

CARBON STEEL SWING CHECK VALVE FLANGED CLASS 150 PN20 TRIM8

Carbon steel swing check valve TRIM8 flanged Class 150 PN20 full bore and partial opening for water distribution, gas oil, steam, petrochemical, petroleum industry and gas.

Bolting bonnet with hoisting eye from DN150 to 400.

Gasket bonnet in stainless steel + graphite.

Vertical or horizontal position

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



NACE
MR01-75

Certificate
3.1



PED 2014/68/UE



Size : DN50 to DN400 (NPS 2" to 16")

Connection : Flanges RF Class 150 PN20

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 20 Bars

Specifications : TRIM8

Bolted bonnet

Full bore and partial opening

Materials : Carbon steel ASTM A216 WCB

CARBON STEEL SWING CHECK VALVE FLANGED CLASS 150 PN20 TRIM8

SPECIFICATIONS :

- Swing check valve
- Full bore and partial opening
- Vertical position with ascendant fluid or horizontal position (respect the flow direction indicated by the arrow)
- Flanges R.F. Class 150 (PN20)
- Carbon steel body
- Bolted bonnet
- Hoisting eye from DN150 to 400 (NPS 6" to 16")
- ½ stellite (Trim 8 , seat with stellite)
- Acrylic grey painting RAL 7001 color, 60 µm thickness

USE :

- Water distribution, gas oil, petrochemical, petroleum industry
- Min and max Temperature Ts : - 29°C to + 425°C
- Max Pressure Ps : 20 bars

FLOW COEFFICIENT Kvs :

DN (mm)	50	80	100	125	150	200	250	300	350	400
NPS (")	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
Kvs	40.7	92.9	169.6	265	381.5	685	1076.8	1556.7	1891	2515

PRESSURE / TEMPERATURE RELATION :

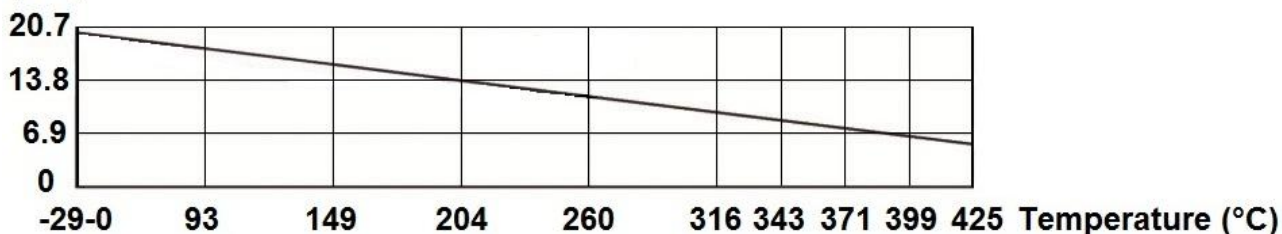
(According to AMSE B16-34 for A216 WCB)

Pressure (Bar)	19.6	19.6	17.9	15.8	13.8	11.7	9.6	8.6	7.6	6.5	5.5
Temperature (°C)	-29	38	93	149	204	260	316	343	371	399	425

PRESSURE / TEMPERATURE GRAPH :

Pressure

(Bar)

