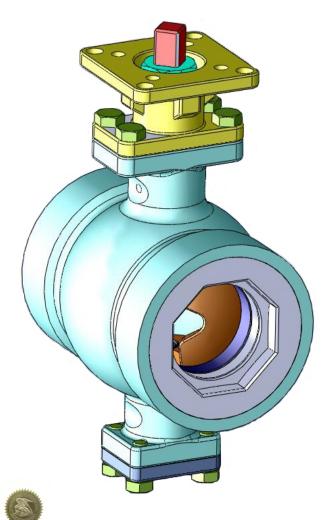


# DM9900-W Series Wafer Segmented V-Port Control Valve

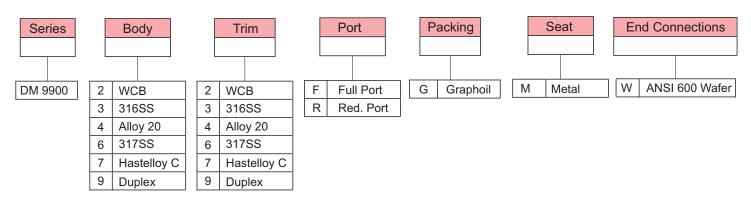
# **DESIGN FEATURES**

- 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

JFLOW

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.

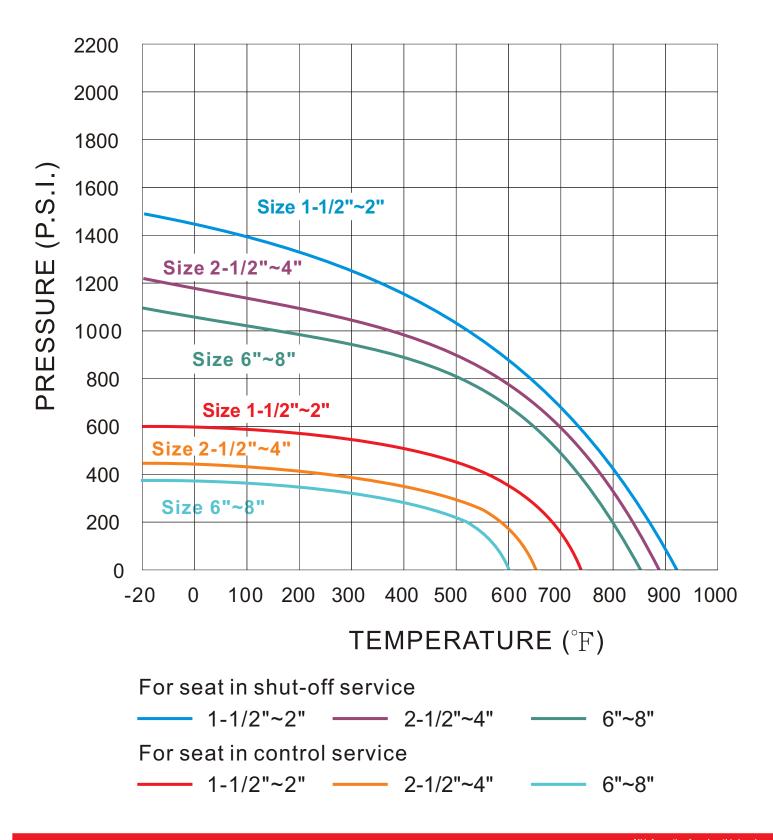
 The standard connection is direct mount compatible with any ISO5211 standard actuator. Optional splined connection for the installation of diaphragm actuators with DSY-DSZ conversions.



