

# SR/SA

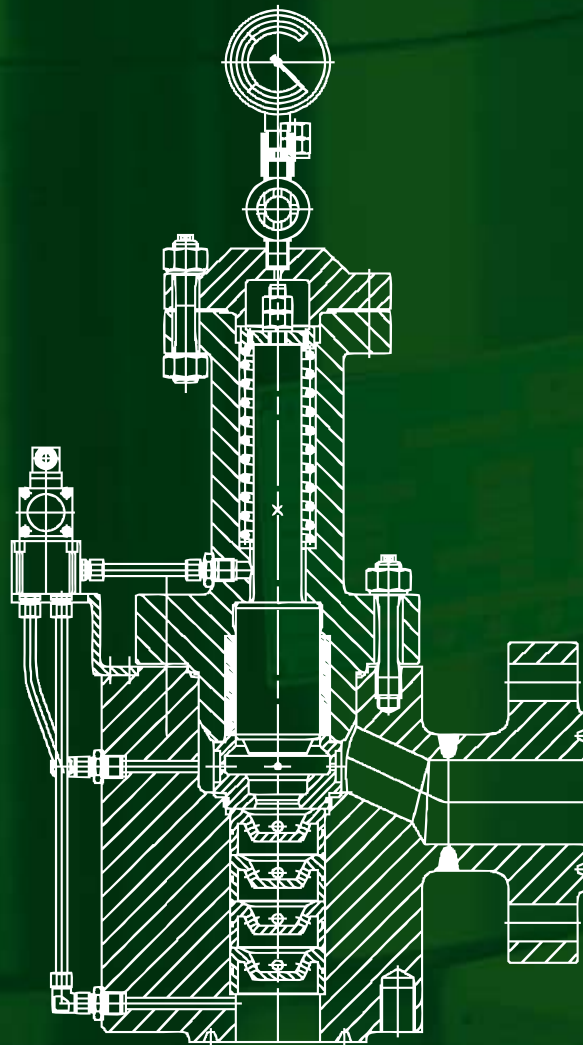
High Pressure Control Valve



look at info  
overview



PN 100-PN 640  
ANSI 600-2500



# SR/SA

### Schroeder Flow Control Valve

#### Range of application

The SR/SA-type is a High-Pressure control valve for liquids. It is designed for simple "ON-/OFF"-regulation (SA-type) as well as for challenging flow control (SR-type). Mainly it's utilised for the following applications:

#### Power engineering

- feed water control
- injection systems

#### Chemical plant engineering

- process control

#### pump protection

- minimum flow control

In case of pump protection the SR/SA-type is highly associated with modern process control and monitoring systems, as the minimum flow can be precisely adjusted to customers resp. plant requirements. With the check back signal of the positioner (or other available sensors) the valve can be usefully integrated in every process control/monitoring system. In that way the SR/SA-valve enlarges the Schroeder portfolio to control valves and allows pump users to lower their energy and maintenance costs.

#### Design datas and limits

Referring to the increasing pressure/temperature level especially in the field of electrical power engineering the valves are designed for pressures up to  $p_A = 600 \text{ bar}/8700 \text{ psi}$  and temperatures of  $T_A = 400 \text{ }^\circ\text{C}/750 \text{ }^\circ\text{F}$ . With up to 10 controlled throttling stages pressure drops around  $\Delta p = 600 \text{ bar}/8700 \text{ psi}$  can be handled troublefree.

