

RO-SIZING

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Project . BINAK

Thick Restriction Orifice Plate - Liquid Flow

Tag number RO-2131

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Input data

Fluid	LIQUID
Normal liquid flow	600 kg/h
Flow temperature	59.88 degC
Meter inlet pressure	18.1 barg
Vapor pressure	.00001 bara
Specific gravity @ FTP	.982
Viscosity @ FTP	.495 cp
Pipe inside diameter	2 in
Element material	301 stainless steel
Pipe material	Carbon steel

Output data

Orifice diameter	1.96208 mm
Beta ratio	.0386235
Reynolds number	8438
Max pressure loss	18.1 bar
Max power loss	.4137 hp
Minimum plate thickness	11.77 mm
Flow Status	Cavitation

Modified mass English

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

InstruCalc Ver.9.0.3.

Notes