

FORGED CARBON STEEL A105N GATE VALVE CLASS 800 TRIM 5 WELDED BONNET NPT

Forged carbon steel gate valve TRIM5 NPT Class 800 standard bore for petroleum industry, steam, oil and gas and high pressure.

Rising non rotating stem (OS&Y) with bolted bonnet.

Graphite packing

Compatible with explosive atmosphere, ATEX Zone 1&21 and Zone 2&22.



PED 2014/68/UE



Size : DN15 to DN50 (NPS 1/2" to 2")

Connection : NPT

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 136 Bars (Class 800)

Specifications : Rising non rotating stem (OS&Y)

Bolted bonnet and gland pack

Standard bore

Materials : Forged carbon steel ASTM A105N

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SPECIFICATIONS :

- Standard bore
- Rising non rotating stem (OS&Y)11
- Welded bonnet
- Bolted gland pack
- Forged carbon steel A105N
- Full stellite (Trim 5)
- Class 800

USE :

- Petroleum industry, steam, high pressure
- Min and Max Temperature Ts : - 29°C to + 425°C
- Max Pressure Ps : 136 bars (see graph)

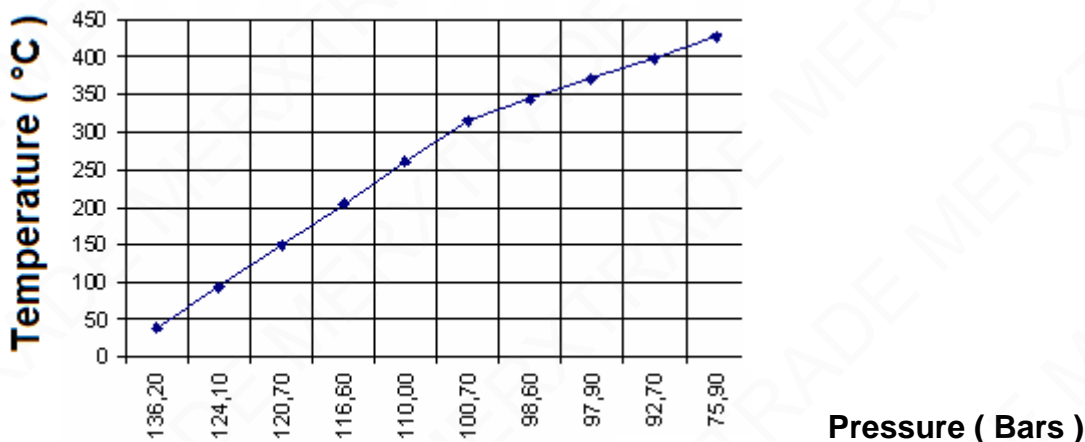
FLOW COEFFICIENT Kvs (M3 / h) :

DN (mm)	15	20	25	32	40	50
NPS (")	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Kvs (m3/h)	4.8	10.4	23.4	47.6	69.2	90.8

PRESSURE/TEMPERATURE RELATION :

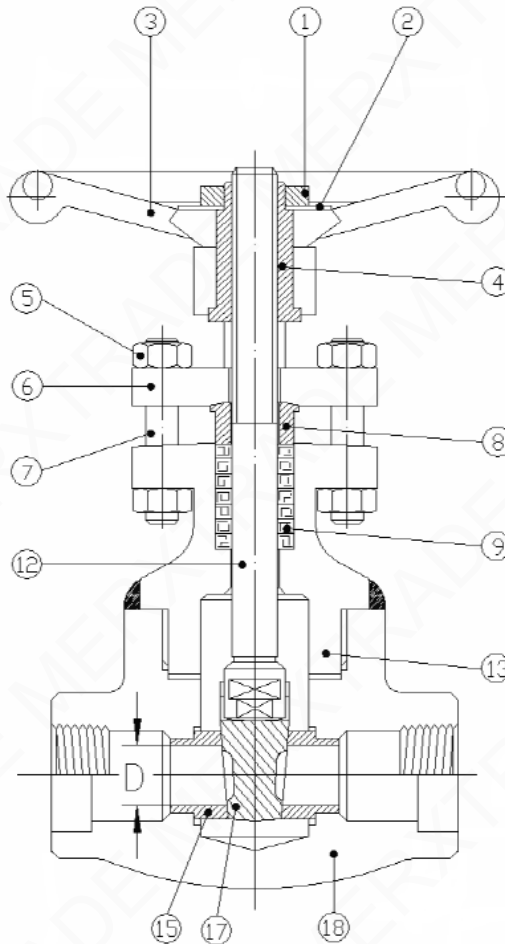
Pressure (bar)	136,2	136,2	136,2	124,1	120,7	116,6	110	100,7	98,6	97,9	92,7	75,9
Temperature (°C)	-29	0	38	93,5	149	204,5	260	315,5	343,5	371	399	425

