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KTN[®]
Kara Technology News

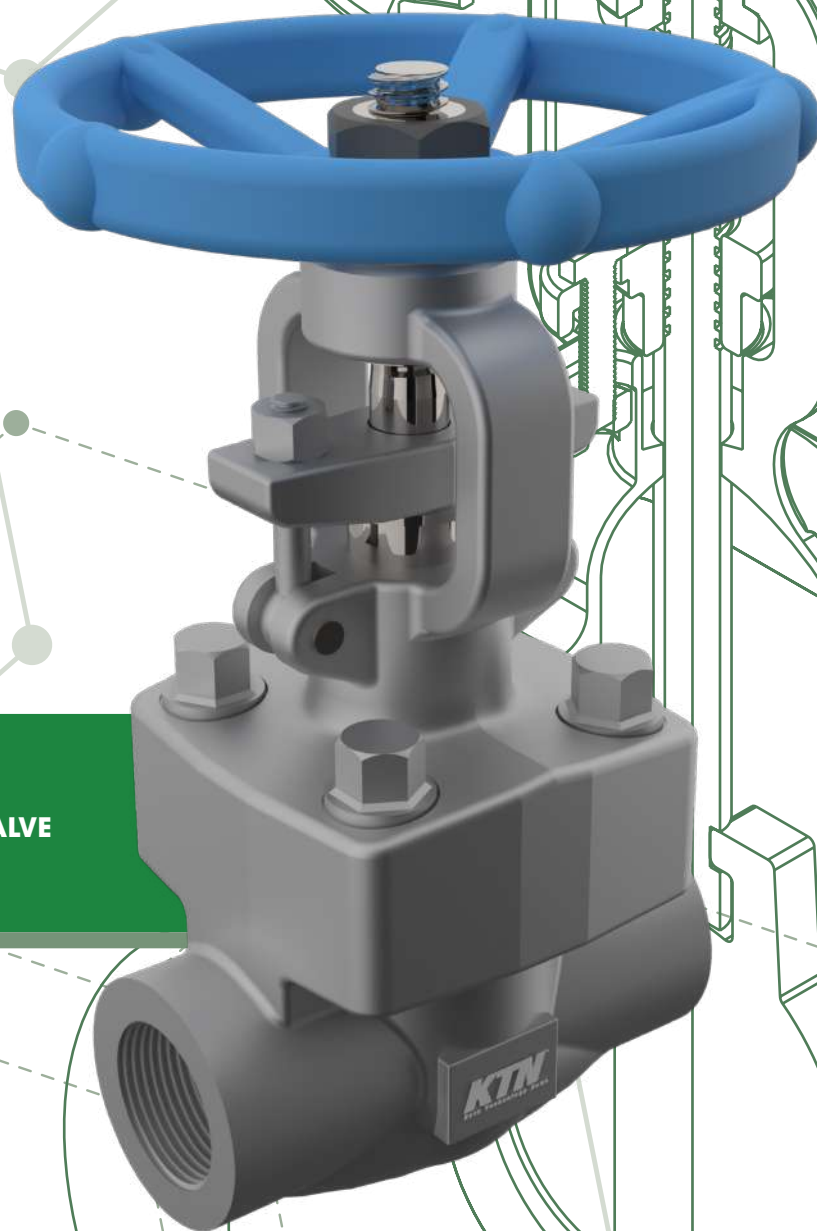


FIG. 381

FORGED STAINLESS STEEL GATE VALVE

1/2" - 2" | 800LB

KTN NPT 800# GATE VALVE 381:

The KTN 381/800 is our NPT threaded ends class 800 gate valve. Made of forged stainless steel F316L. Designed to provide good shut off with almost no pressure drop. Suitable for high pressure and high temperature. Can be used bi-directionally. The range is from 1/2" to 2" and the maximum working pressure is 140 Bar. The working temperature range covers from -29°C to + 425°C. The valve features a stellite-hardened stainless seat. Indicated for conducting and strangling the passage of aqueous media, oil and gas.

1 Body and bonnet:

Body and bonnet made of F316L forged stainless steel specially designed for high pressure systems at high-temperature service.

2 F6 Stem:

Non rising stem makes it more suitable for limited space installations with simple design with less parts to be exposed to the fluid decreases the risk of stem leakage.

3 Graphite packing:

Heat resistant graphite packing that provides a tight seal on the stem when its pressured by the gland and gland flange.

