

FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 1500 TRIM 12 NPT

Forged carbon steel gate valve TRIM12 NPT Class 1500 standard bore for petroleum industry, steam, oil and gas and high pressure.

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

Graphite packing and stainless steel + graphite bonnet gasket.

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



Certificate
3.1



Size : DN 1/2" to 2"

Connection : NPT

Min Temperature : -46°C

Max Temperature : +425°C

Max Pressure : 255 Bars (Class 1500)

Specifications : Rising non rotating stem (OS&Y)
Bolted bonnet and gland pack
Standard port

Materials : Forged carbon steel ASTM A350 LF2

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SPECIFICATIONS :

- Standard bore
- Rising non rotating stem (OS&Y)120
- Bolted bonnet
- Bolted gland pack
- Forged carbon steel ASTM A350 LF2
- 1/2 stellite (Trim 12)
- Class 1500

USE :

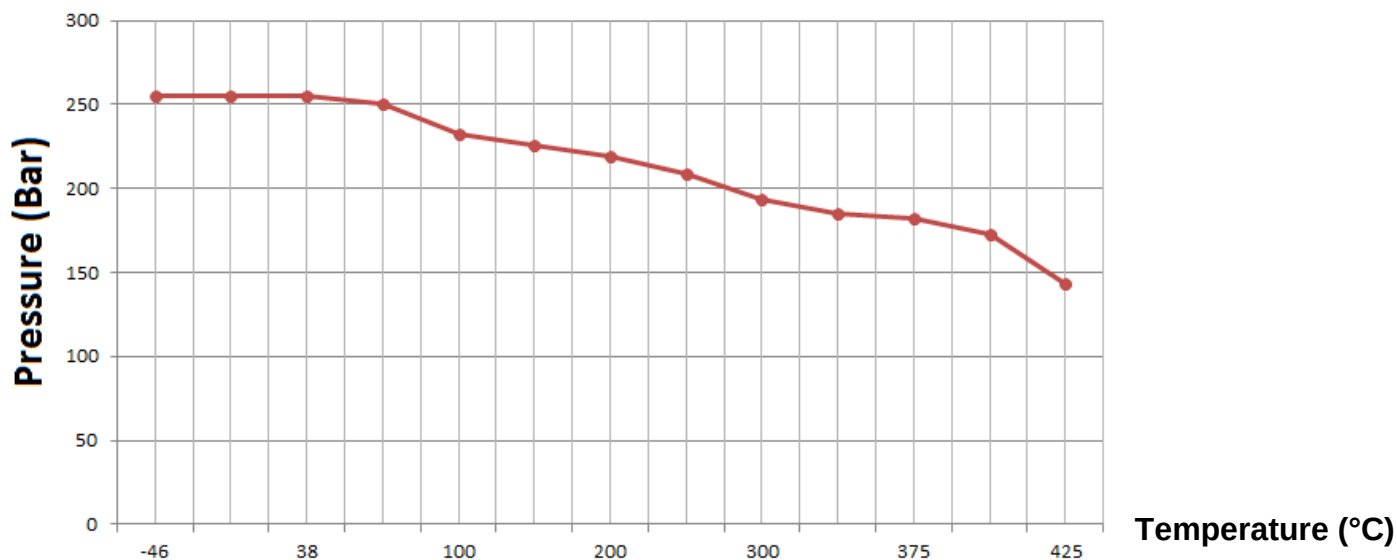
- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 46°C to + 425°C
- Max Pressure Ps : 255 bars (see graph)

FLOW COEFFICIENT Kvs (M3 / h) :

DN (")	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)	255.3	255.3	255.3	250.4	231.9	226.1	219.1	208.6	193.7	184.8	182.3	172.5	143.8
Temperature (°C)	-46	0	38	50	100	150	200	250	300	350	375	400	425

