

ARITA UL/FM Resilient Seat NRS Gate Valve

General

Model

NGA-32FF series NRS Flange x Flange NGA-32GG series NRS Groove x Groove

NGA-32FG series NRS Flange x Groove

NGA-32FM series NRS Flange x Mechanical Joint



Features

Features	Benefit
Ductile Iron Body and Bonnet	Weighs ~50% less than conventional cast iron design, easy on-site handling and halved shipping cost
EPDM Coated Ductile Iron Wedge	Full encapsulated design ensures drop-tight sealing and reduction of wear and jamming
Bubble Tight Closure	Zero leakage at full rated pressure
Full Port Waterway	At full open, grants 100% smooth unobstructed flow
Epoxy Resin Coated Body and Bonnet	Enhanced UV protection in exposed installations for long and reliable service life, internally protect against corrosion and abrasion
Three Internal Parts Design	Easy maintenance
Tapping Bosses on Valve Body	Two factory-plugged NPT threaded tapping bosses for connection to pressure gauge or switches remove need of extra tapping saddle



Technical Data

Size

2 inch to 24 inch

Approval

UL Listed FM Approved

Pressure Rating

2 inch to 12 inch 300 PSI 14 inch to 24 inch 250 PSI

Temperature Rating

 $32^{\circ}F \sim 140^{\circ}F$

Standard

Compliance UL 262 / FM 1120 / FM 1130 / NFPA 11

NFPA 13 / NFPA 14 / NFPA 15 / NFPA 16

NFPA 20 / NFPA 22 / NFPA 24

Design Standard AWWA C509 / AWWA C515

Flange Connection Dimension ASME B16.1 Class 125 / ASME B16.42

ANSI 150

Groove Connection Dimension AWWA C606

Mechanical Joint Dimension AWWA C153 / A21.11

Epoxy Coating AWWA C550

Rubber to Iron bond on Wedge Inspected per ASTM D 429-73

Gasket and Seals standard UL 157



Material Specification

NGA32 Series

Body: Ductile Iron, ASTM A536 Gr. 65-45-12

Bonnet: Ductile Iron, ASTM A536 Gr. 65-45-12

Body/Bonnet Coating: Epoxy Resin Fusion Bonded

Stem: Stainless Steel, AISI SS304

Wedge: EPDM Coated Ductile Iron, ASTM A536 Gr. 65-45-12

Packing: PTFE

Gasket: EPDM

O-Ring: EPDM

Stem Nut: Bronze, ASTM B62

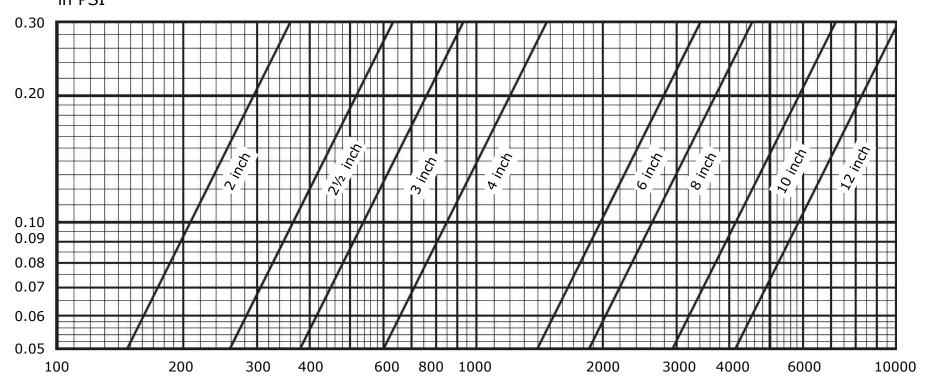
Bolt, Nut, Plug: ASTM SS304

Optional

Couple with UIP series (Underground) or WIP (Wall Post) series Indicator Post

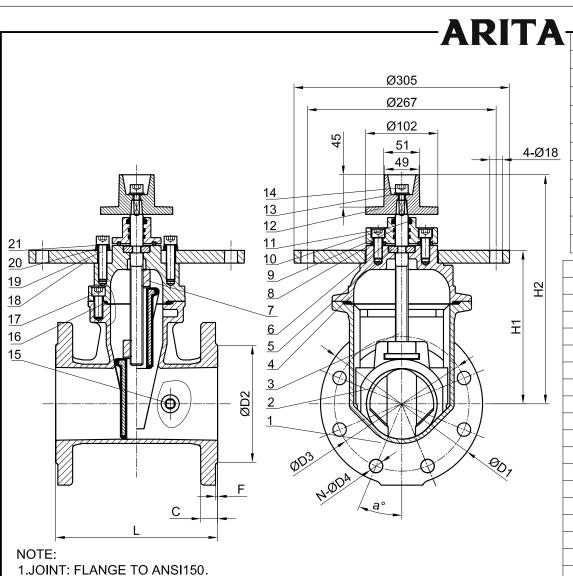
Flow Rate

Nominal Pressure Drop in PSI



Flow Rate in Gallons Per Minute (GPM)

