REF. 118-119

FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

ISO 9001 : 2015

PED 2014/68/EU



Certificate 3.1

Size :	DN 15 to 50 (NPS 1/2" to 2")
Ends :	Female - Female NPT, Socket Welding
Min Temperature :	- 46°C
Max Temperature :	+ 425°C
Max Pressure :	136 Bars (Class 800)
Specifications :	Rising non rotating stem (OS&Y) Bolted bonnet Full bore
Materials :	Forged carbon steel A350LF2

Information provided as an indication and subject to possible modification

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FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

SPECIFICATIONS :

- Full bore
- Rising non rotating stem (OS&Y)4411
- Bolted bonnet
- Bolted gland pack
- Forged carbon steel ASTM A 350 LF2
- 1/2 stellite (Trim 12)
- Class 800

USE :

- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 46°C to + 425°C
- Max Pressure Ps : 136 bars (see graph)

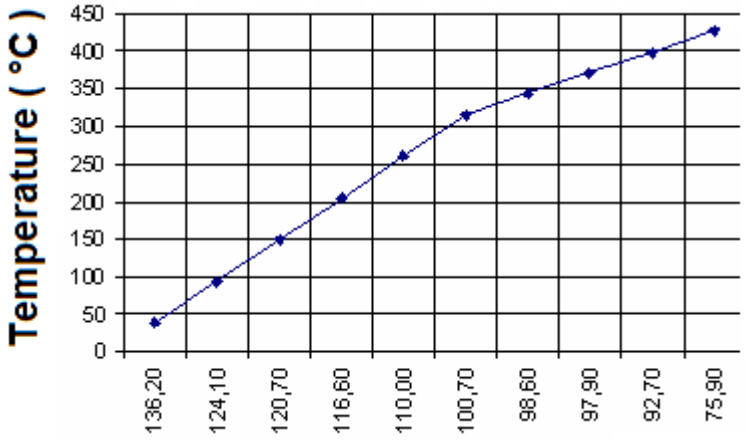
FLOW COEFFICIENT Kvs (M3 / h) :

DN	15	20	25	32	40	50
NPS	1/2“	3/4“	1“	1“1/4	1“1/2	2“
Kvs (m3/h)	10	23	47.2	69	75.2	93.4

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)	-46	0	38	93,5	149	204,5	260	315,5	343,5	371	399	425

PRESSURE / TEMPERATURE GRAPH :



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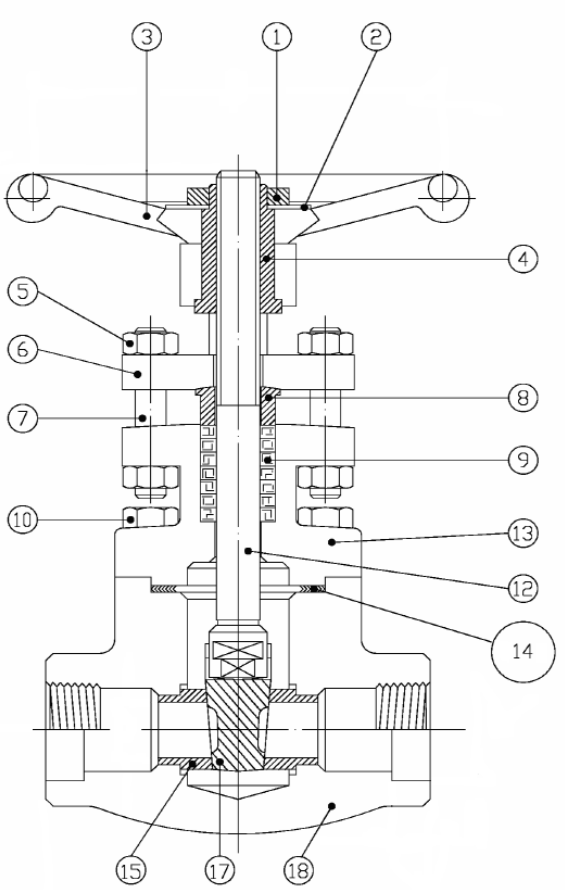
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FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

RANGE :

- Forged A350LF2 carbon steel gate valve TRIM 12 with threaded NPT ends **Ref.118** from DN 15 to 50 (NPS 1/2“ to 2“)
- Forged A350LF2 carbon steel gate valve TRIM 12 with SW ends **Ref. 119** from DN 15 to 50 (NPS 1/2“ to 2“)

MATERIALS :

