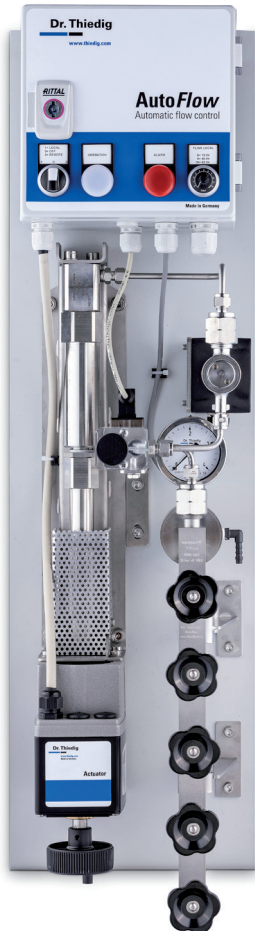


HIGH-PRESSURE VALVES

Made in Germany

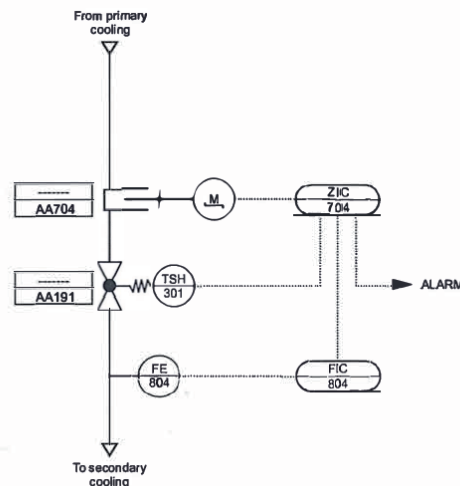
AutoFlow

Automatic flow control for sampling systems



Steam and Water Analysing Systems (SWAS) in power plants and process steam generators are state-of-the-art today. Monitoring a variety of parameters in the water-steam cycle allows operators to optimise water chemistry to protect expensive investments, such as steam turbines, from corrosion.

In power plants with frequent load changes and fluctuating pressures, technicians usually need to manually adjust the sample flow using a pressure-reducing valve. Dr. Thiedig's **AutoFlow** enables operators to automatically maintain a constant flow rate with changing pressures. The **AutoFlow** is the prerequisite for the automation of new or existing sampling systems. At a process pressure of up to 400 bar, the flow rate can be kept constant at an adjusted target value between 15 and 65 l/h.



AutoFlow

TECHNICAL FEATURES

- Quick response during start-up and commissioning, completely pre-assembled
- Inbuilt intelligence with flow control, status indication and alarm
- Tailor-made solutions for high and low pressure sample lines
- Display of the sample flow (optional)
- Automatic operation or remote control (optional)
- Integrated alarm of thermal shut-off valve for safe operation



TECHNICAL DATA AND ORDER NUMBERS

HIGH-PRESSURE VALVES

AutoFlow

Model	AutoFlow
Design	Capillary valve with drive and flow controller
Sample pressure limit	400 bar@ sample inlet
Inlet pressure / sample flow range limits	<20 bar g 15 ... 65 l/h 20 ... 200 bar g 15 ... 65 l/h >200 bar g 25 ... 75 l/h
Flow set point	Adjustable within the range limits
Sample flow control limit	Setpoint \pm 2 l/h
Sample temperature limit	0 ... 150 °C
Ambient temperature limits	5 ... 60 °C
Drive speed	1s/90°
Torque	5 Nm
Power supply	24 VDC
Power consumption	<30 VA
Digital output	1 x relay contact, max. 2A @ 30VDC (Alarm to DCS)
Certificates	RFI/EMI EN 61326-1 LVD EN 61010-1 CE
Enclosure	IP65
Weight	5 Kg
Dimensions	Standard mounting plate 850 x 240 x 230 mm (HxWxD)

Code	Sample pressure range
01	<20 bar g
02	20 ... 200 bar g
03	>200 bar g
Code	Remote flow adjustment
00	None
01	4 ... 20 mA (10 ... 100 l/h)

Code	Analogue signal flow rate
00	None
01	4 ... 20 mA (10 ... 100 l/h)
Code	Local display flow rate
00	None
01	Local display flow rate

Dr. Thiedig

Subject to technical alterations.

Sampling & Analysing Systems

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