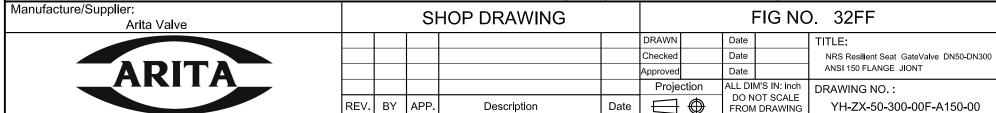
Gate Valve Friction Loss

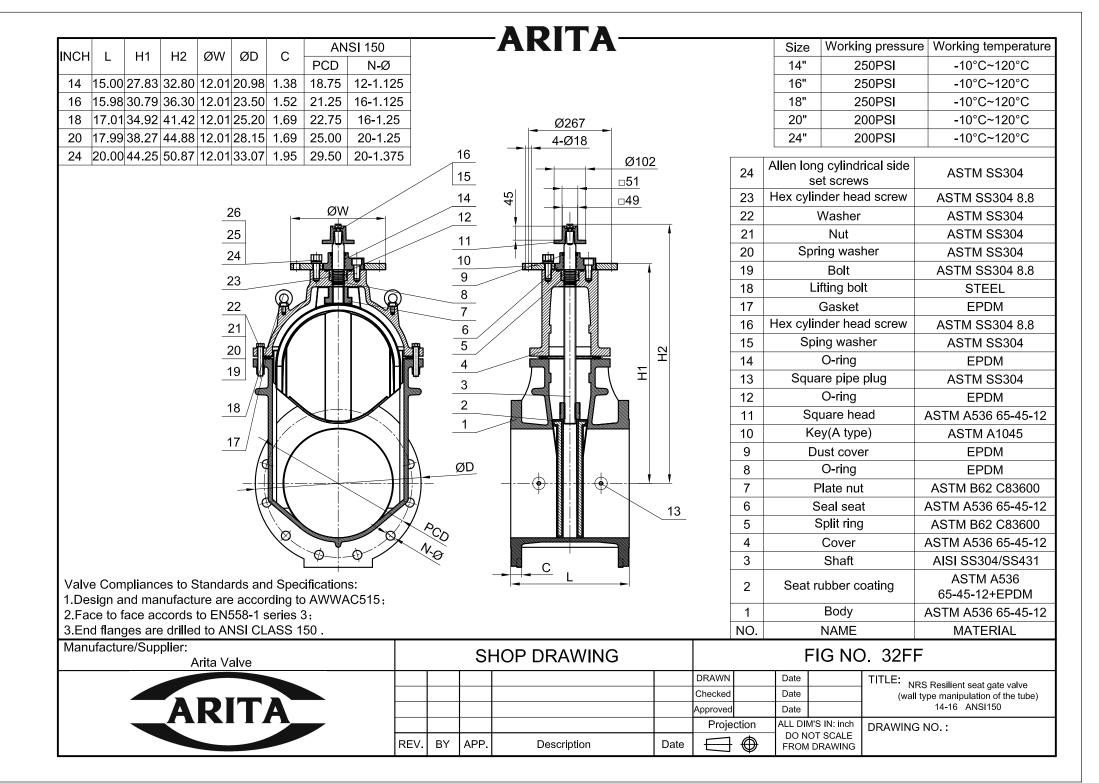


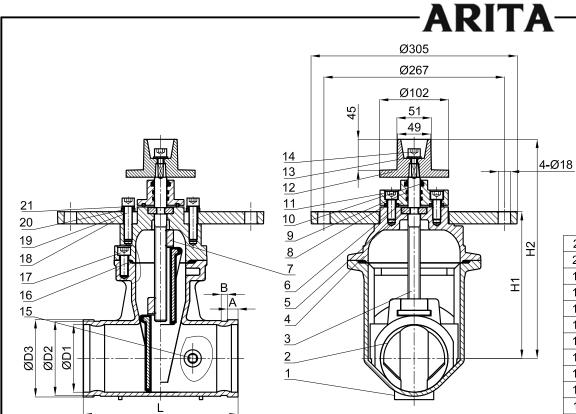
2.WORKING TEMPERATURE:0°C~65°C. 3.DESIGN STANDARD: AWWA C515. 4.WORKING PRESSURE:300PSI.

SIZE	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
Г	7.01	7.52	7.99	9.02	10.00	10.51	11.50	12.99	14.02
H1	6.81	6.81	7.60	8.54	10.94	12.28	15.63	19.37	22.76
H2	10.98	10.98	12.01	12.76	15.51	16.85	21.14	25.20	28.46
ΦD1	6. 50	7. 09	7. 48	9.06	10.04	11. 02	13. 58	15. 94	19. 09
O	0. 59	0. 65	0. 71	0. 90	0.90	0.96	1. 09	1. 15	1.21
ΦD2	3. 63	4. 13	5. 00	6. 19	7. 31	8.50	10. 63	12. 75	15.00
Ŧ	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
ØD3	4. 75	5.50	6. 00	7. 50	8.50	9. 50	11. 77	14. 25	17. 01
Z	4	4	4	8	8	8	8	12	12
a°	45°	45°	45°	22.5°	22.5°	22.5°	22.5°	15°	15°