4 Sealing parts:

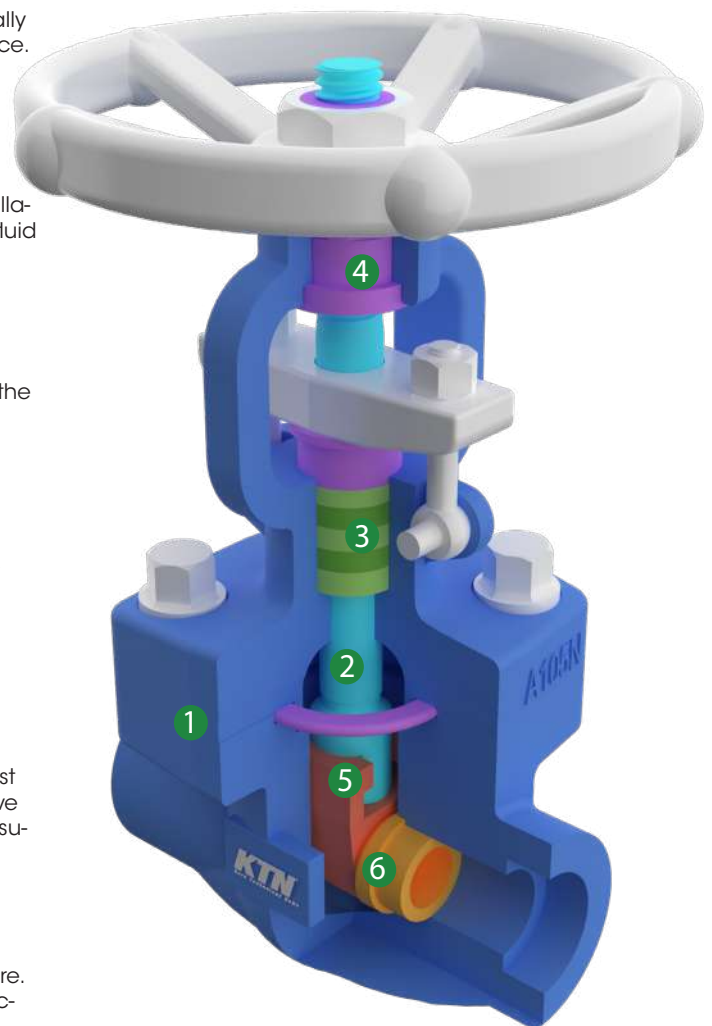
Heat resistant graphite gasket and stainless steel glands that provide excellent sealing between bonnet, body and stem.

5 Stellite wedge:

Solid wedge with best mechanical strength specially appropriate for turbulent fluid flow, the gate is lightly inclined against the flow to create an angle wedging force that helps the valve to close and also increases reliability seal at higher fluid pressure ratings.

6 Stellite seats:

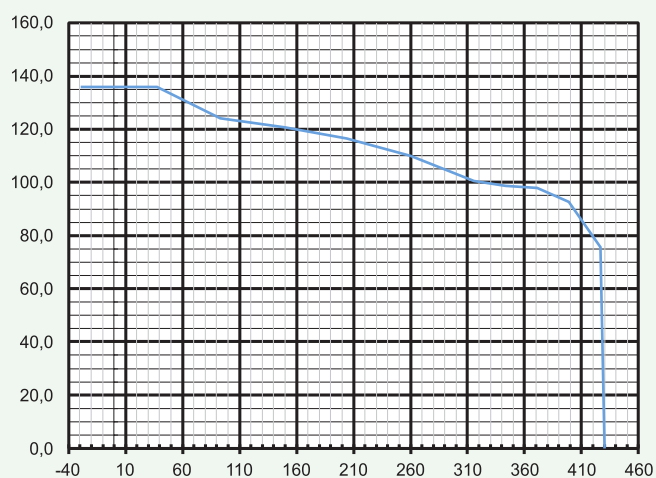
Stellite is an stainless steel and nickel alloy at high temperature. The seats reinforced with stellite makes them almost indestructible, extremely hard, impact resistant, heat resistant. They will hold position angle forever.



