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KTN
Kara Technology News

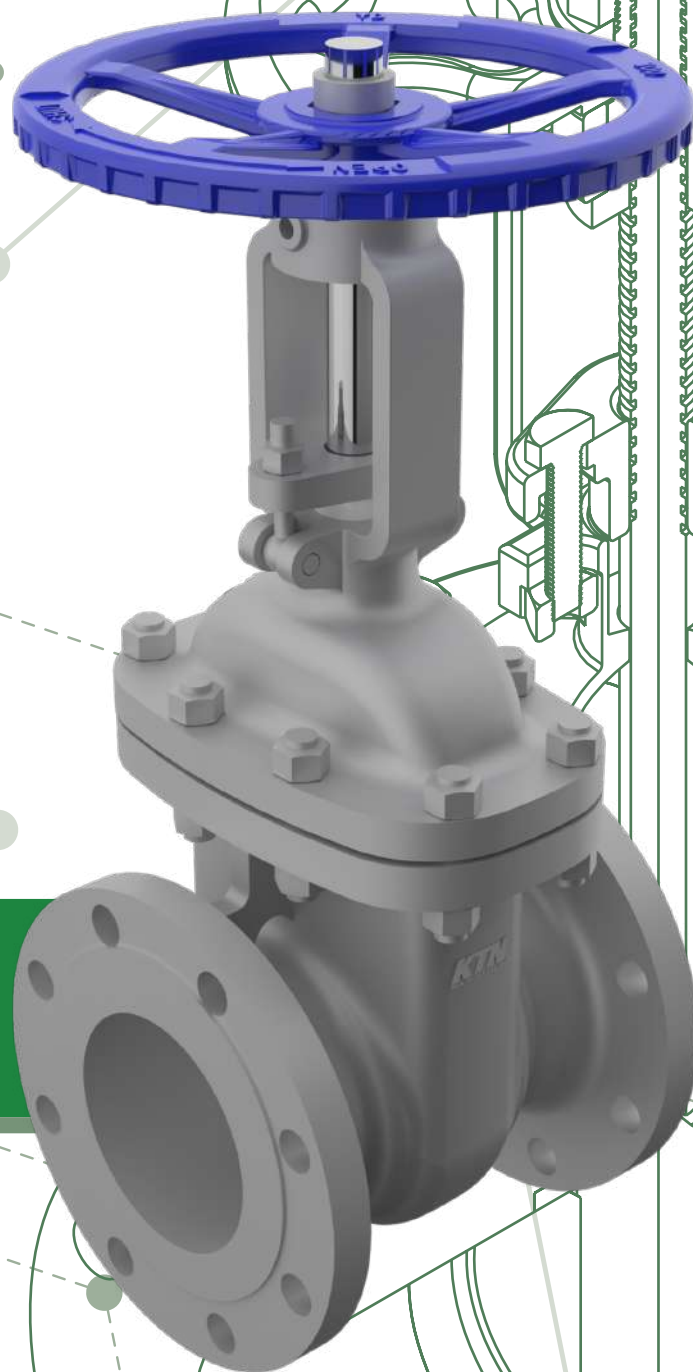


FIG. 333

CS ANSI FLANGED GATE VALVE

2" - 24" | 150~1500LB

KTN FLANGED ANSI GATE VALVE:

The **KTN 333** is our class **150/300/600/1500** gate valve with ANSI flanges. The body is made of **cast carbon steel A216 WCB**. The range of dimensions is from **2" to 24"**. The range of pressure and temperature is according to **ASME B16.34**. Indicated to conduct and stop the passage of aqueous media, oil and gas.

The KTN 333 gate valve is **manufactured with state of art technology** in our most advanced workshop, quality meets the highest standard requirements. The final product surface is smooth and well mechanized thanks to the CNC turns.

Our design is far greater than the standard as it gives **unbeatable wear stroke records**, its also designed for severe conditions as it meets **API600 destruction tests**, in addition, the flange thickness and spot facer on the back flange hole ensures **safety under severe application conditions**.

