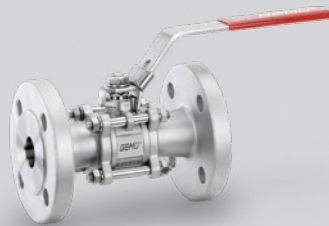


GEMÜ



**Process Valves
Symbols/Icons**

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Explanation

Important information

New logical symbols for process valves

At the request of the plant designers and design engineers, we must address the question of workably collating the symbols for process valves from the wealth of existing standards and records. It transpires that a wide range of symbolism does indeed exist within the various standards, but this is especially pronounced for the respective scope of application of the standard (e.g. standard for fire protection equipment DIN 19 227 Part 2, standard for thermal power plants DIN 2481, EN ISO 10 628, EN 62424/ISO 3511 and ISA 5.1. Flow chart for processing plants). Sometimes different representations are defined there for the same valve and actuation type. The existing attributes are frequently insufficient and the focus is in another place in accordance with the respective standard. For this reason, the gap was bridged specially for the requirements of process engineering plant engineering and the area of process valve technology, and a new symbolism developed tailored to this area of application.

Designs

To support CAD systems, the symbols are also made available in electronic format for download:
www.gemu-group.com/download&support.

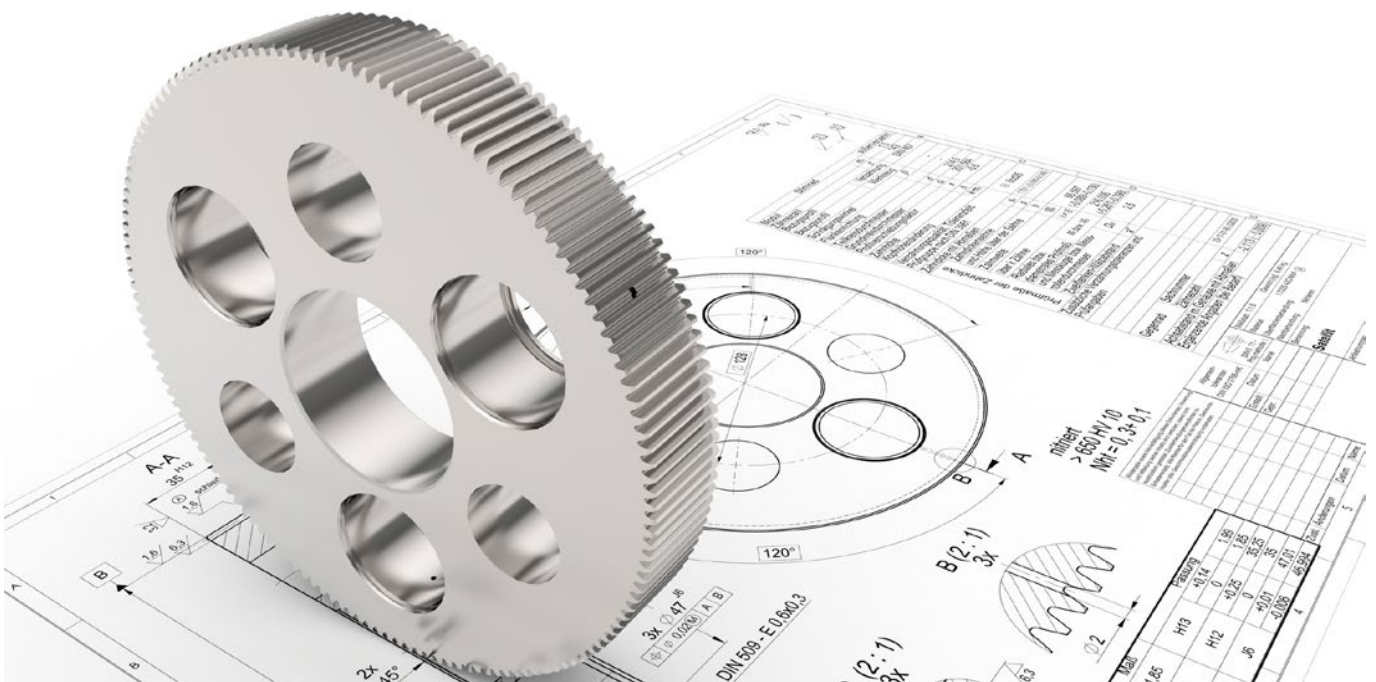
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Key

