



DECOEN Tech
Engineering Services

Gate Valve



“Unrestricted Flow. Rugged Isolation Performance.”

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Gate Valve

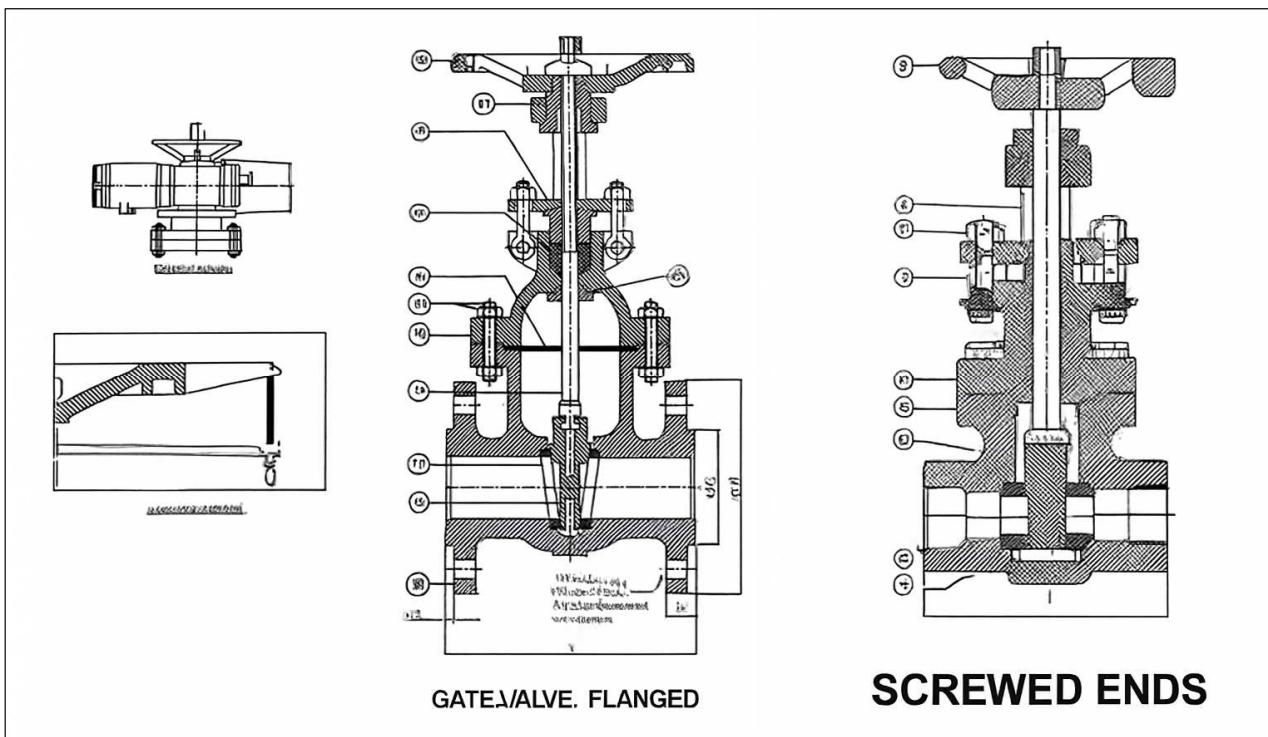
The gate valve is one of the most established products designed by our gate valve manufacturers for critical applications. It is used in industries involving hydrocarbons, severe service, cryogenic, hydrogen, oxygen, NACE, fugitive emissions, and more.

A gate valve is a type of valve used to control the flow of fluids through a pipe. Here's a more detailed explanation of its features and functions:

Technical Data

Design And Manufacturing	API 600
Valve Face To Face Dimension	AS PER ASME B16.10
Testing & Inspection STD	ASME B16.5
Inspection & Testing	API 598 / BS EN 12266-1
Shell (Wall) Thickness	ASME B 16.34
Socket Weld And Threaded To	ASME B 16.11 / ASME B 1.20.1
Butt Weld Ends	As per ASME B16.25
Flanged Ends	ASME B16.5
Seat Leakage	Tight Shut Off

Components:



