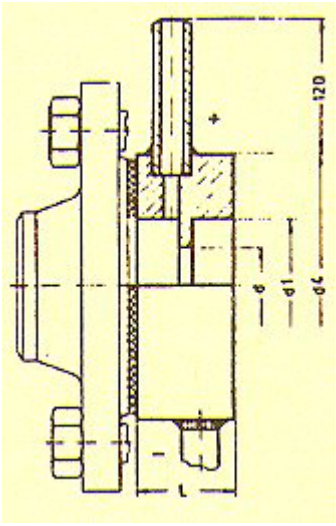
BLB 300 Orifice Plate with Carrier Ring
Single Bore Pressure Taps

Construction



Carrier-ring with single bore acc. to DIN 19205 And fixed orifice plate. This can be supplied as an orifice (ISO 5167), a cylindrical orifice, quarter circle nozzle or as a segmental orifice, double coned orifice, according to requirements. The orifice plate welded or screwed into the carrier-ring or the orifice can be machined as a single piece. When mild steel is used, the bore is reinforced with stainless steel. When unusual materials are specified, the orifice plate is screwed onto the carrier ring.

Benefits

A compact and economical construction, with a limited installed length. The orifice plate is easy to clean and thus suitable for media that solidify or form deposits, or for a plan that is not in constant use.

Technical Details

Nominal pressure:	PN 6 to PN 160 (PN 150 lbs to 1500(2500) lbs
Nominal diameter:	DN 50 (2”) to DN 1600 (64”) to PN 16 (150 lbs) DN 50 (2”) to DN 500 (20”) to PN 40 (900 lbs) DN 50 (2”) to DN 350 (14”) to PN 160 (1500 lbs) DN 50 (2”) to DN 250 (10”) to PN 320 (2500 lbs)
Outer diameter:	The outer diameter of the carrier-ring (with smooth sealing surface) can be calculated by the bolt bore diam. subtracting the bolt diam. of the pipe flanges. Tongue/groove : d4 = the outer diameter of the face + 10mm; Ring seal + 1 6mm
Installation length:	25mm, 40 mm, 65mm, other lengths are possible.
Bore-diameter:	the calculation of this will made by us from the data supplied, considering the relevant standards and regulations.
Pressure loss:	The remaining pressure loss = d2 : D2 and lies between 30-80% of the different pressure, it is given in the data sheet.

Pressure taps:	The form and arrangemernt is described in sheets A6; if required, more than two pressure taps can be supplied.
Installation:	Between flanges on horizontal, vertical or diagonal pipelines. Flanges, screws and seals are not normally supplied with the orifice, but can be ordered extra.
Sealing face type:	RF/SF/LT/ST/LG/SG/RTJ

Materials

The table below gives the usual materials for carrier-rings and orifice-plates. They are chosen according to the medium, pressure and temperature. The temperatures given below are guidelines. Particular attention should be paid to the choice of materials for aggressive media. The tables for orifice plate below are only valid if they are welded or screwed into the carrier-rings.

Accessories

Shut-off valves, condense pots and chambers, and manifolds acc. various type sheets. Flanges and seals as well are not provided as standard delivery with the orifice, but can be ordered separately.

CARRIER RINGS				ORIFICE PLATE			
Category	Abbreviation	W-No.	Applicat.	Category	Abbreviation	W-No.	Applicat.
Common mild steel EN 10025/ EN10028T2	St 37-2 H II	1.0114 1.0425	-10/+350°C -10/+390°C	Stainless steel EN10222-5	X6CrNiTi1810 X6CrNiMoTi17122	1.4541 1.4571	-190/+300°C -60/+400°C
				Heat resistent steel	X10CrAl7	1.4713	max. 900°C
Carbon steel	C22.8	1.0460	-10/+490°C	Corrosion resistent alloys	Hastelloy C	2.4602	max. 400°C
Heat resistant steel	15Mo3 13CrMo44	1.5415 1.7335	to 530°C to 560°C		Titanium Monel Tantal	3.7035 2.4360 Ta	max. 300°C max. 400°C -200/+1800°C
Stainless steel EN10222-5	X6CrNiTi1810 X6CrNiMoTi17122	1.4541 1.4571	-190/+300°C -60/+400°C	PRESSURE TAPS			
				Category	Abbreviation	W-No.	Applicat.
Plastics	PVC PP PE PTFE PVDF		max. 70°C max. 90°C max. 80°C max. 150°C max. 130°C	Seaml.precision steel tube	St 35	1.0308	-10/+300°C
				Seamless boiler tube DIN17175	St35.8 15Mo3 13CrMo44	1.0305 1.5415 1.7335	max. 500°C to 530°C to 560°C
				Stainl. steel EN10222-5	X6CrNiTi1810 X6CrNiMoTi17122	1.4541 1.4571	-190/+300°C -60/+400°C