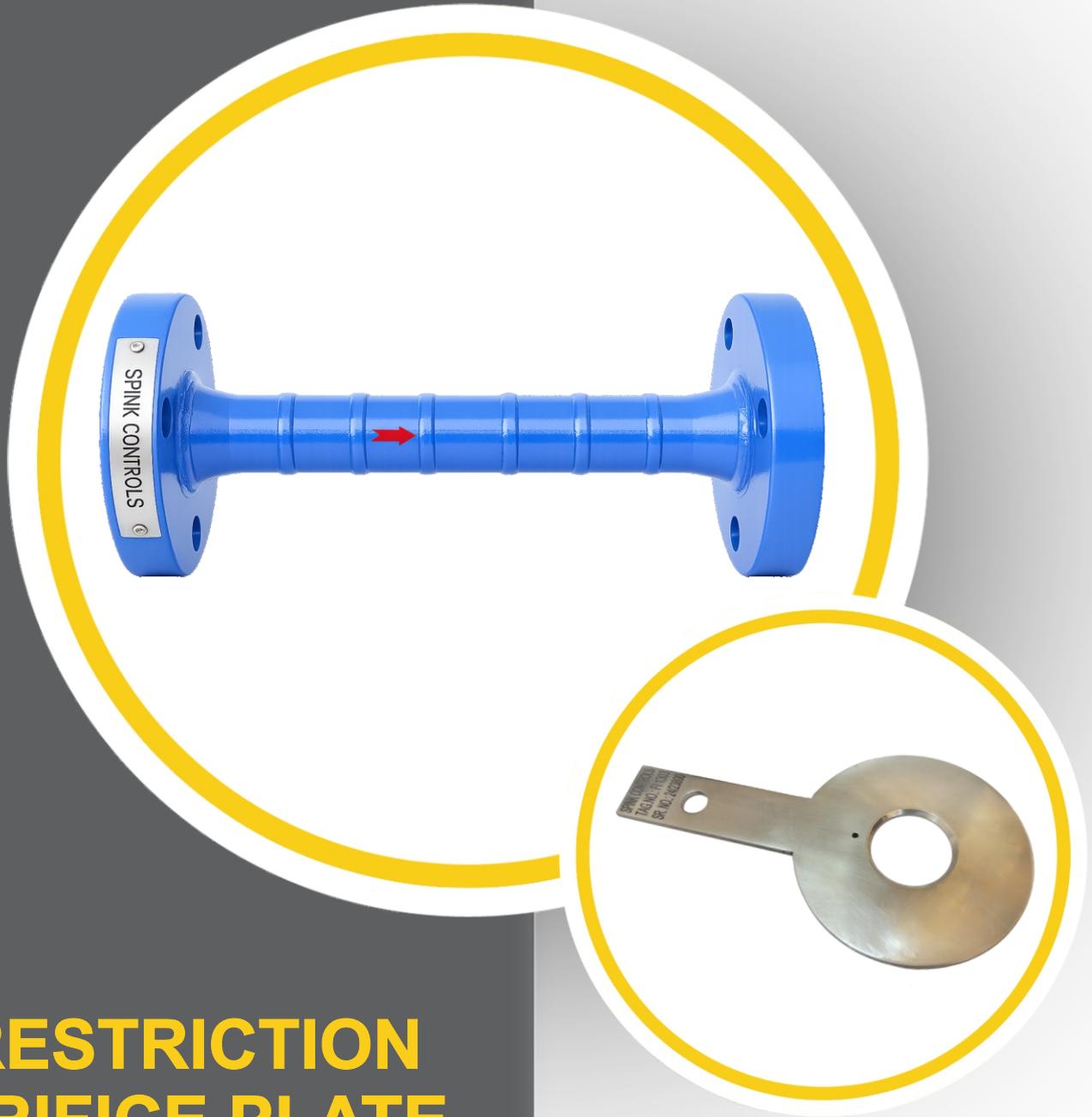


The Need For Every  
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## RESTRICTION ORIFICE PLATE

**MODEL: SC / R - 901**

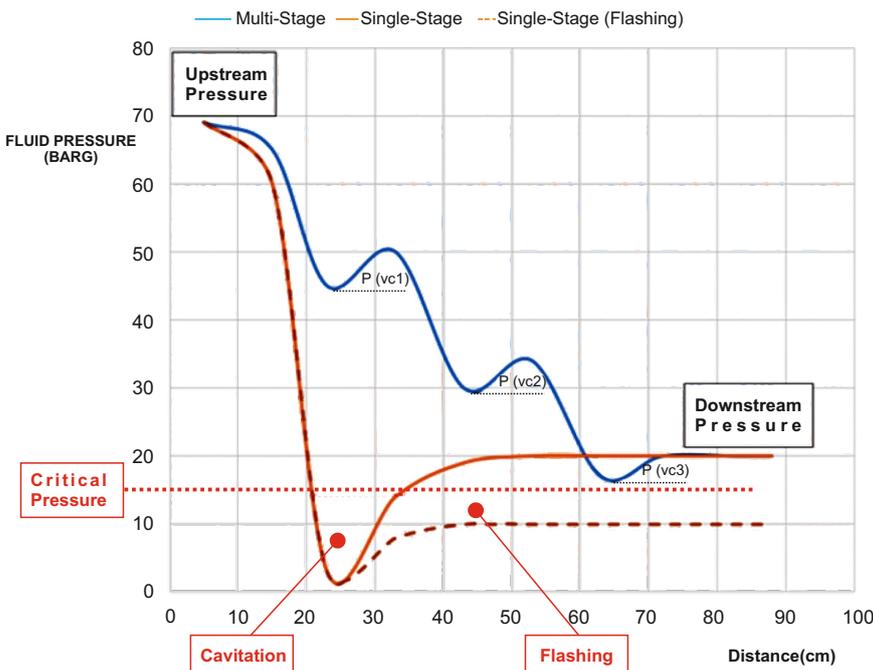
**FLOW**

# RESTRICTION ORIFICE PLATE

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 single or multiple stages, which is essential for handling high-pressure fluids and gases while minimizing noise and preventing cavitation.

