

# Orifice plate, model FLC-OP

## Orifice flange, model FLC-FL

### Annular chamber, model FLC-AC

WIKA data sheet FL 10.01

#### Applications

- Power generation
- Oil production and refining
- Water treatment and distribution
- Gas processing and transmission
- Chemical and petrochemical industry



#### Special features

- Maximum operating temperature up to 800 °C
- Maximum operating pressure up to 400 bar
- Suitable for liquid, gas and steam flow measurement
- Accuracy  $\leq \pm 0.5\%$  of actual flow rate
- Repeatability of measurement of 0.1 %

Orifice plate, model FLC-OP

#### Description

Differential pressure flow meters are used in many industrial applications. As primary flow elements, orifice plates represent the most common solution. This instrument is notable for its easy installation and management.

The differential pressure generated by the primary flow element is normally transformed into an electrical signal proportional to the flow rate by a differential pressure transmitter.



Orifice flange, model FLC-FL



Annular chamber, model FLC-AC

## Orifice flanges, model FLC-FL

### Description

Orifice flanges are intended for use instead of standard pipe flanges when an orifice plate or flow nozzle must be installed. Pairs of pressure tapings are machined into the orifice flanges, making separate orifice carriers or tapings in the pipe wall unnecessary. The assembly of the orifice plate is completed with jacking screws to ensure an easy removal.

### Nominal size

Available in accordance with all relevant standards.

### Nominal pressure rating

Available in accordance with all relevant standards.

### Pipe schedule

The pipe schedule must be specified by the customer.

### Materials

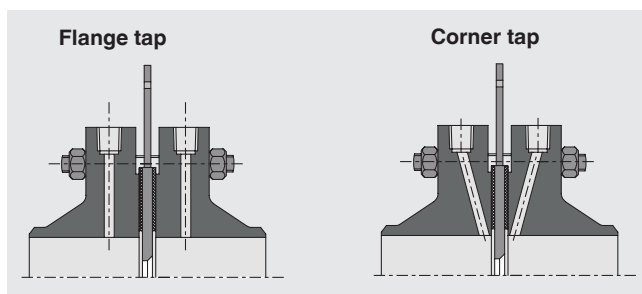
- Carbon steel, ASTM A105
  - Low temperature carbon steel, ASTM A350 LF2
  - ASTM A182 F316
  - ASTM A182 F304
  - ASTM A182 F11
  - ASTM A182 F22
- Others on request

### Pressure tapings

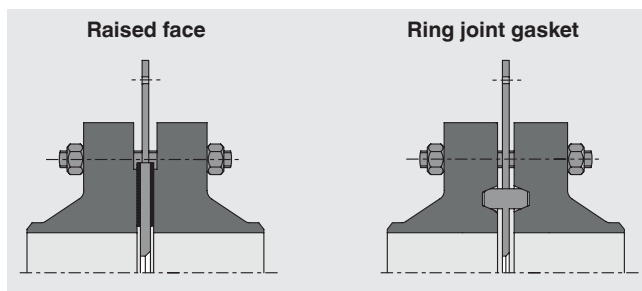
Two ½ NPT threads are provided in each flange as standard (one with a plug). Other amount and types of threads on request.



Orifice flange with orifice plate



### Sealing faces



## Dimensions and weight

Standard dimensions per ASME B16.36

DN	Class 300			Class 600			Class 900			Class 1,500		
	Weight kg	L mm	E_D mm	Weight kg	L mm	E_D mm	Weight kg	L mm	E_D mm	Weight kg	L mm	E_D mm
1"	9	171	124	9	171	124	13	171	149	13	171	149
1 ½"	13	178	155	13	178	155	18	184	178	18	184	178
2"	14	178	165	14	178	165	29	209	216	29	209	216
2 ½"	18	184	191	18	284	191	41	215	244	41	215	244
3"	21	184	210	21	184	210	34	209	241	58	241	267
4"	31	190	245	41	209	273	59	235	292	82	254	311
6"	50	206	318	82	241	356	120	285	381	186	349	394
8"	73	232	381	124	276	419	204	333	470	306	435	483
10"	100	244	445	208	314	508	291	377	546	500	517	584
12"	151	269	521	250	320	559	405	409	610	746	574	673
14"	207	294	584	-	339	603	-	434	641	-	606	749
16"	275	301	648	-	365	686	-	441	705	-	631	826
18"	341	327	711	-	377	743	-	466	787	-	663	914
20"	408	333	775	-	390	813	-	504	857	-	720	984
24"	604	345	914	-	415	940	-	593	1.041	-	822	1.168

Values approx weight (kg) and dimensions (mm) for the assembly assuming a gasket with a thickness of 1.5 mm and a plate thickness in accordance with our standard (see page 5 + 6).

