

## Restriction Orifice Plates

Restriction Orifice Plates are the most common **element to reduce pressure within a pipeline**. It is based on proven technology, has no moving parts and is suitable for high temperature and pressure applications.

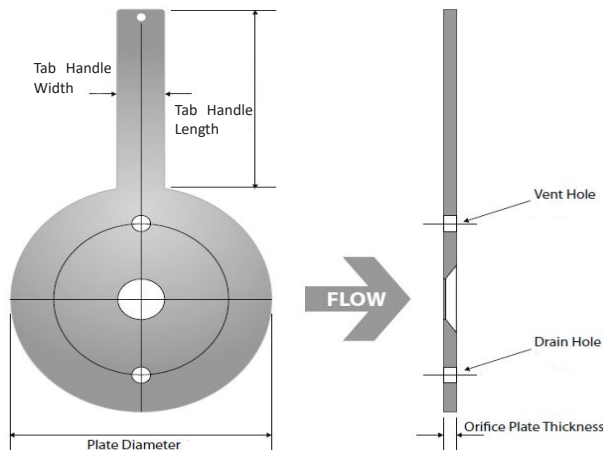
### General Specification

<b>Design:</b>	BS EN ISO 5167 (R.W. Miller)
<b>Type:</b>	Bevel, Square or Eccentric
<b>Material:</b>	Standard material grades include: 316 SS, 304 SS, 310 SS, Hastelloy® C276, Hastelloy® B3, Duplex SS, Super Duplex SS, Monel® 400, Carbon Steel, Titanium, Incoloy® 800, Incoloy® 825, Inconel® 600, Inconel® 625, Tantalum, PTFE and PVDF.

RF Orifice Plate



RTJ Orifice Plate



### Main Applications

A **world leader** in flow measurement, Rototherm has become the standard for accurate and reliable measurement across the following industries:



On/Offshore Environments



Water Treatment



Chemical & Petrochemical



Plant construction

## Ordering Information

ROP Orifice Plates	CODING EXAMPLE →	ROP	B*	SM	1	015	A	1
<b>Model</b>	Restriction Orifice Plate	ROP						
<b>Type</b> *See on Page 3	Bevel Square Eccentric (*Please note that these options will not appear in the final coding)		B* S* E*					
<b>Finish</b>	Smooth Spiral			SM SP				
<b>Material</b>	316 STAINLESS STEEL MONEL 400 HASTELLOY C DUPLEX SS PVDF PTFE TITANIUM GR 2 SUPER DUPLEX SS INCONEL 625 INCONEL 825				1 2 3 4 5 6 7 8 9 A			
<b>Line Size</b>	DN 15 / 1/2" DN 20 / 3/4" DN 25 / 1" DN 30 / 1.25" DN 40 / 1.5" DN 50 / 2" DN 65 / 2.5" DN 80 / 3" DN 100 / 4" DN 125 / 5" DN 150 / 6" DN 200 / 8" DN 250 / 10" DN 300 / 12" DN 350 / 14" DN 400 / 16" DN 450 / 18" DN 500 / 20"					015 020 025 030 040 050 065 080 100 125 150 200 250 300 350 400 450 500		
<b>Flange Rating</b>	150 LB 300 LB 400 LB 600 LB 900 LB 1500 LB 2500 LB PN 10 PN 16 PN 25 PN 40						A B C D E F G J K L M	
<b>Connection</b>	RF RTJF RTJ Oval* RTJ Octagonal* (*Please note that these options will not appear in the final coding)							1 2 3* 4*

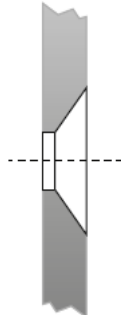


PLEASE CONTINUE CODING ON NEXT PAGE...

## Ordering Information

<b>ROP Orifice Plates</b>	<b>CODING EXAMPLE →</b>	<b>ROPSM1015A1</b>	<b>XXXXX*XXXX / XXX*XX</b>	<b>DX.X</b>	<b>XXX.XX</b>
<b>Plate &amp; Tab Handle Dimensions</b>	<i>(Information to be specified by Rototherm)</i>		XXXXX*XXXX / XXX*XX		
<b>Drain/Vent</b>	If Drain required: Start with D & specify with 1 decimal place			DX.X	
	If Vent required: Start with V & specify with 1 decimal place			VX.X	
	Not Applicable			N0.0	
	To be Advised			T0.0	
<b>Bore</b>	Specify in 5 digits (with 2 decimal place)				XXX.XX

For any other options, please contact us [sales@rototherm.co.uk](mailto:sales@rototherm.co.uk) or +44 (0)1656 740551

## Orifice Plate Types

 <p><b>Concentric Square Edge (Bevel)</b></p> <p>For general applications in clean fluids - the most widely used design. Suitable for pipes up to 1000 mm. diameter.</p>	 <p><b>Eccentric</b></p> <p>Ideal for measuring dirty fluids and 2 phase flow, preferred to segmental pipelines of diameters less than 350 mm.</p>	 <p><b>Square</b></p> <p>Sharp square edge type available with hard facing options. Suitable for pressure reduction and flow restriction.</p>
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## Quality System, Inspection & Testing

Approved 3rd party endorsed manufacturing and **weld procedures**, stringent project **quality plans** and **experienced project engineers** well versed in the high requirements.

### Testing Services:

- PMI
- Dye Penetrant Inspection
- Charpy Impact Testing
- Hardness Survey
- Independent 3rd Party Inspection



**ISO9001:2015**  
FM11958

### Standard Documentation Package:

- Bore Calculations
- GA Drawing
- Material Certificate (3.1, 3.2)
- Test Certificates (for ITP items)
- Weld Procedures
- Certificate of Conformity
- Quality Plan & ITP

## Export Documentation

- Certificate of Origin
- EUR1
- ATR

