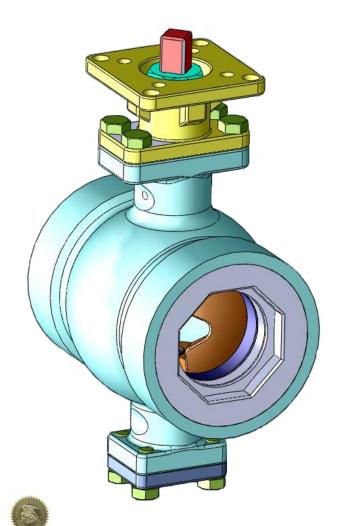


DM9900-W Series

Wafer Segmented V-Port Control Valve

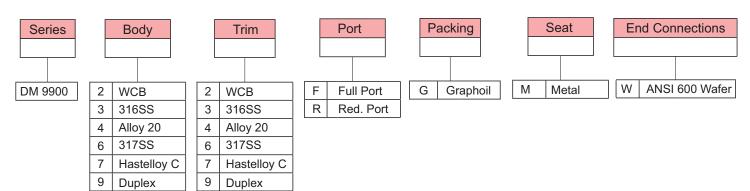
DESIGN FEATURES

- Size Range 1-1/2" 8"
- ISO 5211 Direct Mount Design
- ANSI Class 600
- Live Loaded Packing
- Protected Bearings, Top & Bottom
- Easy Installation and Versatility
- Standard ISA 75.04 face-to-face;
 Option: ANSI B16.10 short pattern
- Extremely low actuator torque
- Reduced trim option
- · Cavitation trim option
- WCB, 316SS, 317SS, and other alloy materials
- Metal Seated



Patent Number: US 8,398,055 B2

ORDERING SCHEMATIC ORDERING SCHEMATIC





DESCRIPTION

The segmented V-port ball control valve provides excellent modulating control with obstruction free design.

The uni-body construction gives increases structural integrity and minimized leaks through body joints.

The specially designed compound V opening provides precise equal percentage flow control with small incremental opening in the lower end of the valve rotation and high flow capacity in the upper end. The nearly wide open at full open, along with recessed bearings virtually eliminates plugging/clogging of the valve





DESIGN AND CONSTRUCTION

The valve's design allows control of the most fluids used in many industries. The valve is suitable for fibers, particles in suspension, dirty, clean, viscous, and corrosive fluids, gas, steam, and especially pulp and paper applications.

The valve can be supplied with a variety of actuators, positioners, limit switches/transmitters, or other top works accessories.



OPERATION

The valve can be direct mounted (no mounting bracket or coupling) to:

- · J-Flow's JFD spring & diaphragm actuators,
- · J-Flow's JFC rack & pinion actuators, or
- · J-Flow's JFE electric actuators

They can be controlled with a variety of J-Flow positioners:

- Pneumatic
- · Electro-pneumatic
- Digital Smart

There are two actuator mounting options.

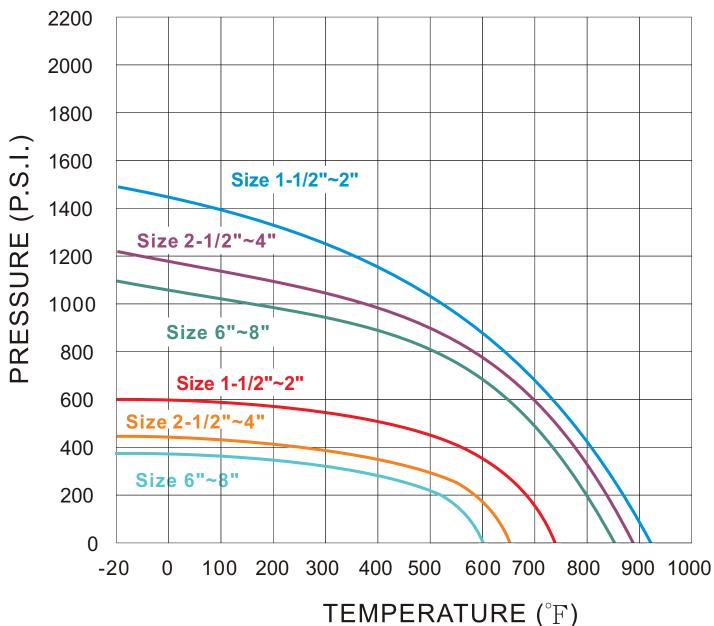
 The standard connection is direct mount compatible with any ISO5211 standard actuator. Optional splined connection for the installation of diaphragm actuators with DSY-DSZ conversions.







