

FORGED CARBON STEEL PISTON CHECK VALVE CLASS 800 A105N TRIM8 NPT

Forged carbon steel check valve TRIM8 NPT Class 800 standard bore for petroleum industry, steam, oil and gas and high pressure.

Piston type and bolted bonnet.

Stainless steel + graphite bonnet gasket.

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



Size : DN10 to DN50 (NPS 3/8" to 2")

Connection : NPT

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 136 Bars (Class 800)

Specifications : Piston type

Bolted bonnet

Standard bore

Horizontal and vertical position with ascendant fluid

Materials : Forged carbon steel ASTM A105N

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SPECIFICATIONS :

- Respect the flow direction (indicated by the arrow)
- Standard bore
- Piston type
- Vertical with ascendant fluid and horizontal position
- Bolted bonnet
- Forged carbon steel A105N
- ½ stellite (Trim 8)
- Class 800
- Phosphate protection, 5 µm thickness

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) :

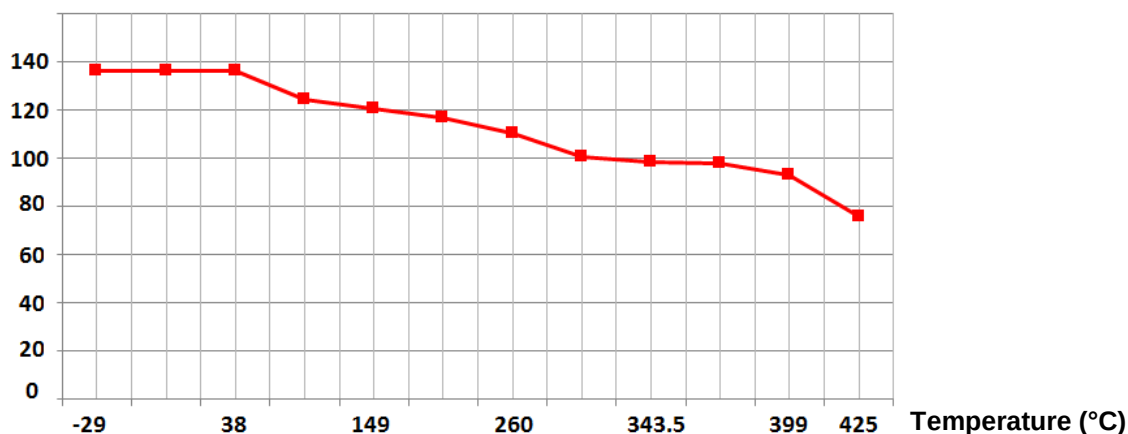
DN (mm)	10	15	20	25	32	40	50
NPS (")	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Kvs (m3/h)	0.95	0.86	2.4	5.2	8.2	9.5	15.6

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 :

Pressure (Bars)



FORGED CARBON STEEL PISTON CHECK VALVE CLASS 800 A105N TRIM8 NPT**OPENING PRESSURE :**

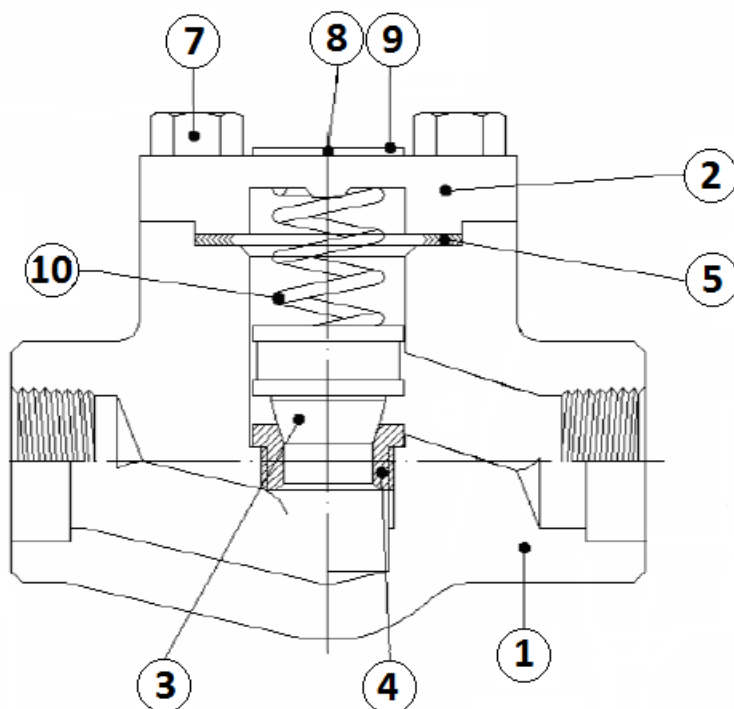
- Opening pressure between 300 and 600 mbar

