



Pneumatic Actuated Stainless Steel Jacketed Butterfly Valve

- Combination of Jacketed Butterfly Valve with Element Actuator and Control Heads/Positioner's.
- Size Range 1" - 4" (6" on request)
- Seats in EPDM, Silicon and Viton
- Hygienic Butterfly Valve
- Liners to FDA requirement's
- Heating ports in various connections

Description

Incorporating a combination of the Warmflow stainless steel jacketed hygienic butterfly valve and a streamlined stainless steel linear pneumatic actuator. The unit has options in modular form for adding solenoid pilot valves/switching and modulating control functions (Ctop). This unit is ideally suited to the confectionary, food and cosmetic industry. The jacket is heated to allow the valve to operate freely with viscous or solid products such as chocolate, which flows better when heated. Modular in design it's the perfect choice for centralised or decentralised automation that demands process control via fieldbus technology. End connections are offered in RJT, ASME weld ends and tri-clamp as standard, with options of IDF, DIN and SMS on Request. The finish of the valve is machined/polished 316 stainless steel.

Typical Applications

Chocolate lines
food and beverage
Cosmetics
Fat
Syrups and similar

DIN, IDF, RJT, Clamp and Plain Weld Ends



Description

A pneumatically actuated hygienic jacketed valve, with options of various control and communication modules to suit your decentralised or centralised system. It is suitable for shut-off isolation and regulation of media flows in primary hygienic applications. Actuation includes a number of modular options such as pilot solenoids, switches, process control and controllers for applications that demand process control via fieldbus technology.



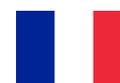
Beschreibung

Ein pneumatisch betätigtes Hygienemantelventil mit Optionen verschiedener Steuerungs- und Kommunikationsmodule für Ihr dezentrales oder zentrales System. Es eignet sich zur Absperrung und Regulierung des Medienflusses in primären Hygieneanwendungen. Die Betätigung umfasst eine Reihe modularer Optionen wie Pilotmagnete, Schalter, Prozesssteuerung und Steuerungen für Anwendungen, die eine Prozesssteuerung über die Feldbustechnologie erfordern.



Descripción

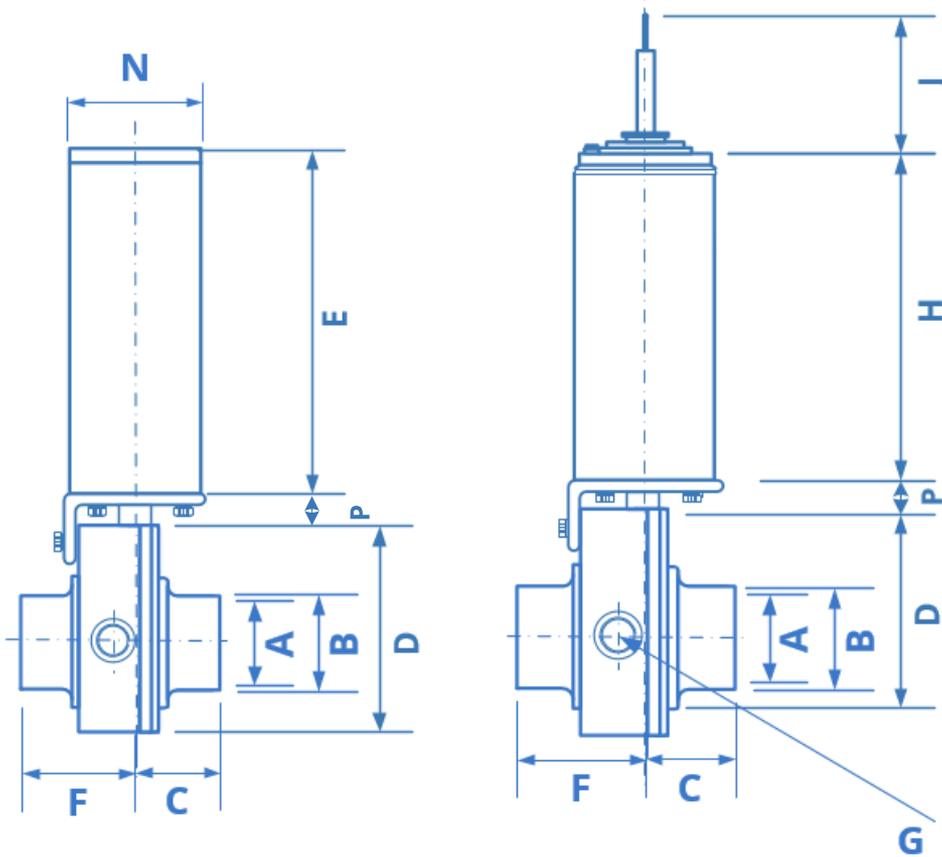
Una válvula con camisa higiénica accionada neumáticamente, con opciones de varios módulos de control y comunicación para adaptarse a su sistema descentralizado o centralizado. Es adecuado para el aislamiento de cierre y la regulación de los flujos de medios en aplicaciones higiénicas primarias. La actuación incluye una serie de opciones modulares, como solenoides piloto, interruptores, control de procesos y controladores para aplicaciones que exigen el control de procesos mediante la tecnología de bus de campo.



