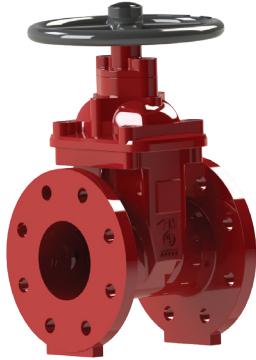


# AWWA C515-20 Resilient Seat GATE VALVES

# Model 2010-Series A Non Rising Stem 2"~12"



## MATERIAL LIST



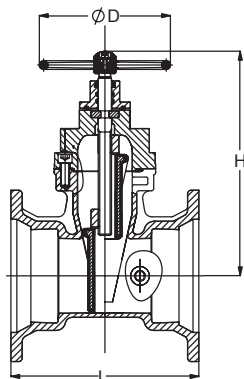
### Description:

1. Conforms to AWWA C515-20, MSS-SP-70
2. MJ dimensions conform to AWWA C153.
3. Flange drilling to ANSI 125/150
4. Face to face dimension in accordance with ANSI B16.10
5. Fusion Bond Epoxy Coated Interior and Exterior to AWWA C550 Standard
6. NSF-61/372 Certified
7. 2" Square Operating Nut provided. Color coded black. (open right valves provided with RED operating nuts)
8. Compatible with all industry standard Vertical Indicator Posts (NFPA 24)
9. Working Pressure:  
UL/FM rated working pressure: 2-1/2"~12" - 300 psi
10. Temperature: -23°C (-10°F) to 110°C (230°F)
11. All valves are furnished with two plugs - 2"~24" are 1/4"

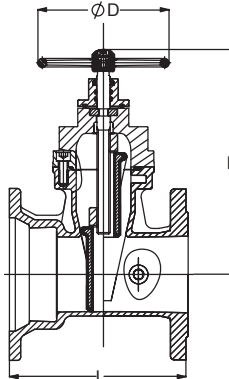
**Available:**  
MJ x Flange  
Flange x Flange  
MJ x MJ

Description	Material
Body	Ductile Iron ASTM A536 65-45-12
Wedge	EPDM Encapsulated DI
Stem	AISI SS 304, Optional - SS 316
Bonnet	Ductile Iron ASTM A536 65-45-12
Thrust Collar	Bronze ASTM C51100
Gland	Ductile Iron ASTM A536 65-45-12
Disc Nut	Bronze ASTM B62
Seat Ring	EPDM
O-ring	EPDM
Dust Proof Cover	EPDM
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Handwheel	Ductile Iron ASTM A536 65-45-12
Washer	Galvanized Carbon Steel
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Plug	AISI SS 304
Gasket	EPDM
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Dust Cap	ABS

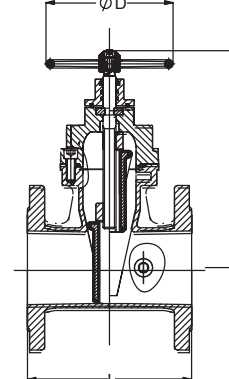
Design and materials are subject to change without notice.



MJ x MJ



Flange x MJ



Flange x Flange

## DIMENSIONAL DATA

Size	Part No. (MJ x MJ)	H	L	Part No. (Flange x MJ)	L	H	Part No. (Flange x Flange)	L	H	Turns to Open	D Hand- wheel Ø	Plug Size
2"	-	-	-	-	-	-	2010FF-120-A	7.0	11	6.5	7	1/4"
2-1/2"	-	-	-	-	-	-	2010FF-125-A	7.5	11	8.5	7	1/4"
3"	2010MM-130-A	11.8	9.5	2010FM-130-A	8.74	11.8	2010FF-130-A	8.0	12	10.5	10	1/4"
4"	2010MM-140-A	13.8	10	2010FM-140-A	9.50	13.8	2010FF-140-A	9.0	13	14	10	1/4"
5"	-	-	-	-	-	-	2010FF-150-A	10.0	16	16	12	1/4"
6"	2010MM-160-A	17.9	11.5	2010FM-160-A	11.00	17.9	2010FF-160-A	10.5	17	20	12	1/4"
8"	2010MM-180-A	21.5	12.5	2010FM-180-A	12.00	21.5	2010FF-180-A	11.5	21	25.5	14	1/4"
10"	2010MM-200-A	25.4	14.75	2010FM-200-A	13.88	25.4	2010FF-200-A	13.0	25	31.8	17.5	1/4"
12"	2010MM-220-A	28.8	14.88	2010FM-220-A	14.44	28.8	2010FF-220-A	14.0	28	38	17.5	1/4"



