Automated Valve Packages

Factory-actuated by Swissfluid · SPA-R and linear stroke actuators · positioners, switches, solenoids

Factory-actuated packages

Swissfluid supplies its ball, plug and butterfly valves, SBV, SCP, SBP and SBE, as factory-actuated packages: the valve with an SPA-R actuator on its ISO 5211 top flange, double-acting or spring-return, with solenoid valve, limit switch box or electro-pneumatic positioner and all mounting parts, set up at the factory, each actuator function- and tightness-tested on an electronic test bench. The SDV and SIV take a linear stroke actuator the same way, and the SSB an actuator on its ISO 5211 flange; actuators, gearboxes and accessories are specified with the valve order. A factory package is the simplest way to specify an automated Swissfluid valve, and the one we recommend first.

SPA-R Pneumatic Quarter-Turn Actuators

Rack-and-pinion pneumatic actuators for modular mounting onto butterfly, cylindrical plug and ball valves, and as the operating device on automated reactor sampling systems. Cast-aluminum body and cover, two ISO 5211 bolt circles on TR 050 – TR 200 (one on TR 270 – TR 420) and a NAMUR interface.

Sizes	Twelve sizes, TR 050 to TR 420. Double-acting (DA) or single-acting with 3 to 6 spring cartridges per side, spring to close (FC) or spring to open (FO).
Torque	164 to 88,720 in-lbs at 87 psi, TR 050 to TR 420; torque tables on the Swissfluid sheet. Maximum supply 116 psi.
Air supply	Filtered air, dry or lubricated, 14.2 psi min. to 116 psi. Connections 1/8" (TR 050), 1/4" (TR 063 – 200), 1/2" (TR 270 – 420).
Operation	90° operating angle, ±5° stroke adjustment; permanent lubrication for min. 1 million cycles; user-defined installation position; 100% function and tightness testing on an electronic test bench.
Materials	Cast-aluminum body and cover with corrosion protection resistant to salt spray for up to 500 hours; cylinder bore finish Ra 0.4 – 0.6 µm; easily replaceable low-friction guide pads. Stainless steel bodies to order.
Temperature	−4 °F to +176 °F (−20 °C to +80 °C). Special actuators for extreme temperatures and any environmental conditions on specified request.
Mounting	Bolt circles to ISO 5211: F03/05 (TR 050, 063), F05/07 (075, 085), F05-10 (100), F07/10 (115, 125), F10/12 (160, 200), F14 (270), F16 (330), F25 (420). NAMUR interface for switch boxes and solenoid valves; visual position indicator.



Main features

- Robust cast-aluminum body and cover, proven rack-and-pinion construction
- Smooth cylinder bore finish (Ra 0.4 – 0.6 µm) for increased life span
- Corrosion protection resistant to salt spray for up to 500 hours
- Easily replaceable guide pads in low-friction materials
- ISO 5211 bolt circles for direct mounting onto valves: two on TR 050 – TR 200, one on TR 270 – TR 420
- NAMUR interface for limit switch boxes and solenoid pilot valves
- Visual position indicator as an integrated standard item
- Special actuators for extreme temperatures and environments on request

Options

- **Stainless steel body** In place of cast aluminum
- **Limit switch box** Micro or proximity switches, 1 or 2 switches, Ex versions
- **Solenoid valve** 3/2-way or 5/2-3/2-way, zero-current off or on, Ex versions
- **Positioner** Electro-pneumatic 4 – 20 mA, standard (EP) or Ex (EPe); pneumatic 2.9 – 14.5 psi (PP)
- **Stroke limiter / manual override**
- **Adapter** Combined with electric position indicator
- **Air train** Filter regulator with pressure gauge, throttling valve, silencer, stainless steel piping
- **Mounting** NAMUR bracket or mounting kit, ISO mounting kit

Data and codes: Swissfluid USA PM 61 us 2018-9.

Marspec's automation shop

When a plant standardizes on a particular actuator, positioner or solenoid valve, or needs a configuration the factory does not offer, Marspec's automation shop in Fairhope joins Swissfluid valves to any make or model of actuator, positioner or solenoid valve. We make the brackets and couplings in house, size the actuator from the valve's breakaway torque with a safety margin of at least 30 %, and stroke, tag and document every package before it ships. Send the valve series and size, the service conditions, the air supply or voltage, the fail position and the accessories you need; we take it from there.
(251) 625-4949 · info@linedpipe.com · linedpipe.com/contact/

Automated Valve Packages

Ordering from LinedPipe.Com

Size, series, lining, class and quantity are enough to start. For a quotation send the service conditions (media, concentration, temperature, pressure, flow), the end connections and, for a valve, the actuation you need; we will confirm the ordering code, the installation dimensions and a delivery time.

Request a quote

(251) 625-4949 · info@linedpipe.com · linedpipe.com/contact/
(the online quote form takes valves line by line and attachments).

What to tell us

- Series and size, flange class, and full or reduced port where the series offers both
- Lining, and the ball, disc, glass, seat and elastomer materials where the series has them
- Body material: carbon steel or stainless, as the series offers
- For a valve, the topworks: bare stem, lever, gearbox, pneumatic or electric actuator, fail position, accessories
- Options from the series' ordering code, such as a conductive lining or special bolting
- Certificates: EN 10204 3.1 material certificates and test reports on request

Dimensions

Face-to-face lengths in our valve catalog are stated against ASME B16.10, MSS SP-88, EN 558-1 or EN 12982, as the note under each table says; where a table mixes standards, lengths marked * are not to the US standard. Confirm the installation length on the order acknowledgement before cutting pipe.

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