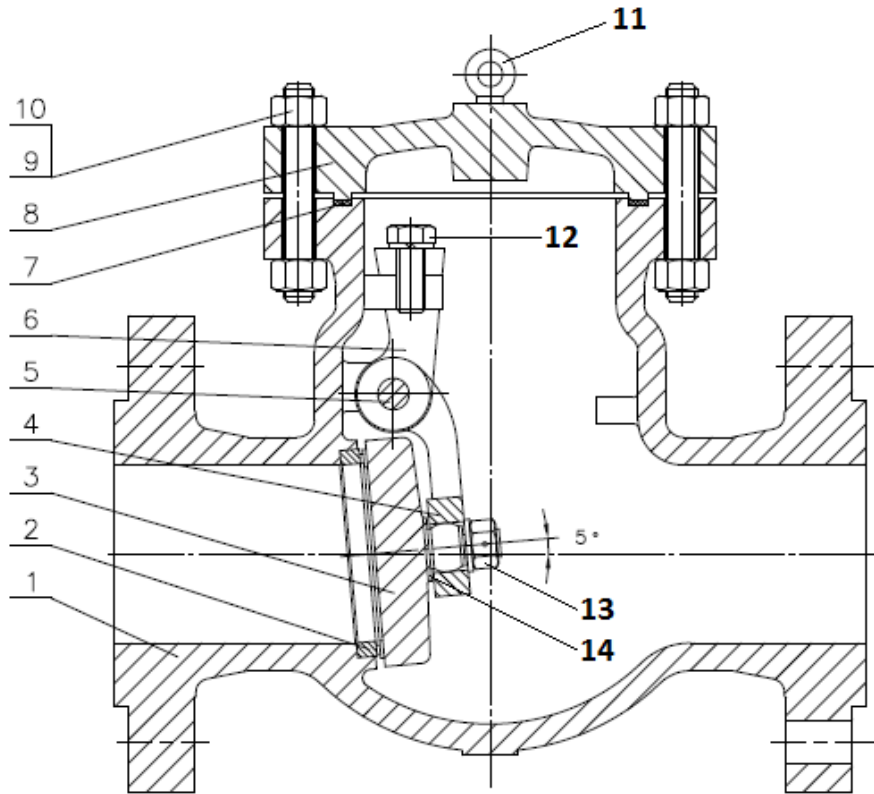


RANGE :

- Carbon steel swing check valve flanged R.F. Class 150 (PN20) **Ref. 373** from DN 50 to DN 400 (NPS 2" to 16")

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MATERIALS :



Repairability :



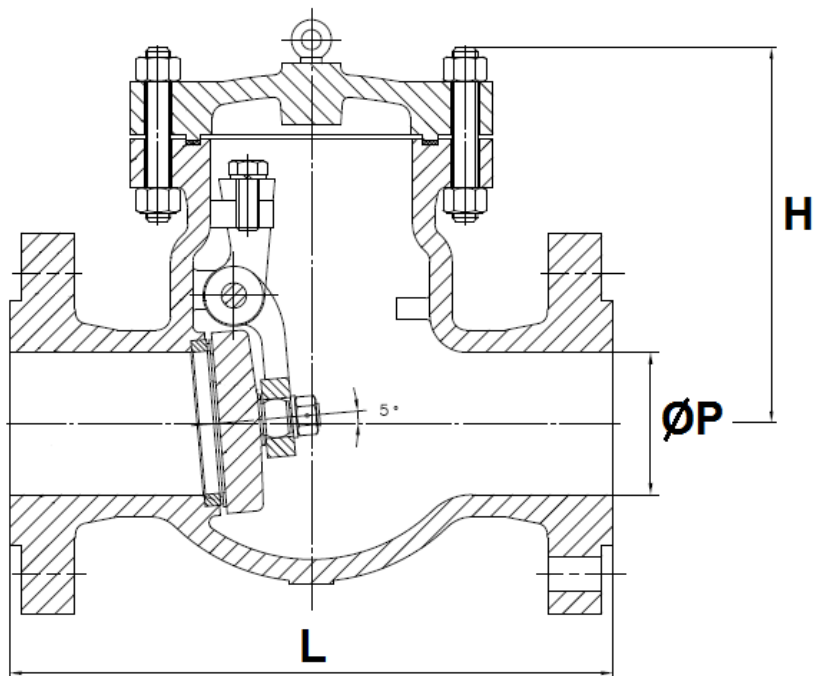
***Bonnet gasket (Item 7)**

DN (mm)	NPS (")	Ref.
50	2"	9802328
80	3"	9802330
100	4"	9802331
150	6"	9802332
200	8"	9802333
250	10"	9802334
300	12"	9802335
350	14"	9802336
400	16"	9802337

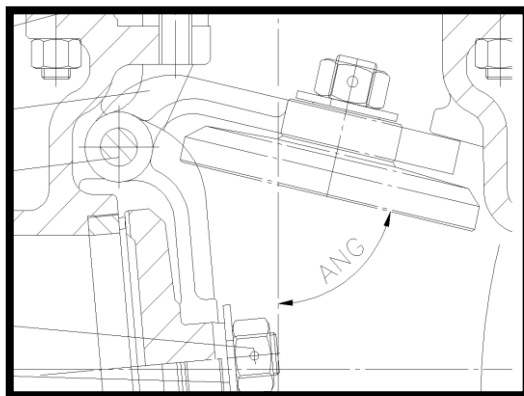
Item	Designation	Materials
1	Body	ASTM A216 WCB
2	Seat	ASTM A105 + stellite Gr.6
3	Disc	ATM A216 WCB + 13Cr
4	Stem	ASTM A216 WCB
5	Pin	ASTM A276-420
6	Support	ASTM A216 WCB
7*	Bonnet gasket	Graphite + AISI 304
8	Bonnet	ASTM A216 WCB
9	Stud bolt	ASTM A193 Gr B7
10	Nut	ASTM A194 Gr 2H
11	Hoisting eye	Steel 1025
12	Screw	ASTM A193 Gr B7
13	Nut	ASTM A194 Gr 2H
14	Washer	ASTM A276-420