1 Design:

Ultimate casting software to optimize manufacturing process parameters. The probability of casting defects, such as shrinkage, porosity and crack will be highly minimized.

2 Body & bonnet:

Manufacturing includes pouring riser to reduce internal defects of castings, and casting heat treatment to improve mechanical properties of materials, eliminate residual stress and improve machinability of metal. Our manufacturing process totally meet API standard, the average thickness exceeds the standard by 10%.

3 Stem nut, gland and backseat ring:

To ensure perfect stem isolation, API600 standard bronze or D2 stem nut, bronze stem nuts have high wear resistance and high corrosion resistance. Packing is reinforced by gland and backseat ring made in stainless steel. Renewable backseat API600 standard with better sealing performance.

4 Sealing parts:

Heat resistant graphite corrugated gasket for fast adaptability to dramatic temperature changes. Composite packing which means smaller torque and better sealing performance.

5 Stem:

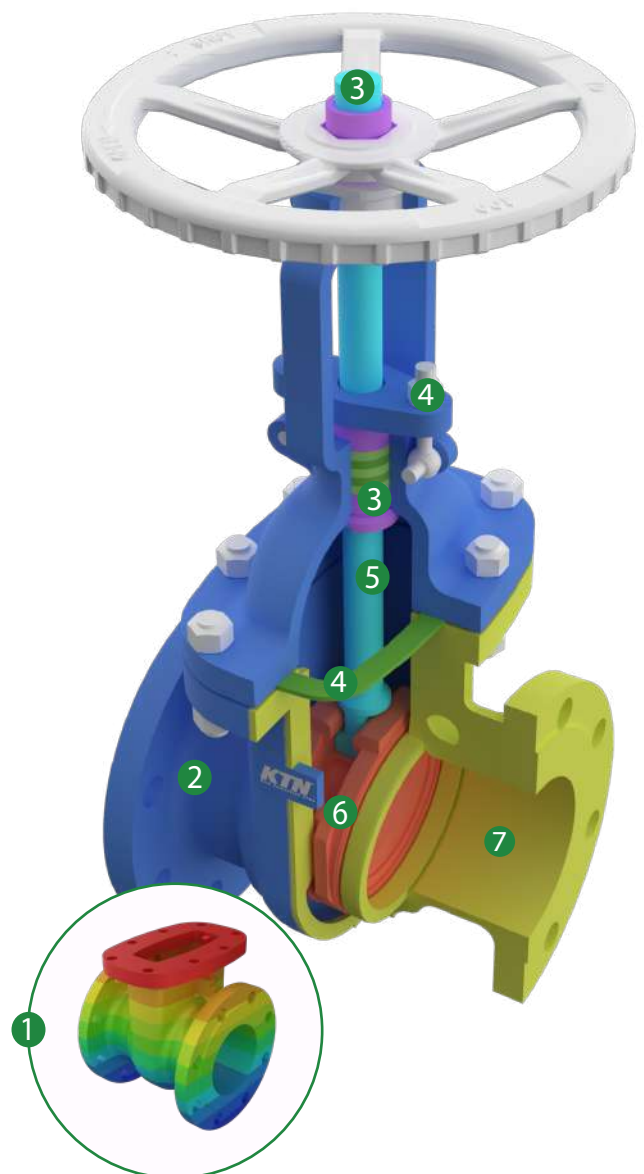
Strong and rigid stainless steel stem which meets API600 standard which makes it almost undestructable.

6 Disc:

Fully open/close disc which makes it great for improving flow performance and reducing fluid resistance. CA15+13Cr (size 2"-4") or WCB+13Cr (Above 5") to meet API600 destruction test requirements.

7 Backseat:

Renewable seats according to API600 standard, zero leakage after 2000 times opening and closing service.



