



SR, SL, ST

Solenoid actuator for butterfly valves VF, VFH

SR, SL, ST

Solenoid actuator

Contents

Description	2
Features	2
Functioning and application	3
Technical specifications	4
Ordering information	5
Standards and approvals	5

Description

Solenoid actuators SR/SL/ST are designed to operate VF and VFH butterfly valves, used in twostage control of gas flow and air flow in combustion processes.

Features

Available with fast opening and fast closing (<1s), with slow opening (3-4s) and fast closing or with slow opening and slow closing (3-4s)

Equipped with two regulating screws for minimum and maximum flowrate adjustment.

Provided with valve disc position indicator.

Suitable for intermittent operation and large number of operating cycles.

Its sturdy and functional design allows a fast and easy installation, and it is practically free of maintenance.

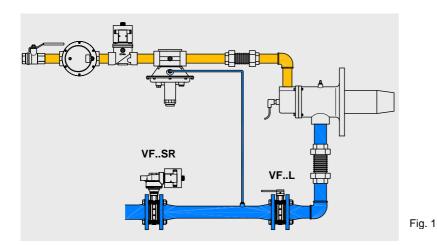
All components are designed to withstand any mechanical, chemical, thermal condition occurring during typical service. Effective impregnation and surface treatments have been used to improve mechanical sturdiness, sealing and resistance to corrosion of the components.



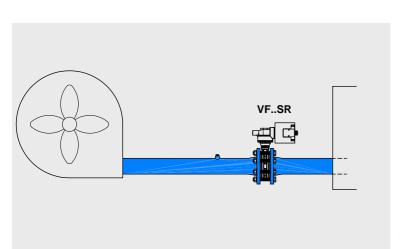
WARNING

This control must be installed in compliance with the rules in force.

Functioning and application



- When the combustion process is intermittent, a VF butterfly valve with solenoid actuator can be used, to adjust air volumes for low and high fire.



 In the annealing furnaces an auxiliary cooling is often required. Air volumes is controlled by a VF butterfly valve with solenoid actuator.

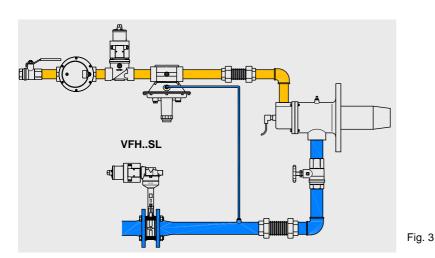


Fig. 2

- In case of combustion process with pre-heated air, VFH butterfly valve can be used. Solenoid actuator is preferentially suitable for min/max regulation with heavy duty cycles.

WARNING

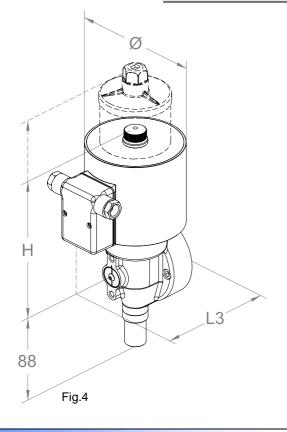
Location and mode of installation must be in compliance with local rules in force.

Technical specifications

		Tab. 1
Actuator type	SR fast opening and fast closing SL slow opening and fast closing ST slow opening and slow closing	
Overall dimensions	See table 2	
Rotation angle	0 / 90° minimum and maximum adjustable	
Ambient temperature	-15℃ / +60℃	
Voltage rating	230VAC 50/60Hz 110VAC 50/60Hz	
Voltage tolerance	-15% / +10%	
Power consumption	45 W (starting180 W)	
Enclosure	IP54 (EN 60529) (optional IP65)	
Cable gland	2x ISO 20 (EN 50262) standard socket optional	
Coil winding insulation	Class H (200℃)	
Coil thermal resistance	Class F (155℃)	
Operating time (0 - 90°)	SR: 1s opening/closing SL: ~4s opening / 1s closing ST: ~4s opening/closing	

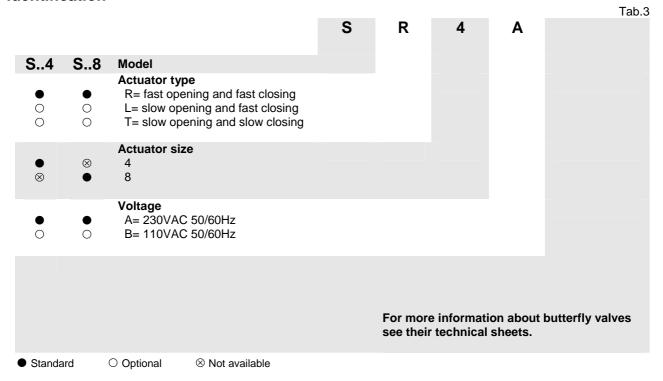
VF	DN40	DN50	DN65	DN80	DN100	DN125	DN150	
S4	•	•	•					
S8				•	•	•	•	

VFH	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200
S4	•	•						
S8			•	•	•	•	•	•



Tab. 2 Overall dimensions Weight Model [mm] [Kg] L3 Ø Н SR4 100 5,0 126 160 SL4 126 230 100 5,5 ST4 126 240 100 5,6 SR8 134 182 114 7,2 SL8 134 252 114 7,7 ST8 134 114 7,8 262

Actuator identification





Manufacturer reserves the right to update or make technical changes without prior notice.

Standards and approvals

The actuators meet current European approval requirements regarding electrical safety:

- Electromagnetic Compatibility (2004/108/EC)
- Low Voltage Directive (2006/95/EC)

Quality Management System is certified according to UNI EN ISO 9001 and the monitoring is carried out by the notified body:

Kiwa Gastec Italia Spa. Via Treviso, 32/34 I- 31020 San Vendemiano (TV)

