

# OPL-406

## Restriction orifice and neck flange assembly

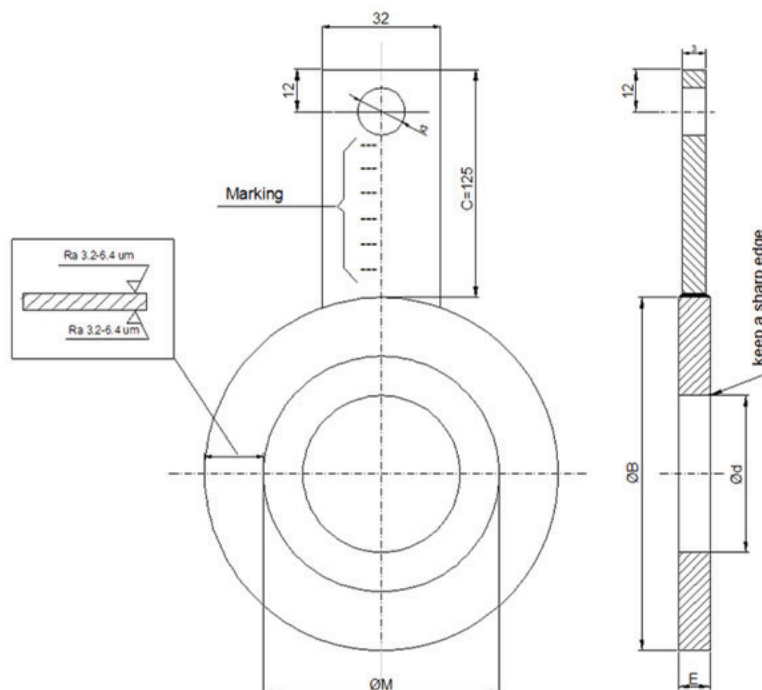
Orifice (orifice plate) restriction single- or multi-hole provides an inexpensive item for a specified pressure drop flow under varying pressure on upstream the side.

The assembly consists of:

- Restriction orifice manufactured according to Data Sheet Kat407\_EN
- Neck flanges, 2 ea
- Gaskets, 2 ea
- Mounting bolts, number according to pipe ND and rating according to PN-EN 1092-1

Dimensions of restriction orifice due to the flange standards, ASME B16.5 or BS EN 1092-1 and are described in the following table:

Note: bore diameter shall be provided by Buyer, alternatively calculation may be done by Alf-Sensor using data provided (ref to OPL\_FLOW QUESTIONNAIRE).



Dimensional data of the restriction orifice:

D – restriction orifice bore diameter

E – restriction orifice thickness

M – diameters gasket

DN, PN – nominal diameter / pressure rating according to EN-PN 1092-1 or

NPS & rating – nominal diameter / rating according to ASTM B16.5

## Ordering Information

OPL- 406	A	B	C	D	E	F	G	H	I	J		
----------	---	---	---	---	---	---	---	---	---	---	--	--

A Nominal Pipe Diameter, DN or NPS	
	according to EN-DIN
	according to ASME

B Rating / Facing	
	according to EN-DIN
	according to ASME

C Internal Pipe Diameter, D	
	specify in mm

D Bore Diameter, d	
	specify in mm*

E Restriction Orifice Thickness, E	
	specify in mm

F Restriction Orifice Material	
	specify material

G Neck Flange Material	
	specify material

H Mounting Bolt and Nut Material	
	specify material

I Gasket Material	
	specify material

J Special Requirements	
	e.g. multi-hole orifice

\* Bore diameter is calculated by Alf-Sensor on the base of FLOW QUESTIONNAIRE filled in by Buyer

### Ordering Example:

#### OPL-406-DN50-PN40/B1-52,51-5-4-1.4301-P245GH-42CrMo4-graphite/316SS-liquid

stands for: Restriction orifice, nominal pipe diameter DN150, flange PN40 / facing B1 acc. to EN 1092-1, internal pipe diameter 52,51 mm, restriction orifice bore diameter 5 mm, restriction orifice thickness 4 mm, restriction orifice material 1.4301, neck flange material P245GH, bolt material: 42CrMo4, Gasket material: graphite/SS316L, fluid state: liquid