

**FORGED CARBON STEEL A105N GATE VALVES FLANGED CLASS 150 PN20 RF
TRIM 5, BOLTED BONNET, FULL BORE**

Forged carbon steel gate valve TRIM5 with integral body flanges Class 150 PN20 full bore for petroleum industry, steam, oil and gas and high pressure.

Rising non rotating stem 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 : DN15 to DN50 (NPS 1/2" to 2")

Connection : Flanges Class 150 PN20 RF

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 20 Bars

Specifications : Rising non rotating stem (OS&Y)

Bolted bonnet and packing

Full bore (product evolution in standard bore)

Materials : Forged Carbon steel ASTM A105N

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SPECIFICATIONS :

- Full bore (product evolution in standard bore)
- Integral body flanges
- Rising non rotating stem (OS & Y)
- Bolted bonnet
- Bolted packing
- Forged carbon steel A105N
- Full stellite (Trim 5)
- Flanges R.F. Class 150 (PN20)

USE :

- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 29°C to + 425°C
- Max Pressure Ps : 20 bars (see graph)

FLOW COEFFICIENT Kvs (M3 / h) :

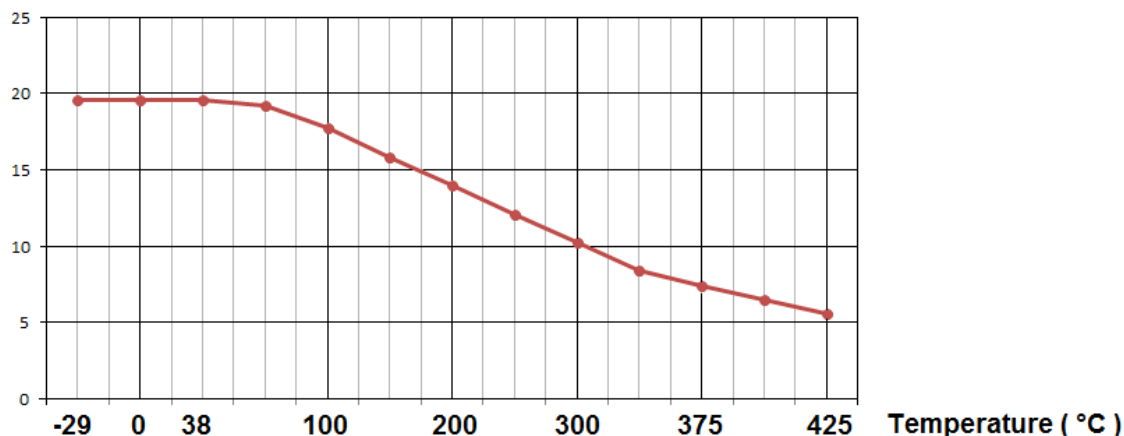
DN (mm)	15	20	25	40	50
NPS (")	1/2"	3/4"	1"	1 1/2"	2"
Kvs (m3/h) Full bore	10	23	47.2	75.2	93.4
Kvs (m3/h) Standard bore	4.7	10.4	23.3	69.2	90.8

PRESSURE / TEMPERATURE RELATION :

Pressure (bar)	19.6	19.6	19.6	19.2	17.7	15.8	14	12.1	10.2	8.4	7.4	6.5	5.6
Temperature (°C)	-29	0	38	50	100	150	200	250	300	350	375	400	425

PRESSURE / TEMPERATURE GRAPH :

Pressure
(Bars)

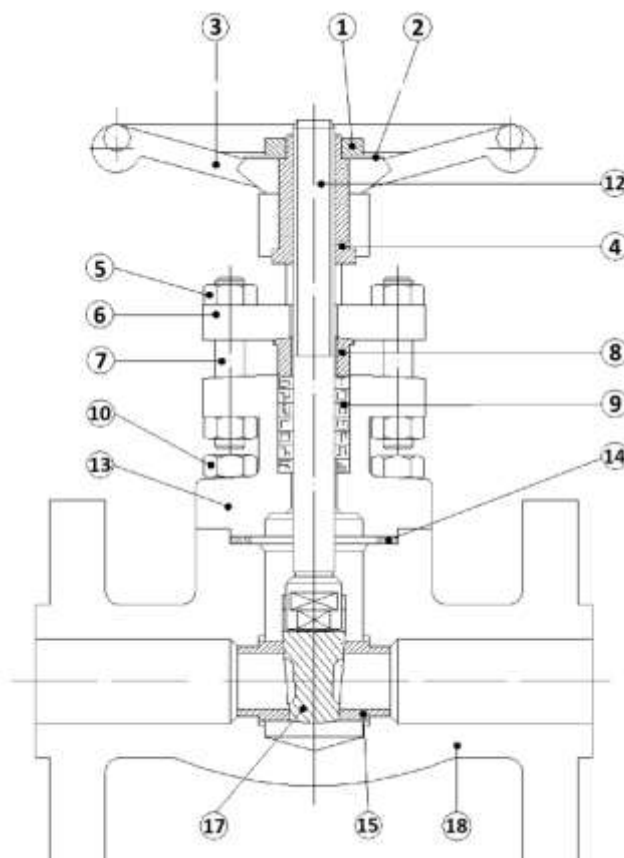


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RANGE :

- Forged carbon steel A105N gate valve with integral body flanges Class 150 (PN20) R.F. **Ref.130** from DN 15 to 50 (NPS 1/2" to 2")