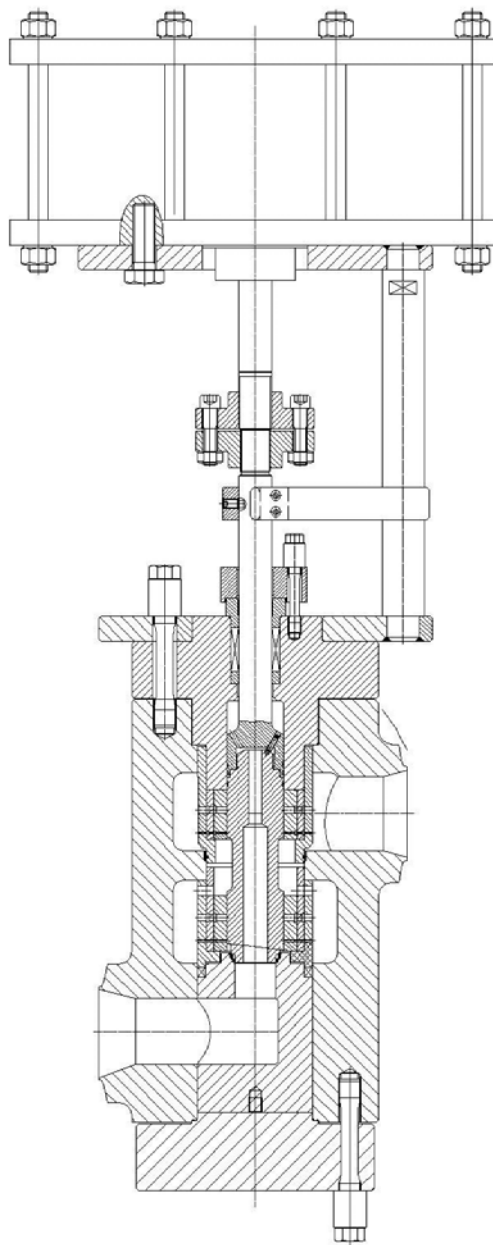


Figure 1: SR-type prepared for mounting of linear thrust actuators

The valve is available with flanges acc. to DIN and ASME or welding ends in a standard range of DN25-DN150/NPS 1"-NPS 6". Other nominal sizes are possible on request.

The following valve characteristics are available: linear, square, equal percentage and "ON/OFF". Valves can be equipped with all common types of actuators (electrically, pneumatically, hydraulically actuated). Valves with "ON/OFF"-regulation can also be delivered self actuated, i.e. without external power supply and controlled by solenoid valve (figure 2).

Technical datas overview	
Max. Design:	600 bar/400 °C
Pressure drop:	$\Delta p \text{ max} \leq 600 \text{ bar}$
Nominal sizes:	DN25-DN150 (> other sizes on request)
Connection end:	welding ends or flanges
Characteristics:	"ON/OFF", linear, square, equal-%
Actuators:	electric, pneumatic, hydraulic self operated
Body style:	Angle- or Z-type
Body materials:	carbon steel DIN EN 10222-2 stainless steel DIN EN 10222-5 duplex steel DIN EN 10222-5
Inner Parts:	chrome steel
Gaskets:	metal to metal ceiling
· Body	T $\leq$ 160° O-Ring,
· Inner gaskets	PTFE-pressure sleeve T > 160° Graphit

Depending on the medium, the valve body is made of ferritic, austenitic or austenitic-ferritic (duplex) steel.

### Design

The design is according to specification AD 2000 and particularly to EN 13445. As per Pressure Equipment Directive 97/23 EG the valves are provided with the CE marking and the Declaration of Conformity. Certified according to the Module H1 (Pressure Equipment Directive 97/23 EG) all dangerous material classes of category 1 to 4 are covered.

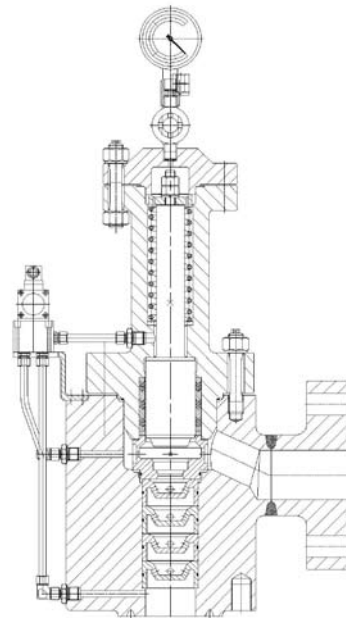


Figure 2: SA-type self actuated, controlled by solenoid valve

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up to  
 $\Delta p = 640 \text{ bar}$

