

The Need For Every  
Process Industry

**SPINK CONTROLS**®

An ISO 9001:2015 Certified Company



## ORIFICE PLATE ASSEMBLY

**MODEL: SC / R - 800**

**FLOW**

# ORIFICE PLATE ASSEMBLY

MODEL : SC / R - 800

The Orifice Plate Assembly is designed for precise and repeatable measurement of flow rate and volumetric flow of liquids, gases, and vapours in industrial piping systems. The overall assembly design conforms to ISA RP 3.2

Orifice bore sizing and calculation are performed as per ISO 5167, BS 1042, ASME MFC-3M, R.W. Miller, AGA-3, and L.K. Spink methodologies.



## ORIFICE PLATE ASSEMBLY CONSIST OF :

### 1) ORIFICE PLATE

- Type** : Concentric Square edge, Eccentric, Segmental, Quadrant, Conical Entrance
- Line size** : 25 NB to 600 NB, higher on request
- Thickness** : 3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm – standard ; other on request
- Material** : SS304, SS 316, SS 316L, Hastalloy, Inconel, Monel, other on request
- If required** : PP, PVC, PTFE & Stellite coating
- Tag Plate** : Details on the orifice handle
- Qty.** : 1 No. for each set



## 2) ORIFICE FLANGES

<b>Type</b>	: Forged type, Weld Neck, Slip-On, Threaded, Socket Weld with RF, FF, RTJ facing
<b>Rating</b>	: 150# to 2500# higher on request, PN table, BS table
<b>Standard</b>	: ASME B 16.5 and ASME B 16.47 series A/B
<b>Material</b>	: ASTM A105 , ASTM A182 , SS316 , SS314 , MONEL
<b>Tapping</b>	: Corner tapings are recommended for sizes upto 1.5"; Flange taps from 2" to 16" ; D – D/2 taps for higher sizes.
<b>Tapping details</b>	: Orientation : 45°, 90°, 180°, other on request ; 2 – 4 no. of tapings ; type : 1/4" / 3/4" / 1/2" NPT (F) / BSP (F)
<b>If required</b>	: IBR (special temperature / steam condition)
<b>Qty.</b>	: 2 Nos. for each set



## 3) RTJ RING HOLDER

<b>Type</b>	: Octagonal ring type holder
<b>Rating</b>	: 600# to 2500#, higher on request
<b>Material</b>	: Soft iron, SS, Hastalloy, Monel, other on request
<b>Qty.</b>	: 1 No. for each set

## 4) ACCESSORIES

<b>Stud / Bolt</b>	: ASTM A193 Gr B7, other on request
<b>Nut</b>	: ASTM A193 Gr 2H, other on request
<b>Jackscrew</b>	: ASTM A193 Gr B7, other on request
<b>Gasket</b>	: Spiral Wound – SS/CS with Filler – Grafoil, Graphite, CAF, PTFE, other on request
<b>Blind Plug</b>	: Plastic, CS, SS , other on request

## 5) ADD ON'S ACCESSORIES IF REQUIRED

<b>Meter run</b>	: Depending on the Upstream & Downstream length; Material : ASTM A106, SS, other on request
<b>Valve</b>	: Isolation/ Gate/ Ball valve – SS, other on request
<b>Manifold Valve</b>	: 3 way / 5 way ; T type / H type ; Material : SS, MS
<b>Nipple</b>	: NPT, BSP – SS, CS/ MS, other on request
<b>Condensate pot</b>	: (SC/R-2200)
<b>Tubing</b>	: SS tubing, other on request
<b>DP transmitter</b>	: Honeywell make, other on request

## 6) ROUTINE TESTS IF REQUIRED

- Physical & Chemical test
- IGC Practice test
- NACE MR 0175
- PMI, NDT, DPT test
- Wet Calibration
- Other on request



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