

GATE VALVE

API Gate Valve

REF **EFC-2** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	NPS 2"–NPS 48"
Pressure	Class 150–Class 900
End connection	flanged (ASME B16.5) / flanged (ASME B16.47)
Face-to-face	ASME B16.10
Temperature	-29°C to 425°C
Media	Water, Steam, Oil

ACTUATION

- manual handwheel — QT400-18 ductile iron handwheel with bearing

STANDARDS

Design	API 600, BS 1414, ASME B16.34
Test	API 598



MATERIALS

body	Carbon Steel, Austenitic Stainless Steel	bonnet	Carbon Steel, Austenitic Stainless Steel
wedge	Carbon Steel with 13Cr overlay, Carbon Steel with Stellite overlay, Austenitic Stainless Steel	seat	Carbon Steel with 13Cr overlay, Carbon Steel with Stellite overlay, Austenitic Stainless Steel
stem	Martensitic Stainless Steel, Austenitic Stainless Steel	bolts	Alloy Steel, Austenitic Stainless Steel
nuts	Carbon Steel, Austenitic Stainless Steel	gasket	Graphite / Stainless Steel
back seat	Martensitic Stainless Steel, Austenitic Stainless Steel	packing	Graphite, PTFE
gland	Martensitic Stainless Steel, Austenitic Stainless Steel	gland flange	Carbon Steel, Austenitic Stainless Steel
stem nut	Copper Alloy / Tool Steel	hand wheel	Ductile Iron
bearing gland	Carbon Steel	pin	Carbon Steel, Austenitic Stainless Steel
grease nipple	Brass	nameplate	Stainless Steel
lock nut	Carbon Steel	disc	Carbon Steel, Stainless Steel

FEATURES

- Back seat provided for stem sealing
- Graphite packing standard; PTFE packing option available for CF8 and CF8M variants
- Wedge gate design
- Rising stem with stem nut in copper alloy or D2 tool steel
- Bolted bonnet construction
- Rising stem gate valve with flanged ends
- Handwheel operated
- Body casting markings indicate: DN100 (4 inch), Class 150, WCB carbon steel body

OPTIONS & NOTES

- Suitable Medium: Water, Steam, Oil, ect

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SECTION Dimensions per size REF EFC-2

SIZE	D	D	D1	D2	B	FN_BOLT_HOLE	L	H	W
NPS 2" (150LB)	51	152	120.5	92	16	1.6 4-ø19	178	354	200
NPS 2.5" (150LB)	64	178	139.5	105	18	1.6 4-ø19	190	384	220
NPS 3" (150LB)	76	190	152.5	127	19	1.6 4-ø19	203	440	250
NPS 4" (150LB)	102	229	190.5	157	24	1.6 8-ø19	229	495	280
NPS 5" (150LB)	127	254	216	186	24	1.6 8-ø22	254	550	300
NPS 6" (150LB)	152	279	241.5	216	26	1.6 8-ø22	267	620	300
NPS 8" (150LB)	203	343	298.5	270	29	1.6 8-ø22	292	768	350
NPS 10" (150LB)	254	406	362	324	31	1.6 12-ø25	330	937	400
NPS 12" (150LB)	305	483	432	381	32	1.6 12-ø25	356	1108	450
NPS 14" (150LB)	337	533	476	413	35	1.6 12-ø29	381	1253	500
NPS 16" (150LB)	387	597	540	470	37	1.6 16-ø29	406	1420	600
NPS 18" (150LB)	438	635	578	533	40	1.6 16-ø32	432	1500	680
NPS 20" (150LB)	489	699	635	584	43	1.6 20-ø32	457	1641	720
NPS 24" (150LB)	591	813	749.5	693	48	1.6 20-ø35	508	2048	600
NPS 28" (150LB)	692	927	864	800	72	1.6 28-ø35	610	2450	600
NPS 30" (150LB)	743	985	914.4	858	75	1.6 28-ø35	610	2953	600

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Dimensions per size (continued) · EFC-2

