

**samson**

AND  
EVERYTHING  
FLOWS

**NEXT  
GENERATION  
SEVERE SERVICE**

**TYPE 261GR**



The SAMSON 261GR Valves are part of the innovative SMS Series designed to meet the demands of the most challenging process applications. Their modular design simplifies maintenance and service.

**Selected applications:**

- Pump recycle control
- Amine service
- High pressure drops
- Cold high-pressure separators

**Effortless integration**

- Smart positioners with automatic initialization
- Optional direct attachment for easy mounting

**The modular revolution**

- Multi-stage axial flow trims (trash-tolerant and liquid cavitation service, high pressure drops)
- Quick-change trim design for shorter downtime
- Available in leakage classes IV and V acc. to DIN EN 60534-4 and ANSI FCI 70-2
- Compatible with all existing SAMSON actuators and accessories

**Optimized plant integration**

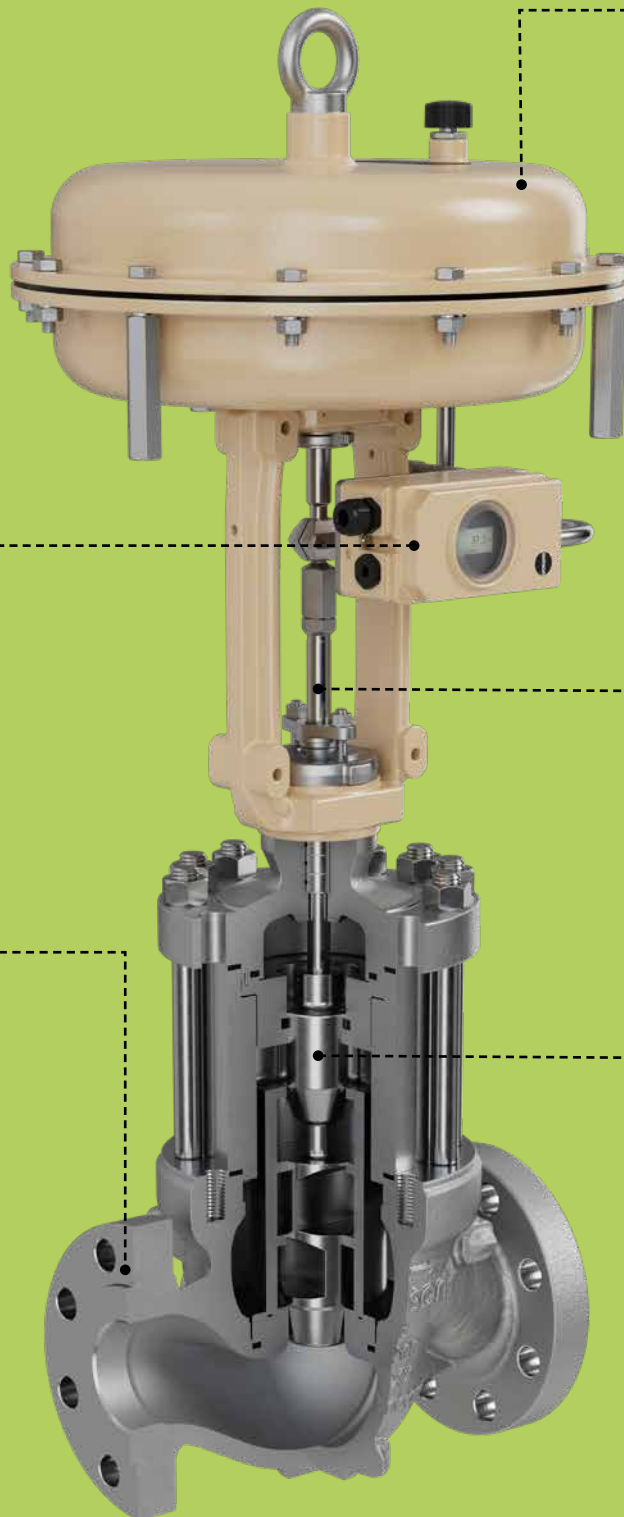
- Rolling diaphragm for easy maintenance and minimal wear during operation
- Very low external air loss

**A new benchmark of performance**

- Soft parts identical with Type 251GR for reduced inventory
- PTFE and graphite packings

**Built for all operating conditions**

- 3-, 4- and 6-stage trims can be swapped within the same body and bonnet
- Compact dimensions thanks to precisely sized extensions to match the number of control stages



| Technical data                                              |                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------|
| Nominal size                                                | DN 25 to 80/NPS 1 to 3                                                  |
| Pressure rating                                             | PN 63 to 160/Class 300 to 900                                           |
| Temperatures                                                | -50 to +425 °C/-58 to +797 °F                                           |
| Body material                                               | Cast steel (1.0619/A216 WC),<br>cast stainless steel (1.4408/A351 CF8M) |
| K <sub>vs</sub> coefficients<br>C <sub>v</sub> coefficients | 0.66 to 21.2<br>0.75 to 24.5                                            |
| Leakage class according to<br>IEC 60534-4 or ANSI/FCI 70-2  | Standard: IV<br>High performance: V                                     |
| Characteristic                                              | Linear                                                                  |



## 261GR TACKLES EVEN THE MOST CHALLENGING CONDITIONS

- The flow path with redirection, splitting, converging and multi-staging of the medium flow prevents cavitation and reduces noise emissions and erosion
- Available with 3-, 4- and 6-stage trims to match the application parameters (such as pressure drop)
  - To handle cavitation, solid particles and other critical flow conditions
  - Customized for specific operating conditions
- Wide flow path to prevent clogging by solids up to 11 mm/0.4 inch in size
- Zero travel to prevent damage of the sealing area and ensure a tight shut-off over a long period of time
- Pressure balancing available for smaller actuator sizes



AND  
EVERYTHING  
FLOWS



# NEXT VALVE GENERATION

TYPE 261 GR



[samsongroup.com](https://samsongroup.com)