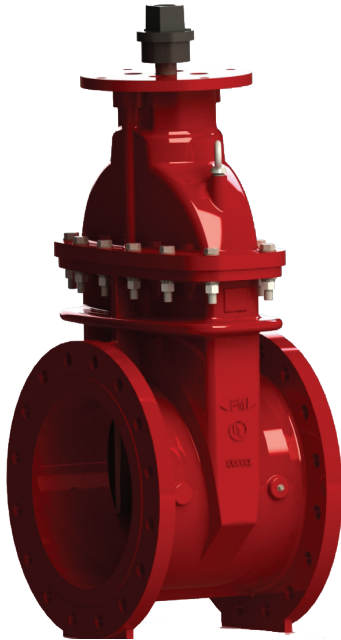
**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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Website: [www.napacinc.com](http://www.napacinc.com)

**AWWA C515-20  
Resilient Seat  
GATE VALVES**

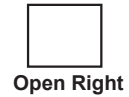
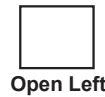
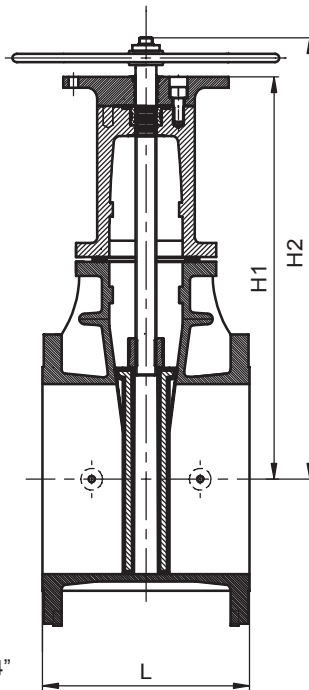
**Model 2010FF-Series A  
Non Rising Stem  
14"~24"**



**MATERIAL LIST**

DESCRIPTION	MATERIAL
Body	Ductile Iron ASTM A536 65-45-12
Wedge	EPDM Encapsulated DI
Stem	AISI SS 304, Optional - SS 316
Bonnet	Ductile Iron ASTM A536 65-45-12
Thrust Collar	Bronze ASTM C51100
Gland	Ductile Iron ASTM A536 65-45-12
Disc Nut	Bronze ASTM B62
Seat Ring	EPDM
O-ring	EPDM
Dust Proof Cover	EPDM
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Handwheel	Ductile Iron ASTM A536 65-45-12
Washer	Galvanized Carbon Steel
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Plug	AISI SS 304
Gasket	EPDM
Hex Socket Cap Screw	Zinc Plated Carbon Steel
Dust Cap	ABS

Design and materials are subject to change without notice.



**Description:**

1. Conforms to AWWA C515-20, MSS-SP-70
2. Flange drilling to ANSI 125/150.
3. Face to face dimension in accordance with ANSI B16.10.
4. Fusion Bond Epoxy Coated Interior and Exterior to AWWA C550 Standard.
5. NSF-61/372 Certified
6. 2" Square Operating Nut provided. Color coded black. (open right valves provided with RED operating nuts).
7. Compatible with all industry standard Vertical Indicator Posts (NFPA 24).
8. Working Pressure:  
UL/FM rated working pressure: 14"~18" - 250 psi  
20"~24" - 200 psi
9. Temperature: -23°C (-10°F) to 110°C (230°F)
10. All valves are furnished with two plugs - 2"~24" are 1/4"

**DIMENSIONAL DATA**

Size	Part No. (Flange x Flange)	L	H1	H2	Turns to Open	D Handwheel Ø	Plug Size
14"	2010FF-240-A	15.0	30	33	45	20	1/4"
16"	2010FF-260-A	16.0	32	36	51	22	1/4"
18"	2010FF-280-A	17.0	37	40	57.5	24	1/4"
20"	2010FF-300-A	18.0	40	44	42	24	1/4"
24"	2010FF-340-A	20.0	46	50	50.8	30	1/4"

Dimensions in inches



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



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# Cv for 2010 Series A NRS Gate Valve



Size	Cv (Fully Open)
2"	301
2.5"	500
3"	796
4"	1579
6"	3552
8"	6314
10"	10465
12"	15069
14"	20510
16"	26789
18"	33905
20"	41858
24"	60276

Cv Calculation:  $Cv = Q / (\Delta P)^{1/2}$

Q is the volume flow rate, the unit Usgal/min

$\Delta P$  is the pressure drop, the unit is  $(\text{lbf/in}^2)^{1/2}$

The unit of Cv is

$$\frac{\text{Usgal/min}}{(\text{lbf/in}^2)^{1/2}}$$



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