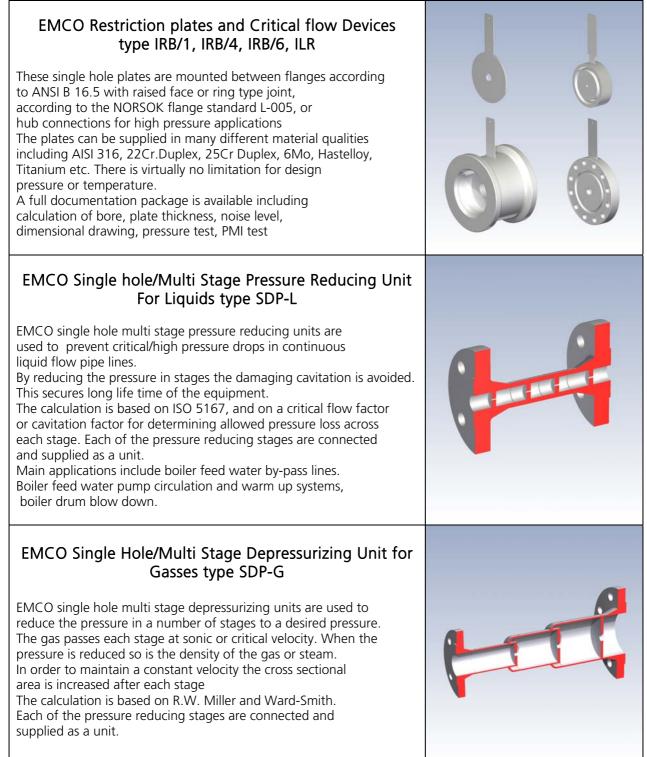
PmcoControls

CONSTRUCTION AND DESIGN OF INSTRUMENTS FOR FLOW, LEVEL AND TEMPERATURE



EMCO Restriction Plates, Critical Flow Devices, Depressurizing Units



0-07-028-0e

EMCO Multi Hole Restriction Plates and Multi Hole Critical Flow Devices type MRP/1, MRP/4, MILR, MROy

EMCO multi hole restriction plates are used to restrict the flow at high differential pressures and to reduce the sound pressure noise level.

The plates can be calculated according to ISO 5167 as thin restriction orifice plates, or thick plates according to R.W. Miller/Ward-Smith. Noise level is calculated according to EN 60534-8-3, -8-4. In applications with high flow rates, standard flat restriction plates do not have sufficient area to accommodate the large number of holes required.

The conical shape of the restriction plate has a larger area compared to the flat plate.

EMCO multi hole restriction plate series MROy can accommodate a larger number of holes.

EMCO Multi Hole/Multi Stage Pressure Reducing Unit for Liquid type MDP-L

EMCO multi hole multi stage pressure reducing units are used to prevent critical/high pressure drops in continuous liquid flow pipe lines.

By reducing the pressure in stages using multi hole plates the damaging cavitation is avoided. Multi hole plates can handle higher pressure drops than single hole plates.

The multi stage design is based on the constant cavitation factor principle.

Main applications are similar to the unit type SDP-L but is capable to handle differential pressures at lower noise levels.

EMCO Multi Hole/Multi Stage Pressure Reducing Unit for Gasses type MDP-G

EMCO multi hole multi stage depressurizing units are used to reduce the pressure in a number of stages to a desired pressure and to secure as low noise development as possible. The gas passes each stage at sonic or critical velocity or at a lower velocity depending on the requirement. When the pressure is reduced the density of the gas or steam is also reduced. Higher velocity results in higher noise level. Therefore the design of the unit secures that the velocity through the

stages of pressure reduction does not increase. In order to maintain a constant velocity, the cross sectional area is

In order to maintain a constant velocity, the cross sectional area is increased after each stage.