Functional principle/valve design

Actuator/operation

Control function

0000_00_00

Functional principle/valve design

Design for 3-way plug and ball valves

Actuator/operation

Control function

0000_00_00_00

Functional principles of valves

Product group		Code
Globe valve	Straight seat	VGS
	Angle seat	VGA
	Multi-port	VGM
	Angled design	VGC
Weir type diaphragm valve	Straight 2/2-way	VDS
	Tank installation	VDB
	Angled design	VDC
	T design	VDT
Diaphragm globe valve	Straight 2/2-way	VPDS
	Tank installation	VPDB
	Angled design	VPDC
	T design	VPDT
Full bore diaphragm valve	Full bore design	VDFS
Ball valve	Straight 2/2-way	VBS
	Multi-port/T-port	VBM_T
	Multi-port/L-port	VBM_L
Butterfly valve	Straight 2/2-way	VBFS
Check valve		VBFS_PO
Gate valve	Straight 2/2-way	VGAS
Pinch valves	Straight 2/2-way	VHS
Plug valve	Straight 2/2-way	VPS
	Multi-port design T	VPM_T
	Multi-port design L	VPM_L

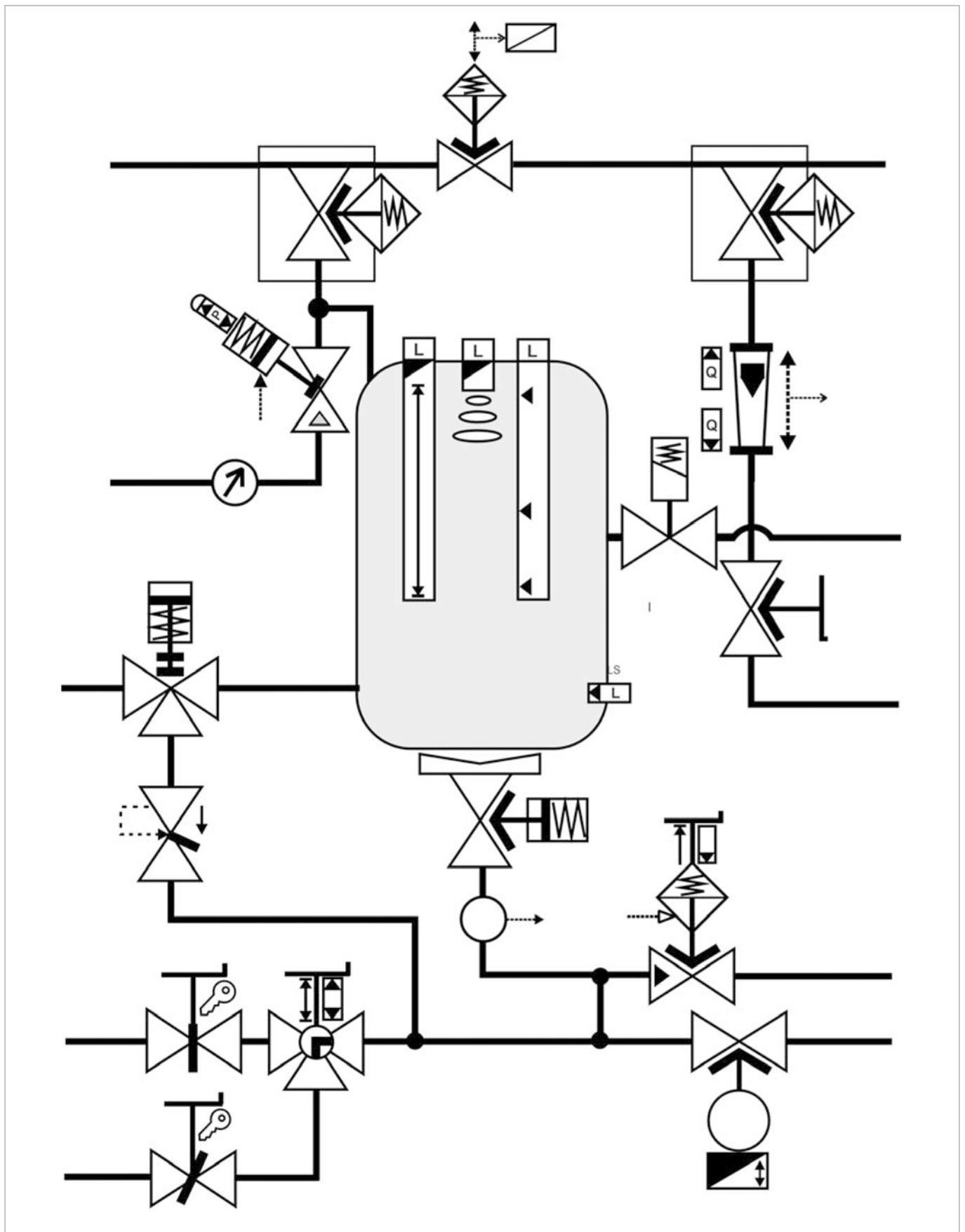
Valve actuator

Product group		Code
Manual	Manually operated	MH
	Via gearbox	MG
Electromagnetic		SE
Pneumatic	Piston actuated	PP
	Membrane actuated	PD
Hydraulic	Piston actuated	HP
	Membrane actuated	HD
Actuated with electric motor		ME