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SIZE (in mm) :



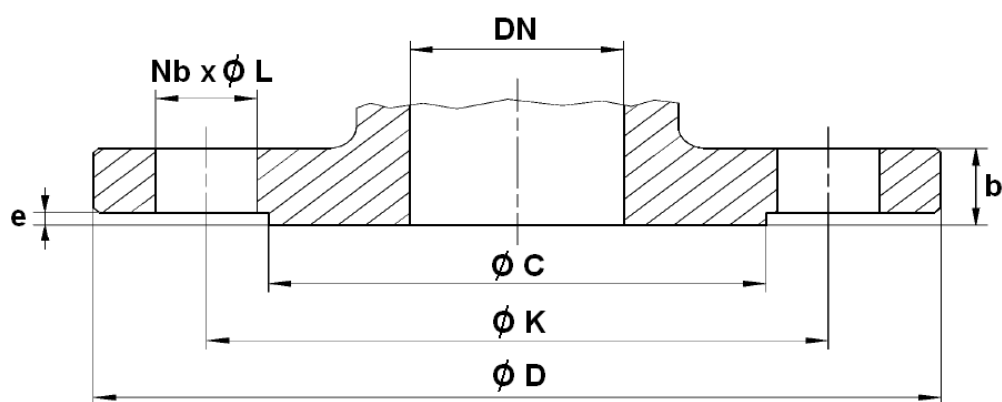
OPENING ANGLE :



DN (mm)	50	80	100	125	150	200	250	300	350	400
NPS (")	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
Ø P	51	76	102	127	152	203	254	305	337	388
L	203	241	292	330	356	495	622	699	787	864
H	152	175	204	231	293	353	390	432	460	490
Opening angle	55°			60°			63°			65°
Weight (Kg)	17	26	42	59	69	114	185	253	410	468
Ref.	373050	373080	373100	373125	373150	373200	373250	373300	373350	373400

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FLANGES SIZE CLASS 150 PN20 (in mm) :



DN (mm)	50	80	100	125	150	200	250	300	350	400
NPS (")	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
Ø C	92.1	127	157.2	185.7	215.9	269.9	323.8	381	412.8	469.9
Ø D	150	190	230	255	280	345	405	485	535	595
Ø K	120.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8
Nb x Ø L	4 x 19	4 x 19	8 x 19	8 x 22	8 x 22	8 x 22	12 x 26	12 x 26	12 x 29	16 x 29
b	16.3	19.5	24.3	24.3	25.9	29	30.6	32.2	35.4	37
e	2	2	2	2	2	2	2	2	2	2

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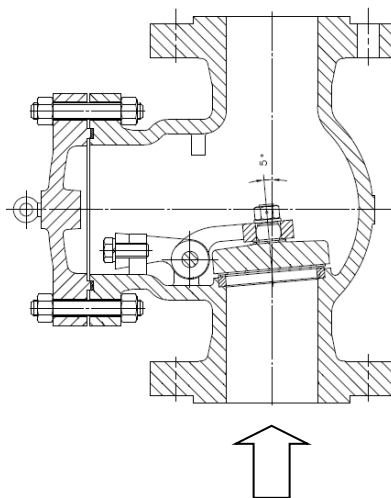
STANDARDS :

- Manufacturer certified ISO 9001 :2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN50 (NPS 2") : Risk Category I, CE0036 marking
 - DN65-150 (NPS 2"1/2-6") : Risk Category II, CE 0036 marking
 - DN200-400 (NPS 8"-16") : Risk Category III, CE 0036 marking
- Certificate 3.1 on request
- Designing according to API 594 and BS 1868
- Pressure tests according to API 598, table 6
- Length according to ASME B16.10, table 1 A15 series and EN 558 series 10 (EN558 series 21 for DN400 16")
- Flanges R.F. according to ASME B16.05 Class 150
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 &22 (optional marking) according to directive 2014/34/EU
- 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.

INSTALLATION POSITIONS :

Vertical position (ascendant fluid)



Horizontal position

