

Model RM

TILTING DISC CHECK VALVE

The RM model is a reliable metal seated check valve with oblique seating angle widely used in industries such as:

- Pulp and Paper
- Wastewater treatment plants
- Food and Beverage
- Etc.

Sizes

DN 40 to DN 900
Larger diameters on request

Working pressure and temperatures

DN 40 to DN 300: 40 bar
DN 350 to DN 600: 25 bar
DN 700 to DN 900: 10 bar

CF8M: -20°C / 80°C

Face to face dimensions

According to EN 558 (Serie 16)

Directives

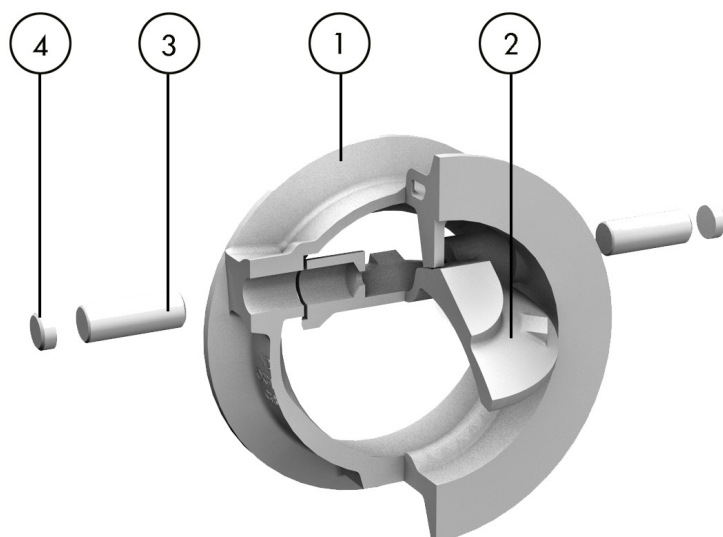
For EU Directives and other Certificates please see the document: Directives & Certificates Compliance - Knife Gate Valves –Catalogues and Datasheets



Main features

Wafer design that allows installation on PN10/16/25/40/ASME150/ASME300 flanges
Excellent tightness according to API 598
Low pressure drop and opening pressure
Quick closing reaction (oblique seating) which reduces water hammer
As an option auxiliary spring increases the closing reaction

STANDARD PARTS LIST



Part	Description	
1	Body	CF8M
2	Disc	CF8M
3	Shaft	AISI 316
4	Cover	AISI 316

DESIGN FEATURES

Body

Wafer style cast monoblock. Cast-in lift eye starting from DN 200 for easier installation

Disc

Cast circular, of lightweight designed for maximum strength and low inertia shape

Shaft

Stainless steel heavy stub shafts are positioned to give maximum strength and accurate guiding to the tilting disc

OTHER OPTIONS

Auxiliary spring

Accelerates the speed of closing (standard for sizes DN 50 / DN 65 / DN 80)

Other material of construction

Special alloys such as AISI 317, 254SMO, Hastelloys, ...

Fabricated valves

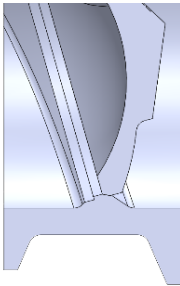
ORBINOX is equipped for in house fabrication of special valves. Depending on the design, diameter, pressures, material of construction,...

Counterweight

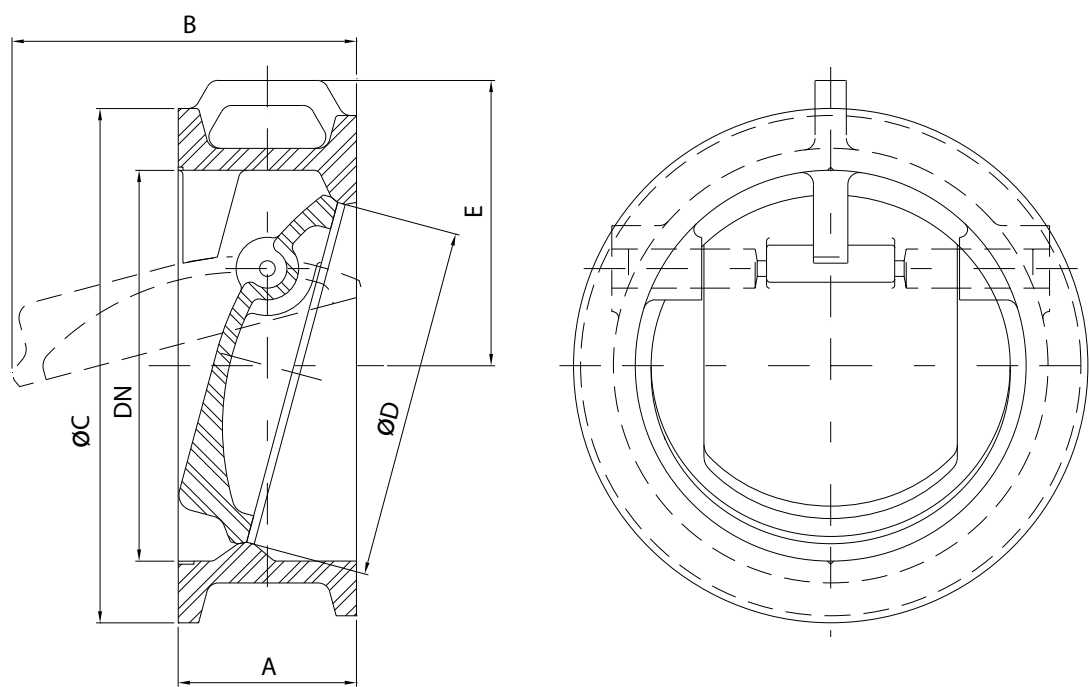
It is used in pumping stations to reduce the water hammer effect. Application of these systems requires previous study of the installation.

- Available for sizes ≥DN-300
- DN-300/600: ORBINOX recommends spring instead of counterweight
- ≥ DN-600: counterweigh option available but for working pressure up to 6bar. For higher pressure select RA valve with hydraulic damper option. RM valve does not allow hydraulic damper option

SEAT CONFIGURATIONS/DESIGNS

Type	Features
Metal / Metal (standard)	Body and disc seats are machined for an accurate sealing 

DIMENSIONS



DN	A	B	ØC	ØD	E	Weight (Kg)
40	33	45	84	34	-	0,8
50	43	54	102,5	44	-	1
65	46	64	121,5	58	-	2
80	64	85	134,5	72	-	3
100	64	98	162	90	-	4,5
125	70	116,5	192	112	-	6,5
150	76	136	219	135	-	7,5
200	89	222,5	273	180	155	15
250	114	221	329	225	182,5	26,5
300	114	251	378	270	210	33,5
350	127	294	438	315	240	54
400	140	340	489	365	275	65,5
450	152	370	540	410	300	92
500	152	405	594	460	325	110
600	178	497	696	555	390	178
700	229	616	800	650	460	245
750	229	613	880	650	485	310
800	241	675	917	745	515	385
900	241	750	1012	835	562	445