



M&H Valve Co.
ANNISTON, ALABAMA

M&H AWWA Double Disc Gate Valves

- Styles 67-NRS; 68-OS&Y
- Sizes 4"-42"
- Water Service

GENERAL

Gate valves shall be of the double disc, parallel seat, iron body, bronze mounted, bottom wedge type. They shall comply with the American Water Works Association Gate Valve Standard C-500 as latest revised.

RATING

Gate Valves shall be rated at 200 psi water working pressure with 400 psi hydrostatic test for structural soundness for 2" through 12" and 150 psi water working pressure, with 300 psi hydrostatic test for structure soundness sizes 14" through 42".

Testing shall be conducted in accordance with AWWA C-500.

END CONFIGURATIONS

Gate valves shall be furnished with type of end connection specified as follows: 125# ANSI flanged ends, mechanical joint per AWWA C-111 with (without) accessories. Asbestos cement suitable for use with Class 150 or 200 machined end A/C pipe (gaskets by others), screwed ends, PVC plastic suitable for use with PVC water pipe made to steel pipe OD's, Class D hubs (bell end), flange by mechanical joint, or flange by A/C, Push-on 4"-12" for cast iron, ductile iron or C900 plastic pipe.

MATERIALS

All cast iron shall conform to ASTM-A-126 Class B. Castings shall be clean and sound without defects that will impair their service. No plugging or welding of such defects will be allowed.

Stems shall be manganese bronze having a minimum tensile strength of 60,000 psi, a minimum yield of 20,000 psi for valve sizes through 24"; and a minimum tensile strength of 80,000 psi, a minimum yield of 32,000 psi for valve sizes 30" and larger.

Bolts shall be electro-zinc plated steel with hex heads and hex nuts in accordance with ASTM A-307.

DESIGN

Gate valves shall be of the non-rising stem type or the rising stem type (OS&Y) meeting all of the applicable requirements of AWWA C500.

NRS stem collars shall be cast integral with the stem and machined to size. The housing for the valve stem collar shall be machined. For sizes 16" and above the thrust bearing area shall be fully bronze lined.

NRS valves shall be furnished with O-ring seals using two O-rings located above the stem collar. 2"-12" valve O-rings shall be set in grooves in the stem, the O-ring groove shall not be less than the root diameter of the stem threads. 14" and larger valves shall have O-rings set in the seal plate. OS&Y valves shall be furnished with conventional type packing.

Disc for valve sizes 2" and 2½" shall be solid bronze and for sizes 3" and above they shall be cast iron, bronze faced. Bronze facing shall be machined after insertion into disc face.

Disc spreaders for all valve sizes shall be bronze. In addition, disc spreader pockets for valves 16" and larger shall be bronze lined.

Valve bodies shall have guides cast integrally to align the discs during travel.

For valves 16" and larger, gearing and by-pass valves are available and recommended.

Bronze rollers, tracks, and scrapers shall be furnished on valves 16" and larger intended for horizontal installation in horizontal line.

Direction to open shall be counter-clockwise unless otherwise specified by customer.

The inside and outside of all valves, together with the working parts except bronze and machined faces, shall be coated in accordance with AWWA standards and Federal Spec TT-C-494A or equal.

MARKING

Marking shall be in accordance with AWWA C-500 standards, to include name of the manufacturer, the year of manufacture, the maximum working pressure and size of valve.