Sr.No.	Description	Material	Qty
1	BODY	ASTM A216 Gr.WCB / CI	1
2	BONNET	ASTM A216 Gr.WCB / CI	1
3	WEDGE	AISI304 / AISI 316 / AISI 13% Cr. SS	1
4	STEM	AISI304 / AISI 316 / AISI 13% Cr. SS	1
5	SEAT RINGS	AISI304 / AISI 316 / AISI 13% Cr. SS	2
6	BACKSEAT BUSHING	AISI 410	1
7	GLAND	CARBON STEEL	1
8	GLAND FLANGE	ASTM A216 Gr.WCB	1
9	YOKE SLEEVE	AL. BRONZE / NI-RESIST	1
10	LOCK NUT	AISI 410	1
11	STEM PACKINGS	METALLIC WIRE REINFORCED GRAPHITED ASBESTOS	—
12	BONNET GASKET	SPIRAL WOUND METALLIC GASKET	1
13	BONNET STUDS	ASTM A193 Gr.B7	—
14	BONNET NUTS	ASTM A194 Gr.2H	—
14	BONNET NUTS	ASTM A194 Gr.2H	—
15	GLAND EYEBOLTS & NUTS	ASTM A193 Gr.B7 / ASTM A194 Gr.2H	2
16	GLAND LUG BOLTS & NUTS	ASTM A193 Gr.B7 / ASTM A194 Gr.2H	2
17	GREASE NIPPLE	STANDARD	1
18	KEY	CARBON STEEL	1
19	HANDWHEEL	CI / CS	1
20	HANDWHEEL NUT	CARBON STEEL	1

Flanged Dimension

Class 150

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	15mm	108.0	11.1	35	89.0	16	4	60.4
02	20mm	118.0	12.7	43	98.5	16	4	70.0
03	25mm	127.0	11.0	51	108.0	16	4	79.2
04	40mm	165.1	14.2	73	127.0	16	4	98.5
05	50mm	177.8	15.7	92	152.0	19	4	120.6
06	65mm	190.5	17.5	105	178.0	19	4	139.7
07	80mm	203.2	19.0	127	190.5	19	4	152.4
08	100mm	228.6	24.0	157	229.0	19	8	190.5
09	125mm	254.0	24.0	186	254.0	22	8	215.9
10	150mm	266.7	25.0	216	279.0	22	8	241.3
11	200mm	292.1	28.5	270	343.0	22	8	298.4
12	250mm	330.2	30.0	324	406.0	25	12	362.0
13	300mm	355.6	32.0	381	483.0	25	12	431.8

(DIMENSIONS ABOVE 600 MM AVAILABLE ON REQUEST)

Class 300

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	15mm	140.0	14.3	35	95.0	16	4	66.5
02	20mm	152.0	15.7	43	117.0	19	4	82.5
03	25mm	165.0	17.5	51	124.0	19	4	89.0
04	40mm	190.5	20.5	73	155.4	22	4	114.3
05	50mm	215.9	22.0	92	165.0	19	8	127.0
06	65mm	241.3	25.0	105	190.5	22	8	149.3
07	80mm	282.5	28.5	127	209.5	22	8	168.1
08	100mm	304.8	32.0	157	254.0	22	8	200.1
09	125mm	381.0	35.0	186	279.4	22	8	234.9
10	150mm	403.2	36.5	216	317.5	22	12	269.7
11	200mm	419.1	41.0	270	381.0	25	12	330.2
12	250mm	457.2	48.0	324	444.5	29	16	387.3
13	300mm	501.6	51.0	381	520.7	32	16	450.8
14	350mm	762.0	54.0	413	584.2	32	20	514.3
15	400mm	838.2	57.0	470	647.7	35	20	571.5
16	450mm	914.0	60.4	533.4	711.2	35	24	628.6
17	500mm	991.0	63.5	584.2	774.4	35	24	685.8
18	600mm	1143.0	69.8	692.1	914.4	41.1	24	812.8

(DIMENSIONS ABOVE 600 MM AVAILABLE ON REQUEST)