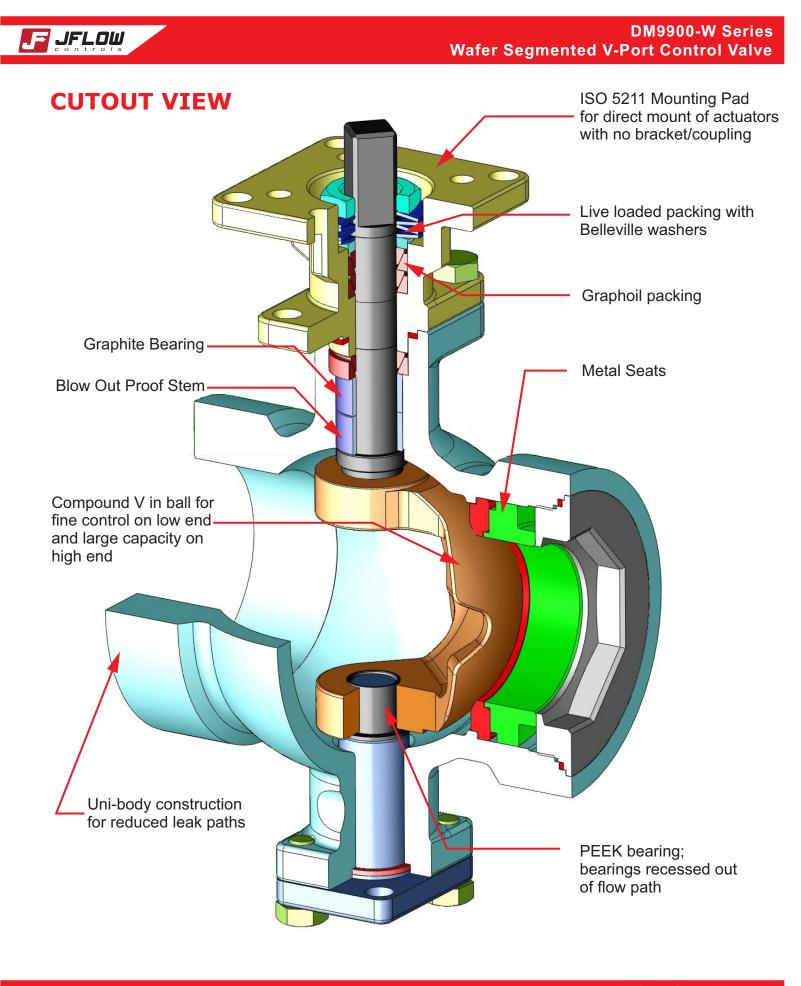


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#### **PRESSURE DIFFERENTIAL / TEMPERATURE CHART**





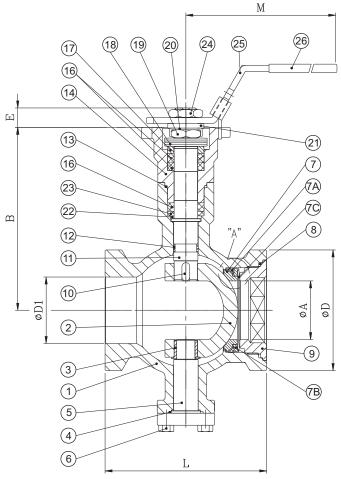


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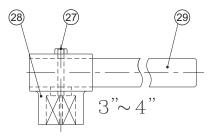
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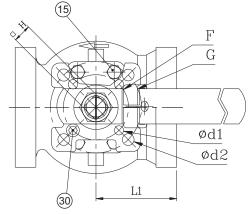


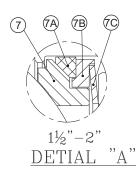
#### DM9900-W SERIES - 1.5" - 4" ANSI 600 WAFER (METAL SEATED)



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	SEAT BACK SEAL	GRAPHITE	-
7B	SEAT HOUSING	SS 316	-
7C	SPRING DISK(1-1/2"~2")	INCONEL	-
<i>n</i> C	SEAT SPRING(3"~4")	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	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	-

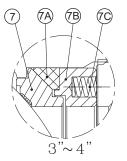






#### UNIT: MM/INCH

E.															· · · · · · · · · · · · · · · · · · ·
	SIZE		А	В	D	Ε	М	L(ISA)	L1	Η	D1	F	G	d1	d2
1½"	ММ	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"	ວ"	ММ	45	140.3	91.9	14	205	124	62	14	50.8	50	70	7.2	9.3
	r.	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
o"	3"	ММ	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"	<i>1</i> "	ММ	80.2	183	157.2	21	310	193.5	102.8	17	98.5	70	102	9.2	11.4
	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

