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KTN[®]
Kara Technology News

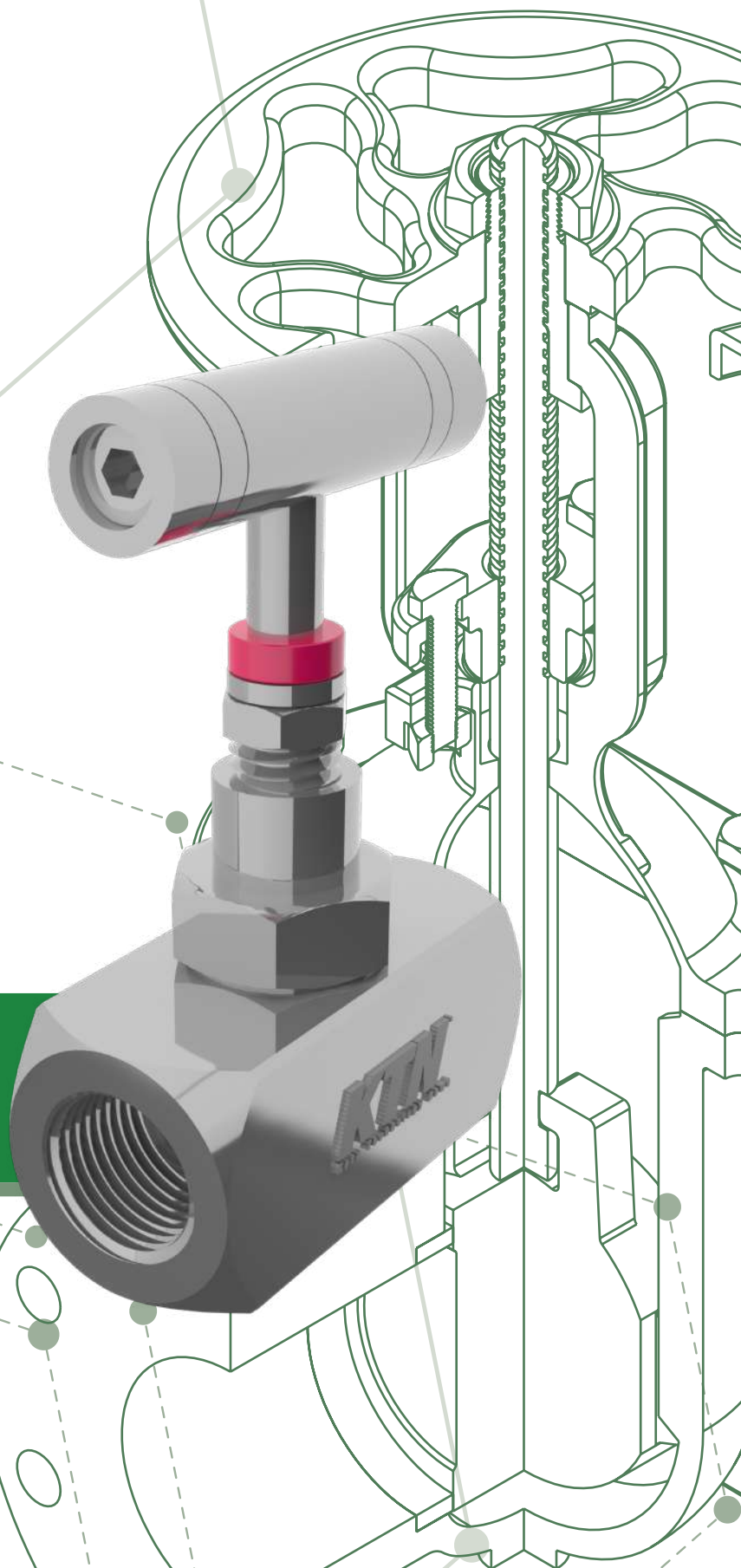


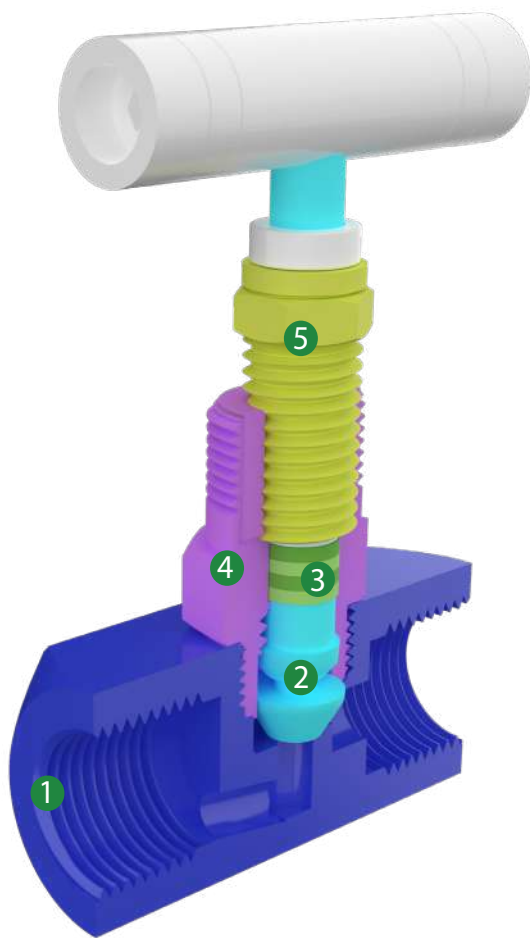
FIG. 11.11/6000

CAST STAINLESS STEEL NEEDLE VALVE

1/4" - 1" | 6000 PSI

KTN BSP THREADED NEEDLE VALVE 11.11/6000:

The **KTN 11.11** is our **BSP threaded** needle valve. Its specially designed to **accurately regulate flow at high pressure**. Compact design with body in one piece. Body, bonnet and stem made in cast **AISI A182 F316**, needle shaped plunger for high accuracy flow regulation. **Packing in PTFE** which can handle temperatures from -54°C to 120°C. **PEEK packing available** on special request (-51°C to 315°C). The port range is from 1/4" to 1" (inches). It's maximum working pressure range is 6000 psi/210 bar. Every needle valve is **leak-tight tested with nitrogen** at maximum working pressure. Indicated to open, regulate or stop compressed air, water and industrial fluids at high pressure.