Description

Une vanne à enveloppe hygiénique à commande pneumatique, avec des options de divers modules de commande et de communication pour s'adapter à votre système décentralisé ou centralisé. Il convient à l'isolation par coupure et à la régulation des flux de fluide dans les applications d'hygiène primaire. L'actionnement comprend un certain nombre d'options modulaires telles que les solénoïdes pilotes, les commutateurs, la commande de processus et les contrôleurs pour les applications qui nécessitent une commande de processus via la technologie de bus de terrain.

OD Weld End

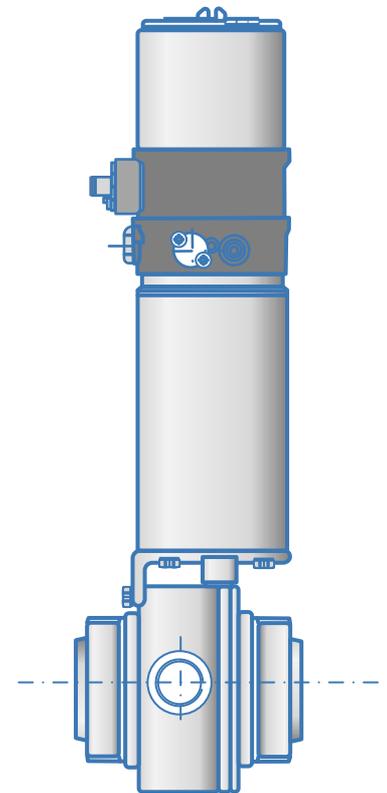


Dimensions and weights for Pneumatic Spring Return Sanitary Butterfly Valve - Plain Weld Ends

