



FORGED CHECK VALVE 800 LBS (312-313-314-318-319-358-359)

Model/Ref: 312 - 358



*Partnership.
Without Limits.*

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FORGED CHECK VALVE 800 LBS (312-313-314-318-319-358-359)

Size : DN 3/8" to 2"
Ends : Female - Female BSP or NPT , Socket Welding
Min Temperature : -30°C in SS and -20°C in carbon steel
Max Temperature : + 440°C
Max Pressure : 138 Bars
Specifications : Piston or ball type
Bolted bonnet and gland pack
Reduced bore

Materials : Carbon steel or stainless steel

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SPECIFICATIONS :

- Reduced bore
- Piston type (with SS 302 spring) or ball type (without spring)
- Horizontal position only (respect the flow direction indicated by the arrow)
- Easy maintenance thanks to the bolted bonnet
- Forged carbon steel or stainless steel
- ½ stellite (Trim 8) for carbon steel types , guaranty of excellent strength mechanical of the seat
- Trim 10 standard inox 316 for stainless steel types
- Metal / metal seat
- High temperature thanks to the stainless steel + graphite bonnet gasket
- 800 lbs

USE :

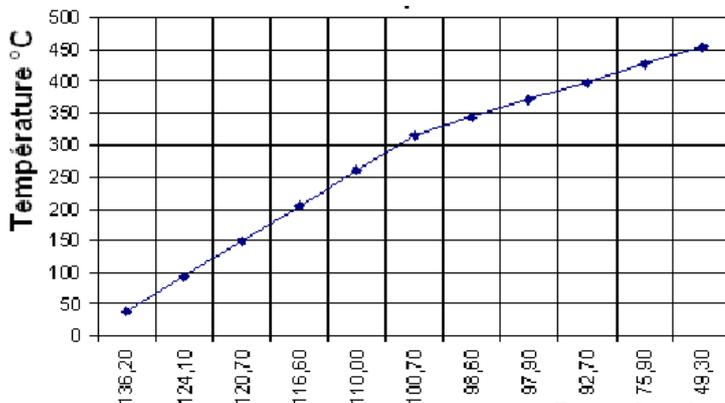
- Petroleum industry, steam, high pressure
- Min and max Temperature Ts : - 30°C to + 440°C for stainless steel types **Ref.358/359**
- Min and max Temperature Ts : - 20°C to + 440°C for carbon steel types **Ref. 312/313/314/318/319**
- Max Pressure PN : 138 bars (see graph)

FLOW COEFFICIENT Kvs (M3 / h) :

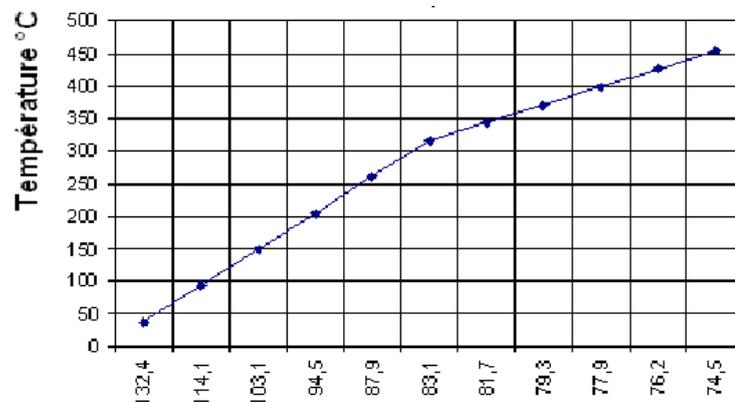
DN	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Kvs (m3/h)	0.95	0.86	2.4	5.2	8.2	9.5	15.6

PRESSURE / TEMPERATURE GRAPH :

FOR CARBON STEEL TYPES (Ref. 312-313-314-318-319)



FOR STAINLESS STEEL TYPES (Ref. 358-359)

