STAINLESS STEEL WAFER SWING CHECK VALVE FKM

Wafer stainless steel swing check valve for chemical and pharmaceutical industries, petrochemical industries and hydraulic installation.
Stainless steel body and disc with FKM seat.
Wafer type with short length and with a removable hoisting eye for easy installation.

Certificate 3.1

CE

TÜVRheinland® PED/2014/68/UE



Size :	DN40 to DN600
Connection :	Between flanges PN10/16 according to DN Class 150 (PN20) from DN100 to 400
Min Temperature :	-10°C
Max Temperature :	+180°C
Max Pressure :	16 Bars up to DN300, 10 bars over
Specifications :	FKM seat Horizontal or vertical position with ascendant fluid Wafer type Removable hoisting eye Weak headloss
Materials :	Stainless steel ASTM A351 CF8M

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SPECIFICATIONS :

- Wafer swing check valve
- Vertical position with ascendant fluid or horizontal position (respect the flow direction indicated by the arrow)
- Between flanges PN10/16 up to DN150, PN16 over and Class 150 (PN20) from DN100 to 400
- With removable hoisting eye
- Short length
- Economical solution
- Monobloc disc and stem for a better mechanical strength
- Integrated body gasket

USE :

- Chemical and pharmaceutical industries, petrochemical industries, hydraulic installation
- Min and max Temperature Ts : - 10°C to + 180°C
- Max Pressure Ps : 16 bars up to DN300 included and 10 bars over
- **Do not use with pulsatory speed**
- **Max Speed : 3 M. / Sec.**

FLOW COEFFICIENT Kvs (in m3/h) :

DN	40	50	65	80	100	125	150	200
Kvs (m3/h)	21.88	44.72	46.72	117.89	226.23	453.44	649.86	1322.6

DN	250	300	350	400	450	500	600
Kvs (m3/h)	2147.4	2993.2	4020.2	5430.7	6840	9080.8	13758.4

HEAD LOSS CALCULATIONS:

$\Delta p = (Q / Kv)^2 \times SG$

Q : flow in m^3/h

Δp : Head loss in bar

SG : Specific gravity (= 1 for water)

Kv : Volume of water in m^3/h, that will flow through a given restriction or valve opening with a pressure drop of 1 bar at 20°C)

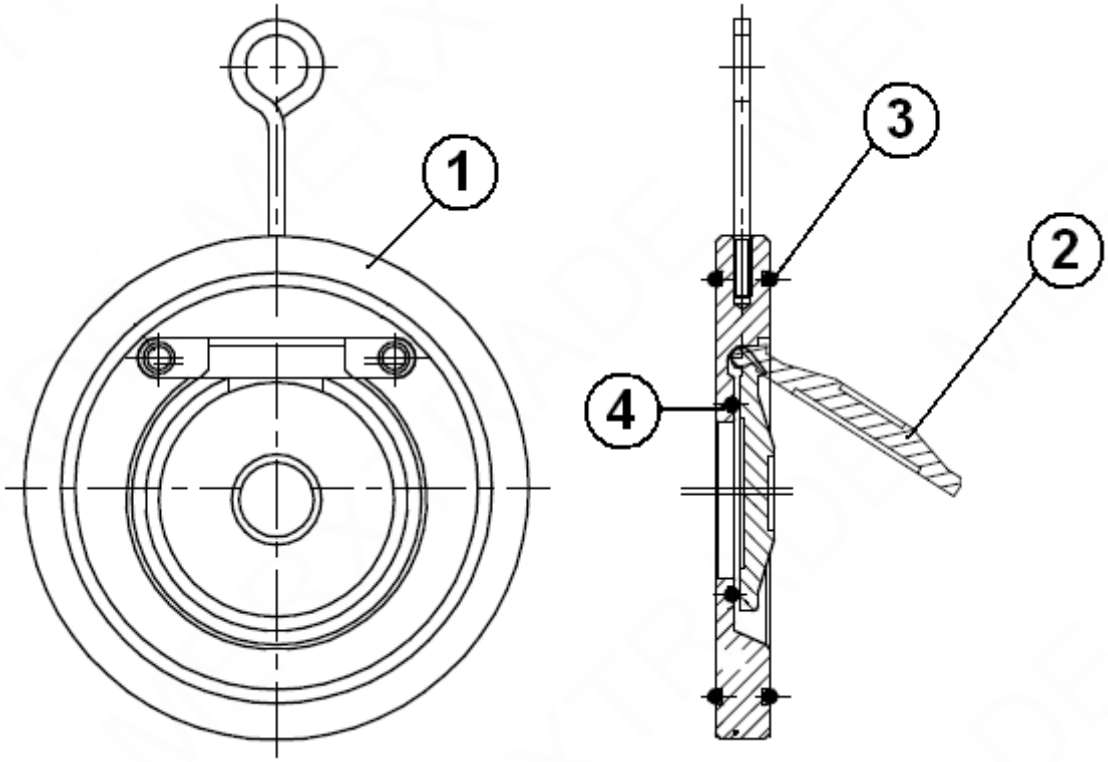
CONNECTION :

