

FORGED STAINLESS STEEL F316 BALL CHECK VALVE CLASS 800 TRIM10 NPT

Forged stainless steel ball check valve TRIM10 NPT Class 800 standard bore for petroleum industry, steam, oil and gas and high pressure.

Ball type and bolted bonnet.

Stainless steel + graphite bonnet gasket.

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



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

Connection : NPT

Min Temperature : -29°C

Max Temperature : +538°C

Max Pressure : 132 Bars (Class 800)

Specifications : Ball type
Bolted bonnet
Standard bore
Horizontal position

Materials : Forged stainless steel A182 F316

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SPECIFICATIONS :

- Respect the flow direction (indicated by the arrow)
- Standard bore
- Ball type
- Horizontal position only
- Bolted bonnet
- Forged stainless steel
- Trim 10 standard inox 316
- Class 800

USE :

- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 49°C to + 538°C
- Max Pressure Ps : 132 bars (see graph)

FLOW COEFFICIENT Kvs (M3 / h) :

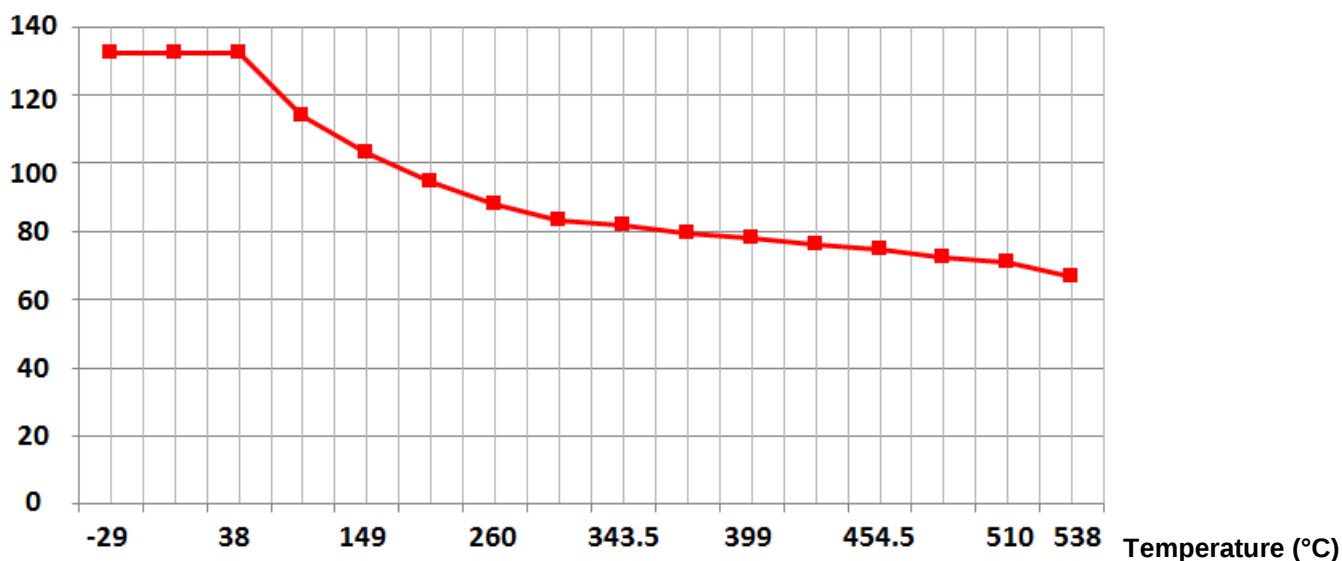
DN (mm)	15	20	25	32	40	50
NPS (")	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Kvs (m3/h)	0.86	2.4	5.2	8.2	9.5	15.6

PRESSURE / TEMPERATURE RELATION :

Pressure (bar)	132.4	132.4	132.4	114.1	103.1	94.5	87.9	83.1	81.7	79.3	77.9	76.2	74.5	72.4	71	66.9
Temperature (°C)	-49	0	38	93,5	149	204,5	260	315,5	343,5	371	399	425	454.5	482	510	538

PRESSURE / TEMPERATURE GRAPH :

Pressure (Bars)



