

RO

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Project 2131. BINAK

Thick Restriction Orifice Plate - Liquid Flow

Tag number RO-2131

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Input data

Fluid	liquid
Normal liquid flow	10000 kg/h
Flow temperature	60 degC
Meter inlet pressure	18.1 barg
Vapor pressure	.0001 bara
Specific gravity @ FTP	.829
Viscosity @ FTP	.443 cp
Pipe inside diameter	2 in
Element material	301 stainless steel
Pipe material	Carbon steel

Output data

Orifice diameter	.32894 in
Beta ratio	.16447
Reynolds number	157144
Max pressure loss	18.1 bar
Max power loss	8.168 hp
Minimum plate thickness	1.974 in
Flow Status	Cavitation

Modified mass English, basic calculation, calculate size

Source - The Flow Measurement Engineering Handbook. Third Edition. Table 13.13

InstruCalc Ver.9.0.3.

Notes