1 Body:

One piece straight shaped body made of F316 cast stainless steel specially designed for low flow systems at high pressure.

2 316L Stem and needle plunger:

Rising stem in F316 cast stainless steel which ends in needle shaped plunger, which allow precise control of fluid flow. Needle with heat treatment that provides extra resistance to severe temperature and pressure.

3 PTFE sealing packing:

PTFE packing that ensures a tight seal preventing any leakage around the stem.

4 Bonnet:

The bonnet is sealed to the body with metal to metal compression, it is made in F316 cast stainless steel and houses the packing, the gland and the plunger.

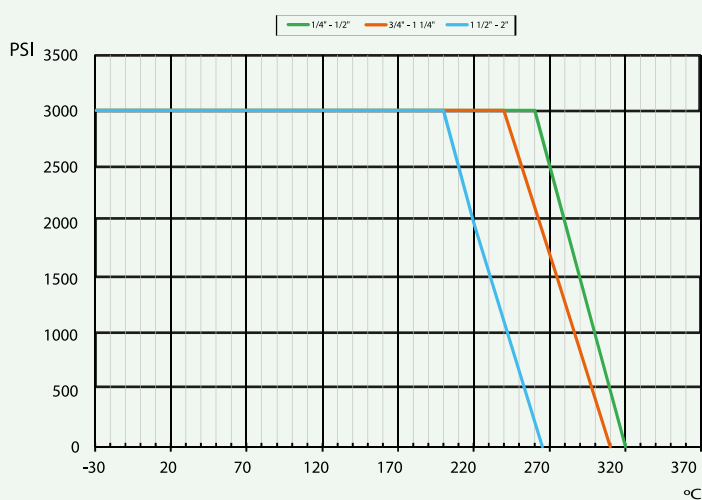
5 Gland:

Gland in 304 cast stainless steel threaded to the bonnet to reinforce pressure resistance.