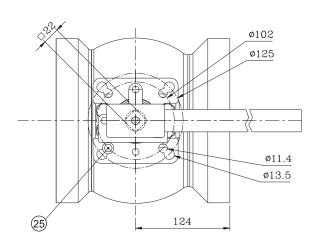


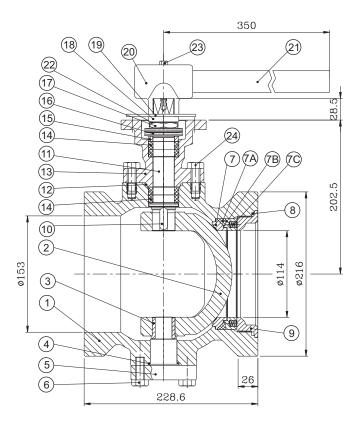


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#### DM9900-W SERIES - 6" ANSI 600 WAFER (METAL SEATED)



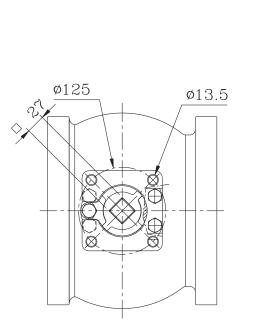


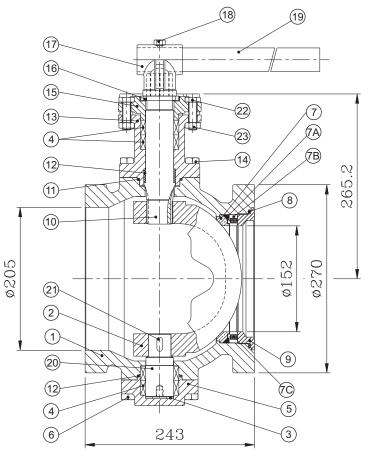
NO.NAME OF PARTSMATERIALS OPTION1BODYA351 Gr. CF8MA216 Gr. WCB2BALL SEGMENTCF8M+HARD CHROME-3BEARINGPEEK-4GASKETGRAPHITE-5BOTTOM CAPA351 Gr. CF8MA216 Gr. WCB6BOTTOM CAP BOLTSSS 304-7METAL SEATSS16+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-25CREOP DINSS 304-						
2BALL SEGMENTCF8M+HARD CHROME-3BEARINGPEEK-4GASKETGRAPHITE-5BOTTOM CAPA351 Gr. CF8MA216 Gr. WCB6BOTTOM CAP BOLTSSS 304-7METAL SEATSS316+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-19STOP PLATESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	NO.	NAME OF PARTS	MATERIALS	OPTION		
3BEARINGPEEK4GASKETGRAPHITE5BOTTOM CAPA351 Gr. CF8MA216 Gr. WCB6BOTTOM CAP BOLTSSS 304-7METAL SEATSS316+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	1	BODY	A351 Gr. CF8M	A216 Gr. WCB		
4GASKETGRAPHITE-5BOTTOM CAPA351 Gr. CF8MA216 Gr. WCB6BOTTOM CAP BOLTSSS 304-7METAL SEATSS316+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-		BALL SEGMENT	CF8M+HARD CHROME	-		
5BOTTOM CAPA351Gr.CF8MA216Gr.WCB6BOTTOM CAP BOLTSSS $304$ 7METAL SEATSS16+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS $316$ -7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351Gr.CF8M10KEYSS $316$ -11STEMSS $630(17-4PH)$ -12BONNETGASKETGRAPHITE-13BONNETA351Gr.CF8M14STEM PACKINGGRAPHITE-15GLANDSS $304$ -16BELLEVILLEWASHER $17-7PH$ -17STEM NUTSS $304$ -18GLAND SPACESS $304$ -20HANDLE HEADA351Gr.CF821HANDLE TUBECARBON STEEL-22NUT STOPSS $304$ -23SET BOLTSS $304$ -24BONNET BOLTSSS $304$ -	3	BEARING	PEEK	—		
6BOTTOM CAP BOLTSSS 3047METAL SEATSS316+STELLITED7ABACK SEALGRAPHITE7BHOUSINGSS 3167CCOMPRESSION SPRINGINCONEL8INSERT GASKETGRAPHITE9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 31611STEMSS 630(17-4PH)12BONNET GASKETGRAPHITE13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE15GLANDSS 30416BELLEVILLE WASHER17-7PH17STEM NUTSS 30418GLAND SPACESS 30420HANDLE HEADA351 Gr. CF821HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	4	GASKET	GRAPHITE	_		
7METAL SEATSS316+STELLITED-7ABACK SEALGRAPHITE-7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	5	BOTTOM CAP	A351 Gr. CF8M	A216 Gr. WCB		
7ABACK SEALGRAPHITE7BHOUSINGSS 3167CCOMPRESSION SPRINGINCONEL8INSERT GASKETGRAPHITE9INSERT CAPA351 Gr. CF8M10KEYSS 31611STEMSS 630(17-4PH)12BONNET GASKETGRAPHITE13BONNETA351 Gr. CF8M14STEM PACKINGGRAPHITE15GLANDSS 30416BELLEVILLE WASHER17-7PH17STEM NUTSS 30418GLAND SPACESS 30419STOP PLATESS 30420HANDLE HEADA351 Gr. CF821HANDLE TUBECARBON STEEL23SET BOLTSS 30424BONNET BOLTSSS 304	-	BOTTOM CAP BOLTS	SS 304	_		