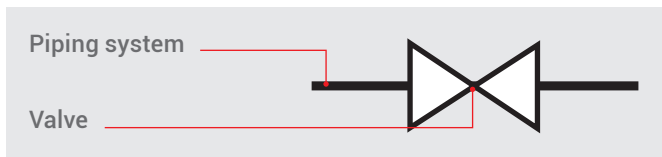
Valve control function

	Code
Manual	00
Pneumatic, normally closed	10
Pneumatic, normally open	20
Pneumatic, double acting	30
Motorized	61
Motorized with position sensor	62
Motorized with positioner	63
Motorized with process controller	64
Motorized with process controller and fieldbus connection	65

Example of an operational scheme



Symbols for process valves



General symbol for 2/2-way valves without correlation of a functional principle and the actuation type.

Globe valve_straight seat_2_2_D	Globe valve_angle seat_2_2_D	Globe valve_multi-port_3_2_M	Globe valve_angled design_2_2_E
Diaphragm valve_weir_2_2_D	Diaphragm valve_weir_tank installation_2_2_B	Diaphragm valve_weir_angled design_2_2_E	Diaphragm valve_weir_multi-port_3_2_T
Diaphragm globe valve_straight_2_2_D	Diaphragm globe valve_tank installation_2_2_B	Diaphragm globe valve_angled design_2_2_E	Diaphragm globe valve_multi-port_3_2_T
Ball valve_2_2_D	Ball valve_multi-port_3_2_T	Ball valve_multi-port_3_2_L	Diaphragm valve_full bore_2_2_D
Butterfly valve_2_2_D	Check valve_2_2_D	Gate valve_2_2_D	Pinch valve_2_2_D
Plug valve_2_2_D	Plug valve_multi-port_3_2_T	Plug valve_multi-port_3_2_L	