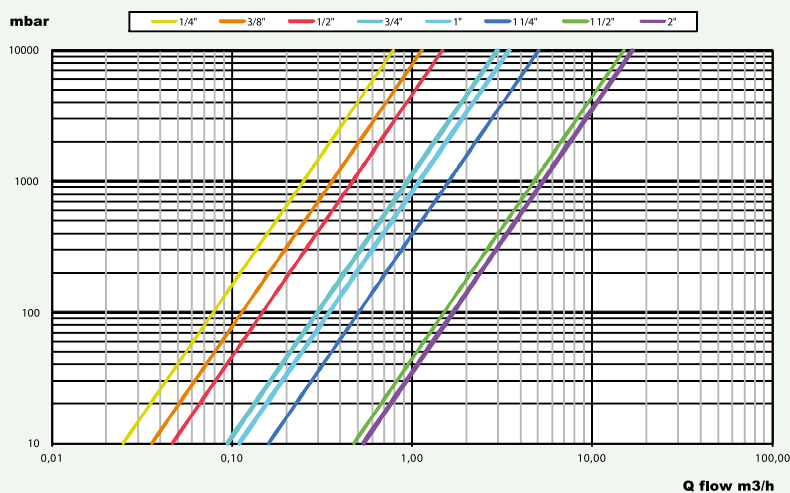
GENERAL SPECIFICATIONS

DESIGN	ASME B16.34-2004
CONNECTION	FEMALE THREAD CONNECTION (BSP)
BSP ENDS	ISO 228-1
TEST	API 598
WORKING TEMPERATURE	PTFE -54°C ~ 232°C / PEEK 51°C ~ 315°C
MEDIUM	Water, oil and gas and corrosive media

PRESSURE AND TEMPERATURE RATING



HEADLOSS CHART



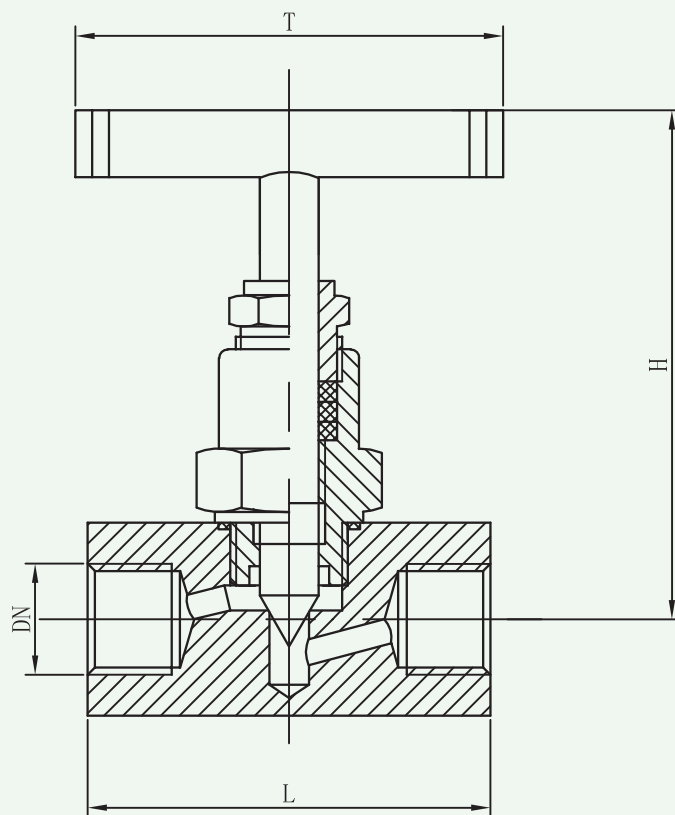
Kv VALUES

Inch	1/4"	3/8"	1/2"	3/4"	1"
m3/h	0.25	0.36	0.47	0.95	1.1

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

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CAST STAINLESS STEEL NEEDLE VALVE FOR FLOW REGULATION



OUTLINE DIMENSIONS

Inch	L	H	T	Weight Kg
1/4"	58.5	76	60	0.260
3/8"	52	75	60	0.360
1/2"	60	78	60	0.530
3/4"	65	79	60	0.760
1"	75	107	70	1.175

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CAST STAINLESS STEEL NEEDLE VALVE FOR FLOW REGULATION