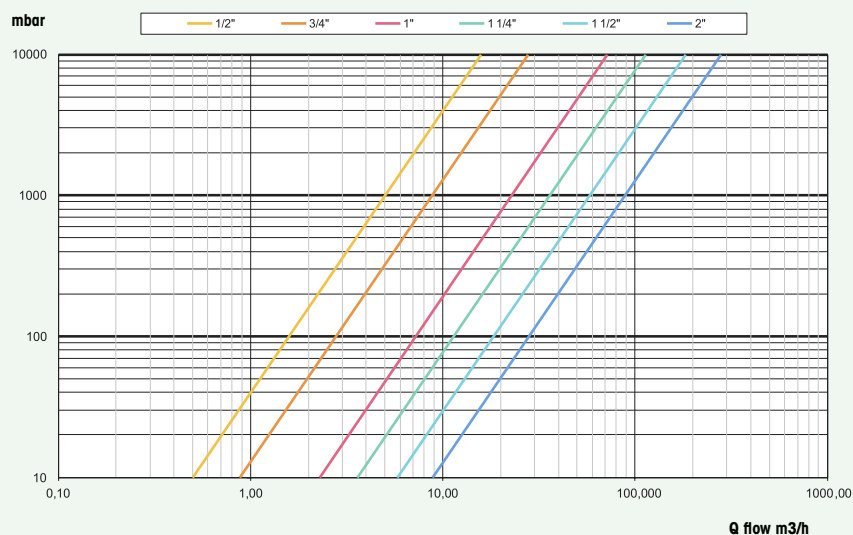
GENERAL SPECIFICATIONS

DESIGN	API 602
FACE TO FACE	ANSI B16.10
BW ENDS	ANSI B16.11
TEST	API 598
WORKING TEMPERATURE	-29°C ~ 425°C
MEDIUM	Water, oil and gas
TRIM	5

PRESSURE AND TEMPERATURE RATING



HEADLOSS CHART



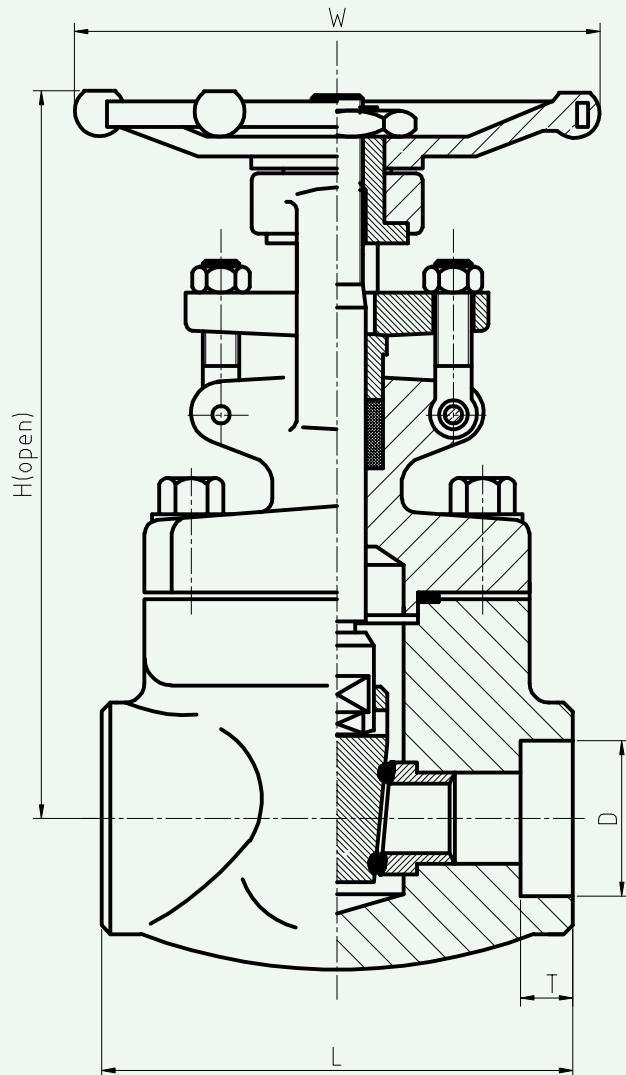
Kv VALUES

Inch	1/2"	3/4"	1"	1 1/2"	2"
m3/h	5	8.8	22.8	57.9	88.2

Kv = The rate of flow of water in cubic meter per hour that will generate a pressure drop of 1 bar across the valve.

KTN 381

FORGED CARBON STEEL GATE VALVE WITH NPT THREADED ENDS



* Under request, we provide special flange for actuation

OUTLINE DIMENSIONS

Inch	L	d	T	D	Torque N.M * (Estimated)	Weight Kg
1/2"	79	161	9.6	21.8	100	2.2
3/4"	92	163	12.7	27.1		2.4
1"	111	196	12.7	33.8		4
1 1/2"	120	251	12.7	42.6		6.8
2"	140	290	15.9	61.2		10.6

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FORGED CARBON STEEL GATE VALVE WITH NPT THREADED ENDS

