	ALLOY 20 W/ COLMONOY*	2205 W/ Tantalum Chrome Oxide *	718 W/ CHROME CARBIDE	Titanium Gr. 2	Inconel 600
		316 W/ STELLITE HF*	316 W/ STELLITE HF*	ALLOY 20 W/ COLMONOY*	2205 W/ Tantalum Chrome Oxide *	316 W/ CHROME CARBIDE	RTFE	Colmonoy
		316 W/ STELLITE HF*	316 W/ STELLITE HF*	ALLOY 20 W/ COLMONOY*	2205 W/ Tantalum Chrome Oxide *	316 W/ CHROME CARBIDE	RTFE	Colmonoy
	SEAT SEAL	TFE/Viton/Graphite	TFE/Viton/Graphite	TFE/Viton/Graphite	TFE/Viton/Graphite	GRAPHITE	TFE/Viton/Graphite	TFE/Viton/Graphite
		17-7 SST/ A286	17-7 SST/ A286	ALLOY 20	2205 DUPLEX SST	A-286	NA	A286
4	BODY	316 SST	A105	A182 CN7M	A351 CD3MN	F-22	Titanium Gr. 2	Inconel 600
5	TAILPIECE	316 SST	A105	A182 CN7M	A351 CD3MN	F-22	Titanium Gr. 2	Inconel 600
6		316sst w/ Graphite Filler*	316sst w/ Graphite Filler*	ALLOY 20 w/ Graphite Filler*	2205sst w/ Graphite Filler*	316sst w/ Graphite Filler*	TFE	Inconel w/Graphite Filler
		ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
8	BODY NUT	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8
9		17-4SST/XM-19*	17-4SST/XM-19*	2205 DUPLEX SST*	2205 DUPLEX SST*	718 INCONEL	Titanium Gr. 2	Inconel 600
10	THRUST WASHER	Nitronic 60/TFE	Nitronic 60/TFE	STELLITE	STELLITE	STELLITE	RTFE	Stellite
11	COMPRESSION RING	316 SST	316 SST	ALLOY 20*	2205 DUPLEX SST*	316 SST	Titanium Gr. 2	Inconel 600
	COMPRESSION PLATE	304 SST	304 SST	304 SST	304 SST	304 SST	304 SST	304 SST
14a	STEM PACKING	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE
15	GLAND STUD	ASTM A193 B8	ASTM A 193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
16	BELLEVILLE WASHER	301 SST	301 SST	301 SST	301 SST	718 Inconel	301 SST	301 SST
17	GLAND NUT	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8
21	BONNET	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE
22	BONNET BOLTS	ASTM A193 B8	ASTM A 193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
24	STEM BEARING	Nitronic 60/TFE	Nitronic 60/TFE	STELLITE	STELLITE	STELLITE	RTFE	Stellite
25	BONNET SEAL	316sst w/ Graphite Filler*	316sst w/ Graphite Filler*	ALLOY 20 w/ Graphite Filler*	2205sst w/ Graphite Filler*	316sst w/ Graphite Filler*	TFE	Inconel w/Graphite Filler
26	TRUNNION	316 W/ STELLITE HF*	316 W/ STELLITE HF*	ALLOY 20 W/ COLMONOY*	2205 W/ Tantalum Chrome Oxide *	316 W/ CHROME CARBIDE	RTFE	Colmonoy
32	TRUNNION SPRING	17-7 SST/ A286	17-7 SST/ A286	ALLOY 20	2205 DUPLEX SST	A-286	NA	A286

Other materials available upon request

# Specifications

Flanged end connections meet ANSI B16.5
Minimum wall thickness and design meets ANSI B16.34
Valves are tested per API 6D\*
API 598 / Class V/ Class VI Shut-Off Available

