

## RSD Desuperheater



### Application

RSD desuperheater has a ring design. It is suitable for reduction of the temperature when steam undergoes moderate load changes.

### Description

RSD desuperheater basically consists of hydraulic fine atomizing nozzles. It injects amount of water into a steam flow to lower the temperature of the steam. Highly efficient nozzles spray water at the outlet of the convergent pipe purposely profiled to accelerate the steam to be cooled and initialize its turbulent flow. Both increase rangeability of the desuperheater—RSD handles applications requiring load changes up to 20:1. Maintenance-free desuperheater has not any moving or quick wearing parts, but it does need the injection valve to control the coolant's flow. As a rule, it is assembled between two flanges of the steam pipeline. There is variant with welded connections.

### Technical data

		steam pipeline		pipeline of injected water	
Nominal diameter		DN25÷DN250		DN15÷DN40	
Nominal pressure		PN10÷PN400		PN25÷PN400	
Connections		between bolted flanges; welding ready		bolted flanges; welding ready	
Flow coefficient Kvs		≥ 0,08 m³/h			
Body	1.0460 (P250GH)	1.7335 (13CrMo4-5)	1.7715 (14MoV6-3)	1.4901 (X10CrWMoVNb9-2)	
	1.5415 (16Mo3)	1.7380 (10CrMo9-10)	1.4903 (X10CrMoVNb9-1)		
Injection nozzles	1.4305 (X8CrNiS18-9)				
Rangeability		20:1			



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