

**FORGED Y PATTERN GLOBE VALVE CARBON STEEL A182F22 CLASS 1500 TRIM 5 SW**

Forged carbon steel Y pattern gate valve TRIM5 Class 1500 full bore for petroleum industry, steam, oil and gas and high pressure.

Rising and rotating stem (OS&Y) with welded bonnet.

Graphite packing.

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



**Certificate**  
**3.1**



PED 2014/68/UE



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

**Connection :** SW

**Min Temperature :** -29°C

**Max Temperature :** +595°C

**Max Pressure :** 258 Bars (Class 1500)

**Specifications :** Rising and rotating stem (OS&Y)

Welded bonnet

Full bore

**Materials :** Forged carbon steel ASTM A188 F22

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**SPECIFICATIONS :**

- Respect the flow direction ( indicated by the arrow )
- Full bore
- Rising stem (OS&Y)
- Welded bonnet
- Bolted gland pack
- Forged carbon steel A182 F22
- Full stellite ( Trim 5 )
- Class 1500

**USE:**

- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 29°C to + 595°C
- Max Pressure Ps : 258 bars ( see graph )

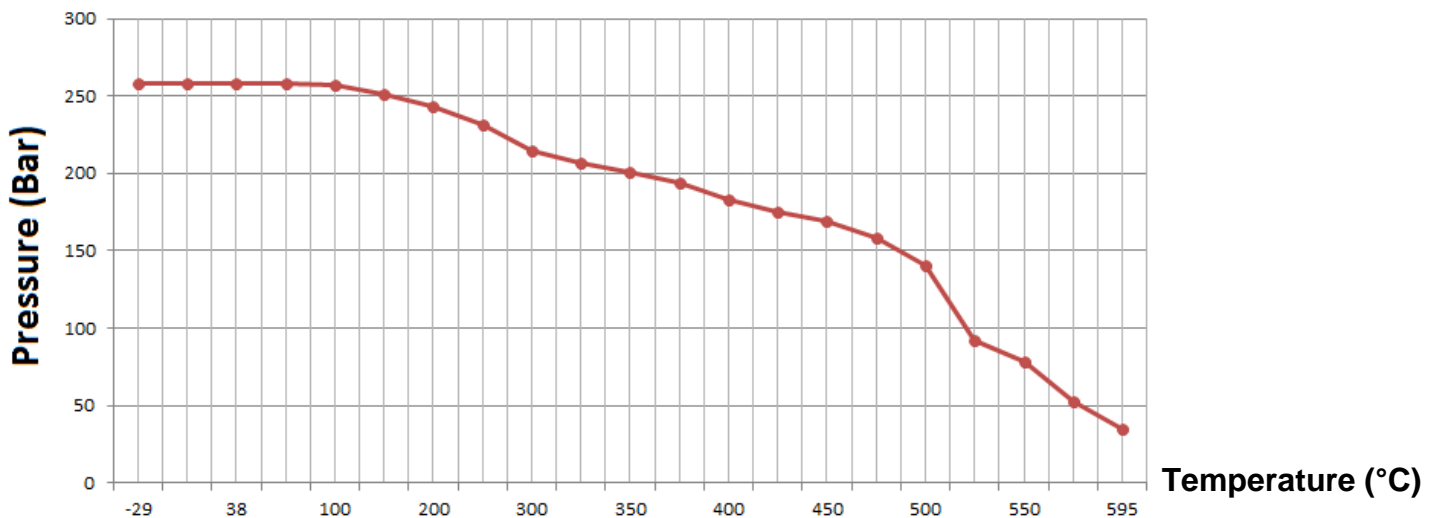
**FLOW COEFFICIENT Kvs ( M3 / h ) :**

<b>DN (mm)</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>
<b>NPS (")</b>	<b>1/2"</b>	<b>3/4"</b>	<b>1"</b>	<b>1"1/4"</b>	<b>1"1/2"</b>	<b>2"</b>
<b>Kvs ( m3/h )</b>	<b>3.9</b>	<b>8.7</b>	<b>13.8</b>	<b>19.9</b>	<b>40.7</b>	<b>69.3</b>