Symbols for actuators

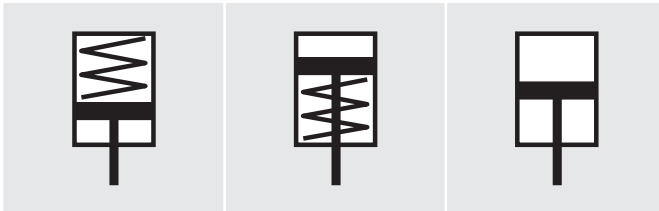


Actuator_MH_00

Actuator_MH_00

Manual operator

- Directly manually operated
- Manually operated via gearbox/servo



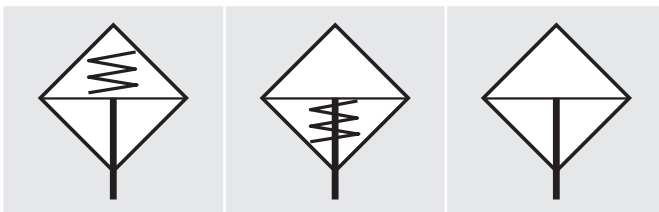
Actuator_PP_10

Actuator_PP_20

Actuator_PP_30

Pneumatic/hydraulic actuator, piston actuated

- Normally closed
- Normally open
- Double acting



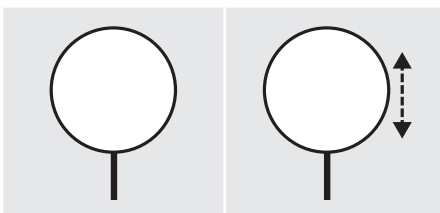
Actuator_PD_10

Actuator_PD_20

Actuator_PD_30

Pneumatic/hydraulic actuator, membrane actuated

- Normally closed
- Normally open
- Double acting



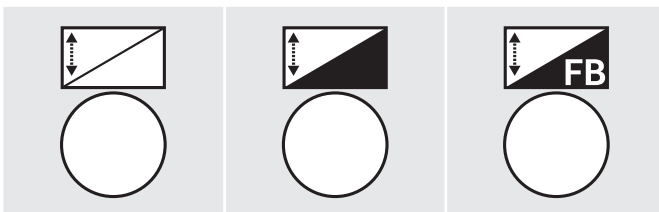
Actuator_ME_61

Actuator_ME_61

Electrical motorized actuator

- AC/DC
- AC/DC with position feedback

The voltage type and the voltage size must be entered into the symbol of the motorized actuators (e.g. DC/24 V)



Actuator_ME_63

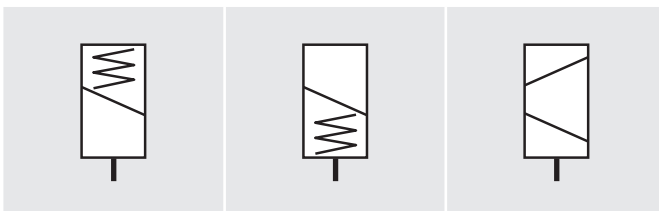
Check valve_2_2_D

Gate valve_2_2_D

Electrical motorized actuator with integrated controllers

- AC/DC with positioner
- AC/DC with process controller
- AC/DC with process controller and fieldbus

The voltage type and the voltage size must be entered into the symbol of the motorized actuators (e.g. DC/24 V)



Actuator_SE_10

Actuator_SE_20

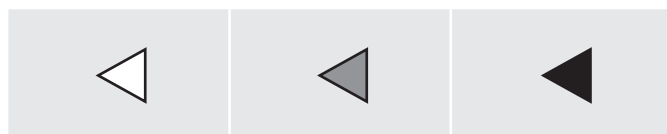
Actuator_SE_30

Electrical coil

- AC/DC – normally closed
- AC/DC – normally open
- AC/DC – double acting

The voltage type and the voltage size must be entered on the right of the symbol of the coils (e.g. DC/24 V)

Additional symbols



fd_gas

fd_steam

fd_liquid

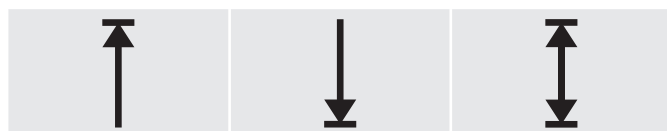


Hydraulic

Pneumatic



Lockable



stl_o

stl_c

stl_oc



EPI_oc

EPI_o

EPI_c



EPIO_oc

EPIO_o

EPIO_c



CBA

FB

FBA

Flow direction and type of working medium

On the left: Gas, Centre: Steam, On the right: Liquid

Control lines of the actuators and type of control medium

On the left: Hydraulic, On the right: Pneumatic

Lockability of a valve

Mechanical stroke limiters with actuators

On the left: Opening stroke, Centre: Closing stroke, On the right: Opening and closing stroke