# API 598 / Class V/ Class VI Shut-Off Available Fire Safe To API 607 ISO 15848 Fugitive Emissions\* NACE MR-01-75\*

\* Available On Request

### AVAILABLE FLOW CONFIGURATIONS



Position 1 Position 2 FLOW PLAN 1

### T-Port 90 Deg. Turn





Position 1Position 2 Position Position 2 FLOW PLAN 2

FLOW PLAN 3



FLOW PLAN 4



Position 1Position 2 Position 1Position 2

**FLOW PLAN 5** 

### T-Port 180 Deg. Turn



Position 1 Position 2 Position 3

### FLOW PLAN 6



Position 1 Position 2 Position 3

### FLOW PLAN 8



Position 1 Position 2 Position 3

### FLOW PLAN 7



Position 1 Position 2 Position 3

### FLOW PLAN 9

## MODEL NUMBER

- 9	SERIES	PC	ORT SIZE		SEAT		MATERIAL	_	BALL	BALI	LCOATING	BOD	Y .	CL	ASS	END	CONNECTION	END	CONNECTION
2	MDV	F	FULL	0	NONMETAL	В	Boronizing	А	316SST	В	Boronizing	А	316SST	01	150#	А	NPT	F1	Flow Plan 1
		R	REDUCED	1	O SEAT	С	COLMONOY	В	A105	С	CHROME	В	A105	03	300#	В	FLANGED	F2	Flow Plan 2
				2	G SEAL	G	Graphite	С	F-22	Е	ENP	С	F-22	06	600#	С	RTJ Flanged	F3	Flow Plan 3
				4	P SEAT	Μ	Tantalum	D	Inconel	М	Tantalum	D	Inconel	09	900#	D	Buttweld	F4	Flow Plan 4
				5	P SEAT		Chrome Oxide	Е	304SST		Chrome Oxide	Е	304SST	15	1500#	Е	Socket Weld	F5	Flow Plan 5
					750 F TO 1000 F	Ρ	PEEK	F	Hastelloy	L	Colmonoy	F	Hastelloy	25	2500#			F6	Flow Plan 6
				6	G SEAL	R	CHROME CARBIDE	G	Incoloy	R	CHROME CARBIDE	G	Incoloy					F7	Flow Plan 7
					<1300 deg F	S	STELLITE	н	Alloy 20	S	STELLITE	н	Alloy 20					F8	Flow Plan 8
					Uni-Directional	Т	TFE	Т	Monel	т	TFE	Т	Monel					F9	Flow Plan 9
				7	G SEAL	U	UHMWPE	J	316H	w	TUNGSTEN CARBIDE	J	316H						
					Uni-Directional	w	TUNGSTEN CARBIDE	L	316L	0	no coating	L	316L						
				8	G SEAL			Ν	Ni-Al-Bronze			Ν	Ni-Al-Bron	ze					
					<1500 deg F			R	F-91			R	F-91						
					Uni-Directional			т	Titanium			т	Titanium						
				9	P Seat			х	Duplex			х	Duplex						
					OD O-Ring							2	LF2						
		Sorie	s Full Port	RTF	F Seats, 316sst	Ball	with No Plating, A	105	Body, 600# RF	- Flai	nged, Flow Plan 1 I	Diver	ting   Port						
					,						0		B		06		В		
			2 MDV F		2 MDV F FULL 0 R REDUCED 1 2 4 5 6 7 8	2 MDV F FULL 0 NONMETAL R REDUCED 1 OSEAT 2 G SEAL 4 P SEAT 5 P SEAT 750 F TO 1000 F 6 G SEAL 4 100 deg F 101-Directional 8 G SEAL 4 0 SEAL 4 100 deg F 101-Directional 8 G SEAL 4 1500 deg F 101-Directional 9 P Seat	2 MDV F FULL 0 NONMETAL B R REDUCED 1 OSEAT C 2 G SEAL G 4 P SEAT M 5 P SEAT 750 FT0 1000 F P 6 G SEAL R <1300 deg F S Uni-Directional W 8 G SEAL 4 V SEAL 5 V SEAT 5 V SEAT 5 V SEAT 5 V SEAL 5 V SEAL	2       MDV       F       FULL       0       NONMETAL       B       Boronizing         R       REDUCED       1       0 SEAT       C       COLMONOY         2       G SEAL       G       Graphite         4       P SEAT       M       Tantalum         5       P SEAT       Chrome Oxide         750 F T0 1000 F       P       PEEK         4       G SEAL       R       CHROME CARBIDE         4300 degF       S       STELLITE         101-Directional       W       TUNGSTEN CARBIDE         8       G SEAL       U       UMMWPE         101-Directional       W       TUNGSTEN CARBIDE         4300 degF       101-Directional       V       TUNGSTEN CARBIDE         9       P Seat       V       Seat       V	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A         R       REDUCED       1       0 SEAT       C       COLMONOY       B         2       G SEAL       G       Graphite       C         4       P SEAT       M       Tantalum       D         5       P SEAT       Chrome Oxide       E         750 F T0 1000 F       P       PEEK       F         6       G SEAL       R       CHROME CARBIDE       G         101-Directional       T       TFE       H         101-Directional       W       TUNGSTEN CARBIDE       L         8       G SEAL       U       UHMWPE       J         101-Directional       W       TUNGSTEN CARBIDE       R         101-Directional       V       TUNGSTEN CARBIDE	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105         2       G SEAL       G       Graphite       C       F-22         4       P SEAT       M       Tantalum       D       Inconel         5       P SEAT       M       Tantalum       D       Inconel         6       G SEAL       R       CHROME CARBIDE       G       Hastelloy         750 F 01000 F       P       PEEK       F       Hastelloy         4       O SEAL       R       CHROME CARBIDE       G       Incoloy         -1300 deg F       S       S       STELLITE       H       Alloy 20         -101-Directional       T       TFE       I       Monel         7       G SEAL       U       UHMWPE       J       316L         Mi-Directional       W       TUNGSTEN CARBIDE       L       316L         4       G SEAL       W       N       Ni-Al-Bronze         -1500 deg F       G       G SEAL       N       Ni-Al-Bronze         -1	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105       C         2       G SEAL       G       Graphite       C       F-22       E         4       P SEAT       M       Tantalum       D       Inconel       M         5       P SEAT       Chrome Oxide       E       304SST       L         750 F T01000 F       P       PEEK       F       Hastelloy       L         100 deg F       S       STELLITE       H       Alloy 20       S         101-Directional       T       TFE       I       Monel       T         7       G SEAL       U       