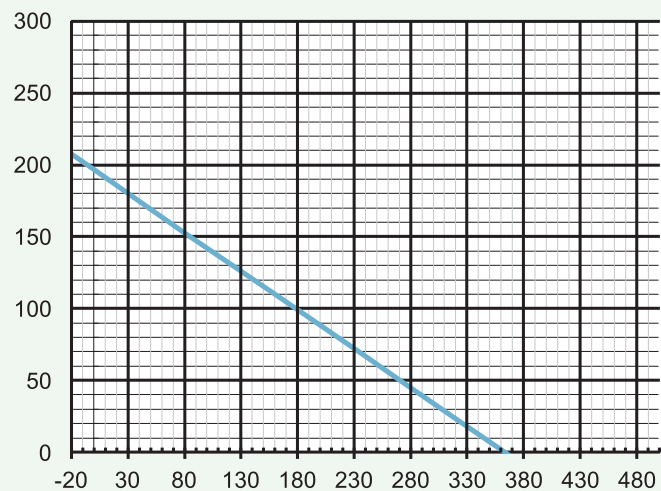
GENERAL SPECIFICATIONS

DESIGN	API 600
FACE TO FACE	ANSI B16.10
FLANGED ENDS	ANSI B16.5
TEST	API 598
WORKING TEMPERATURE	-29°C ~ 425°C
MEDIUM	Water, oil and gas

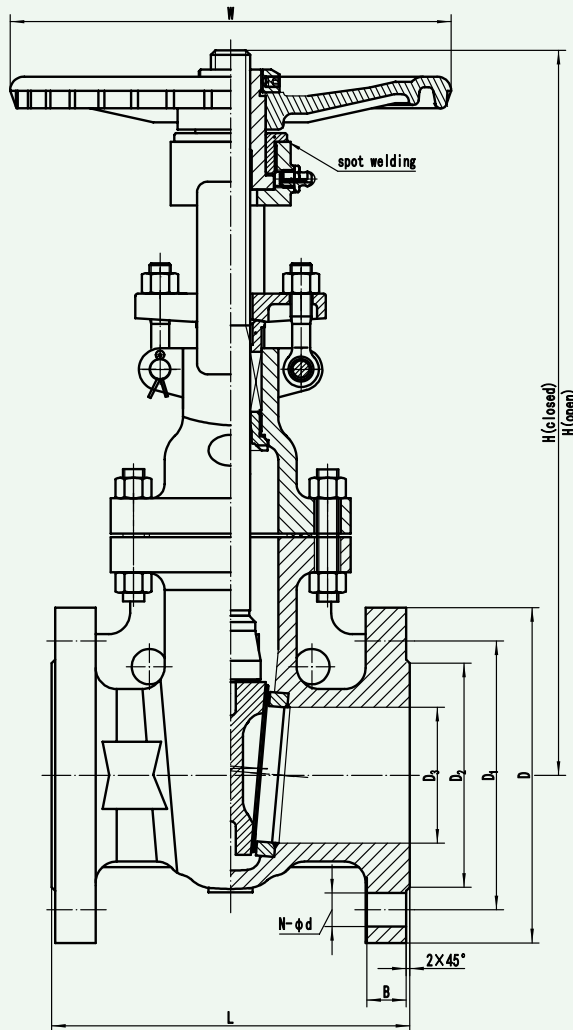
Torque (N.m)	Stem diameter	Pitch	Distance	Turns	Wall thickness	Weight (kg)	Size
50	Φ19.1	4.23	62	7.5	8.6	17.5	2"
63	Φ19.1	4.23	76	9	9.7	24.8	2 1/2"
77	Φ22.2	4.23	100	12	10.4	31.85	3"
92	Φ25.4	5.08	111	11	11.2	45.7	4"
119	Φ25.4	5.08	143	14	11.5	57.5	5"
139	Φ28.6	5.08	164	16	11.9	79.3	6"
220	Φ31.8	5.08	221	22	12.7	117.9	8"
270	Φ34.9	6.35	271	24.5	14.2	180.2	10"
295	Φ38.1	6.35	329	26	16	267.9	12"
420	Φ41.3	6.35	365	57.5	16.8	360	14"
490	Φ44.5	6.35	418	66	17.5	458	16"
510	Φ47.6	6.35	466	73.5	18.3	589	18"
520	Φ50.8	6.35	517	81.5	19.1	735	20"
710	Φ57.2	8.47	625	74	20.6	1083	24"

