



# techhose

QUALITY CONNECTIONS

Hydraulics

Pneumatics  
& Vacuum

Industrial

Compressed Air  
& Ring Main

Process &  
Instrumentation

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## Valves & Actuation

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Angle Seat Valves

# Angle Seat Valves with Stainless Steel Body



Pilot Operated 2/2 Solenoid Valve



Direct Acting 2/2 Solenoid Valve



Valve Timer

## Features:

- Maintenance free actuator
- Long life piston rings
- Easy installation
- 360° positional actuator head
- Leak free after five million cycles
- Compact design
- Fast response
- Water hammer-free
- Cost effective against other materials

## Applications:

- Food and beverage plants
- Textile factories
- Pharmaceuticals manufacture
- Laundries
- Water and sewage plants
- Petrochemical plants
- Automotive sites

## Operation:

- Normally open
- Normally closed



**Working Temperature:**

**Medium:**  
-10°C to +180°C

**Environmental:**

PA nylon -10°C to +60°C  
Stainless steel -10°C to +80°C



**Working Pressure**  
3 to 16 bar\*

## Construction:

Body:	316 stainless Steel
Actuator:	PA nylon or 316 stainless Steel

**° Working Temperature:**

Media: -10°C to +180°C

**Environmental Temperature**

PA Nylon -10°C to +60°C  
Stainless steel -10°C to +80°C

**Working Pressure:**

3 to 16 bar

- Compact design, available in both normally open and normally closed options.
- Normally Closed - Closes with the flow.
- Normally Open - Closes against the flow.
- Pilot operated.
- High flow.
- 360° Actuator housing rotation.
- Single acting spring return.
- Suitable for use with water, oil, air, aggressive media and steam.

## 316 Stainless Steel Valve, PA Nylon Actuator

**Material:**  
**Body:** 316L Stainless steel  
**Actuator:** PA  
**Seals:** PTFE



**2 Way 63mm Actuator  
Normally Closed, BSPP**

0381	Thread
KASV-SSP-38-NC	3/8"
KASV-SSP-12-NC	1/2"
KASV-SSP-34-NC	3/4"
KASV-SSP-1-NC	1"
KASV-SSP-114-NC	1.1/4"
KASV-SSP-112-NC	1.1/2"
KASV-SSP-2-NC	2"
KASV-SSP-212-NC	2.1/2"

Tech Sheet 10204



**2 Way 63mm Actuator  
Normally Open, BSPP**

0381	Thread
KASV-SSP-38-NO	3/8"
KASV-SSP-12-NO	1/2"
KASV-SSP-34-NO	3/4"
KASV-SSP-1-NO	1"
KASV-SSP-114-NO	1.1/4"
KASV-SSP-112-NO	1.1/2"
KASV-SSP-2-NO	2"
KASV-SSP-212-NO	2.1/2"

Tech Sheet 10204

## 316 Stainless Steel Valve, Stainless Steel Actuator

**Material:**  
**Body:** 316L Stainless steel  
**Actuator:** 316L Stainless steel  
**Seals:** PTFE



**2 Way 63mm Actuator  
Normally Closed, BSPP**

0381	Thread
KASV-SSSS-38-NC	3/8"
KASV-SSSS-12-NC	1/2"
KASV-SSSS-34-NC	3/4"
KASV-SSSS-1-NC	1"
KASV-SSSS-114-NC	1.1/4"
KASV-SSSS-112-NC	1.1/2"
KASV-SSSS-2-NC	2"
KASV-SSSS-212-NC	2.1/2"

Tech Sheet 10204



**2 Way 63mm Actuator  
Normally Open, BSPP**

0381	Thread
KASV-SSSS-38-NO	3/8"
KASV-SSSS-12-NO	1/2"
KASV-SSSS-34-NO	3/4"
KASV-SSSS-1-NO	1"
KASV-SSSS-2-NO	2"

Tech Sheet 10204



You might also need...  
**Polyurethane & Nylon Tube**  
see pages **897-917**



# FESTO ACTUATION

stainless steel

**FESTO**

new product

## Pinch Valves

### Features:

- 316 stainless steel body
- Normally open
- Pneumatically actuated
- BSPP or clamp end connections
- EPDM or silicone shut-off element material available
- Quick to install and easy to maintain
- Suitable for use with granulates, liquids containing solid particles, highly viscous, contaminated and abrasive media

