

## RO-SIZING

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Project . BINAK

### Restriction Orifice Plate - Liquid Flow

Tag number RO-2144

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#### Input data

Fluid	LIQUID
Normal liquid flow	600 kg/h
Flow temperature	60 degC
Meter inlet pressure	53.9 barg
Discharge pressure	0 barg
Vapor pressure	.000001 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	1.85905 mm
Beta ratio	.0365953
Reynolds number	8438
Max pressure loss	53.9 bar
Max power loss	1.232 hp
Minimum plate thickness	.3364 mm
Flow Status	Cavitation

Modified mass English

Source - The Flow Measurement Engineering Handbook. Third Edition.

InstruCalc Ver.9.0.3.

Notes