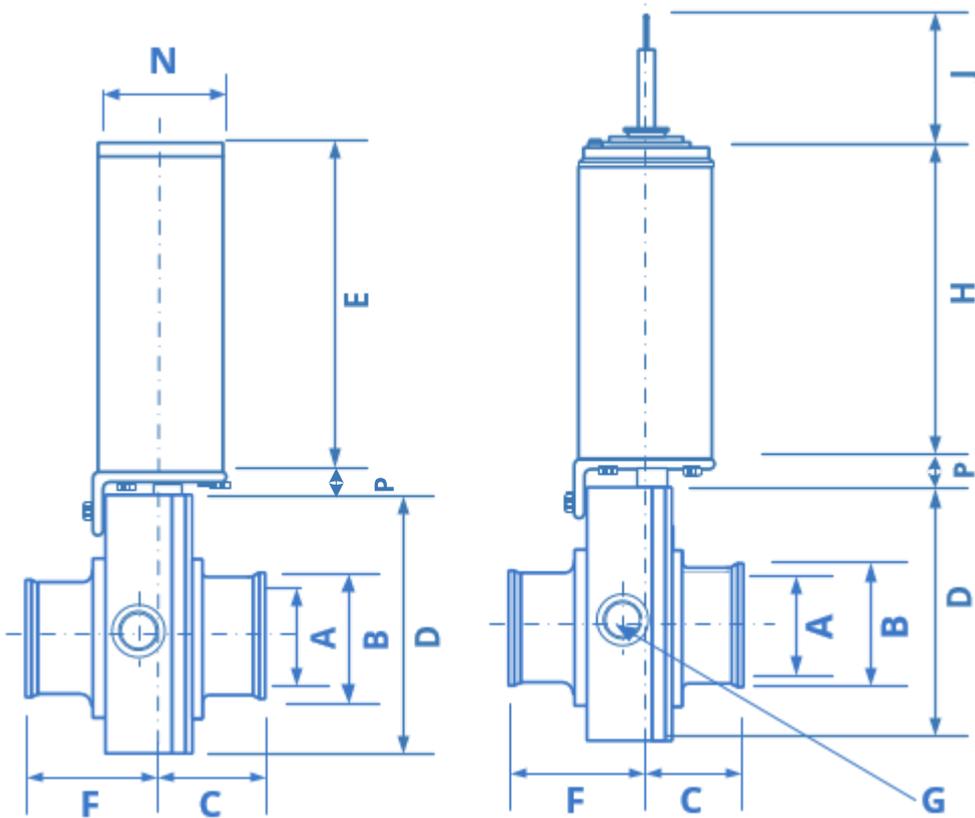
Size	A	B	C	D	F	G	Spring Return Actuator	P	E	H	J	N	Wt.Kg
1"	22.1	25.4	34	79	64	3/8" BSPP-F	P1	40	149	157	85.1	85	4.3
1 1/2"	34.6	38.1	38	85	70	1/2" BSPP-F	P1	40	149	157	85.1	85	4.4
2"	47.5	50.8	40	105	72	3/4" BSPP-F	P1	40	149	157	85.1	85	5
2 1/2"	60.2	63.5	40	112	72	3/4" BSPP-F	P1	40	149	157	85.1	85	5
3"	72.1	76.2	41	125	75	3/4" BSPP-F	P2	45	214	224	75.5	114	9
4"	97.4	102	50	157	82	3/4" BSPP-F	P2	45	214	224	75.5	114	10

Dimensions and weights for Pneumatic Double Acting Sanitary Butterfly Valve - Plain Weld Ends

Size	A	B	C	D	F	G	Double Acting Actuator	P	E	H	J	N	Wt.Kg
1"	22.1	25.4	34	79	64	3/8" BSPP-F	P0	40	149	164	85.1	85	4.3
1 1/2"	34.6	38.1	38	85	70	1/2" BSPP-F	P0	40	149	164	85.1	85	4.4
2"	47.5	50.8	40	105	72	3/4" BSPP-F	P0	40	149	164	85.1	85	5
2 1/2"	60.2	63.5	40	112	72	3/4" BSPP-F	P0	40	149	164	85.1	85	5
3"	72.1	76.2	41	125	75	3/4" BSPP-F	P1	40	149	164	85.1	85	9
4"	97.4	102	50	157	82	3/4" BSPP-F	P1	40	149	164	85.1	85	10



Clamp End

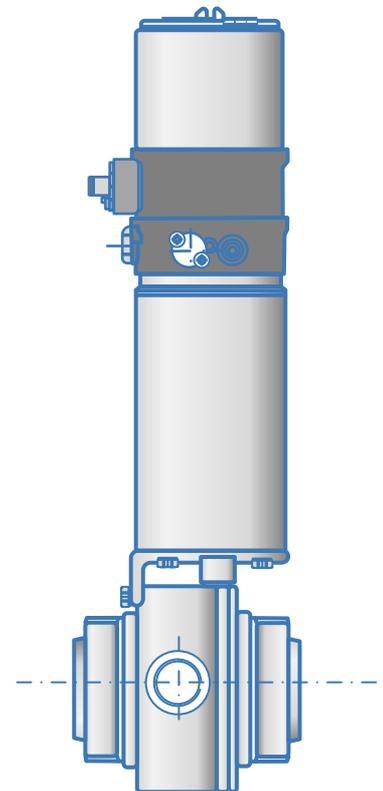


Dimensions and weights for Pneumatic Spring Return Sanitary Butterfly Valve - Clamp Ends