- Stainless steel body with FKM gasket between flanges PN10/16 up to DN150, PN16 over DN40 to DN 600
- Stainless steel body with FKM gasket between flanges PN10 DN400 to DN 450
- Between flanges Class 150 PN20 possible from DN100 to 400

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MATERIALS :



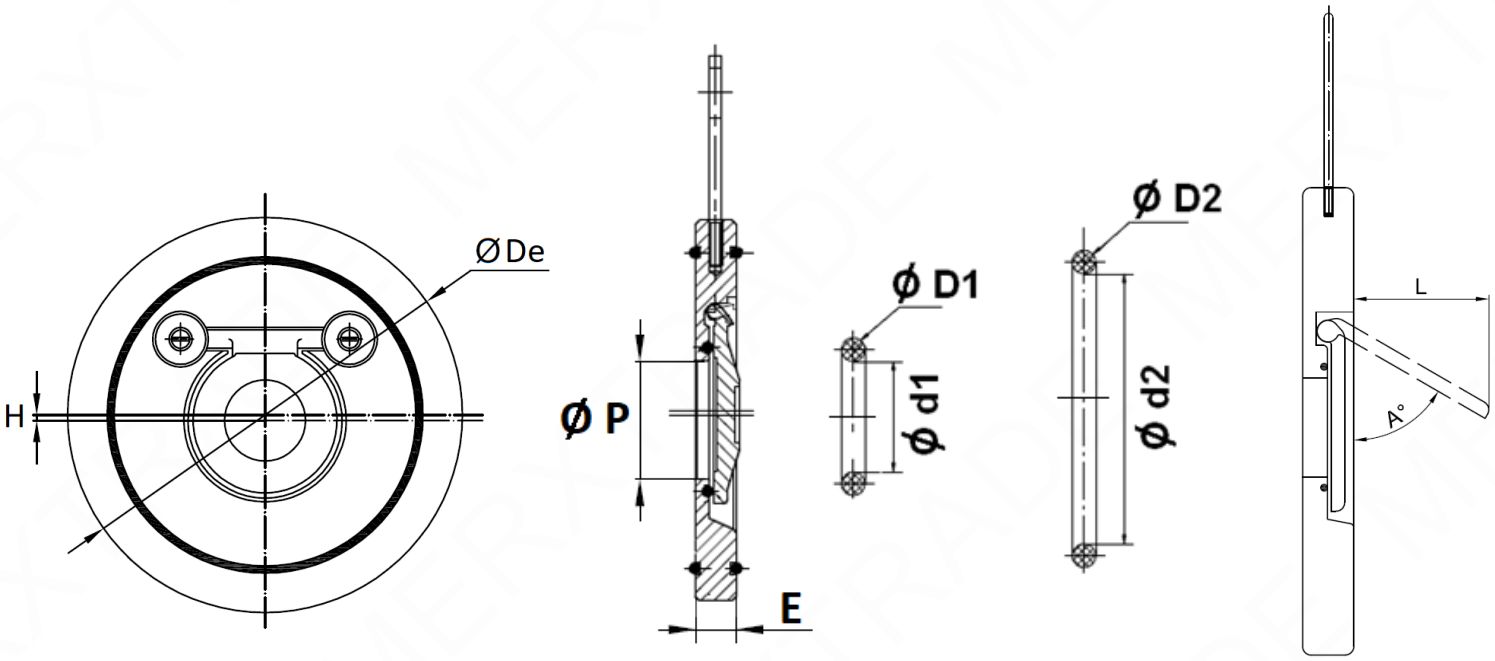
Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Disc	
3	Seat	FKM
4	Gasket	

