

Steam-converting Valve (series DU) and Cooling Water Valve (series BK)

Application

Steam-converting valve for power stations and industrial plants combined with a cooling water valve in one unit

Inlet	DN 40 to 500	• NPS 1½ to 20
	PN 16 to 630	• Class 150 to 2500
Outlet	DN 80 to 1600	• NPS 3 to 64
	PN 16 to 250	• Class 150 to 1500
Temperatures	Up to 560 °C	• Up to 1040 °F

Steam-converting valve with

- Pneumatic Actuator

Valve body made of

- Forged steel C22.8, A105
- Heat-resisting forged steel 16Mo13, 13CrMo44, 10CrMo910, A182 F2, A182 F12, A182 F22

Special features

- Perforated plug with controlled pressure reduction in two stages
- One or more attenuation plates providing uncontrolled pressure reduction
- Integrated atomizer unit
- Welding ends
- Angle-style body permits vertical stem orientation
- Balanced or unbalanced perforated plug

Version

- **Standard version** · Angle valve body with welding ends for steam temperatures up to 560 °C (1040 °F)
- Nominal **inlet** size DN 40 to 500 (NPS 1½ to 20), nominal pressure PN 16 to 630 (Class 150 to 2500)
- Nominal **outlet** size DN 80 to 1600 (NPS 3 to 64), nominal pressure PN 16 to 250 (Class 150 to 1500)

Further versions

- Flanges
- Electric actuators
- Hydraulic actuators
- Globe-style body (see Fig. 4 and Fig. 5)

