No. 08190322KTN.UU45

KTN
Kara Technology News

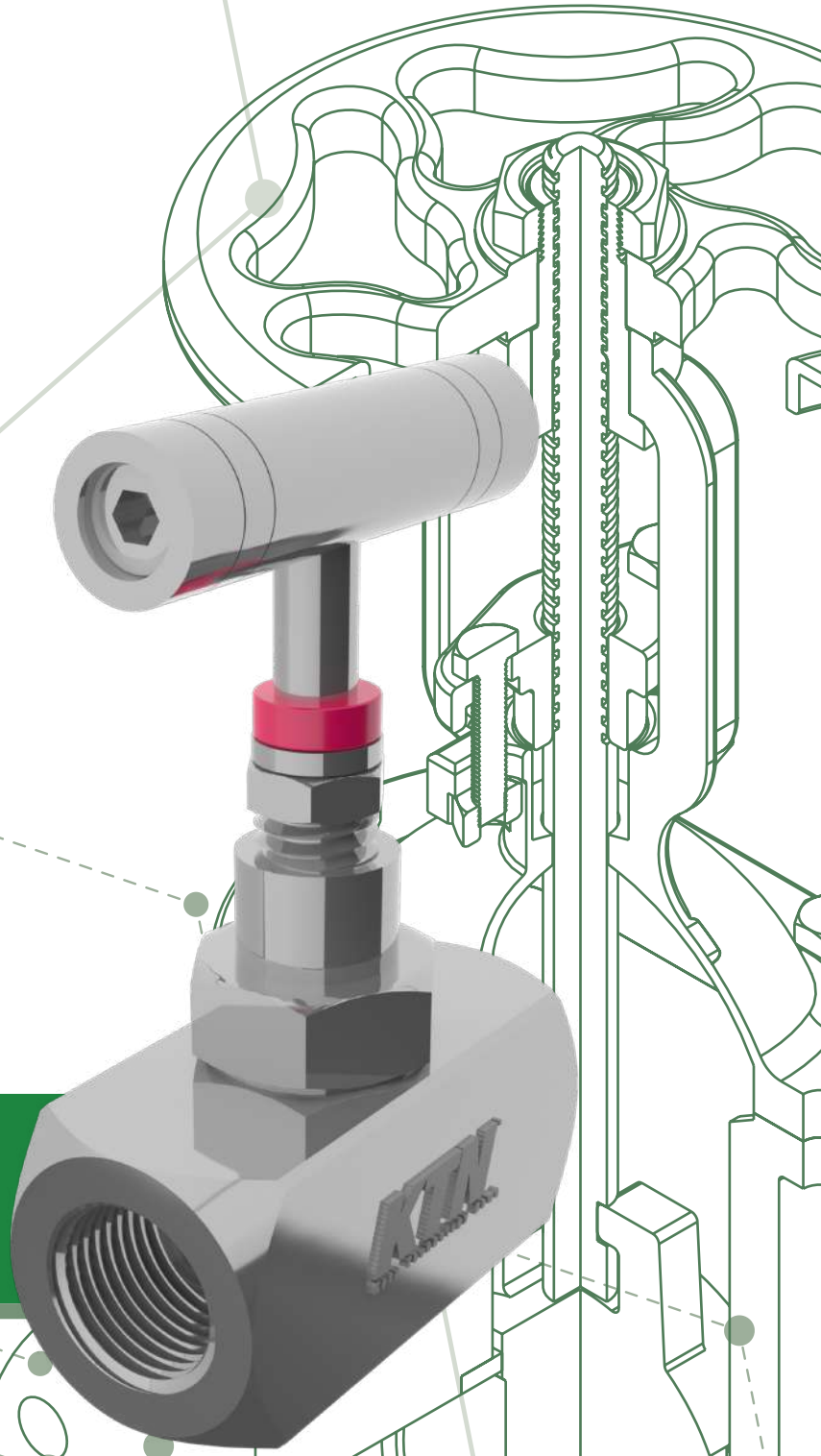


FIG. 11.11/3000

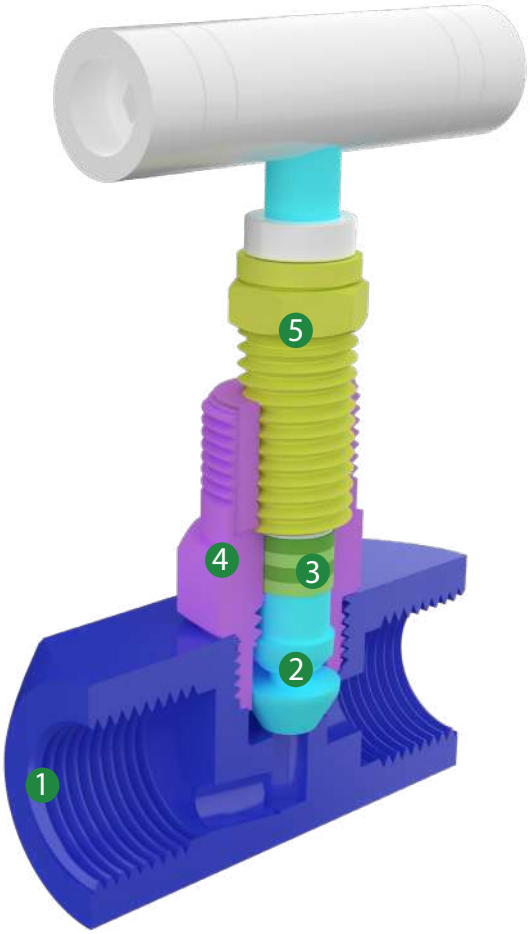
CAST STAINLESS STEEL NEEDLE VALVE

1/4" - 1" | 3000 PSI

+34 916 921 732 ktn@ktnvalves.com www.ktnvalves.com

KTN NPT THREADED
NEEDLE VALVE 11.11/3000:

The **KTN 11.11** is our **NPT threaded** needle valve. Its specially designed to **accurately regulate flow at high pressure.** Compact design with body in one piece. Body,bonnet and stemmade in cast **AISI A182 F316**, needle shaped plunger for high accuracy flow regulation. **Packing in 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 3000 psi/210 bar (Check 11.11/6000 model for 6000 psi pressure). 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 compresión, it is made in F316 cast stainless steel andhouses the packing, the gland and the plunger.

5 Gland:

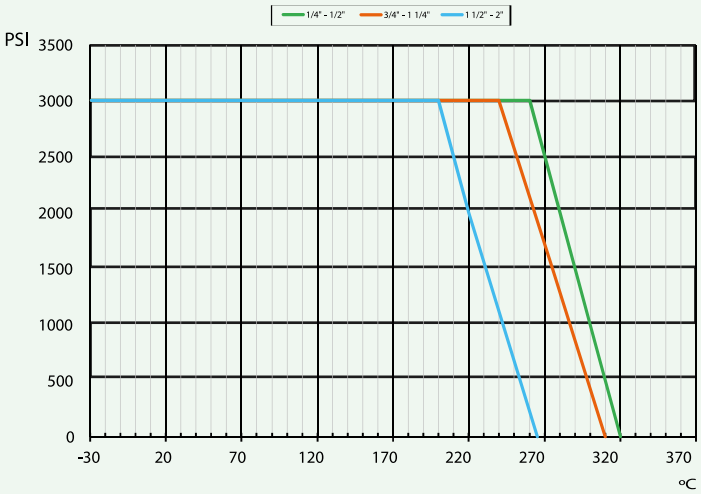
Gland in 304 cast stainless steel threaded to the bonnet to reinforce presssure resistance.