RANGE :

- Forged A105N carbon steel check valve piston type TRIM 8 with threaded NPT ends **Ref. 313** DN 10 to DN 50 (NPS 3/8" to DN 2")

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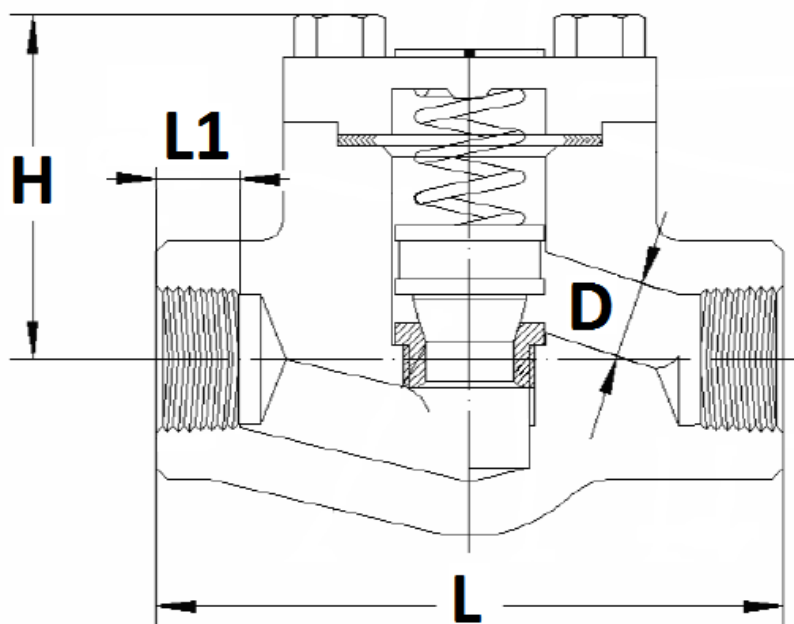
MATERIALS :



Item	Designation	Materials
1	Body	ASTM A105 N
2	Bonnet	
3	Piston	ASTM A276 type 410
4	Seat	ASTM A276 TYPE 410+STELLITE GR.6'
5	Gasket	AISI 316 + graphite spiral wound
7	Bolts	ASTM A193 B7
8	Rivet	Carbon steel
9	Nameplate	Aluminium
10	Spring	AISI 302

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SIZE (in mm) :



DN (mm)	10	15	20	25	32	40	50
NPS (")	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Ø D	7	9	13	17.5	22.5	29.5	35
L	80	80	90	110	127	155	170
H	53	53	60	73	80	98	118
L1	13	15	18	19	20	21	21
Weight (in Kg)	1.3	1.2	1.4	2.4	3.6	5.4	8
Ref.	313003	313004	313005	313006	313007	313008	313009

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STANDARDS :

- Manufacturer certified **ISO 9001 : 2015**
- **DIRECTIVE 2014/68/EU**: For liquids or Gas of Group 1
 - DN10-25 (NPS 3/8"-1") : Article 4, §3 (SEP), no CE marking
 - DN32-50 (NPS 1"1/4-2") : 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**
- Check 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**

INSTALLATION POSITION :

Horizontal position



Vertical position with ascendant fluid



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.