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SIZE (in mm) :

CLOSED POSITION **GASKETS** **OPENED POSITION**



PN	PN10/16							PN16							
DN	40	50	65	80	100*	125*	150*	200*	250*	300*	350*	400*	450	500	600
E	14	14	14	14	18	18	20	22	26	32	38	44	50	56	62
Ø De	94	109	129	144	164	194	220	275	331	386	446	497	557	619	736
H	1		2	3		5			6	10	12				14
Ø P	19	27	28	43.5	60	83.5	100	141	179	212	246	285	320	366	448
L	25.3	33.7	42.1	54.2	72.1	92.9	111.9	150.3	190.5	228.1	253.4	291.5	328.6	366.2	446.8
A (°)		65	65	60.4	62.9	62.7	65.4	61.5	63.4	67.8	64.1	63.7	64.4	65.8	65.5
Ø d2	70.1	80.7	100.2	107.8	134.8	158	186	240.1	284.4	328	385	435	486	534	630
Ø D2	3.8									6	8				
Ø d1	21.6	29.3	34.8	48.7	62.9	84.8	101.5	144	181.6	216.4	259.2	298.2	336.2	382.2	468.2
Ø D1	3				3.8					6	8				
Weight (Kg)	0.69	0.86	1.2	1.49	2.42	3.29	4.72	7.92	13.73	21.04	35	51	70	96	135

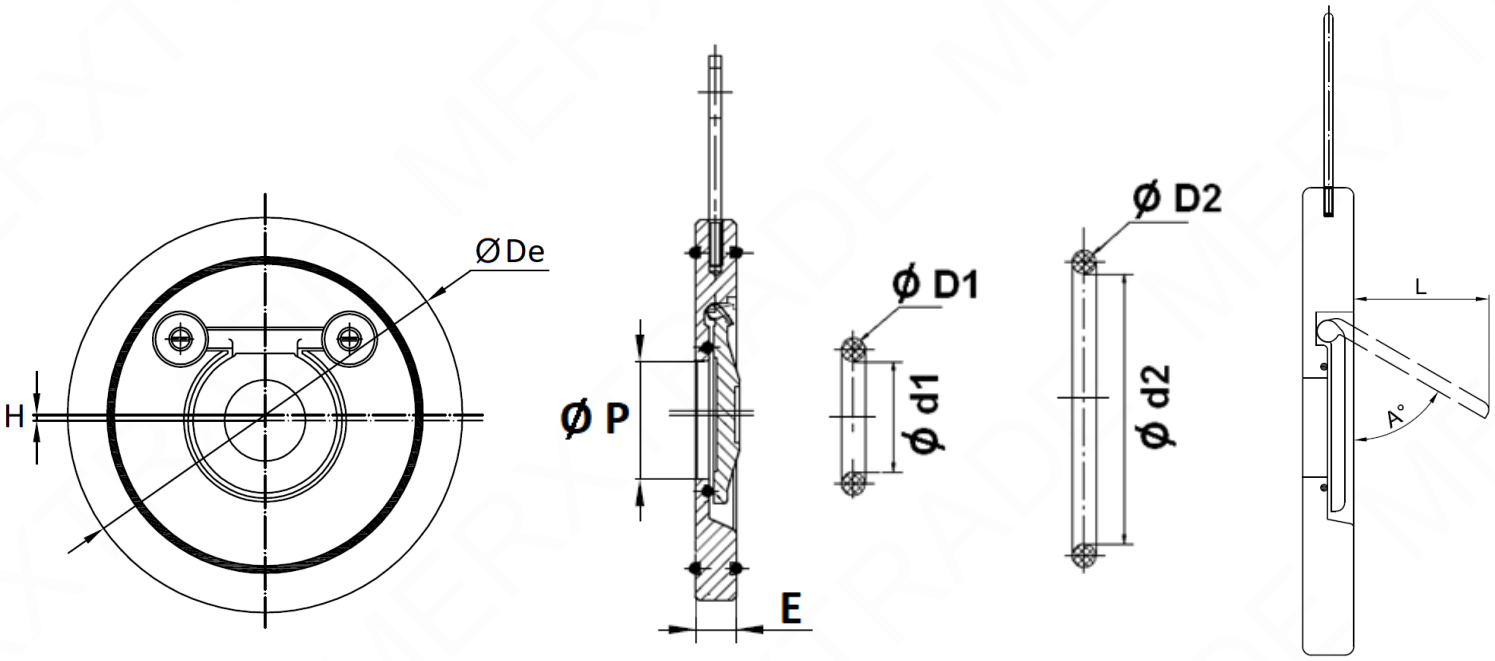
*installation possible between Class 150 (PN20) flanges from DN100 to DN400

