Multi-Stage Restriction Orifice

Designed to reduce the pressure or flow in a process

Mac-Weld multi-stage restriction orifice is the perfect solution when the required pressure or flow drop is not possible with a single plate.

Made up of multiple orifice plates, each reducing pressure with calculated reduction steps to achieve the required drop in the pressure and/or flow. A restriction orifice run can also greatly reduce noise and vibrations, as well as flashing or cavitation in the line. Our multi-stage restriction orifice assembly can replace a valve for a simple, maintenance free and economical solution.

Design Advantages:
- Reduce the pressure drop, not achievable with a single plate.
- Prevents flashing, cavitation and other critical flow problems.
- Single hole multistage design along with multi-hole, multi-stage designs available.
- Line sizes: 1/2" - 24". Flange Rating: 150# - 2500#
- Built to optimize the pressure drop across each stage
- Suitable for both high flow/pressure liquids and gas
- Designed based on ASME.MFC.3M industry standards
- Low maintenance costs

4 internal plates with concentric edge bores, reducing a total of 80% pipe diameter
MULTI-STAGE RESTRICTION ORIFICE

Recognized globally for our quality, service and the ability to deliver!

www.mac-weld.com

1-877-MAC-WELD (622-9353)
sales@mac-weld.com

1324 Lougar Ave Sarnia, ON  N7S 5N7

Applications:
- Pressure controlling
- Flow controlling
- Reduce sonic flow
- Reduce cavitation
- Reduce noise

- Suitable for high flow and high pressure drops for gas and liquids
- Reduced noise levels with multi-hole plate designs
- Compact design when compared to control valves
- No moving parts, which greatly reduce maintenance costs
- Designed within ASME standards
- Low cost solution when compared to control valves
- Prevent critical flow issues, flashing and cavitation

1. Flange
2. Pipe
3. Orifice Plate - Custom Bore
4. Orifice Plate - Custom Bore
5. Orifice Plate with Vent - Custom Bore
6. Orifice Plate with Vent - Custom Bore

DETAIL B (TYP.x4)