Styles 67 & 68

Dresser M&H Gate Valves

AWWA Double Disc-Parallel Seat

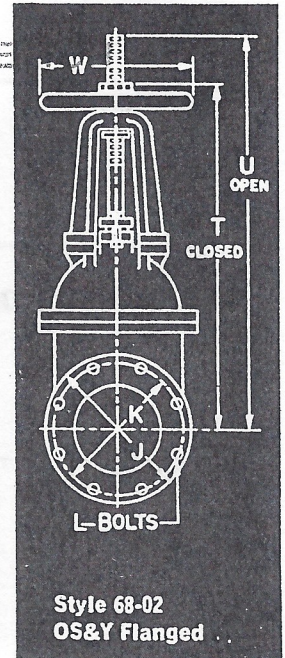
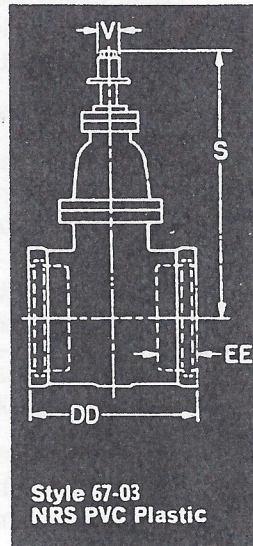
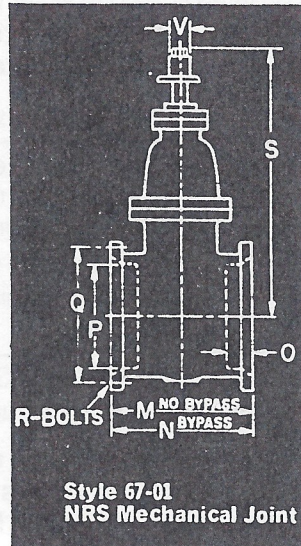
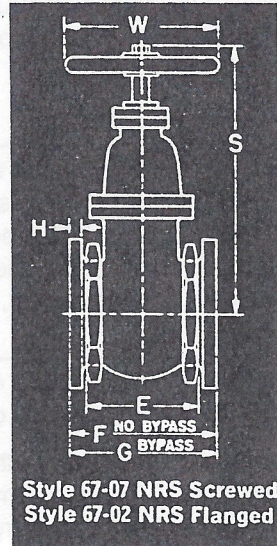
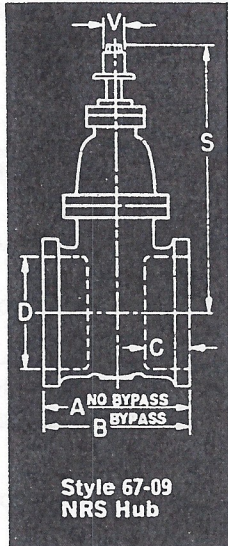
RECEIVED

2" to 12" — 200 PSI Working Pressure
400 PSI Hydrostatic Test

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14" to 42" — 150 PSI Working Pressure
300 PSI Hydrostatic Test