**PRESSURE / TEMPERATURE RELATION :**

<b>Pressure (bar)</b>	<b>258.6</b>	<b>258.6</b>	<b>257.6</b>	<b>250.8</b>	<b>243.4</b>	<b>231.8</b>	<b>214.4</b>	<b>206.6</b>	<b>201.1</b>	<b>194.1</b>	<b>183.1</b>	<b>175.1</b>	<b>169</b>	<b>158.2</b>	<b>140.9</b>	<b>92.2</b>	<b>78.2</b>	<b>52.6</b>	<b>34.4</b>
<b>Temperature (°C)</b>	<b>-29</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>	<b>400</b>	<b>425</b>	<b>450</b>	<b>475</b>	<b>500</b>	<b>538</b>	<b>550</b>	<b>575</b>	<b>595</b>

**PRESSURE / TEMPERATURE GRAPH :**

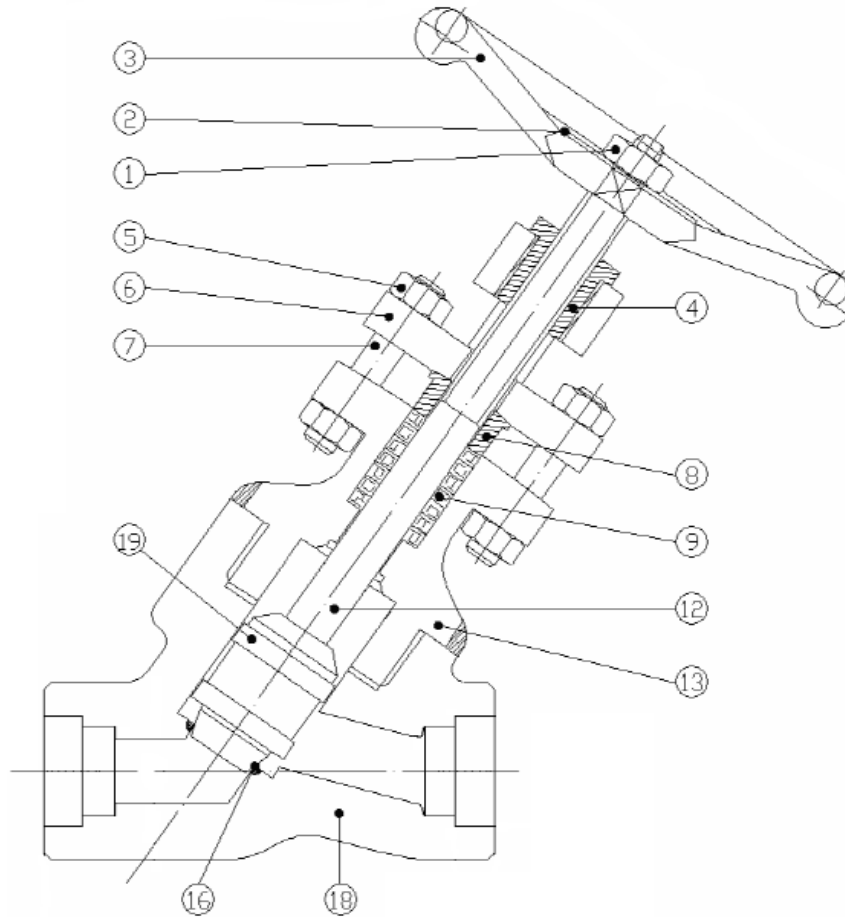


**FORGED Y PATTERN GLOBE VALVE CARBON STEEL A182F22 CLASS 1500 TRIM 5 SW**

**RANGE :**

- Forged Y pattern globe valve A182F22 with Socket Welding ends **Ref.406** from DN 15 to 50 ( NPS 1/2" to 2" )