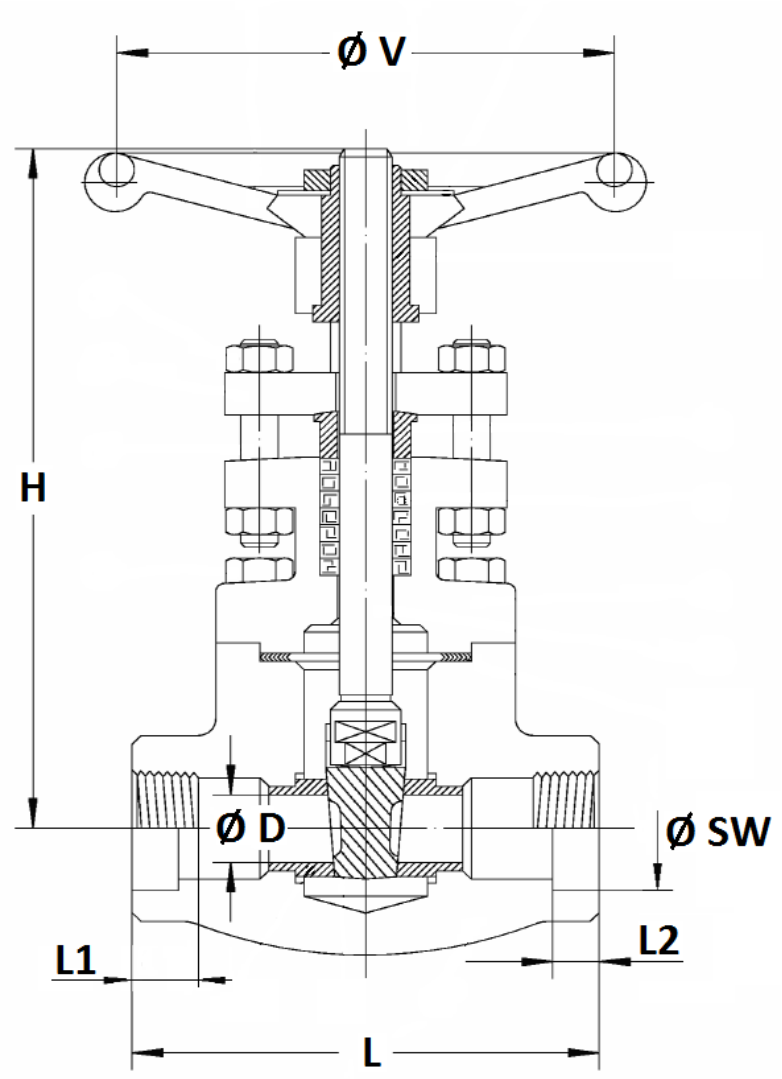


Item	Designation	Materials
1	Handwheel nut	Carbon steel
2	ID plate	Aluminium
3	Handwheel	Carbon steel
4	Yoke nut	ASTM A473 type 416
5	Gland pack nut	ASTM A194 Gr.4
6	Gland flange	ASTM A182 F6a Cl 2
7	Gland stud	ASTM A320 L7
8	Gland pack	UNS S31600/S31603
9	Packing	Graphite
10	Screw	ASTM A320 L7
12	Stem	ASTM A479 316/316L
13	Bonnet	ASTM A350 LF2
14	Gasket	SS 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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FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

SIZE (in mm) :



Ref.	DN (mm)	15	20	25	40	50
	NPS (")	1/2"	3/4"	1"	1"1/2	2"
118-119	Ø D	14	18	24	36.5	48
	L	90	110	127	127	150
	H (opened)	155	178	210	262	327
	Ø V	80	110	110	130	180
118	L1	15	18	19	21	21
119	L2 (SW)	12.7	14.5	16	19	22
	Ø SW	21.8	27.2	33.9	48.8	61.2
118-119	Weight (Kg)	2.2	3.5	5	9	15.6

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FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

STANDARDS :

- Fabrication according to **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**
- Socket Welding ends according to **ISO 15761**

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

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FORGED CARBON STEEL A350LF2 GATE VALVE CLASS 800 TRIM 12

INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid,pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strenght to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

INSTALLATION INSTRUCTIONS :

- **Before installing the valves,clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not,the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match,the valve unit will not absorb any gaps.Any distortions in the pipes may affect the thightness of the connection,the working of the valve and can even cause a rupture.**To be sure,place the kit in position to ensure the assembling will work.
- **During welding operation, for S.W. types half open the valve and do not exceed 350-400°C**
- The theoretical lengths given by ISO/R7 for the tapping are typically longer than required, the length of the thread should be limited, and **check that the end of the tube does not press right up to the head of the thread.**
- **Never use a vice to tighten the fixings of the valve.**
- **If sections of piping do not have their final support in place,they should be temporarily fixed.This is to avoid unnecessary strain on the valve.**
- **It may be necessary to screw the packing gland during using according to the type of use.**
- **Do not use a tool to shut the valve**
- **Fluids in the valve must not contain solid objects (it could damaged the seat).**
- It's recommended to operate the valve (open and close) 1 to 2 times per year

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