PORT OF BREME



DIMENSIONS IN INCHES

		Size of Valve																
		2	2½	3	4	6	8	10	12	14	16	18	20	24	30	36	42	
Hub	A No By-Pass	8	—	10¾	12	12¾	13¾	14	14½	15¼	16¾	16¾	17¼	25¼	28½	32½	36¾	
	B With By-Pass	—	—	—	—	—	—	—	19½	19½	21¾	22¾	22¾	25¼	28½	32½	36¾	
	C Hub Depth	2½	—	3½	3¾	4	3¾	—	—	—	—	—	—	4	4½	4½	5	
	D I.D. of Hub	3.50	—	4.76	5.80	7.90	10.10	12.20	14.30	16.45	18.80	20.92	23.06	27.32	33.75	40.00	46.58	
Scr.	X Laying Length—No By-Pass	3	—	3¾	4¼	4¾	5½	6¼	6½	7¼	8¾	8¾	9¼	17¼	19½	23½	26¾	
	E End to End	5¾	5¾	6¾	7¾	8½	—	—	—	—	—	—	—	—	—	—	—	
Flanged	F No By-Pass	7	7½	8	9	10½	11½	13	14	15	16	18½	20¼	24¼	28¼	33½	38½	
	G With By-Pass	—	—	—	—	—	—	—	17	17	20¼	20¼	20¼	24¼	28¼	33½	38½	
	H Flange Thickness	¾	1¼	¾	1¼	1	1¼	1¾	1¼	1¾	1¾	1¾	1¾	1¾	2¼	2¾	2¾	2¾
	J Flange Diameter	6	7	7½	9	11	13½	16	19	21	23½	25	27½	32	38¼	46	53	
	K Bolt Circle Diameter	4¾	5½	6	7½	9½	11¼	14¼	17	18¾	21¼	22¼	25	29½	36	42¼	49½	
	L Number and Diameter of Bolts	4-¾	4-¾	4-¾	8-¾	8-¾	8-¾	12-¾	12-¾	12-¾	16-1	16-1	16-1	20-1½	20-1½	28-1¼	32-1¼	36-1½
Mech. Joint	M No By-Pass	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	N With By-Pass	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	O Hub Depth	2½	—	2½	2½	2¾	3	3	3	3	3	3	3	3	4	4	4	
	P I.D. of Hub	2.61	—	4.06	5.00	7.00	9.15	11.20	13.40	15.59	17.54	19.79	21.74	26.09	32.34	38.75	44.84	
	Q Bolt Circle Diameter	4¾	—	6¾	7¾	9½	11¼	14	16¼	18¾	21	23¼	25	30	36½	43¾	50¾	
	R Number and Diameter of Bolts	2-¾	—	4-¾	4-¾	6-¾	6-¾	8-¾	8-¾	10-¾	12-¾	12-¾	14-¾	16-¾	20-1	24-1	28-1¼	
Y Laying Length—No By-Pass	3	—	3¾	4¼	5	5½	6¾	6¾	9¼	15	17	19	24	22½	31	33		
Asbestos Cement	AA End to End	—	—	10¼	11¼	12	12¾	13¾	14½	16¼	17¼	—	—	—	—	—	—	
	BB Bell Depth	—	—	3½	3½	3½	3¾	3¾	4	4½	4½	—	—	—	—	—	—	
	CC Laying Length	—	—	3¾	4¼	5	5½	6¾	6¾	9¼	15	17	19	24	22½	31	33	
P.V.C.	DD End to End	10¼	12¾	11¾	11¼	12	12¾	—	—	—	—	—	—	—	—	—	—	
	EE Bell Depth	3½	3¾	4	3½	3½	3¾	—	—	—	—	—	—	—	—	—	—	
	FF Laying Length	3¾	5¾	3¾	4¼	5	5½	—	—	—	—	—	—	—	—	—	—	
All Styles	S Conv. Packing Double Disc	10¾	12¾	16¾	17¾	21¾	25	29½	33¾	36¾	43¾	47¾	50¾	59¼	70¾	81¼	—	
	S Conv. Packing Solid Wedge	10¾	12¾	16¾	17¾	21¾	25	29½	33¾	36¾	43¾	47¾	50¾	59¼	74¼	84¾	—	
	S "O"-Ring Packing Double Disc	9¼	10¾	13¾	15¾	18¾	22¼	26¼	29¾	33¾	36¾	43¾	47¾	54	65¼	—	—	
	T Center Valve—Top Stem (Closed)	11½	13½	16	18¾	24½	31½	38	43¾	49¾	58¾	64¾	69¾	83¾	100	108¼	—	
	U Center Valve—Top Stem (Open)	13¾	16¾	19¾	23¾	31	40¾	48¾	55¾	64¾	75¾	83¾	90¾	108¾	131	145¾	—	
	V Operating Nut Square	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	W Wheel Diameter	6	6	7½	9	12	14	16	18	20	22	24	24	30	30	36	36	
	Turns to Open—N.R.S.	6¼	8¼	10	12¼	19¼	25¼	31¼	37¼	44	50¼	56	62½	49¾	62	74¼	86¼	
	Turns to Open—OS&Y	7	8	10	9	13	17	21	25	29	34	38	42	50	62½	74¼	87	

NOTE: Gate valves for use with 2½" Mechanical Joint Pipe (not listed) can be supplied.
2", 2½, 14" and 18" are not recognized by AWWA

See Forms 676-5 and 676-6 for Parts List.

By DRS Date 7-9-87 FORM D676-3