Class 600

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	15mm	-	20.6	35	95.0	16	4	66.5
02	20mm	-	22.0	43	117.0	19	4	82.5
03	25mm	-	24.0	51	124.0	19	4	89.0
04	40mm	241.3	28.7	73	155.4	22	4	114.3
05	50mm	292.1	31.7	92	165.0	19	8	127.0
06	65mm	330.2	34.8	105	190.5	22	8	149.3
07	80mm	355.6	38.1	127	209.5	22	8	168.0
08	100mm	431.8	44.5	157	273.0	25	8	215.9
09	125mm	508.0	50.8	186	330.2	28	8	266.7
10	150mm	558.8	54.1	216	355.6	28	12	292.1
11	200mm	660.4	62.0	270	419.1	32	12	349.2
12	250mm	787.4	69.8	324	508.0	35	16	431.8
13	300mm	838.2	72.9	381	558.8	35	20	488.9
14	350mm	889.0	76.2	413	603.2	38	20	527.0
15	400mm	990.6	82.5	470	685.8	41	20	603.0
16	450mm	1092.0	82.5	533.4	749.25	44.45	20	654.0
17	500mm	1194.0	88.9	584.2	812.8	44.45	24	723.9
18	600mm	1397.0	101.6	692.1	939.8	50.8	24	838.2

(DIMENSIONS ABOVE 600 MM AVAILABLE ON REQUEST)

Class 900

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	50mm	368.3	44.5	92	216.0	25	8	165.0
02	65mm	419.1	47.5	105	244.5	28	8	190.5
03	80mm	381.0	44.5	127	241.3	25	8	190.5
04	100mm	457.2	50.8	157	292.0	32	8	235.0
05	125mm	558.8	57.2	186	349.2	35	8	279.4
06	150mm	609.6	62.0	216	381.0	32	12	317.5
07	200mm	736.6	70.0	270	470.0	38	12	393.7
08	250mm	838.2	76.2	324	546.0	38	16	470.0
09	300mm	965.2	85.6	381	609.6	38	20	533.5
10	350mm	1029.0	85.8	412.7	641.3	41.4	20	558.8
11	400mm	1130.0	88.9	469.9	704.8	44.5	20	616.0

(DIMENSIONS ABOVE 400 MM AVAILABLE ON REQUEST)

Class 1500

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	50mm	368.3	44.5	92	216.0	25	8	165.0
02	65mm	419.1	47.5	105	244.5	28	8	190.5
03	80mm	469.9	54.0	127	266.7	32	8	203.2
04	100mm	546.1	60.2	157	311.2	35	8	241.3
05	125mm	673.1	79.5	186	374.6	41	8	292.0
06	150mm	704.8	89.0	216	393.7	38	12	317.5
07	200mm	831.8	98.3	270	482.6	45	12	393.7
08	250mm	990.6	114.3	324	584.2	50	12	482.6
09	300mm	1130.3	130.3	381	673.0	54	16	571.5
10	350mm	1257.0	-	-	-	-	-	-
11	400mm	1384.0	-	-	-	-	-	-

(DIMENSIONS ABOVE 400 MM AVAILABLE ON REQUEST)

Class 2500

Sr. No.	Size	A	B	ØC	ØD	ØM	N	PCD
01	50mm	450.8	57.2	92	235.0	28	8	171.5
02	65mm	508.0	63.5	105	266.7	32	8	197.0
03	80mm	577.8	73.0	127	305.0	35	8	229.0
04	100mm	673.1	82.5	157	355.6	41	8	273.0
05	125mm	793.7	98.3	186	419.0	48	8	324.0
06	150mm	914.4	114.3	216	482.6	54	8	368.0
07	200mm	1022.3	133.3	270	522.5	54	12	438.0
08	250mm	1270.0	171.5	324	673.0	67	12	540.0
09	300mm	1422.4	190.5	381	762.0	73	12	619.0

(DIMENSIONS ABOVE 300 MM AVAILABLE ON REQUEST)

Screwed | Socket

Sr.No.	Size	800#	1500#	2500#
01	15mm	85.0	90.0	105.0
02	20mm	90.0	105.0	128.0
03	25mm	105.0	128.0	148.0
04	40mm	128.0	142.0	177.0
05	50mm	142.0	177.0	—

(DIMENSIONS ABOVE 50 MM AVAILABLE ON REQUEST)

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Because these products may be used in a wide range of industrial processes and operating conditions, DECOEN Tech may provide general guidelines, but cannot offer specific information or warnings for every possible scenario. Therefore, the purchaser or end user bears the ultimate responsibility for the correct selection, sizing, installation, operation, and maintenance of the valves supplied through DECOEN Tech.

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