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SIZE BETWEEN FLANGES PN10 TYPES (in mm) :

CLOSED POSITION **GASKETS** **OPENED POSITION**



PN	PN10	
DN	400	450
E	44	50
Ø De	491	541
Ø P	285	320
L	291.5	328.6
A (°)	63.7	64.4
H	12	
Ø d2	435	486
Ø D2	8	
Ø d1	298.2	336.2
Ø D1	8	
Weight (in Kg)	47	70

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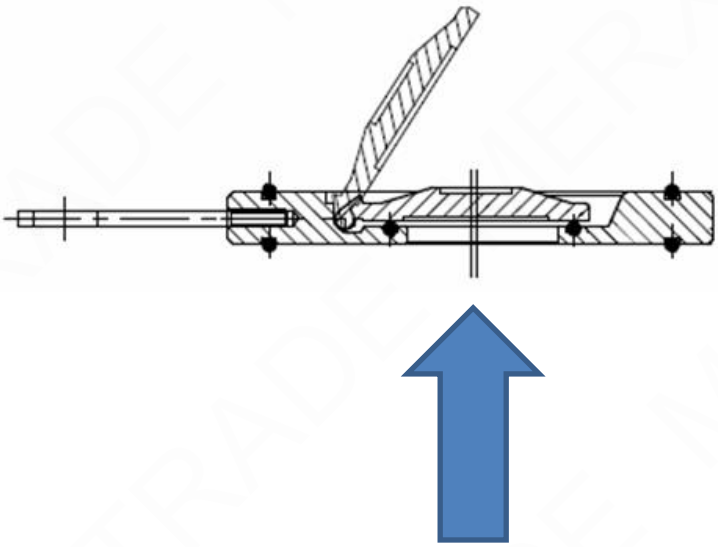
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STANDARDS :

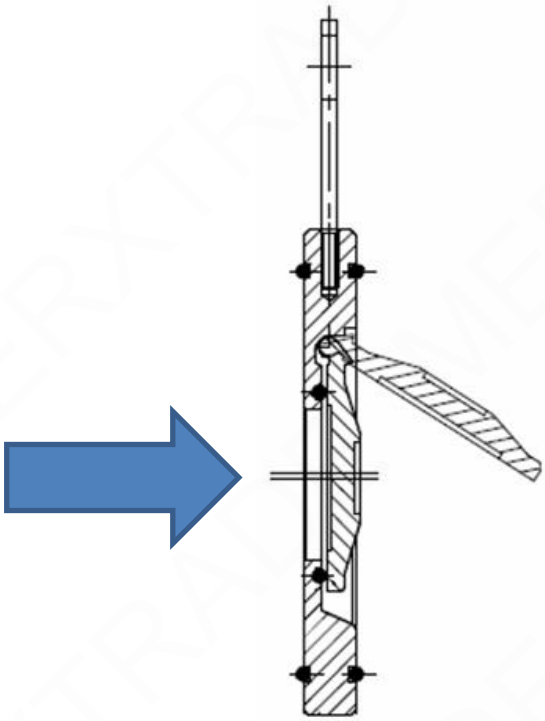
- Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015
- Designing according to API 594 and EN 16767
- Pressure tests according to API 598, table 6
- DIRECTIVE 2014/68/UE : For liquids and Gas of Group 1
    - DN40-50 : Risk category I, CE marking
    - DN65-200 : Risk category II, CE0035 marking
    - DN250-300 : Risk category III, CE0035 marking
    - DN350 : Risk category II, CE0035 marking
    - DN400-600 : Risk category III, CE0035 marking
- Certificate 3.1 on request
- Length according to EN 558 series 97 (NF 29377)
- Between flanges according to EN 1092-1 PN10/16

INSTALLATION POSITIONS :

Vertical position (ascendant fluid)



Horizontal position



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