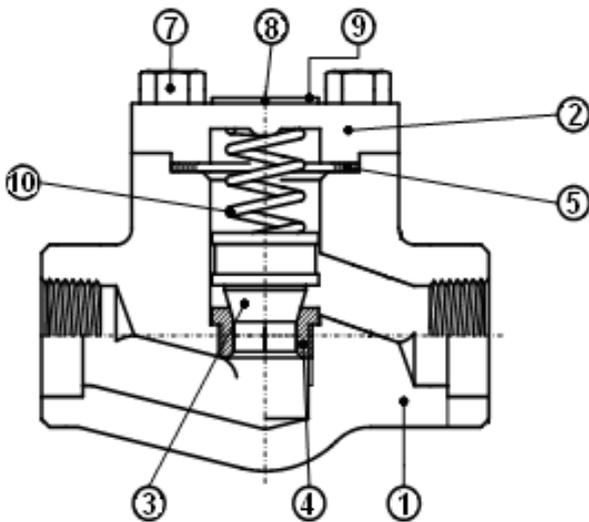
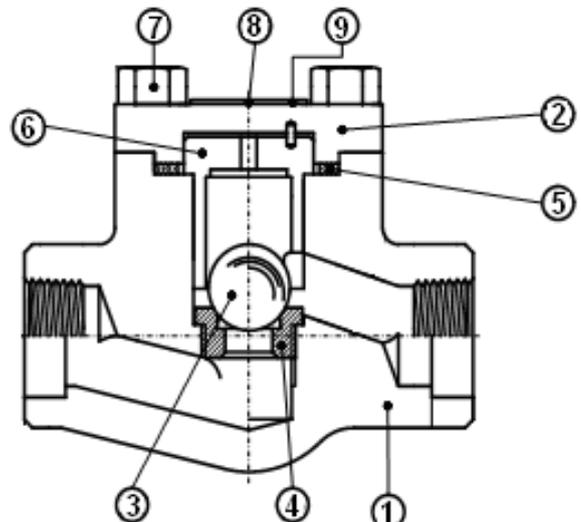


FORGED CHECK VALVE 800 LBS (312-313-314-318-319-358-359)
OPENING PRESSURE :

- Opening pressure between 300 and 600 mbar

RANGE :

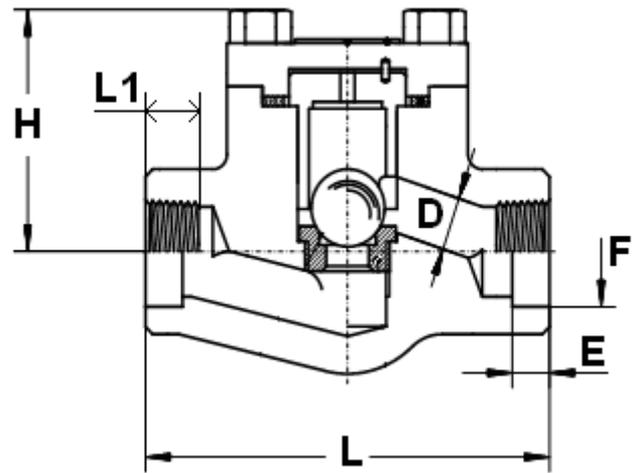
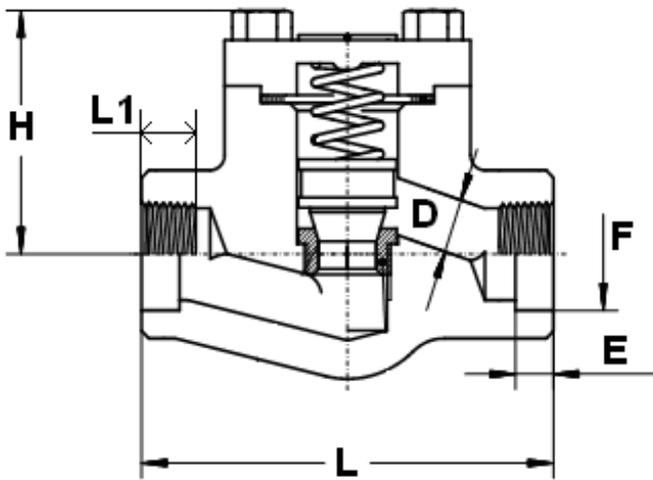
- Carbon steel piston type with spring Socket Welding ends **Ref. 312** DN 10 to DN 50
- Carbon steel piston type with spring threaded NPT **Ref.313** DN 3/8" to DN 2"
- Carbon steel piston type with spring threaded BSP cylindric **Ref.314** DN 3/8" to DN 2"
- Carbon steel ball type without spring Socket Welding ends **Ref.318** DN 10 to DN 50
- Carbon steel ball type without spring threaded NPT **Ref.319** DN 3/8" to DN 2"
- Stainless steel ball type without spring Socket Welding ends **Ref.358** DN 10 to DN 50
- Stainless steel ball type without spring threaded NPT **Ref.359** DN 3/8" to DN 2"