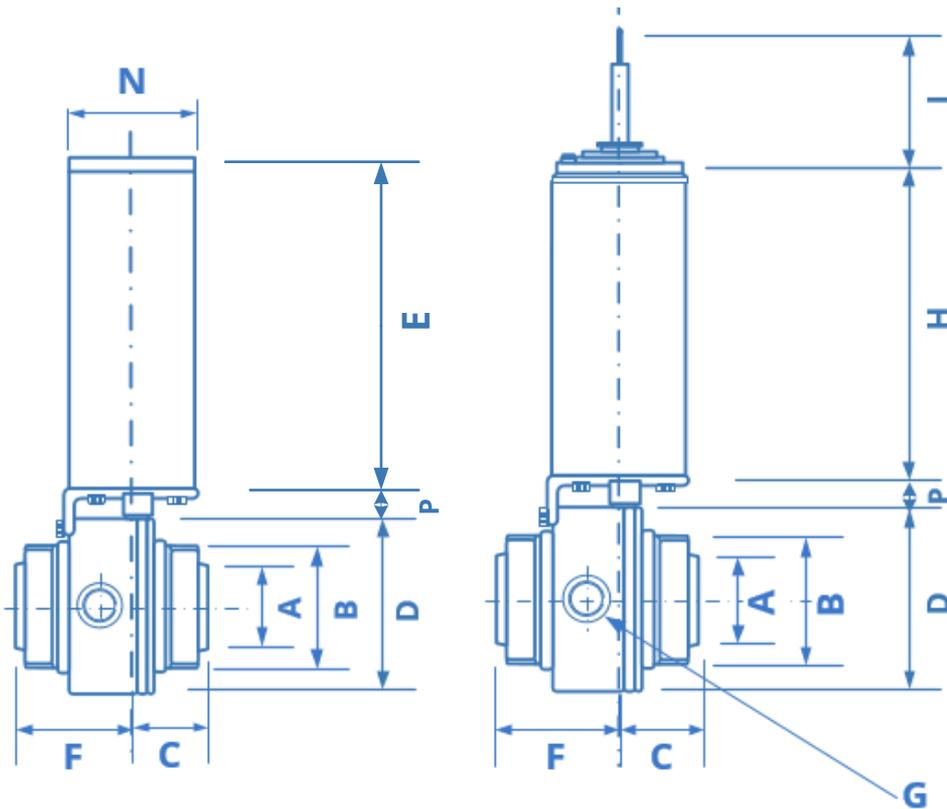
Size	A	B	C	D	F	G	Spring Return Actuator	P	E	H	J	N	Wt.Kg
1"	22.2	50.5	55	79	85	3/8" BSPP-F	P1	40	149	157	85.1	85	4.3
1 1/2"	34.9	50.5	59	85	91	1/2" BSPP-F	P1	40	149	157	85.1	85	4.4
2"	47.6	64	61	105	93	3/4" BSPP-F	P1	40	149	157	85.1	85	5
2 1/2"	60.3	77.5	61	112	93	3/4" BSPP-F	P1	40	149	157	85.1	85	5
3"	73	91	62	125	96	3/4" BSPP-F	P2	45	214	224	75.5	114	9
4"	97.6	119	71	157	103	3/4" BSPP-F	P2	45	214	224	75.5	114	10

Dimensions and weights for Pneumatic Double Acting Sanitary Butterfly Valve - Clamp Ends