PRESSURE DIFFERENTIAL / TEMPERATURE CHART



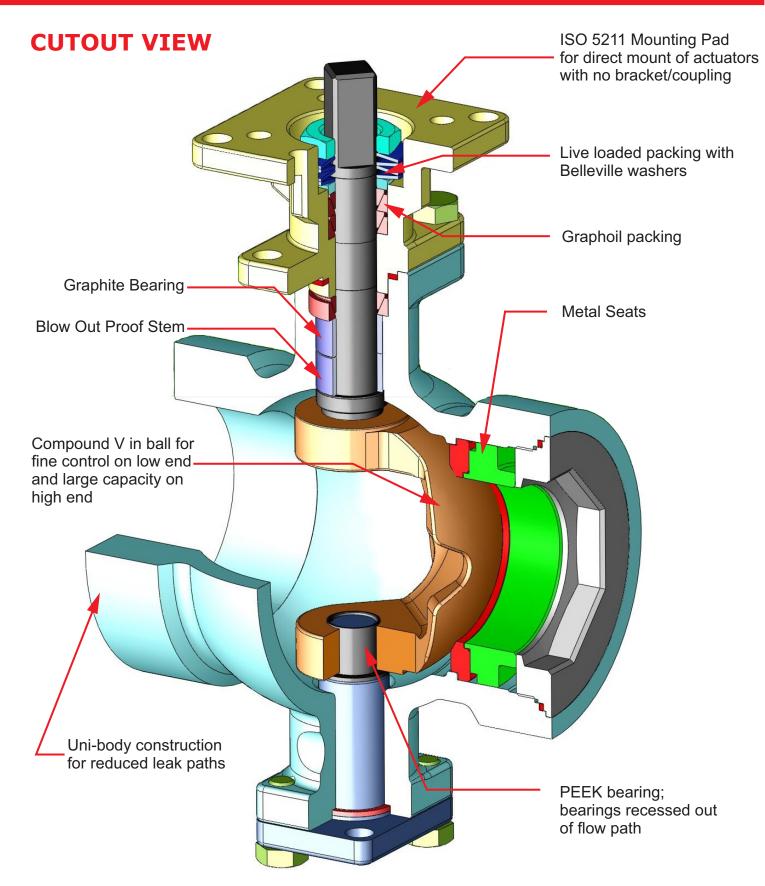
For seat in shut-off service 1-1/2"~2" — 2-1/2"~4"

For seat in control service

1-1/2"~2" —— 2-1/2"~4" 6"~8"



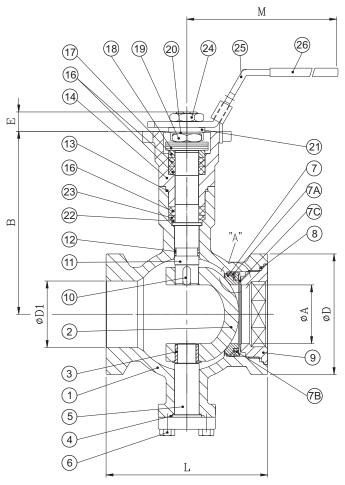




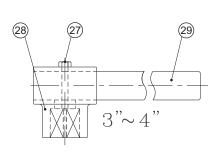


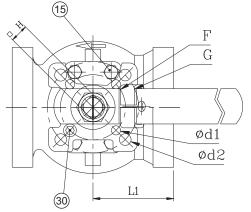


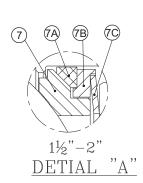
DM9900-W SERIES - 1.5" - 4" ANSI 600 WAFER (METAL SEATED)