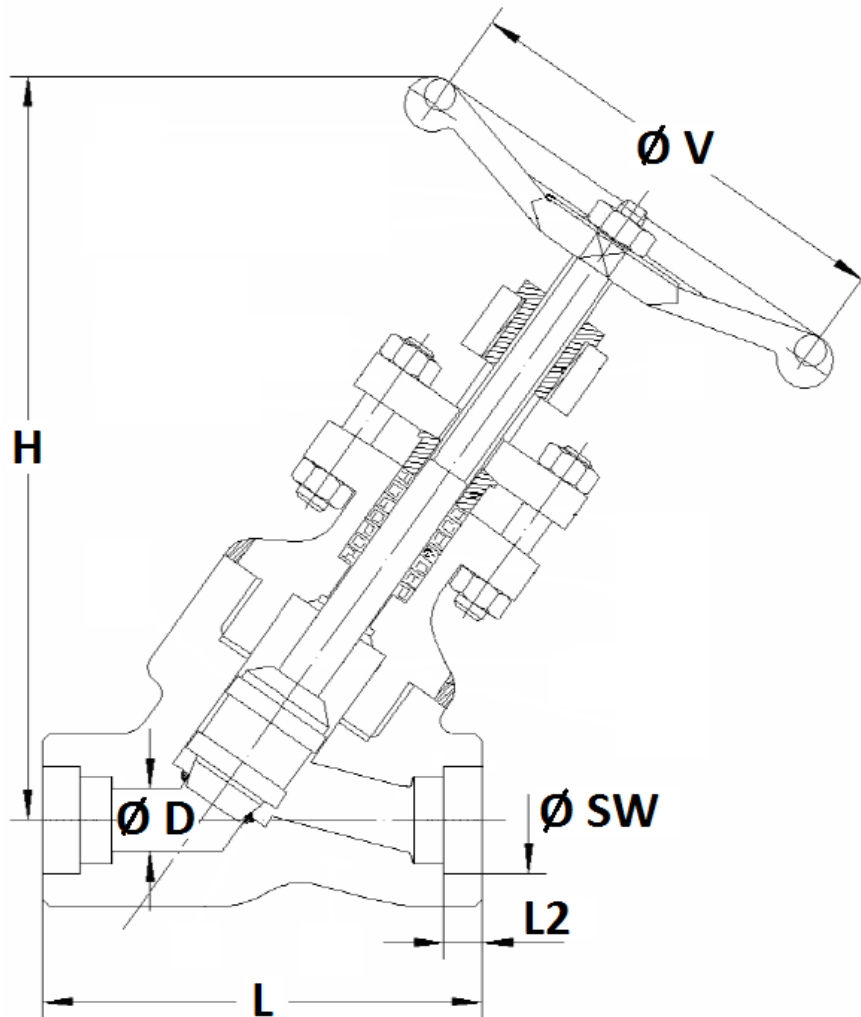
**MATERIALS :**



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 Gr.8
6	Gland flange	ASTM A182 F6a Cl 2
7	Gland stud	ASTM A193/A320 B8 CL.1
8	Gland	UNS S41000
9	Packing	Graphite
12	Stem	ASTM A276 type 410
13	Bonnet	ASTM A182 F22 Cl 3
16	Seat	Stellite GR.6'
18	Body	ASTM A182 F22 Cl 3
19	Disc	ASTM A276 type 410 Stellite

**FORGED Y PATTERN GLOBE VALVE CARBON STEEL A182F22 CLASS 1500 TRIM 5 SW**

SIZE ( in mm ) :



DN (mm)	15	20	25	40	50
NPS (")	1/2"	3/4"	1"	1"1/2"	2"
Ø D	11	15	19.5	31.5	39
L	110	142	142	170	180
H ( opened )	170	240	250	380	420
Ø V	110	130	130	180	180
L2 ( SW )	12.7	14.5	16	19	22
Ø SW	21.8	27.2	33.9	48.8	61.2
Weight (in Kg)	2.3	5.1	5	10.1	12.9
Ref.	406015	406020	406025	406040	406050

**FORGED Y PATTERN GLOBE VALVE CARBON STEEL A182F22 CLASS 1500 TRIM 5 SW****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 G/2D T3 Zone 1 & 21 Zone 2 & 22 ( optional marking ) according to directive 2014/34/EU
- S.W. ends according to **ASME B16.11** and **ISO 15761**

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