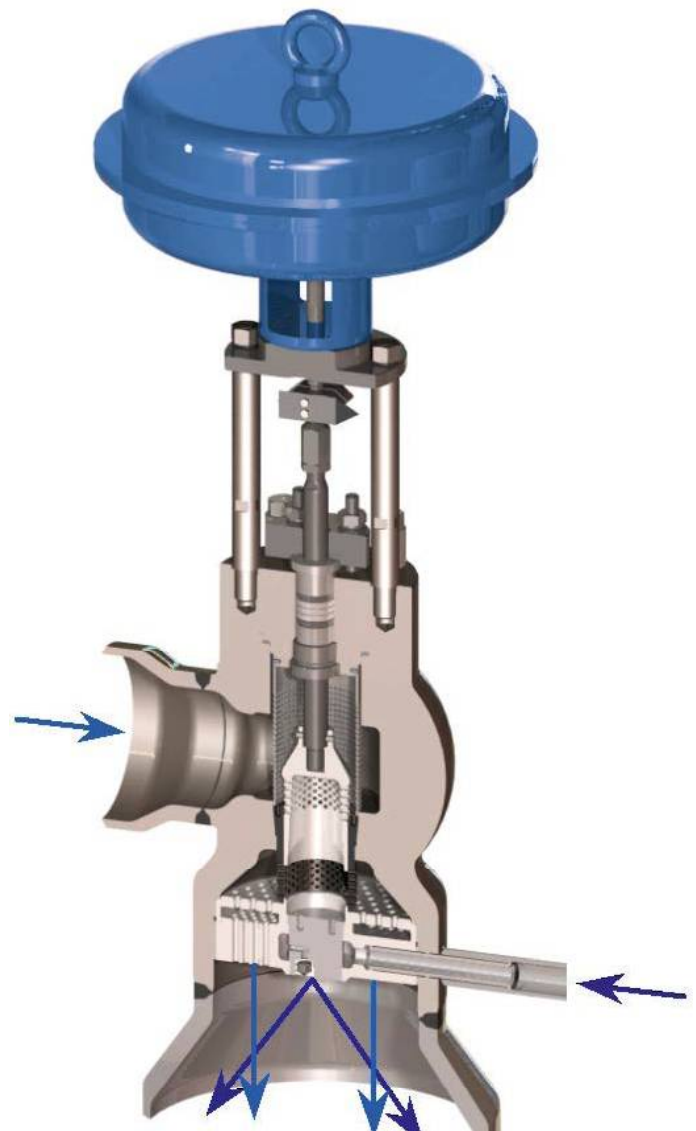


Fig. 1: Type DUP Steam-converting Valve

Further versions

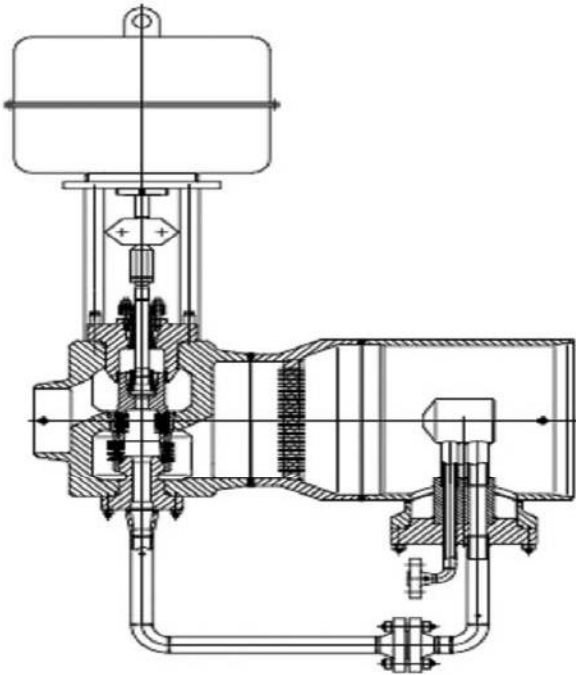


Fig. 4: Steam-converting valve (globe-style body)

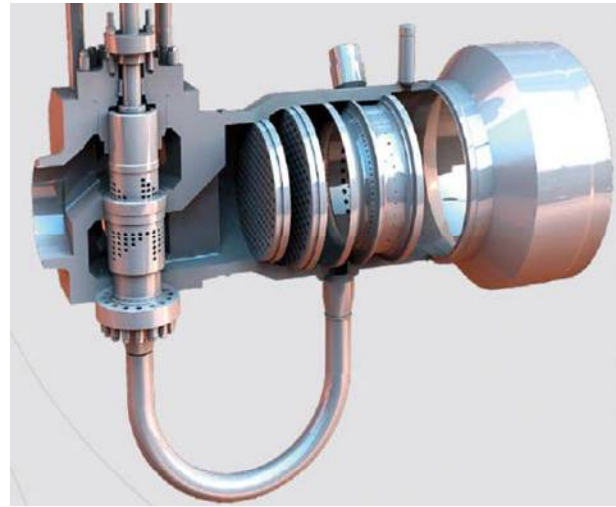


Fig. 5: Steam-converting valve (globe-style body) with injection of large quantities of water

Cooling water valve, series BK

Application

Regulation of the flow rate of cooling water for the Type DUP Steam-converting Valve

Valve size

DN 15 to 80

NPS ½ to 3

Pressure rating

PN 25 to 400

Class 150 to 2500

Medium temperature

Up to 220 °C - Up to 430 °F

Globe valve with

- Pneumatic Actuator

Valve body made of

- Forged steel C22.8/ A105
- Heat-resisting forged steel 16Mo3/A182 F2

Versions

Standard version · Globe valve with welding ends, controlled pressure reduction in one to four stages, PTFE/graphite packing, equal percentage characteristic

Further versions

- Body with flanges
- Angle-style body
- Medium temperatures above 220 °C on request
- Linear or modified linear characteristic
- Electric actuators
- Hydraulic actuators

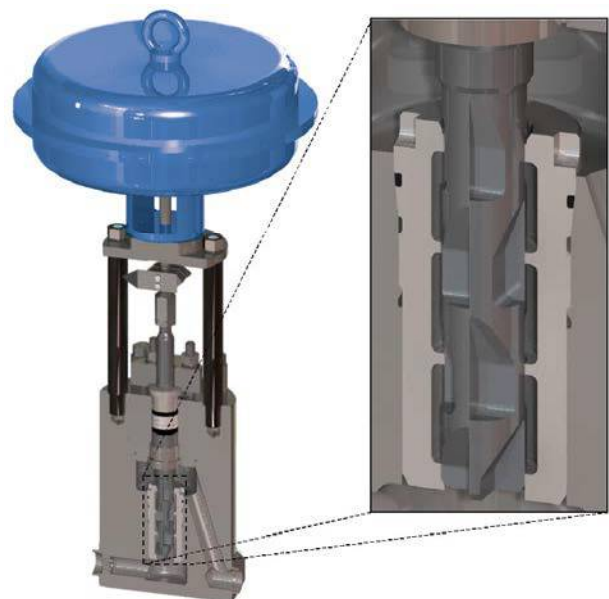


Fig. 6: Cooling water valve with four-stage controlled pressure reduction

Note:

- The cooling water valve belonging to the steam-converting valve is part of the steam converter unit.
- The cooling water valve is sized taking all load cases of the station into account. If the cooling water valve is ordered separately, we cannot guarantee proper temperature regulation of the steam-converting valve.