ΦD4	0. 75	0. 75	0. 75	0. 75	0. 87	0. 87	0.87	1. 00	1. 00

21	SPRING WASHER	CARBON STEEL GALVANZATION
20	WASHER	CARBON STEEL GALVANZATION
19	HEX.SOCKET CAP SCREW	GR 8.8
18	POST FLANGE	ASTM A536 65-45-12
17	HEX.SOCKET CAP SCREW	GR 8.8
16	GASKET	EPDM
15	PLUG	ASTM SS304
14	HEX.SOCKET CAP SCREW	FR 8.8
13	WASHER	ASTM SS304
12	WRENCH NUT	ASTM A536 65-45-12
11	HEX.SOCKET CAP SCREW	GR 8.8
10	DUSTPROOF COVER	EPDM
9	O-RING	EPDM
8	SEAT RING	EPDM
7	DISC NUT	ASTM B62
6	GLAND	ASTM A536 65-45-12/ASTM A351 CF8
5	THRUST COLLAR	ASTM C51100
4	BONNET	ASTM A536 65-45-12
3	STEM	AISI SS304/SS420
2	WEDGE	ASTM A536 65-45-12+EPDM
1	BODY	ASTM A536 65-45-12
ITEM	NAME	MATERIAL







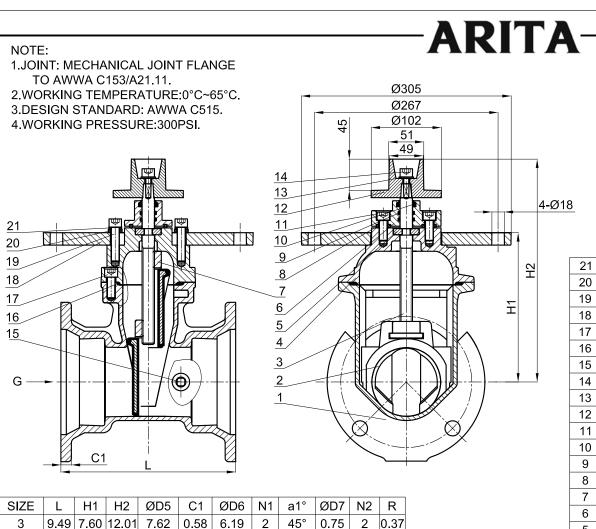
NOTE:

- 1.JOINT:GROOVED AWWA C606.
- 2.WORKING TEMPERATURE:0°C~65°C.
- 3.DESIGN STANDARD: AWWA C515.
- 4.WORKING PRESSURE:300PSI.