7BHOUSINGSS 316-7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-23SET BOLTSS 304-24BONNET BOLTSSS 304-	7	METAL SEAT	SS316+STELLITED	_		
7CCOMPRESSION SPRINGINCONEL-8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-19STOP PLATESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-23SET BOLTSS 304-24BONNET BOLTSSS 304-	7A	BACK SEAL	GRAPHITE	-		
8INSERT GASKETGRAPHITE-9INSERT CAPA351 Gr. CF8MA216 Gr. WCB10KEYSS 316-11STEMSS 630(17-4PH)-12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-19STOP PLATESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-23SET BOLTSS 304-24BONNET BOLTSSS 304-	7B	HOUSING	SS 316	-		
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   -	7C	COMPRESSION SPRING	INCONEL	-		
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   -	8	INSERT GASKET	GRAPHITE	_		
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   -	9	INSERT CAP	A351 Gr. CF8M	A216 Gr. WCB		
12BONNET GASKETGRAPHITE-13BONNETA351 Gr. CF8MA216 Gr. WCB14STEM PACKINGGRAPHITE-15GLANDSS 304-16BELLEVILLE WASHER17-7PH-17STEM NUTSS 304-18GLAND SPACESS 304-19STOP PLATESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-23SET BOLTSS 304-24BONNET BOLTSSS 304-	10	KEY	SS 316	_		
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   -	11	STEM	SS 630(17-4PH)	-		
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   -	12	BONNET GASKET	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 -	13	BONNET	A351 Gr. CF8M	A216 Gr. WCB		
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   -	14	STEM PACKING	GRAPHITE	_		
17STEM NUTSS304-18GLAND SPACESS304-19STOP PLATESS304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS304-23SET BOLTSS304-24BONNET BOLTSSS304-	15	GLAND	SS 304	_		
18GLAND SPACESS304-19STOP PLATESS304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS304-23SET BOLTSS304-24BONNET BOLTSSS304-	16	BELLEVILLE WASHER	17-7PH	-		
19STOP PLATESS 304-20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	17	STEM NUT	SS 304	_		
20HANDLE HEADA351 Gr. CF8-21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	18	GLAND SPACE		-		
21HANDLE TUBECARBON STEEL-22NUT STOPSS 304-23SET BOLTSS 304-24BONNET BOLTSSS 304-	19	STOP PLATE		-		
22   NUT STOP   SS 304   -     23   SET BOLT   SS 304   -     24   BONNET BOLTS   SS 304   -	20	HANDLE HEAD	A351 Gr. CF8	_		
23   SET BOLT   SS 304   -     24   BONNET BOLTS   SS 304   -		HANDLE TUBE	CARBON STEEL	-		
24 BONNET BOLTS SS 304		NUT STOP		_		
	23	SET BOLT		-		
	24	BONNET BOLTS	SS 304			
20   510P PIN   55 304 -	25	STOP PIN	SS 304	-		



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### DM9900-W SERIES - 8" 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 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			



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