° Working Temperature:  
-5°C to +60°C

Maximum Working Pressure:  
6 bar



### VZQA 2/2 Way Normally Open Pinch Valve, BSPP

0009	Size	Shut-Off Element Material	Manufacturer's Code
2931678	1/4"	EPDM	VZQA-C-M22U-6-GG-V4V4E-4
2931683	1/4"	Silicone	VZQA-C-M22U-6-GG-V4V4S1-4
3022829	1/2"	EPDM	VZQA-C-M22U-15-GG-V4V4E-4
3022835	1/2"	Silicone	VZQA-C-M22U-15-GG-V4V4S1-4
3968922	1"	EPDM	VZQA-C-M22U-25-GG-V4V4E-4
3968926	1"	Silicone	VZQA-C-M22U-25-GG-V4V4S1-4

Tech Sheet 6292

### VZQA 2/2 Way Normally Open Pinch Valve, Clamp Style

0009	Size	Shut-Off Element Material	Manufacturer's Code
2931681	1/4"	EPDM	VZQA-C-M22U-6-S5S5-V4V4E-4
2931682	1/4"	Silicone	VZQA-C-M22U-6-S5S5-V4V4S1-4
3022833	1/2"	EPDM	VZQA-C-M22U-15-S5S5-V4V4E-4
3022834	1/2"	Silicone	VZQA-C-M22U-15-S5S5-V4V4S1-4
3968924	1"	EPDM	VZQA-C-M22U-25-S5S5-V4V4E-4

Tech Sheet 6292

## ANGLE SEAT VALVES

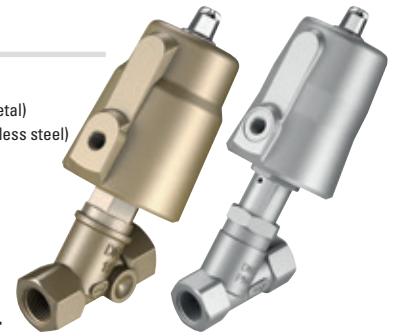
**FESTO**

### VZXF Normally Closed Angle Seat Valves

### Features:

- Available in gunmetal or 316 stainless steel valve and actuator
- BSPP threads
- Normally closed
- PTFE seat
- Water hammer free flow under seat
- Suitable for domestic water services, inert gases, oil, hydraulic fluid, neutral liquids and compressed air systems dependent on the valve body

° Working Temperature:  
Media: -10°C to +80°C (gunmetal)  
Media: -40°C to +200°C (stainless steel)  
Environment: -10°C to +60°C



### Gunmetal Angle Seat Valve and Actuator

0990	Thread	DN	Manufacturer's Code	Flow Rate (m³/h)
1002501	1/2"	15	VZXF-L-M22C-M-B-G12-120-H3B1-50-16	3.70
1002503	3/4"	20	VZXF-L-M22C-M-B-G34-160-H3B1-50-16	5.20
1002505	1"	25	VZXF-L-M22C-M-B-G1-230-H3B1-50-10	9.60
1002507	1.1/4"	32	VZXF-L-M22C-M-B-G114-290-H3B1-50-7	6
1002509	1.1/2"	40	VZXF-L-M22C-M-B-G112-350-H3B1-50-6	16.50
1002511	2"	50	VZXF-L-M22C-M-B-G2-430-H3B1-50-3	23

Tech Sheet 6269

### Stainless Steel Angle Seat Valve and Actuator

0990	Thread	DN	Manufacturer's Code	Flow Rate (m³/h)
1002513	1/2"	15	VZXF-L-M22C-M-B-G12-130-M1-V4V4T-50-40	3.30
1002515	3/4"	20	VZXF-L-M22C-M-B-G34-180-M1-V4V4T-50-20	6.50
1002517	1"	25	VZXF-L-M22C-M-B-G1-240-M1-V4V4T-50-10	11
1002519	1.1/4"	32	VZXF-L-M22C-M-B-G114-310-M1-V4V4T-50-7	10.70
1002521	1.1/2"	40	VZXF-L-M22C-M-B-G112-350-M1-V4V4T-50-6	17.50
1002523	2"	50	VZXF-L-M22C-M-B-G2-450-M1-V4V4T-50-3	19.50

Tech Sheet 6269

### VZXA Normally Closed Angle Seat Valves

### Features:

- BSPP threads
- Normally closed
- PTFE seat
- ATEX II 2G Ex h IIC T3 Gb / II 2D Ex h IIIC T200°C Db certification
- SIL2 rated
- IP67 rated
- Water hammer free flow under seat
- Suitable for domestic water services, inert gases, oil, hydraulic fluid, neutral liquids, compressed air systems and hazardous areas

- Accessories such as a stroke reducing kit and a position indicator with or without sensors are also available on request

