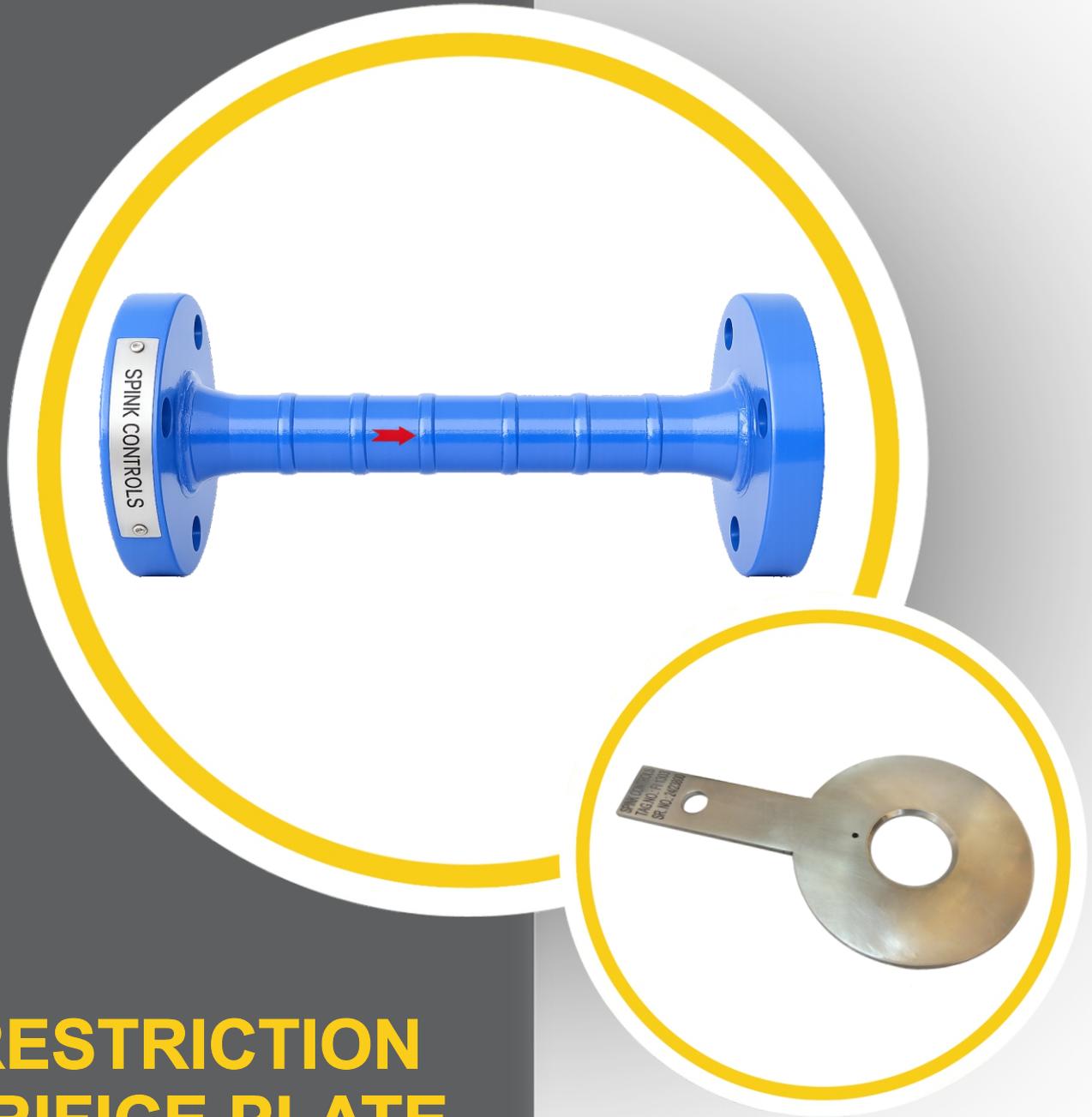


The Need For Every
Process Industry

SPINK CONTROLS®

An ISO 9001:2015 Certified Company



RESTRICTION ORIFICE PLATE

MODEL: SC / R - 901

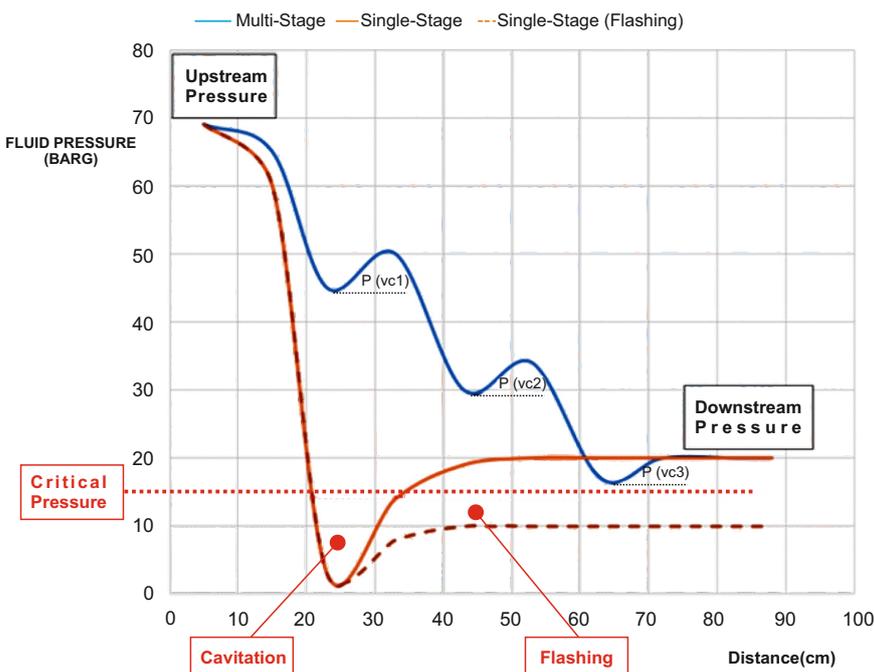
FLOW

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

Type	: Concentric Square edge, Eccentric, Segmental, Quadrant, Conical Entrance
Line size	: 15 NB to 1200 NB, higher on request
Orifice bore	: Single or 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, Hastolloy, Inconel, Monel, other on request
Rating	: 150# - 2500#, higher on request
Type	: RF / RTJ
If required	: PP, PVC, PTFE & Stellite coating
Tag Plate	: Details on the orifice handle
Qty	: 1 No. for each set



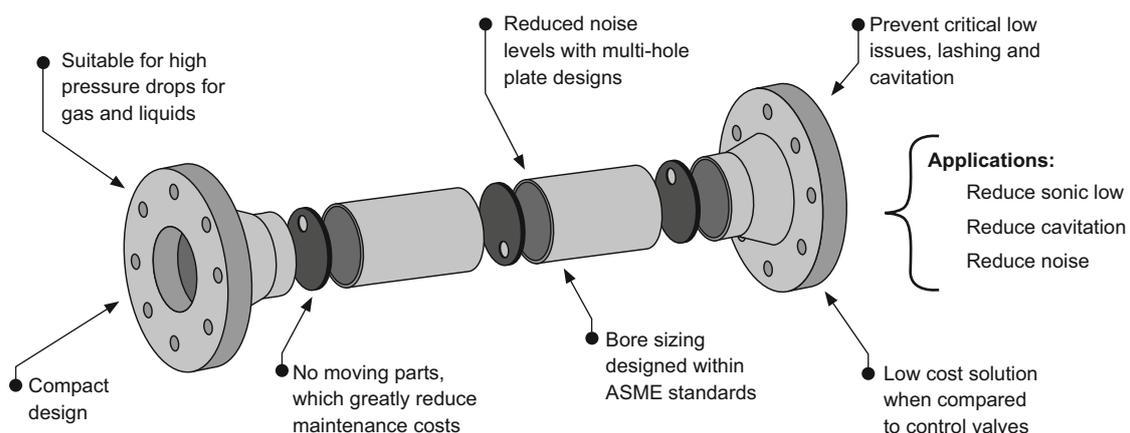
2) RTJ RING HOLDER IF REQUIRED

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

MULTIPLE STAGE

1) ORIFICE PLATE

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



2) PROCESS CONNECTION

In case of flange,

Type	: Forged type, Weld Neck, Slip-On, Threaded, Socket Weld with RF, FF, RTJ facing
Rating	: 150# to 2500# higher on request, PN table, BS table
Standard	: ASME B 16.5 and ASME B 16.47 series A/B
Material	: ASTM A105, ASTM A182, SS316, SS314, MONEL
Material	: SS304, SS316, SS 316L, Hastolloy, Inconel, Monel, other on request
If required	: IBR (special temperature / steam condition)
Others Type	: SORF, WNRF Flange, Butt weld, Socket weld, threaded, other on request
Material	: ASTM A105, ASTM A182 SS316, SS304, other on request

3) METER RUN

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

4) RTJ RING HOLDER

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

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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Plant 1

GALA No. F-4 A WING, UDYOG BHAVAN-2
ADDITIONAL AMBERNATH, INDUSTRIAL
AREA, ANAND NAGAR MIDC AMBERNATH,
THANE 421501

Plant 2

PLOT No.: MS 114/115, AMBERNATH
INDUSTRIAL AREA, CHIKHLOLI MIDC,
AMBERNATH (W) THANE 421501

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