		-			-				
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L	7.01	7.52	7.99	9.02	10.00	10.51	11.50	12.99	14.02
H1	6.81	7.09	7.60	8.54	10.94	12.28	15.63	19.37	22.76
H2	10.98	10.98	12.01	12.76	15.51	16.85	21.14	25.20	28.46
Α	0.63	0.63	0.63	0.63	0.63	0.63	0.75	0.75	0.75
В	0.31	0.31	0.31	0.37	0.37	0.37	0.43	0.50	0.50
ØD1	1.97	2.56	3.15	3.94	4.92	5.91	7.87	9.84	11.81
ØD2	2.24	2.71	3.33	4.32	5.39	6.44	8.43	10.55	12.52
ØD3	2.37	2.87	3.50	4.50	5.56	6.63	8.63	10.75	12.75

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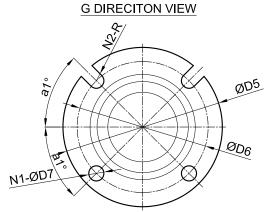
Manufacture/Supplier: FIG NO. 32GG **SHOP DRAWING** Arita Valve DRAWN TITLE: Date Date Checked NRS Resilient Seat GateValve ARITA 2-12 GROOVED JIONT Date Approved Projection ALL DIM'S IN: inch DRAWING NO.: DO NOT SCALE REV. BY APP. Description Date YH-ZX-2-12-00G-00 FROM DRAWING



REV.

BY APP.