### Stainless Steel Angle Seat Valve and Actuator

0990	Thread	DN	Manufacturer's Code	Flow Rate (m³/h)
8060527	1/2"	15	VZXA-B-TS6-13-M2-V13T-30-K-46-17-V4	6
8060528	3/4"	20	VZXA-B-TS6-20-M2-V13T-12.8-K-46-17-V4	13.30
8060530	1"	25	VZXA-B-TS6-25-M2-V13T-8.3-K-46-17-V4	20.30
8060533	1.1/4"	32	VZXA-B-TS6-32-M2-V13T-4.4-K-46-17-V4	27.90
8060536	1.1/2"	40	VZXA-B-TS6-40-M2-V13T-9.3-K-75-20-V4	41.40
8060538	2"	50	VZXA-B-TS6-50-M2-V13T-5.6-K-75-20-V4	50.10

Tech Sheet 6268

° Working Temperature:  
Media: -10°C to +180°C  
Environment: 0°C to +60°C



# ANGLE SEAT VALVES

stainless  
steel



## Stainless Steel

### Construction:

- Stainless steel actuator housing for exceptional durability in steam and aggressive applications
- 304 stainless steel actuator and 316L stainless steel body

### Benefits

- Compact design, high flow rate
- Visual position indicator
- Dampened closing anti-water hammer design (fluid under seat)
- Mountable in any position
- Tight shut-off and long service life
- Valves meet Pressure Equipment Directive 97/23/EC
- Conforms to 94/9/CE directive specific to non-electrical equipment for use within potentially explosive environments, zones 1/21 and 2/22

### Applications:

- Food and beverage processing
- Water technology and treatment
- Textile industry
- Cooling systems on injection moulding machines
- Pharmaceutical/cosmetics industry
- Chemical process technology
- Refrigeration and cooling/heat exchangers
- Sterilisers and steam supply
- Water applications including mining, cement/concrete systems, pulp and paper
- General industrial applications of aggressive fluid
- Industrial laundry equipment
- Industrial air dryers

° Working Temperature:  
-10°C to +180°C



### High Temperature, Flow Over Seat, 304 Stainless Steel Actuator, 316L Stainless Steel Body, Normally Closed

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA10C1G3R032S	3/8"	13	16	PA10C1G3R032S
PA15C1G4R032S	1/2"	13	16	PA15C1G4R032S
PA20C1G5R032S	3/4"	15	14	PA20C1G5R032S

Tech Sheet 60414

### High Temperature, Flow Under Seat, 304 Stainless Steel Actuator, 316L Stainless Steel Body, Normally Closed, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA10C2G3R032S	3/8"	13	16	PA10C2G3R032S
PA15C2G4R032S	1/2"	13	16	PA15C2G4R032S
PA20C2G5R032S	3/4"	15	14	PA20C2G5R032S

Tech Sheet 60414

### Flow Over Seat, 304 Stainless Steel Actuator, 316L Stainless Steel Body, Normally Closed, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA10S1G3R050S	3/8"	13	16	PA10S1G3R050S
PA15S1G4R040S	1/2"	13	16	PA15S1G4R040S
PA15S1G4R050S	1/2"	13	16	PA15S1G4R050S
PA20S1G5R050S	3/4"	18	16	PA20S1G5R050S
PA25S1G6R050S	1"	24	16	PA25S1G6R050S
PA25S1G6R063S	1"	24	16	PA25S1G6R063S
PA32S1G7R063S	1.1/4"	31	16	PA32S1G7R063S

Tech Sheet 60414

### Flow Over Seat, 304 Stainless Steel Actuator, 316L Stainless Steel Body, Normally Open, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA10S2G3R050S	3/8"	13	16	PA10S2G3R050S
PA15S2G4R050S	1/2"	13	16	PA15S2G4R050S
PA20S2G5R050S	3/4"	18	16	PA20S2G5R050S
PA25S2G6R063S	1"	24	16	PA25S2G6R063S
PA32S2G7R063S	1.1/4"	31	14	PA32S2G7R063S

Tech Sheet 60414

### Anti-water Hammer Construction, Flow Under Seat, 304 Stainless Steel Actuator, 316L Stainless Steel Body, Normally Closed, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA10SAG3R050S	3/8"	13	16	PA10SAG3R050S
PA15SAG4R050S	1/2"	13	16	PA15SAG4R050S
PA20SAG5R050S	3/4"	18	10	PA20SAG5R050S
PA25SAG6R063S	1"	24	8	PA25SAG6R063S
PA32SAG7R080S	1.1/4"	31	11	PA32SAG7R080S