NAME OF PARTS	. WCB			
BALL SEGMENT CF8M+HARD CHROME	. WCB			
3 BEARING PEEK				
4 GASKET GRAPHITE - 5 BOTTOM CAP A351 Gr. CF8M A216 Gr 6 BOTTOM CAP BOLTS SS 304 - 7 METAL SEAT SS316+STELLITED - 7A SEAT BACK SEAL GRAPHITE - 7B SEAT HOUSING SS 316 - 3PRING DISK(1-1/2"~2") INCONEL - 7C SEAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -				
5 BOTTOM CAP A351 Gr. CF8M A216 Gr 6 BOTTOM CAP BOLTS SS 304 - 7 METAL SEAT SS316+STELLITED - 7A SEAT BACK SEAL GRAPHITE - 7B SEAT HOUSING SS 316 - 7C SPRING DISK(1-1/2"~2") INCONEL - SEAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -				
6 BOTTOM CAP BOLTS SS 304 - 7 METAL SEAT SS316+STELLITED - 7A SEAT BACK SEAL GRAPHITE - 7B SEAT HOUSING SS 316 - 7C SPRING DISK(1-1/2"~2") INCONEL - SEAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -				
7 METAL SEAT SS316+STELLITED - 7A SEAT BACK SEAL GRAPHITE - 7B SEAT HOUSING SS 316 - 9C SPRING DISK(1-1/2"~2") INCONEL - 5EAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -	. WCB			
7A SEAT BACK SEAL GRAPHITE - 7B SEAT HOUSING SS 316 - 7C SPRING DISK(1-1/2"~2") INCONEL - 8 INSERT GASKET GRAPHITE -	. WCB			
7B SEAT HOUSING SS 316 - 7C SPRING DISK(1-1/2"~2") INCONEL - SEAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -	. WCB			
7C SPRING DISK(1-1/2"~2") INCONEL - SEAT SPRING(3"~4") INCONEL - 8 INSERT GASKET GRAPHITE -	. WCB			
SEAT SPRING(3"~4") INCONEL – 8 INSERT GASKET GRAPHITE –	. WCB			
8 INSERT GASKET GRAPHITE -	. WCB			
	. WCB			
10 KEY SS 316 -				
11 STEM SS 630(17-4PH) -	_			
12 BEARING PEEK -				
13 BONNET GASKET GRAPHITE -				
14 BONNET A351 Gr. CF8M A216 Gr	. WCB			
15 BONNET BOLTS SS 304 -				
16 STEM PACKING GRAPHITE -	-			
17 GLAND SS 304 -	_			
18 BELLEVILLE WASHER 17-7PH -	-			
19 STEM NUT SS 304 -				
20 NUT STOP SS 304 -				
21 SPACE WASHER SS 316 -				
22 THRUST WASHER PEEK -				
23 THRUST BACK SS316 -				
24 HANDLE NUT SS 304 -				
25 LOCK HANDLE SS 304 -				
26 HANDLE COVER PLASTISOL -				
27 SET BOLT SS 304 -				
28 LEVER HEAD A351 CF8 -				
29 LEVER STEEL PIPE -				
30 STOP PIN SS 304 -				

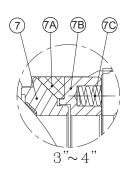






UNIT: MM/INCH

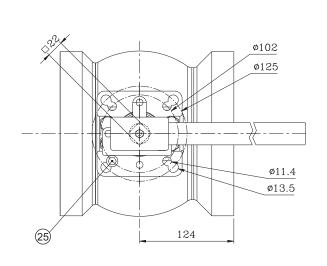
OWII. Milly INOII														
SIZE		Α	В	D	E	M	L(ISA)	L1	Н	D1	F	G	d1	d2
1½"	MM	34	121.6	73.2	14	205	114	57	14	38.1	50	70	7.2	9.3
172	INCH	1.338	4.787	2.88	0.551	8.070	4.50	2.244	0.551	1.500	1.969	2.756	0.283	0.366
2"	MM	45	140.3	91.9	14	205	124	62	14	50.8	50	70	7.2	9.3
	INCH	1.772	5.523	3.62	0.551	8.070	4.88	2.441	0.551	2.000	1.969	2.756	0.283	0.366
3"	MM	66	169	127	21	310	165.1	87	17	83.5	70	102	9.2	11.4
J	INCH	2.598	6.653	5.00	0.826	12.204	6.50	0.425	0.669	3.287	2.756	4.016	0.362	0.449
4"	MM	80.2	183	157.2	21	310	193.5	102.8	17	98.5	70	102	9.2	11.4
	INCH	3.157	7.204	6.19	0.826	12.204	7.62	4.047	0.669	3.877	2.756	4.016	0.362	0.449