PRESSURE / TEMPERATURE GRAPH :



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RANGE :

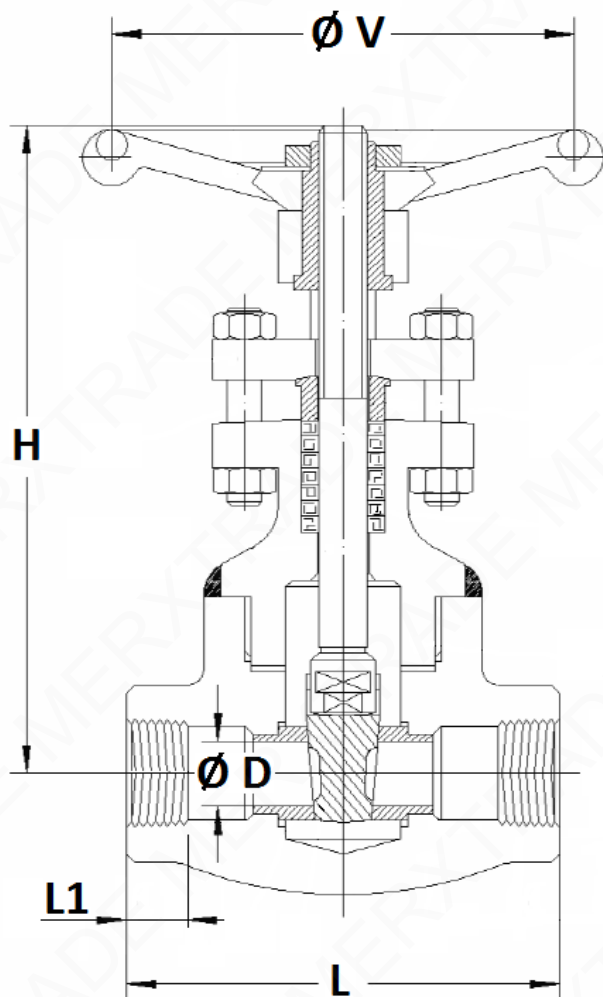
- Forged A105N carbon steel gate valve TRIM 5 with threaded NPT ends **Ref.116** from DN 15 to 50 (NPS 1/2" to 2")

MATERIALS :


Item	Designation	Materials
1	Handwheel nut	Carbon steel
2	ID plate	Aluminium
3	Handwheel	Carbon steel
4	Yoke nut	ASTM A473 type 416
5	Gland nut	ASTM A194 2H
6	Glande flange	ASTM A105
7	Gland stud	UNS S41000
8	Gland	UNS S41000
9	Packing	Graphite
12	Stem	ASTM A276 type 410
13	Bonnet	ASTM A105N
15	Seat	ASTM A276 type 410 stellite
17	Wedge	ASTM A182 F6a stellite
18	Body	ASTM A105N

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SIZE (in mm) :



DN (mm)	15	20	25	40	50
NPS (")	1/2"	3/4"	1"	1"1/2	2"
Ø D	9.6	14	18	30	36.5
L	80	90	110	127	127
H (opened)	148	163	178	243	262
Ø V	80	80	110	130	130
L1	15	18	19	21	21
Weight (in Kg)	1.4	1.7	2.9	5.8	7.5
Ref.	116004	116005	116006	116008	116009

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STANDARDS :

- Manufacturer certified **ISO 9001 : 2015**
- DIRECTIVE 2014/68/EU : **CE N° 0036**
Risk category III module H
- Certificate 3.1 on request
- Designing according to **ISO 15761** and **API 602 8th**
- Pressure Tests according to **API 598, table 6**
- Valves approved by the main oil industries (certificates on request)
- ATEX Group II Category 2 GD T3 Zone 1 & 21 Zone 2 & 22 (optional marking) according to directive 2014/34/EU
- Threaded female NPT ends according to **ANSI B1.20.1**

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.