Size	A	B	C	D	F	G	Double Acting Actuator	P	E	H	J	N	Wt.Kg
1"	22.1	50.5	55	79	110	3/8" BSPP-F	P0	40	149	164	85.1	85	4.3
1 1/2"	34.6	50.5	59	85	118	1/2" BSPP-F	P0	40	149	164	85.1	85	4.4
2"	47.5	64	61	105	122	3/4" BSPP-F	P0	40	149	164	85.1	85	5
2 1/2"	60.2	77.5	61	112	122	3/4" BSPP-F	P0	40	149	164	85.1	85	5
3"	72.1	91	62	125	124	3/4" BSPP-F	P1	45	149	164	85.1	85	9
4"	97.4	119	71	157	142	3/4" BSPP-F	P1	45	149	164	85.1	85	10



RJT End

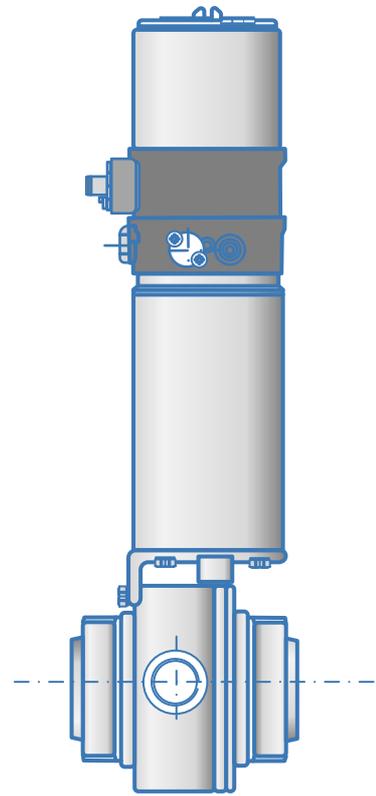


Dimensions and weights for Pneumatic Spring Return Sanitary Butterfly Valve - RJT Male Ends

Size	A	B	C	D	F	G	Spring Return Actuator	P	E	H	J	N	Wt.Kg
1"	22.2	45.7	34	79	64	3/8" BSPP-F	P1	40	149	157	85.1	5	4.3
1 1/2"	34.8	58.4	38	85	70	1/2" BSPP-F	P1	40	149	157	85.1	85	4.4
2"	47.5	72.7	40	105	72	3/4" BSPP-F	P1	40	149	157	85.1	85	5
2 1/2"	60.2	85.4	40	112	72	3/4" BSPP-F	P1	40	149	157	85.1	85	5
3"	72.9	98.2	41	125	75	3/4" BSPP-F	P2	45	214	224	75.5	114	9
4"	97.7	124	50	157	82	3/4" BSPP-F	P2	45	214	224	75.5	114	10

Dimensions and weights for Pneumatic Double Acting Sanitary Butterfly Valve - RJT Male Ends

Size	A	B	C	D	F	G	Double Acting Actuator	P	E	H	J	N	Wt.Kg
1"	22.2	45.7	34	79	64	3/8" BSPP-F	P0	40	149	164	85.1	85	4.3
1 1/2"	34.8	58.4	38	85	70	1/2" BSPP-F	P0	40	149	164	85.1	85	4.4
2"	47.5	72.7	40	105	72	3/4" BSPP-F	P0	40	149	164	85.1	85	5
2 1/2"	60.2	85.4	40	112	72	3/4" BSPP-F	P0	40	149	164	85.1	85	5
3"	72.9	98.2	41	125	75	3/4" BSPP-F	P1	45	149	164	85.1	85	9
4"	97.7	124	50	157	82	3/4" BSPP-F	P1	45	149	164	85.1	85	10