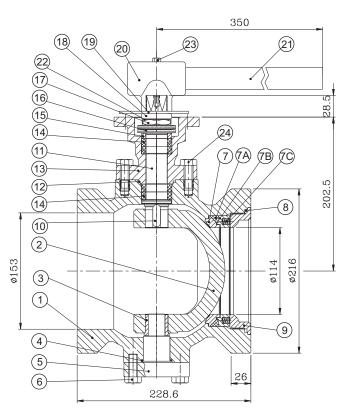






DM9900-W SERIES - 6" ANSI 600 WAFER (METAL SEATED)



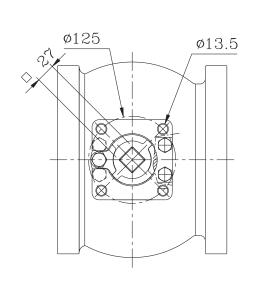


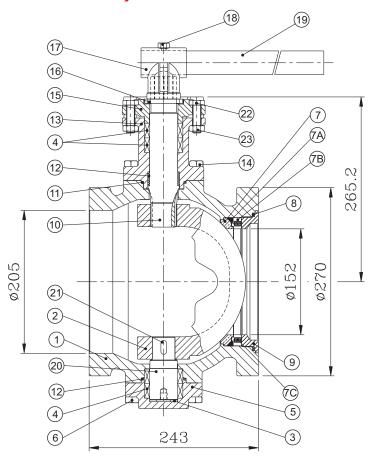
NO.	NAME OF PARTS	MATERIALS	OPTION		
1	BODY	A351 Gr. CF8M	A216 Gr. WCB		
2	BALL SEGMENT	CF8M+HARD CHROME	_		
3	BEARING	PEEK	_		
4	GASKET	GRAPHITE	-		
5	BOTTOM CAP	A351 Gr. CF8M	A216 Gr. WCB		
6	BOTTOM CAP BOLTS	SS 304	_		
7	METAL SEAT	SS316+STELLITED	-		
7A	BACK SEAL	GRAPHITE	_		
7B	HOUSING	SS 316	_		
7C	COMPRESSION SPRING	INCONEL	_		
8	INSERT GASKET	GRAPHITE	_		
9	INSERT CAP	A351 Gr. CF8M	A216 Gr. WCB		
10	KEY	SS 316	_		
11	STEM	SS 630(17-4PH)	-		
12	BONNET GASKET	GRAPHITE	_		
13	BONNET	A351 Gr. CF8M	A216 Gr. WCB		
14	STEM PACKING	GRAPHITE	_		
15	GLAND	SS 304	_		
16	BELLEVILLE WASHER	17-7PH	-		
17	STEM NUT	SS 304	_		
18	GLAND SPACE	SS 304	_		
19	STOP PLATE	SS 304	_		
20	HANDLE HEAD	A351 Gr. CF8	_		
21	HANDLE TUBE	CARBON STEEL	_		
22	NUT STOP	SS 304	_		
23	SET BOLT	SS 304	_		
24	BONNET BOLTS	SS 304			
25	STOP PIN	SS 304	_		





DM9900-W SERIES - 8" ANSI 600 WAFER (METAL SEATED)





		MARRIAG OPHION					
NO.	NAME OF PARTS	MATERIALS OPTION					
1	BODY	A351 Gr. CF8M A216 Gr. WCB					
2	BALL SEGMENT	CF8M+HARD CHROME PLATE					
3	THRUST WASHER	17-4PH					
4	STEM PACKING	GRAPHITE					
5	BOTTOM CAP	A351 Gr. CF8M A216 Gr. WCB					
6	BOTTOM BOLTS	SS 304					
7	SEAT	SS316+STELLITED					
7A	SEAT BACK SEAL	GRAPHITE					
7B	SEAT HOUSING	SS 316					
7C	SEAT SPRING	INCONEL					
8	INSERT GASKET	GRAPHITE					
9	INSERT CAP	A351 Gr. CF8M A216 Gr. WCB					
10	STEM	17-4PH					
11	BONNET GASKET	GRAPHITE					
12	BEARING	PEEK					
13	BONNET	A351 Gr. CF8M A216 Gr. WCB					
14	BONNET BOLTS	SS 304					
15	GLAND	A351 Gr. CF8					
16	STOP PLATE	SS 304					
17	HANDLE HEAD	SS 304					
18	SET BOLT	SS 304					
19	HANDLE TUBE	CARBON STEEL					
20	BOTTOM STEM	SS 316					
21	KEY	SS 316					
22	GLAND BOLTS	SS 304					
23	NUTS	SS 304					