KTN 11.11/3000

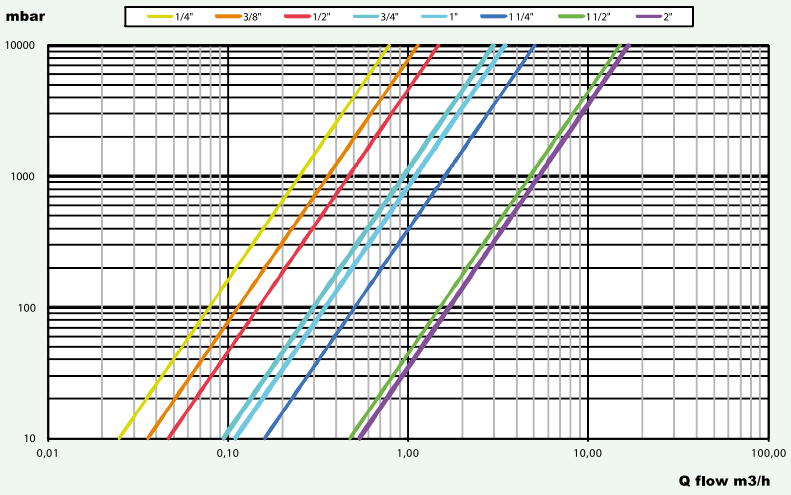
CAST STAINLESS STEEL NEEDLE VALVE FOR FLOW REGULATION

GENERAL SPECIFICATIONS	
DESIGN	ASME B16.34-2004
CONNECTION	FEMALE THREAD CONNECTION (NPT)
NPT ENDS	ANSI B1.20.1
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

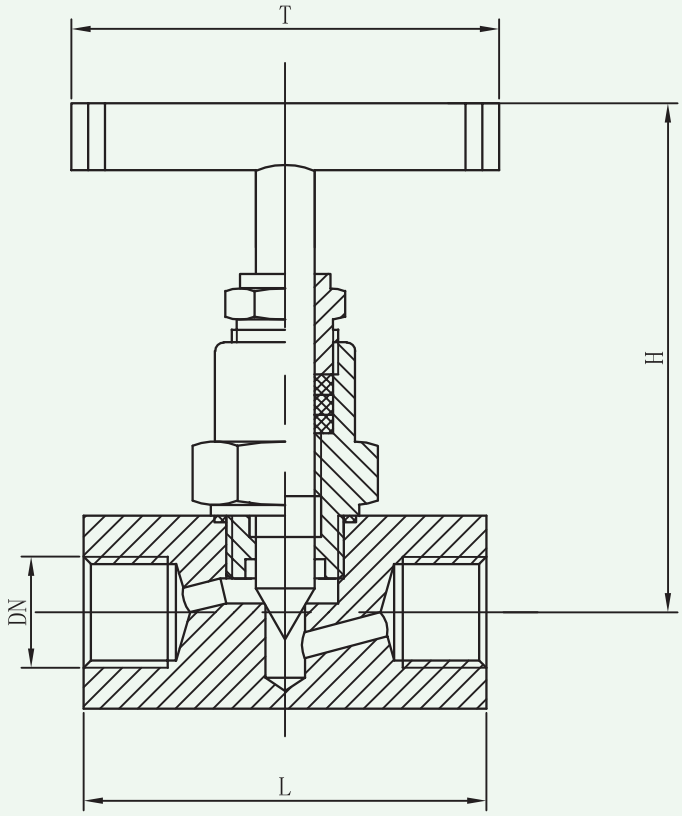


Kv VALUES					
Inch	1/4"	3/8"	1/2"	3/4"	1"
m3/h	0.25	0.36	0.47	0.95	1.1

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

KTN 11.11/3000

CAST STAINLESS STEEL NEEDLE VALVE FOR FLOW REGULATION



OUTLINE DIMENSIONS				
Inch	L	H	T	Weight Kg
1/4"	52	75	60	0.260
3/8"	52	75	60	0..360
1/2"	68	80	60	0.530
3/4"	70	100	60	0.760
1"	78	110	60	1.175

KTN 11.11/3000

CAST STAINLESS STEEL NEEDLE VALVE FOR FLOW REGULATION

09	Adjusting screw	304
08	Handle	304
07	Cap	PP
06	Gland	SS304
05	Washer	304
04	Packing	PTFE
02	Bonnet	SS316
03	Stem	F316
01	Body	F316