Note: Torque tested under 2.2 MPa

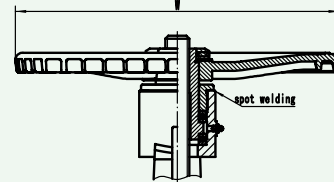
PRESSURE AND TEMPERATURE RATING



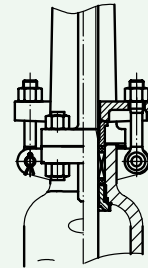
2" TO 12" STRUCTURE



14" TO 24" STRUCTURE



10" TO 24" STRUCTURE



OUTLINE DIMENSIONS

OUTLINE DIMENSIONS										
Inch	L	D ₋₁ ⁺²	D ₁ ±1.5	D ₂	D ₃	N-Φd	B	H (Open)	H (Closed)	W
2"	178±1.5	Φ152	Φ120.6	Φ91.9	Φ51	4-Φ19.0	17.5	388	324.5	Φ200
2 1/2"	190±1.5	Φ180	Φ139.7	Φ104.6	Φ64	4-Φ19.0	20.7	434.5	357.5	Φ200
3"	203±1.5	Φ190	Φ152.4	Φ127.0	Φ77	4-Φ19.0	22.4	509	414	Φ240
4"	229±1.5	Φ230	Φ190.5	Φ157.2	Φ102	8-Φ19.0	22.4	578.5	465.5	Φ280
5"	254±1.5	Φ255	Φ215.9	Φ185.7	Φ127	8-Φ22.2	22.4	666.5	522.5	Φ280
6"	267±1.5	Φ280	Φ241.3	Φ215.9	Φ153	8-Φ22.2	23.9	773.5	604	Φ320
8"	292±1.5	Φ345	Φ298.4	Φ269.7	Φ204	8-Φ22.2	27.0	959	739	Φ360
10"	330±2	Φ405	Φ362	Φ323.8	Φ254	12-Φ25.4	28.6	1165	890	Φ400
12"	356±3	Φ485	Φ431.8	Φ381	Φ305	12-Φ25.4	30.2	1367	1039	Φ450
14"	381±3	Φ535	Φ476.3	Φ412.8	Φ337	12-Φ28.5	33.4	1546	1181	Φ560
16"	406±3	Φ595	Φ539.8	Φ469.9	Φ388	16-Φ28.5	35	1744	1326	Φ560
18"	432±3	Φ635	Φ577.9	Φ533.4	Φ439	16-Φ31.8	38.1	1930	1440	Φ640
20"	457±3	Φ700	Φ635	Φ584.2	Φ489	20-Φ31.8	41.3	2135	1597	Φ640
24"	508±3	Φ815	Φ749.3	Φ692.2	Φ591	20-Φ35	46.1	2531	1906.5	Φ720

KTN 333

CAST CARBON STEEL GATE VALVE WITH ANSI FLANGED ENDS

22	Handwheel	ASTM A536 65-45-12
21	Bolt	AISI 1045
20	Lock nut	AISI 1020
19	Bearing gland	AISI 1020
18	Stem nut	ASTM A439 D-2
17	Nut	ASTM A194 2H
16	Eye bolt	ASTM A193 B7
15	Gland flange	ASTM A216 WCB



06	Bonnet	ASTM A216 WCB
05	Gasket	SS304+Graphite
04	Stem	ASTM A182 F6a Cl.2
03	2"-4" Wedge	ASTM A217 CA15+13CR
	5"-24" Wedge	ASTM A217 WCB+13CR
02	Seat	ASTM A105+STL
01	Body	ASTM A216 WCB

13	Cotter	Q235
12	Pin	AISI 1035
11	Packing II	Graphite ring
10	Packing I	Braided graphite
09	Nut	ASTM A194 2H
08	Bolt	ASTM A193 B7
07	Back seat	ASTM A276 410