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. Final sizing and selection are carried out in compliance with EIL standards to ensure accuracy and reliability in service.



If a significant pressure drop must be achieved, a multi-stage restriction orifice may be necessary :

The illustration beside , the use of a multi-stage restriction orifice eliminates the risk of cavitation, critical flow and flashing, which can damage metal components.

## RESTRICTION ORIFICE PLATE CONSIST OF :

### SINGLE STAGE

#### 1) ORIFICE PLATE

<b>Type</b>	: Concentric Square edge, Eccentric, Segmental, Quadrant, Conical Entrance
<b>Line size</b>	: 15 NB to 1200 NB, higher on request
<b>Orifice bore</b>	: Single or higher on request
<b>Thickness</b>	: 3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm – standard ; other on request
<b>Material</b>	: SS304, SS 316, SS 316L, Hastolloy, Inconel, Monel, other on request
<b>Rating</b>	: 150# - 2500#, higher on request
<b>Type</b>	: RF / RTJ
<b>If required</b>	: PP, PVC, PTFE & Stellite coating
<b>Tag Plate</b>	: Details on the orifice handle
<b>Qty</b>	: 1 No. for each set



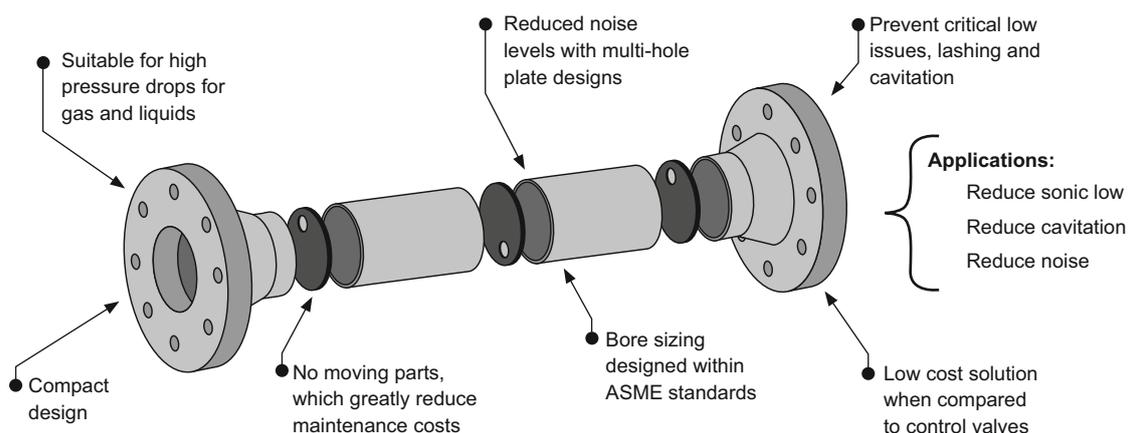
#### 2) RTJ RING HOLDER IF REQUIRED

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

### MULTIPLE STAGE

#### 1) ORIFICE PLATE

<b>Type</b>	: Eccentric, other on request
<b>Line size</b>	: 15 NB to 1200 NB, higher on request
<b>Thickness</b>	: 3.18 mm, 6.35 mm, 9.52 mm, 12.7 mm – standard ; other on request
<b>Orifice bore</b>	: Single or higher on request
<b>Material</b>	: SS304, SS316, SS 316L, Hastolloy, Inconel, Monel, other on request
<b>Rating</b>	: 150# - 2500#, higher on request
<b>Type</b>	: RF / RTJ
<b>If required</b>	: PP, PVC, PTFE & Stellite coating
<b>Mounting</b>	: Plates mounted in series – spacing between plates from 1D to 5D optimized for each device



## 2) PROCESS CONNECTION

In case of flange,

<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>Material</b>	: SS304, SS316, SS 316L, Hastolloy, Inconel, Monel, other on request
<b>If required</b>	: IBR (special temperature / steam condition)
<b>Others Type</b>	: SORF, WNRF Flange, Butt weld, Socket weld, threaded, other on request
<b>Material</b>	: ASTM A105, ASTM A182 SS316, SS304, other on request

---

## 3) METER RUN

<b>Length</b>	: Depending on the Pipe ID (D) & no. of stages
<b>Material</b>	: ASTM A106, SS, Hastolloy, Monel , other on request

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## 4) 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, Hastolloy, Monel, other on request
<b>Material</b>	: 1 No. for each set

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## ROUTINE TESTS IF REQUIRED

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



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 Phone : +91 9594991196  
 Email : rupa.thakkar@spinkcontrols.com

### Plant 2

PLOT No.: MS 114/115, AMBERNATH INDUSTRIAL AREA, CHIKHLOLI MIDC, AMBERNATH (W) THANE 421501  
 Phone : +91 7400159593  
 Email : avanti.rangdal@spinkcontrols.com

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