

The Need For Every  
Process Industry

**SPINK CONTROLS**®

An ISO 9001:2015 Certified Company



## ORIFICE PLATE ASSEMBLY AND FLOW ELEMENTS

**MODEL: SC / R - 800**

**FLOW**

# ORIFICE PLATE ASSEMBLY

## MODEL : SC / R - 800



The Orifice Plate with Flange Assemblies is employed for measuring the flow rate or volume of moving fluids, including liquids, gases, and vapours. These plates are designed according to BS 1042-1981, ISO 5167, and LK Spink standards, offering reliable and accurate flow measurement.

**Orifice Plate Types:** Square Edge Concentric, Eccentric, Segmental, Quadrant Edge, Conical Entrance

**Plate Thickness:** 3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm standard; other thicknesses available on request

**Material Options:** Standard materials include SS304, SS316, SS304L, SS316L; additional options like Hastelloy C, Monel, Inconel, Polypropylene (PP), PVC, PTFE, and Stellite coatings are available

**Orifice Flanges:** Forged type Weld Neck, Slip-On, Threaded, Socket Weld with RF, FF, RTJ facing, rated from 150# to 2500#, higher ratings on request, compliant with ASME 16.36 for sizes up to 8 inches; larger sizes or male-female flanges available as per ASME B 16.5 and ASME B 16.47 series A/B

### ENGINEERING SPECIFICATION

LINE SIZE	: 15 NB to 600 NB
FLANGES	: ASTM-A-105 / A182 / SS316 / SS314 / MONEL
OPTIONAL	: IBR APPROVED FLANGES
FLANGE TYPES	: WELD NECK, SLIP-ON, SOCKET-WELD
GASKET OPTIONS	: SPIRAL WOUND, CAF, TEFLON
TAPPING TYPES	: FLANGE TAPS, CORNER TAPS
TAP SIZE	: ½" NPT (Female)
STUDS/BOLTS	: ASTM-A-193 Gr B7, other on request
NUTS	: ASTM-A-193 Gr 2H, other on request

# CONDITIONING ORIFICE PLATE

## MODEL : SC / R -900



The Conditioning Orifice Plate integrates a flow conditioner with an orifice plate, creating a precise primary element that delivers

- high accuracy in flow measurement.

Reduced Straight Pipe Requirements: Requires only 2 diameters of straight pipe run upstream and downstream from most flow disturbances, saving installation space and costs.

- Versatile Applications: Suitable for gas, liquid, and steam measurements

Available Sizes: 2" to 24"

Note: The Conditioning Orifice Plate is ideal for installations with limited straight pipe runs, ensuring performance consistency and minimizing installation constraints.

# INTERGRAL ORIFICE PLATE ASSEMBLY

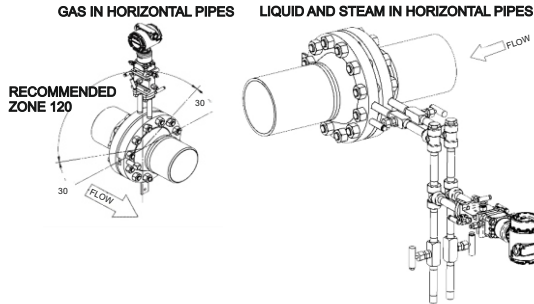
## MODEL : SC / R -1000



The Integral Orifice Plate Assembly is a precision-engineered flow measurement solution, ideal for applications requiring high accuracy at low flow rates in line sizes below 2". It is designed using the differential pressure principle, providing reliable and economical flow measurement for compact installations.

### ENGINEERING SPECIFICATION

Line Size	: 15 NB to 40 NB
Material Options	: ANSI 316, ANSI SS 304, Monel, Hastelloy C
Gasket	: PTFE
End Connections	: Socket-weld or threaded ends for compact installation
Flanges	: ASTM-A-105, A182, S 316, SS 314, Monel
Optional	: IBR Approved Flanges for specialized applications



## ORIFICE PLATE WITH CARRIER RING

## MODEL : SC / R -1100



The Orifice Plate with Carrier Ring provides reliable and stable flow measurement with an integrated ring for easy installation and support. This configuration is ideal for pipelines with fluctuating conditions and maintenance requirements.

### ENGINEERING SPECIFICATION

Applications	: For liquids, gases, and steam across larger pipelines.
Sizes	: 15 NB to 600 NB
Materials	: SS304, SS316, with options for Monel, Hastelloy C, and PTFE coating.

## RESTRICTION ORIFICE

## MODEL : SC / R -901

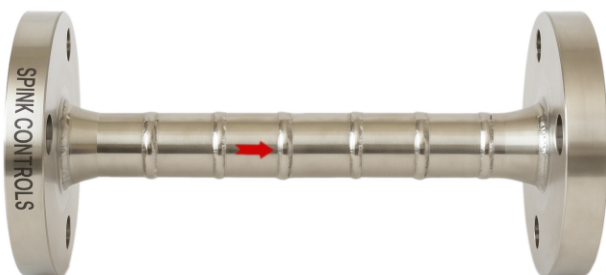


The Restriction Orifice is specifically designed for applications requiring precise pressure reduction and flow control. This orifice design reduces pressure gradually in multiple stages, which is essential for handling high-pressure fluids and gases while minimizing noise and preventing cavitation.

Key Features: Multistage pressure reduction to prevent cavitation and minimize noise.

### ENGINEERING SPECIFICATION

Applications	: Suitable for high-pressure fluid, gas, and steam systems.
Size	: 15 NB to 600 NB (custom sizes available).
Materials	: SS304, SS316, Monel, Hastelloy C, with PTFE coating options.
Flange Ratings	: 150# to 2500# (higher ratings on request).
Standards	: Meets international performance and reliability standards.





SPINK CONTROLS®	
Head Office	Plant
303, SIDDHARTH TOWER, G.P. PAI ROAD, KOPRI, THANE(E) - 400 603 MAHARASHTRA, INDIA Fax : +91 22 2532 4845 Phone : +91 22 2532 8223 +91 22 2532 8224 Email : info@spinkcontrolsindia.com	GALA No. F-4 A WING, UDYOG BHAVAN-2 ADDITIONAL AMBERNATH, INDUSTRIAL AREA, ANAND NAGAR MIDC AMBERNATH, Dist - THANE 421501 Phone : +91 9594991196 Email : rupa.thakkar@spinkcontrols.com