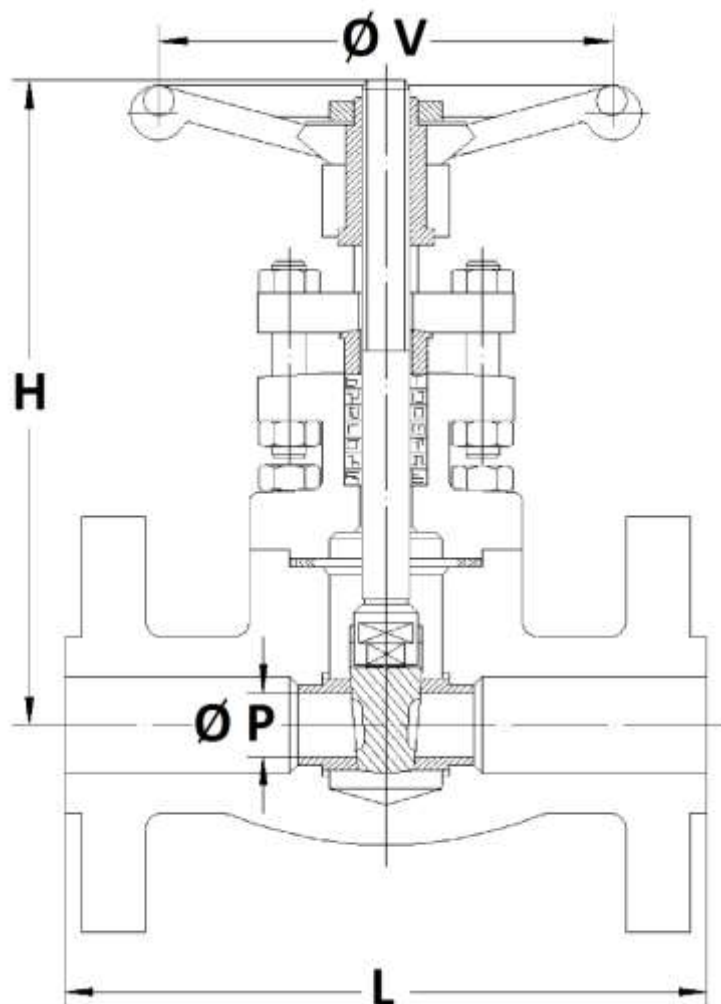
MATERIALS :



Item	Designation	Materials
1	Handwheel nut	Carbon steel
2	ID plate	Aluminium
3	Handwheel	Carbon steel
4	Yoke nut	ASTM A473 type 416
5	Packing nut	ASTM A194 2H
6	Gland flange	ASTM A105
7	Packing studs	ASTM A276 type 410
8	Gland	ASTM A276 type 410
9	Packing	Graphite
10	Screw	ASTM A193 B7
12	Stem	ASTM A276 type 410
13	Bonnet	ASTM A105N
14	Gasket	ASTM A182 F316 + graphite
15	Seat	ASTM A276 Tp 410 Stellite
17	Wedge	ASTM A182 F6a Stellite
18	Body	ASTM A105N

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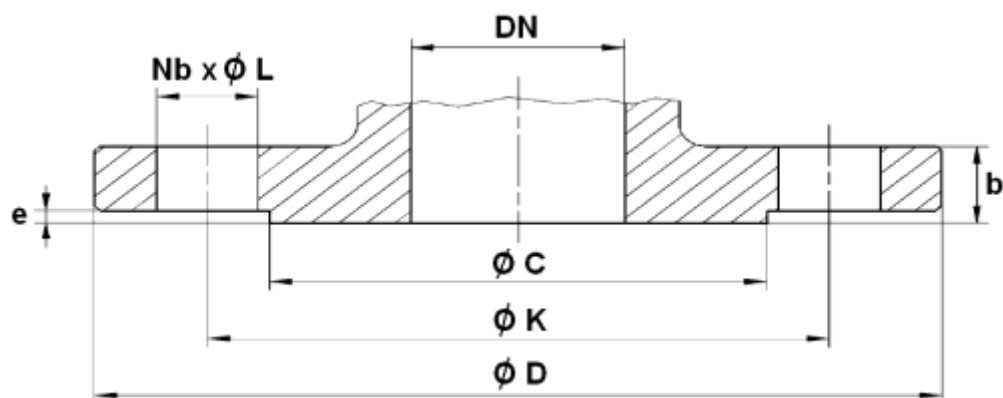
SIZE (in mm) :



DN (mm)	15	20	25	40	50
NPS (")	1/2"	3/4"	1"	1"1/2	2"
Ø P (full bore)	14	18	24	36.5	48.5
Ø P (standard bore)	9	12	17	28	36
L	108	117	127	165	178
H (opened)	185	210	240	285	315
Ø V	80	80	110	130	180
Weight (Kg)	3.2	4.7	6.6	12.4	15
Ref.	130015	130020	130025	130040	130050

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FLANGES SIZE (in mm) :



DN (mm)	15	20	25	40	50
NPS (")	1/2"	3/4"	1"	1 1/2"	2"
Ø C	34.9	42.9	50.8	73	92.1
Ø D	89	98.5	108	127	152.5
Ø K	60.5	70	79.5	98.5	120.5
Nb x Ø L	4 x 16	4 x 16	4 x 16	4 x 16	4 x 19
b	11.5	13	14.5	18	19.5
e	1.6	1.6	1.6	1.6	1.6

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STANDARDS :

- Manufacturer certified **ISO 9001 :2015**
- DIRECTIVE 2014/68/EU: For liquids or Gas of Group 1
 - DN15-25 (NPS 1/2"-1") : Article 4, §3 (SEP), no CE marking
 - DN40-50 (NPS 1"1/2-2") : Risk category I, CE0036 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
- Integral body flanges R.F. according to **ASME B16.05 Class 150**
- Length according to **EN 558 Series 3 (ASME B16.10 Table 1, Column 7)**
- Materials according to NACE MR 01-75

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.