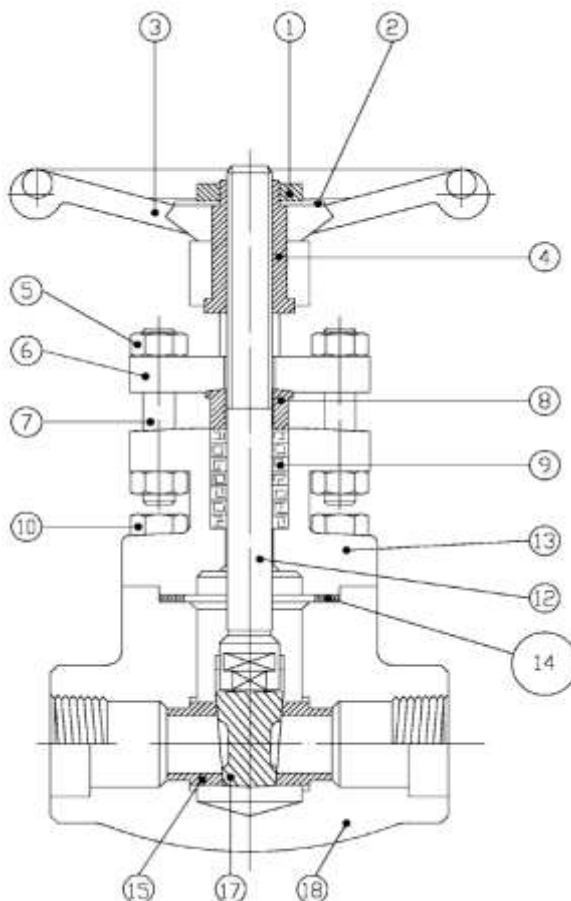
PRESSURE / TEMPERATURE GRAPH :


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RANGE :

- Forged A350LF2 carbon steel gate valve TRIM 12 with threaded NPT ends **Ref.120** from DN 1/2" to 2"

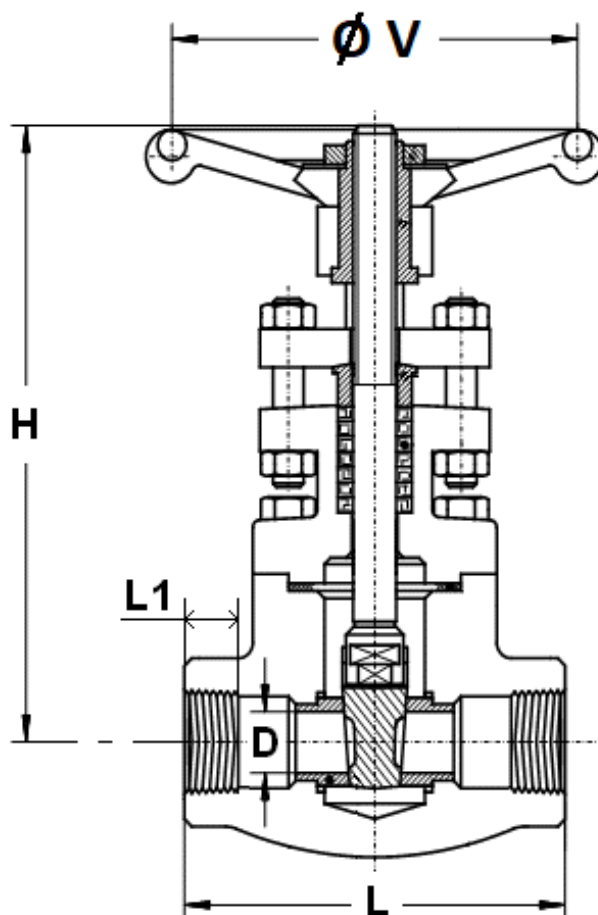
MATERIALS :



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 Gr.4
6	Gland flange	ASTM A182 F6a CI 2
7	Gland stud	ASTM A320 L7
8	Gland pack	UNS S31600/S31603
9	Packing	Graphite
10	Screw	ASTM A320 L7
12	Stem	ASTM A479 316/316L
13	Bonnet	ASTM A350 LF2
14	Gasket	AISI 316 + graphite spiral
15	Seat	ASTM A479 S31600/S31603 + Stellite GR.6'
17	Wedge	ASTM A182 316/316L
18	Body	ASTM A350 LF2

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SIZE (in mm) :



DN (")	1/2"	3/4"	1"	1"1/2	2"
Ø D	9.6	14	18	30	36.5
L	90	110	127	127	150
H (opened)	160	175	210	260	355
Ø V	80	110	110	130	180
L1	L1	15	18	19	21
Weight (in Kg)	2.2	3.8	5.5	9.5	17.1
Ref.	120004	120005	120006	120008	120009

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STANDARDS :

- Manufacturer certified **ISO 9001 : 2015**
- DIRECTIVE 2014/68/EU: For liquids or Gas of Group 1
 - DN 1/2"-1" : Article 4, §3 (SEP), no CE marking
 - DN 1"1/2-2" : Risk category II, CE 0036 marking
- 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.