FORGED STAINLESS STEEL F316 BALL CHECK VALVE CLASS 800 TRIM10 NPT**OPENING PRESSURE :**

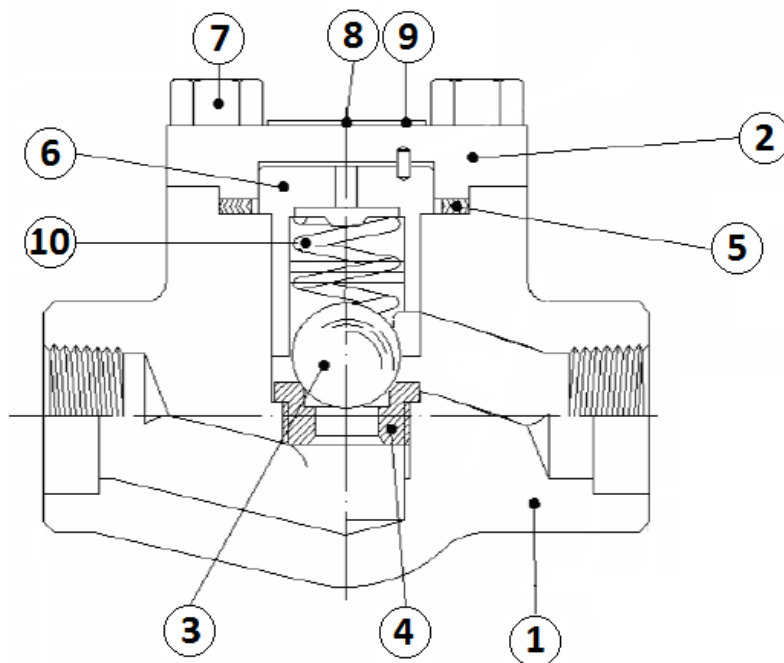
- Opening pressure between 300 and 600 mbar

RANGE :

- Forged A182 F316 stainless steel ball check valve type TRIM 10 with spring threaded female NPT ends **Ref.359** DN 15 to DN 50 (NPS 1/2" to DN 2")

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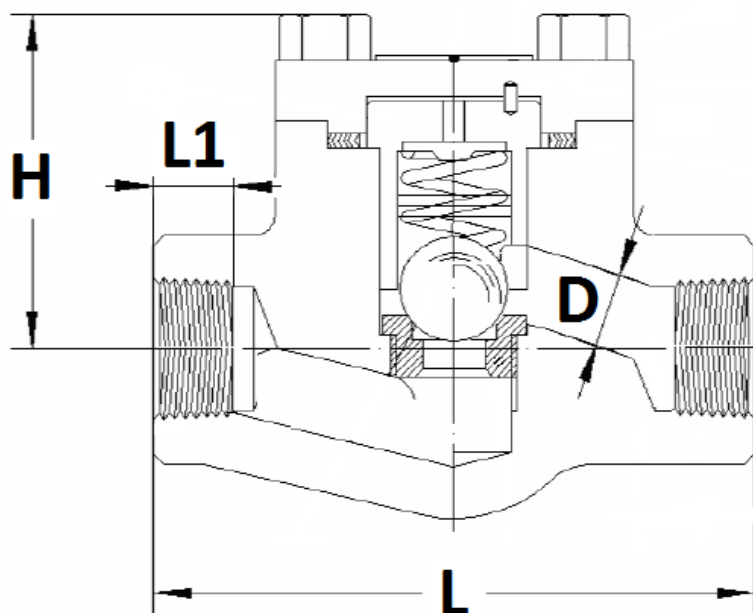
MATERIALS:



Item	Designation	Materials
1	Body	ASTM A182 F316
2	Bonnet	
3	Ball (or piston)	ASTM A479 type 316
4	Seat	
5	Gasket	AISI 316 + graphite spiral wound
6	Ball guide	ASTM A479 type 316
7	Bolts	ASTM A193 B8
8	Rivet	Carbon steel
9	Nameplate	Aluminium
10	Spring	Inconel X-750

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SIZE (in mm) :



DN (mm)	15	20	25	32	40	50
NPS (")	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø D	9	13	17.5	22.5	29.5	35
L	80	90	110	127	155	170
H	53	60	73	80	98	118
L1	15	18	19	20	21	21
Weight (in Kg)	1.2	1.48	2.5	3.7	5.63	8.3
Ref.	359004	359005	359006	359007	359008	359009

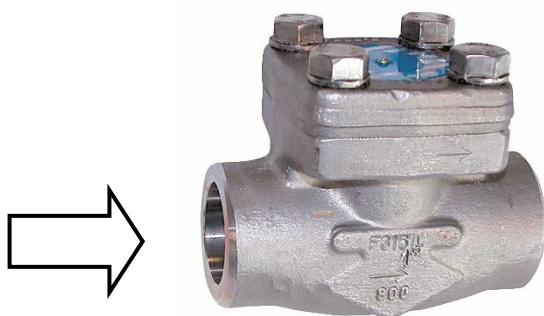
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STANDARDS :

- 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
 - 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



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.