Description



		'
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DO NOT SCALE

FROM DRAWING

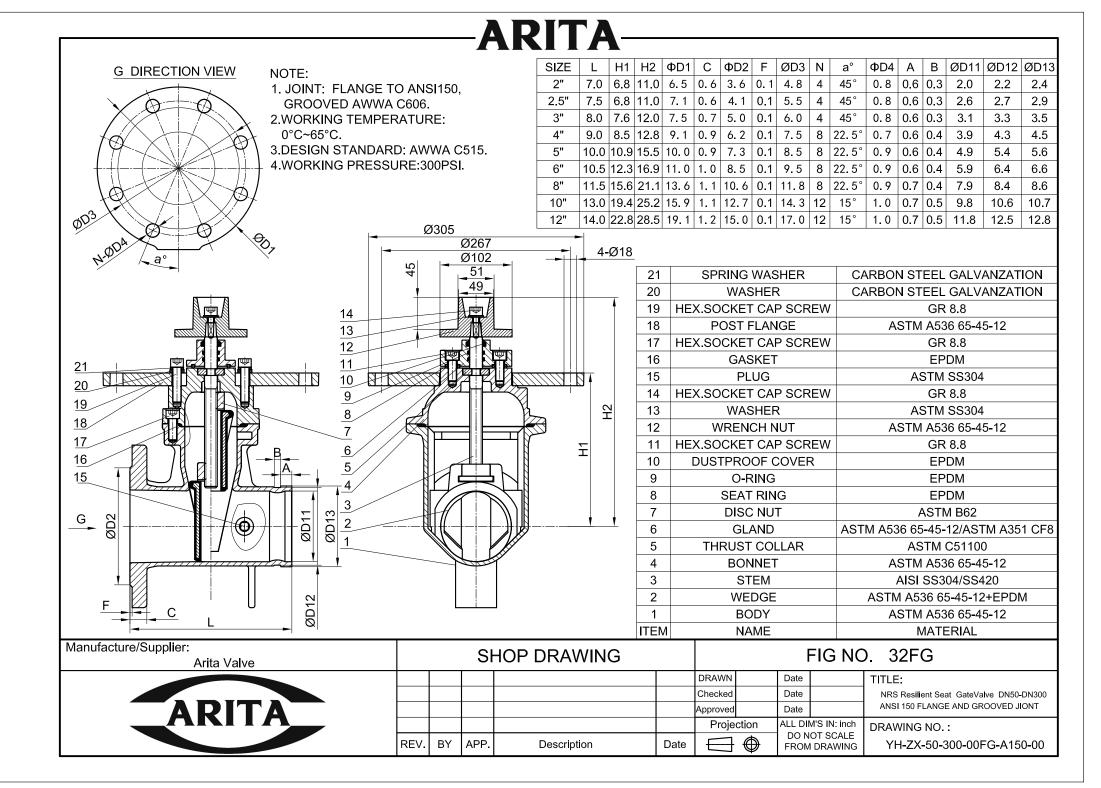
ARITA-ZX-3-12-00JJ-00

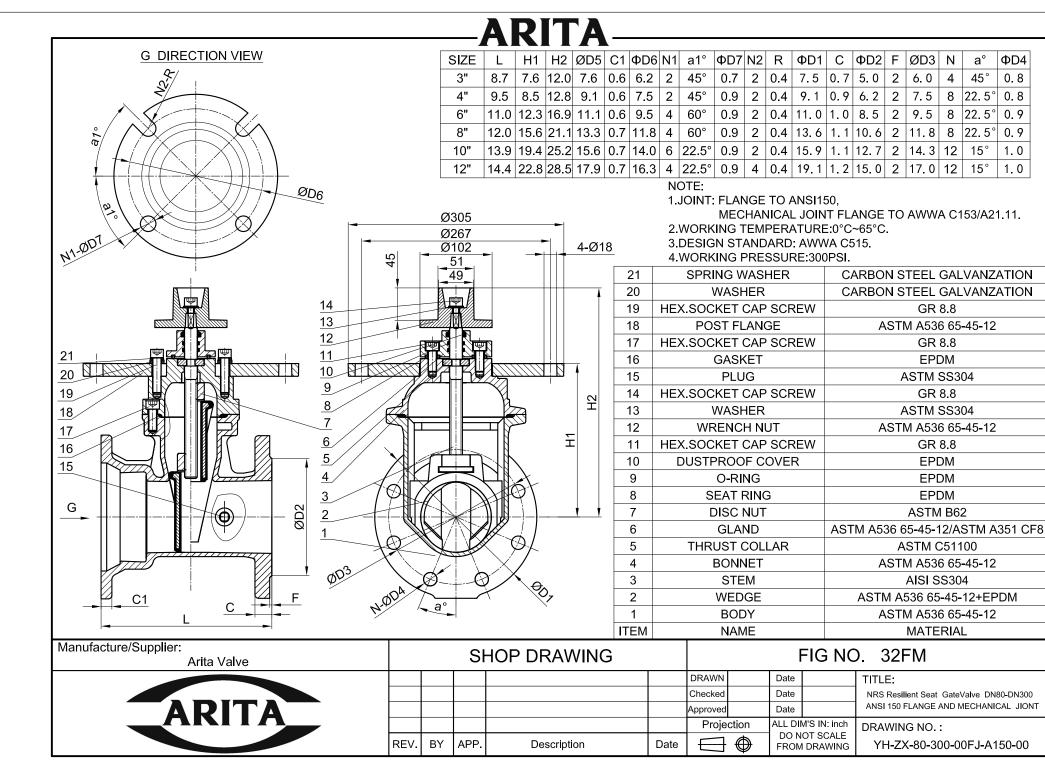
10.00 8.54 12.76 9.12 0.60 7.50 45° 0.87 2 0.43 11.50 12.28 16.85 | 11.10 | 0.63 | 9.50 2 0.43 4 60° 0.87 12.52 15.63 21.14 13.31 0.66 11.75 0.87 2 0.43 60° 14.76 19.37 25.20 15.63 | 0.70 | 14.00 22.5° 0.87 0.43 14.88 22.76 28.46 17.87 0.73 16.25 22.5° 0.87 0.43 4 4 Manufacture/Supplier:

Arita Valve

SHOP DRAWING					FIG NO. 32MJ				
				DRAV	'N	Date		TITLE:	
				Check	ed	Date		NRS Resilient Seat GateValve	
				Approv	ed	Date		3-12 MECHANICAL JOINT	
				Pro	iection	ALL DIN	/I'S IN: inch	DRAWING NO	

Date





ΦD4

0.8

0.8

0.9

1.0

1.0