Tech Sheet 60414

### Anti-water Hammer Construction Flow Under Seat Aluminium Actuator 316L Stainless Steel Body, Normally Closed, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA15SAG4R050A	1/2"	13	16	PA15SAG4R050A
PA20SAG5R050A	3/4"	18	10	PA20SAG5R050A
PA25SAG6R063A	1"	24	8	PA25SAG6R063A

Tech Sheet 60414

### Flow Over Seat, Aluminium Actuator, 316L Stainless Steel Body, Normally Closed, BSPP

0484	Thread	Orifice mm	Max Pressure Bar	Manufacturer's Code
PA15S1G4R050A	1/2"	13	16	PA15S1G4R050A
PA20S1G5R050A	3/4"	18	16	PA20S1G5R050A

Tech Sheet 60414

# ANGLE SEAT VALVES

stainless  
steel



## Stainless Steel Angle Seat Piston Valves

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### Compact 45mm Actuator, 2 Way N/C, BSPP

0263	Thread	LPM	Max Pressure Bar
PG205CTW00	1/2"	98	16
PG206CTX00	3/4"	164	16

Tech Sheet 968

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### Compact 45mm Actuator, 2 Way N/O, BSPP

0263	Thread	LPM	Max Pressure Bar
RPG205CTW00	1/2"	98	16
RPG206CTX00	3/4"	164	16

Tech Sheet 969

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### 63mm Actuator, 2 Way N/C, BSPP

0263	Thread	LPM	Max Pressure Bar
PG205STW00	1/2"	98	20
PG206STX00	3/4"	164	20
PG207STY00	1"	260	20
PG208STZ00	1.1/4"	410	16
PG209STK00	1.1/2"	700	16
PG210STJ00	2"	950	11

Tech Sheet 968

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### 63mm Actuator, 2 Way N/O, BSPP

0263	Thread	LPM	Max Pressure Bar
RPG205STW00	1/2"	98	20
RPG206STX00	3/4"	164	20
RPG207STY00	1"	260	20
RPG208STZ00	1.1/4"	410	16
RPG209STK00	1.1/2"	700	16
RPG210STJ00	2"	950	11

Tech Sheet 969

**FT PRO** stainless  
steel



For **Stainless Steel Push-in Fittings**  
see pages **875-879**

# ANGLE SEAT VALVES



## Bronze Angle Seat Piston Valves

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### Compact 45mm Actuator, 2 Way N/C, BSPP

0263	Thread	LPM	Max Pressure Bar
CG205CTW00	1/2"	98	16
CG206CTX00	3/4"	164	16
CG207CTY00	1"	260	16

Tech Sheet 970

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### Compact 45mm Actuator, 2 Way N/O, BSPP

0263	Thread	LPM	Max Pressure Bar
RCG205CTW00	1/2"	98	16
RCG206CTX00	3/4"	164	16
RCG207CTY00	1"	260	16

Tech Sheet 971

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### 63mm Actuator, 2 Way N/C, BSPP

0263	Thread	LPM	Max Pressure Bar
CG205STW00	1/2"	98	20
CG206STX00	3/4"	164	20
CG207STY00	1"	260	20
CG208STZ00	1.1/4"	410	16
CG209STK00	1.1/2"	700	16
CG210STJ00	2"	950	11

Tech Sheet 970

° Ambient Temperature:  
-10°C to +60°C  
Working Temperature:  
-10°C to +180°C



### 63mm Actuator, 2 Way N/O, BSPP

0263	Thread	LPM	Max Pressure Bar
RCG205STW00	1/2"	98	16
RCG206STX00	3/4"	164	16
RCG207STY00	1"	260	16
RCG208STZ00	1.1/4"	410	16
RCG209STK00	1.1/2"	700	16
RCG210STJ00	2"	950	12

Tech Sheet 971

## Banjo Solenoid Valves

° Ambient Temperature:  
-10°C to +50°C  
Working Temperature:  
-10°C to +130°C

- Suitable for use with M&M, CG, PG and BLG piston valves.