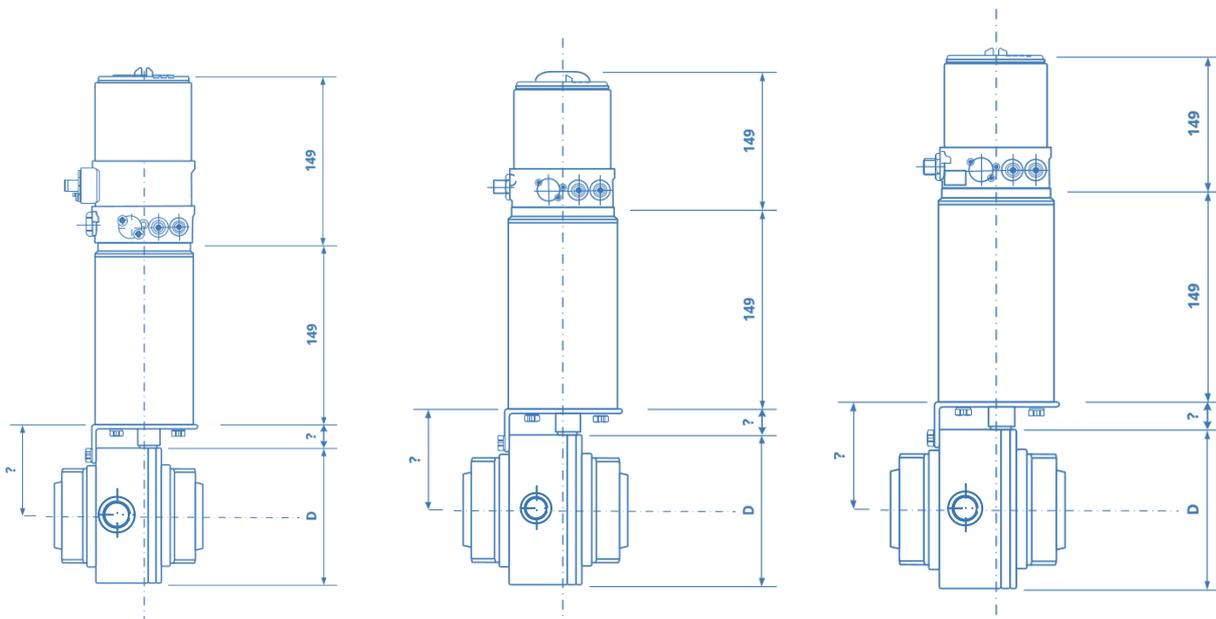




Type 2053 Pneumatic rotary actuator for the automation of ball and butterfly valves

The 2053 pneumatic actuator enables an automated actuation of ball and butterfly valves. The linear lifting motion of the drive piston is redirected in a 90° rotational movement of the drive shaft. The valve side interface is designed according to ISO 5211. In addition, the rotary actuator can be combined with the ELEMENT control heads and positioners of Type 8691/8692/8693/8694. The return to the initial position of the single-acting actuators is caused by spring force. For the double-acting actuators, the movement in both directions is caused by compressed air. The welded construction of the stainless steel housing makes the actuator 100% maintenance-free.

Overall, the actuator is available in three different sizes: P0 - P1 - P2. All three sizes have a high torque despite their compact design. The air consumption per stroke cycle is very low due to the low cylinder volume. This ensures a remarkable energy saving potential.



Type 8691 - Control head for decentralised automation of ELEMENT process valves

Type 8692 - Digital electropneumatic Positioner for the integrated mounting on process control valves

Type 8694 - Digital electropneumatic positioner for the integrated mounting on process control valves

Type 8691 - Control head for decentralised automation of ELEMENT process valves



The control head Type 8691 is designed for decentralized automation of ELEMENT Type 21xx pneumatic process valves. The registration of the valve position is done through a contact-free analogue sensor element, which automatically recognises and saves the valve end position through the Teach function during start-up. The integrated pilot valve controls single or double-acting actuators. As an option a communication interface, AS-Interface, DeviceNet, IO-Link or bÜS (based on CANopen) can be chosen. The design of the control head and the actuator enables an internal control air routing without external tubings. Besides the electrical position feedback, the status of the device is shown directly on the control head itself through coloured powerful LEDs, even in difficult ambient conditions. The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing in food, beverage and pharmaceutical industries. Focused on wash down applications, the IP protection of the housing is supported by a positive pressure inside the control head. Combined with Bürkert ELEMENT actuators, the pneumatic actuating system enables spring chamber aeration that avoids actuator chamber contamination from the environment.