UHMWPE       J       316H       W         101-Directional       W       TUNSSTEN CARBIDE       I       316H       W         1101-Directional       W       UNI-DIRECTIONAL       N       NI-Al-Bronze         12500 deg F       S       GEAL       N       Ni-Al-Bronze         1300 deg F       UNI-DIRECTIONAL       R       F-91         101-DIRECTIONAL	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing         R       REDUCED       1       O SEAT       C       COLMONOY       B       A 105S       C       CHROME         2       G SEAL       G       Graphite       C       F-22       E       ENP         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum         5       P SEAT       P       PEK       F       Hastelloy       L       Colmonoy         6       G SEAL       R       CHROME CARBIDE       G       Incoloy       R       CHROME CARBIDE         -300 deg F       S       STELLITE       H       Alloy 20       S       STELLITE         -300 deg F       S       STELLITE       H       Alloy 20       S       STELLITE         -101-Directional       T       TFE       I       Monel       T       TFE         101-Directional       W       TUNGSTEN CARBIDE       J       316L       O       no coating         101-Directional       W       TUNGSTEN CARBIDE       I       316L       O       no coatin	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105       C       CHROME       B         2       G SEAL       G       Graphite       C       F-22       E       ENP       C         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D         5       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D         6       G SEAL       R       CHROME CARBIDE       F       Hastelloy       L       Colmonoy       F         750 F T0 1000 F       P       P EEK       F       Hastelloy       L       Colmonoy       F         4       G SEAL       R       CHROME CARBIDE       G       Incoloy       R       CHROME CARBIDE       G         101-Directional       T       TFE       I       Monel       T       TFE       I         101-Directional       W       VIN/STEN CARBIDE       J       316H       W       TUNGSTEN CAR	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22         4       P SEAT       M       Tantalum       D       Inconel       Tantalum       Tantalum       Tantalum       Tantalum <td>2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       B       Boronizing       A       316SST       01         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       03         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       P       FEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       I       Tantalum       D       Tantalum       Tantalum       D       Tantalum       Tantalum       Tantalum       Tantalum       Tantalum</td> <td>2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       0.1       150#         2       MDV       F       FULL       0       SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       0.1       300#         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#         4       P SEAT       M       Tantalum       D       Inconel       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       Tastalum       Tastalum       Tastalum</td> <td>2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       0.1       150#       A         R       REDUCED       1       0 SEAT       C       CULMONOY       B       A105       C       CHROME       B       A105       0.1       300#       B         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       0.6       600#       C         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       P       PEEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       2       500#       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S<td>2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       3165ST       0.1       150#       A       NPT         R       REDUCED       1       0 SEAT       C       CULMONOY       B       A105       C       CHROME       B       A105       0.3       300#       B       FLANGED         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       M       Tantalum       D       Netword       E       304#       B       Socket Weld         750 F T0 1000 F       P       PEEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       2       500#       E       Socket Weld         1300 deg F       S       STELLITE       H       Alloy 20       S       STELLITE       H       Alloy 20       S       516H       Important       Important       Important       Important       Important       Important       Important       Important       I</td><td>2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       01       150#       A       NPT       F1         R       REDUCED       1       0 SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       03       300#       B       FLANGED       F2         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged       F3         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       F3       504555       F3       500#       E       Socket Weld       F4         750 F 01000 F       P       PEEK       F       Hastelloy       C       Chrome Oxide       E       304ST       T5       1500#       E       Socket Weld       F5         750 F 01000 F       P       PEEK       F       