### Direct Mount

0263	To Suit Actuator Size	Voltage
B356CVCMK24VDC	45	24V DC
B356CVCMK24VAC	45	24V AC
B356CVCMK110VAC	45	110V AC
B356CVCMK240VAC	45	240V AC
B326CVCMK24VDC	63	24V DC
B326CVCMK24VAC	63	24V AC
B326CVCMK110VAC	63	110V AC
B326CVCMK240VAC	63	240V AC

Tech Sheet 972

# PRESSURE SWITCHES

## Direct Mount Pressure Switches

- **Electrical Connection:** Terminal 6.3 x 0.8
- **Electrical Data:** 10amp x 250V



° Ambient Temperature:  
-10°C to +50°C

Working Temperature:  
-10°C to +125°C

- Suitable for Hot Water, Steam, Neutral Liquids, Light Oils, Air and Inert Gases

### Brass Body, Silicone Membrane, BSPP

0061	Thread	Pressure Range Bar	Fixed Differential Bar	Repeatability Bar
XP73AE61.000	1/8"	0.2-1.2	0.30±0.15	±0.15
XP73CE61.000	1/8"	1.0-2.5	0.30±0.15	±0.2
XP73DE61.000	1/8"	1.5-4.0	0.30±0.15	±0.2
XP73EE61.000	1/8"	2.0-6.0	0.30±0.15	±0.2

Tech Sheet 975

° Ambient Temperature:  
-10°C to +50°C

Working Temperature:  
-10°C to +80°C

- Suitable for water, neutral liquids, light oils, air and inert gases

### Brass Body, Nitrile Membrane, BSPP

0061	Thread	Pressure Range Bar	Fixed Differential Bar	Repeatability Bar
GP73ME31.000	1/8"	0.2-3.0	0.3±0.1	±0.2
GP73PE31.000	1/8"	1.0-5.0	0.5±0.15	±0.2

Tech Sheet 10440

° Ambient Temperature:  
-10°C to +50°C

Working Temperature:  
-10°C to +125°C

- Suitable for hot water, steam and aggressive media

### Stainless Steel Body, BSPP

0061	Thread	Pressure Range Bar	Fixed Differential Bar
XP83FE61000	1/8"	4.0-9.0	0.50±0.20
XP83GE61000	1/8"	9.0-15.0	0.70±0.30

Tech Sheet 976

**You might also need...**  
**Galvanised Fittings**  
 ...see pages 1338-1381





# OMAL ACTUATION



## Applications:

### Nitrile:

Compatible with air, gas, oils, water etc.

### Viton:

High compatibility with the majority of fluids, not advised for steam.

### ° Working Temperature:

#### Nitrile:

-20°C to +80°C

#### Viton:

-20°C to +150°C

## Note:

The compact design of a VIP valve with its reduced size and weight allows it to be used in applications where traditional actuated valve packages cannot be utilised. The VIP valve has no external moving parts, which ensures their operation is quick and efficient, without the safety issues of the traditional actuated valve packages.

The VIP valve with the approved gas threaded connections (UN1-ISO 7/1-DIN 2999) coupled with a NAMUR mounting plate makes this valve suitable for every possible plant application.

The valve can be mounted in any position. Full technical specifications available on request

## V.I.P. Axial Flow Valves with Nitrile Seals



### Double Acting, BSPP

0129	Thread
VDA10003	3/8"
VDA10004	1/2"
VDA10005	3/4"
VDA10006	1"
VDA10007	1.1/4"
VDA10008	1.1/2"
VDA10009	2"

Tech Sheet 862

### Single Acting Spring Return Normally Closed, BSPP

0129	Thread
VNC10003	3/8"
VNC10004	1/2"
VNC10005	3/4"
VNC10006	1"
VNC10007	1.1/4"
VNC10008	1.1/2"
VNC10009	2"

Tech Sheet 862

## V.I.P. Axial Flow Valves with Viton Seals



### Double Acting, BSPP

0129	Thread
VDA20003	3/8"
VDA20004	1/2"
VDA20005	3/4"
VDA20006	1"
VDA20007	1.1/4"
VDA20008	1.1/2"
VDA20009	2"

Tech Sheet 862

### Single Acting Spring Return Normally Closed, BSPP

0129	Thread
VNC20003	3/8"
VNC20004	1/2"
VNC20005	3/4"
VNC20006	1"
VNC20007	1.1/4"
VNC20008	1.1/2"
VNC20009	2"

Tech Sheet 862

## Stainless Steel Angle Seat Valve with NAMUR Interface

° Working Temperature:  
-10°C to 180°C

Working Pressure:  
0-16 bar  
(0-10 bar for steam)

Available up to 2" - alternative terminations available.



### BSPP

0129	Thread
J4CPG1604	1/2"
J4CPG1605	3/4"
J4CPG1806	1"

Tech Sheet 121

## Bronze Angle Seat Valve with NAMUR Interface

° Working Temperature:  
-10°C to 180°C

Working Pressure:  
0-16 bar  
(0-10 bar for steam)

Available up to 2" - alternative terminations available.



### BSPP

0129	Thread
J9CPG1603	3/8"
J9CPG1604	1/2"
J9CPG1605	3/4"
J9CPG1806	1"

Tech Sheet 121