Contact-free inductive valve position registration (Teach-In function)

Coloured illuminated status display

Integrated control air routing in the actuator

Fieldbus interface AS interface, DeviceNet, IO-Link or bÜS (Bürkert System Bus)

With ATEX II cat. 3G/D / IECEx approval

Type 8692 - Digital electropneumatic Positioner for the integrated mounting on process control valves

The compact positioner Type 8692 is optimized for integrated mounting on the pneumatic actuators in the process valve series Type 23xx/2103 and is specially designed for the requirements of a hygienic process environment. The control air channel is integrated in the actuator without external tubings. The easy handling and the selection of additional software functions are done either on a big graphic display with backlight and keypad or over COMMUNICATOR. The positioner registers the valve position without deterioration through a contact-free, analog position sensor. The control of single or double-acting actuators is done without internal air consumption. With integrated diagnostic functions operation conditions of the control valve can be monitored. Through status signals, valve diagnostic messages are transmitted according to NAMUR NE107 and recorded as history entries. The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing, in food, beverage and pharmaceutical industries. Combined with Bürkert ELEMENT actuators the unique pilot valve system enables a compressed air recycling that avoids actuator chambers contamination from the environment.

Compact, robust stainless Steel design
Easy start-up by automatic X-Tune function
Contact-free position sensor
Integrated control air routing with spring chamber aeration
PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET,
Modbus TCP or bÜS (Bürkert System Bus)



Type 8694 - Digital electropneumatic positioner for the integrated mounting on process control valves



Compact positioner for integrated mounting on pneumatically operated process valves. Remote setpoint adjustment via a 4-20 mA signal or through AS-Interface. A contact-free analogue position sensor measures the position of the valve spindle. Simple installation through automatic TUNE-function and setting through DIP-switch: Close tight function Characteristic curves selection Reversal of effective direction Switching manual /automatic operation Binary input Additional parametrisation options are possible through DTM devices. A software interface can be used for, amongst others, linearisation of the operation characteristics by using free programmable fixed points.

The valve position indication is shown through LED components. As an option an analogue position feedback can be integrated.

Compact, robust stainless Steel design
Start-up by automatic TUNE-function
Contact-free position sensor
Integrated control air routing
AS-Interface, IO-Link or Bürkert System bus (bùS)

Type 8681 - Control head for decentralized automation of hygienic process valves

The control head Type 8681 is optimized for decentralised automation of hygienic process valves. Thanks to its universal adapter it can be combined with all normal commercial butterfly valves, ball valves, single and double seated valves. With a decentralised automation concept, the control head takes over all pneumatic actuation, feedback and diagnostic functions including field bus communication. The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing in food, beverage and pharmaceutical industries. Depending on the process valve type, up to 3 pneumatic actuator chambers can be controlled independently from each other. The switching speeds of both movement directions can be set separately. A built-in check valve prevents incorrect switching of process valve actuator chambers which could result from back-pressure. The process valve switching positions are detected by an inductive, analogue position sensor and reported to the PLC system. Up to 3 switching points can be adjusted automatically by a Teach-In function. Additionally a fourth switching position can be read in and fed back via an external inductive proximity switch. The coloured status display signals the particular process valve switching position or indicates a diagnostic function such as maintenance required status or fault conditions. The pilot valves are equipped with a manual override. If the device housing is closed, the patented magnetically encoded manual override tool can be used to open the process valve from the exterior. Bus communication is available with AS-interface or DeviceNet.

- Universal attachment for hygienic process valves
- Contactless position measurement system with 3 switching points (Teach-In function)
- Coloured status display
- Manual override operative with closed housing
- Fieldbus AS-Interface, DeviceNet or IO-Link