Hastelloy       C       Incoloy       F       Hastelloy       25       500#       E       Socket Weld       F3</td></td>	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       B       Boronizing       A       316SST       01         R       REDUCED       1       O SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       03         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       P       FEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       I       Tantalum       D       Tantalum       Tantalum       D       Tantalum       Tantalum       Tantalum       Tantalum       Tantalum	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       0.1       150#         2       MDV       F       FULL       0       SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       0.1       300#         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#         4       P SEAT       M       Tantalum       D       Inconel       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       D       Income       F       Tastalum       Tastalum       Tastalum       Tastalum	2       MDV       F       FULL       0       NONMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       0.1       150#       A         R       REDUCED       1       0 SEAT       C       CULMONOY       B       A105       C       CHROME       B       A105       0.1       300#       B         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       0.6       600#       C         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       P       PEEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       2       500#       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S <td>2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       3165ST       0.1       150#       A       NPT         R       REDUCED       1       0 SEAT       C       CULMONOY       B       A105       C       CHROME       B       A105       0.3       300#       B       FLANGED         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       M       Tantalum       D       Netword       E       304#       B       Socket Weld         750 F T0 1000 F       P       PEEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       2       500#       E       Socket Weld         1300 deg F       S       STELLITE       H       Alloy 20       S       STELLITE       H       Alloy 20       S       516H       Important       Important       Important       Important       Important       Important       Important       Important       I</td> <td>2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       01       150#       A       NPT       F1         R       REDUCED       1       0 SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       03       300#       B       FLANGED       F2         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged       F3         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       F3       504555       F3       500#       E       Socket Weld       F4         750 F 01000 F       P       PEEK       F       Hastelloy       C       Chrome Oxide       E       304ST       T5       1500#       E       Socket Weld       F5         750 F 01000 F       P       PEEK       F       Hastelloy       C       Incoloy       F       Hastelloy       25       500#       E       Socket Weld       F3</td>	2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       3165ST       0.1       150#       A       NPT         R       REDUCED       1       0 SEAT       C       CULMONOY       B       A105       C       CHROME       B       A105       0.3       300#       B       FLANGED         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       M       Tantalum       D       Netword       E       304#       B       Socket Weld         750 F T0 1000 F       P       PEEK       F       Hastelloy       L       Colmonoy       F       Hastelloy       2       500#       E       Socket Weld         1300 deg F       S       STELLITE       H       Alloy 20       S       STELLITE       H       Alloy 20       S       516H       Important       Important       Important       Important       Important       Important       Important       Important       I	2       MDV       F       FULL       0       NOMMETAL       B       Boronizing       A       316SST       B       Boronizing       A       316SST       01       150#       A       NPT       F1         R       REDUCED       1       0 SEAT       C       COLMONOY       B       A105       C       CHROME       B       A105       03       300#       B       FLANGED       F2         2       G SEAL       G       Graphite       C       F-22       E       ENP       C       F-22       06       600#       C       RTJ Flanged       F3         4       P SEAT       M       Tantalum       D       Inconel       M       Tantalum       D       Inconel       F3       504555       F3       500#       E       Socket Weld       F4         750 F 01000 F       P       PEEK       F       Hastelloy       C       Chrome Oxide       E       304ST       T5       1500#       E       Socket Weld       F5         750 F 01000 F       P       PEEK       F       Hastelloy       C       Incoloy       F       Hastelloy       25       500#       E       Socket Weld       F3



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