SIZE	D	D	D1	D2	B	FN_BOLT_HOLE	L	H	W	
NPS 2" (300LB)	51	165	127	92	23	1.6	8-ø19	216	368	220
NPS 2.5" (300LB)	64	190	149	105	26	1.6	8-ø22	241	391	220
NPS 3" (300LB)	76	210	168.5	127	29	1.6	8-ø22	283	442	280
NPS 4" (300LB)	102	254	200	157	32	1.6	8-ø22	305	507	300
NPS 5" (300LB)	127	279	235	186	35	1.6	8-ø22	381	570	300
NPS 6" (300LB)	152	318	270	216	37	1.6	12-ø22	403	653	350
NPS 8" (300LB)	203	381	330	270	42	1.6	12-ø25	419	782	400
NPS 10" (300LB)	254	445	387.5	324	48	1.6	16-ø29	457	990	450
NPS 12" (300LB)	305	521	451	381	51	1.6	16-ø32	502	1155	500
NPS 14" (300LB)	337	584	514.5	413	54	1.6	20-ø32	762	1253	460
NPS 16" (300LB)	387	648	571.5	470	58	1.6	20-ø35	838	1420	530
NPS 18" (300LB)	432	711	628.5	533	61	1.6	24-ø35	914	1530	530
NPS 20" (300LB)	483	775	686	584	64	1.6	24-ø35	991	1920	530
NPS 24" (300LB)	584	914	813	693	70	1.6	24-ø41	1143	2010	530
NPS 28" (300LB)	686	1035	940	800	86	1.6	28-ø45	1346	2596	600
NPS 30" (300LB)	737	1092	997	858	92	1.6	28-ø48	1397	2767	600
NPS 36" (300LB)	889	1270	1168	1023	105	1.6	32-ø54	1727	3159	600
NPS 2" (600LB — table labelled 900LB)	51	165	127	92	26	6.4	8-ø19	292	370	220
NPS 2.5" (600LB — table labelled 900LB)	64	190	149	100	29	6.4	8-ø22	330	442	220

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Dimensions per size (continued) · EFC-2

SIZE	D	D	D1	D2	B	FN_BOLT_HOLE	L	H	W
NPS 3" (600LB — table labelled 900LB)	76	210	168	127	32	6.4 8-ø22	356	470	280
NPS 4" (600LB — table labelled 900LB)	102	273	216	157	38	6.4 8-ø25	432	557	300
NPS 5" (600LB — table labelled 900LB)	127	330	266.5	186	45	6.4 8-ø29	508	626	350
NPS 6" (600LB — table labelled 900LB)	152	356	292	216	48	6.4 12-ø29	559	732	450
NPS 8" (600LB — table labelled 900LB)	200	419	349	270	56	6.4 12-ø32	660	866	500
NPS 10" (600LB — table labelled 900LB)	248	508	432	324	64	6.4 16-ø35	787	1002	650
NPS 12" (600LB — table labelled 900LB)	298	559	489	381	67	6.4 20-ø35	838	1230	530
NPS 14" (600LB — table labelled 900LB)	327	603	527	413	70	6.4 20-ø38	889	1443	530
NPS 16" (600LB — table labelled 900LB)	385	686	603	470	77	6.4 20-ø41	991	1593	530
NPS 18" (600LB — table labelled 900LB)	419	743	654	533	83	6.4 20-ø44	1092	1652	530
NPS 20" (600LB — table labelled 900LB)	464	813	724	584	89	6.4 24-ø44	1194	1925	600
NPS 24" (600LB — table labelled 900LB)	559	940	838	693	102	6.4 24-ø52	1397	2184	600

NPS 28" (600LB — table labelled 900LB)	670	1073	965.2	800	112	6.4	28-ø54	1549	2548	600
NPS 2" (900LB)	47	216	165	92	38.5	6.4	8-ø26	368	383	280
NPS 3" (900LB)	73	241	190.5	127	38.5	6.4	8-ø26	381	507	300
NPS 4" (900LB)	98	292	235	157	44.5	6.4	8-ø32	457	603	350
NPS 5" (900LB)	121	349	279.5	186	51	6.4	8-ø35	559	686	450

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Dimensions per size (continued) · EFC-2

SIZE	D	D	D1	D2	B	FN_BOLT_HOLE	L	H	W
NPS 6" (900LB)	146	381	317.5	216	56	6.4 12-ø32	610	802	500
NPS 8" (900LB)	190	470	393.5	270	63.5	6.4 12-ø38	737	956	600
NPS 10" (900LB)	238	546	470	324	70	6.4 16-ø38	838	1112	530
NPS 12" (900LB)	282	610	533.5	381	79.5	6.4 20-ø38	965	1370	530

All dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.