MATERIALS:
Piston types

Ball types


Item	Designation	Materials 312/313/314/318/319	Materials 358/359
1	Body	ASTM A105 N	ASTM A182 F316
2	Bonnet	ASTM A105 N	ASTM A182 F316
3	Ball (or piston)	ASTM A276 type 410	ASTM A479 type 316
4	Seat	ASTM A276 TYPE 410+STELLITE GR.6'	ASTM A479 type 316
5	Gasket	SS 316 + graphite spiral wound	SS 316 + graphite spiral wound
6	Ball guide	ASTM A276 type 410	ASTM A479 type 316
7	Bolts	ASTM A193 B7	ASTM A193 B8
8	Rivet	Carbon steel	Carbon steel
9	Nameplate	Aluminium	Aluminium
10	Spring (for piston)	SS 302	-

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SIZE (in mm) :



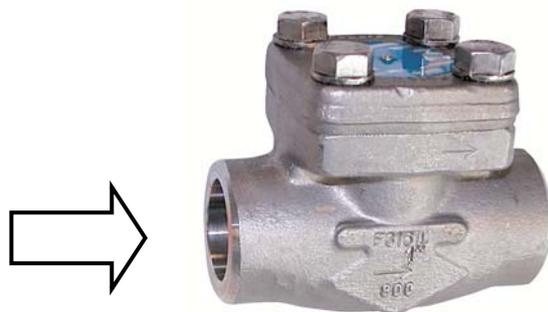
Ref.	DN	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
312/313/314	Ø D	7	9	13	17.5	22.5	29.5	35
318/319	L	80	80	90	110	127	155	170
358/359	H	53	53	60	73	80	98	118
313/314/319/359	L1	13	15	18	19	20	21	21
312/318/358	E (SW)	11.1	12.7	14.5	16	17.5	19	22
	Ø F (SW)	17.6	21.72	27.05	33.78	42.54	48.64	61.11
312/313/314/318/319	Weight (Kg)	1.3	1.2	1.4	2.4	3.6	5.4	8
358/359	Weight (Kg)	1.3	1.2	1.48	2.5	3.7	5.63	8.3

FORGED CHECK VALVE 800 LBS (312-313-314-318-319-358-359)**STANDARDS :**

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0036
Risk category III module H
- Conception according to API 6D
- Tests according to API 598, table 6
- Approval certificate Russian Federation **GOST-R**
- Check valves approved by the main oil industries (certificates on request)
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 (optional marking)
- Threaded female BSP cylindrical ends according to ISO 7-1 Rp
- Threaded female NPT ends according to ANSI B1.20.1

INSTALLATION POSITION :

Horizontal position



ADVICE :Our opinion and our advice are not guaranteed and Lauridsen Industri shall not be liable for the consequences of damages.

FORGED CHECK VALVE 800 LBS (312-313-314-318-319-358-359)**INSTALLATION INSTRUCTIONS****GENERAL GUIDELINES :**

- Ensure that the check 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 check valves to be installed are of correct strength 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 check valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the check valves.
- **Ensure that both connecting pipes either side of the check 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 check valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the check 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 be sure to not exceed 350-400°C**
- **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 check valve.**
- **Fluids in the check valve must not contain solid objects (it could damaged the seat).**
- **If there is a direction changing or if there's another material, it's better to take away the check valve so that it is outside the turbulence area (between 3 and 5 times the ND before and after).**
- **After a pump please refer to norm NF CR 13932 to install the check valve.**