Electrical position indicators

On the left: Both end positions, Centre: End position open, On the right: End position closed

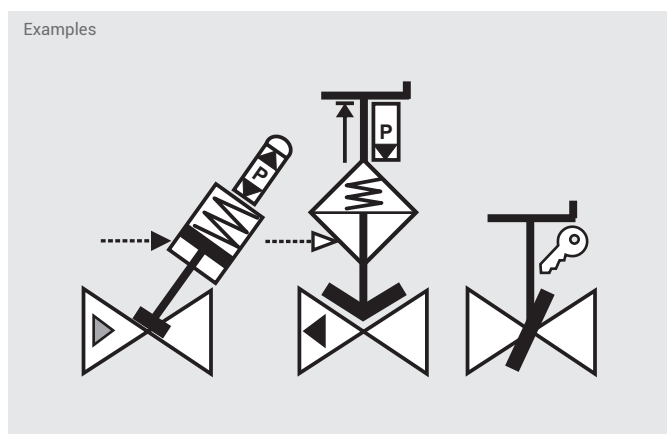
Electrical position indicators

Wiring as stated above, but with integrated optical position indicator (mechanical or with light source).

Combi switchbox and fieldbus connection for pneumatic valves

On the left: Analogue combi switchbox with pilot valve, Centre: Electronic fieldbus connection, On the right: Electronic fieldbus connection with pilot valve

Examples



From left to right:

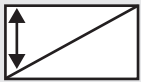
Globe valve flow under the seat, working medium steam, hydraulically actuated "normally closed" piston actuator and electrical position indicator for both end positions/with optical indication.

Diaphragm valve with stated flow direction for liquid working media, pneumatically operated membrane actuated "normally closed" actuator, manual override and stroke limiter for "open" valve position and electrical position indicator for the "closed" end position.

Butterfly valve with lockable manual operator.

Positioner/process controller

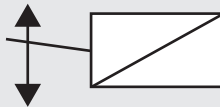
P: Positioner	D: Directly installed on actuator
PC: Process controller	S: Separately installed
M: Mechanical travel transmission	I: Integrated into the actuator or separately installed
E: Electronic travel transmission	



P_E_IS

Positioner, electrical

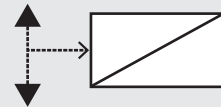
Integrated into the motorized actuator or for separate installation



P_M_D

Positioner, electro-pneumatic

With mechanical travel transmission for direct installation on the actuator



P_E_DS

Positioner, electro-pneumatic

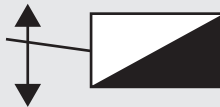
With electronic travel transmission for direct installation on the actuator or separate installation



PC_IS

Process controller, electrical

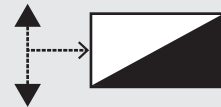
Integrated into the motorized actuator or for separate installation



P_PC_M_D

Process controller, electro-pneumatic

With mechanical travel transmission for direct installation on the actuator

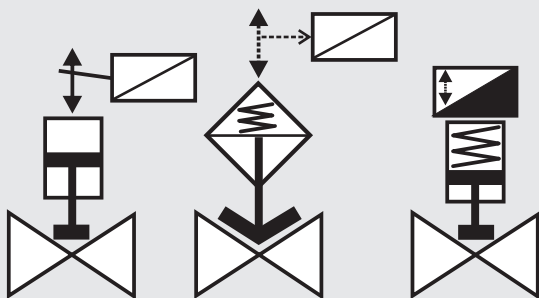


P_PC_E_DS

Process controller, electro-pneumatic

With electronic travel transmission for direct installation on the actuator or separate installation

Examples



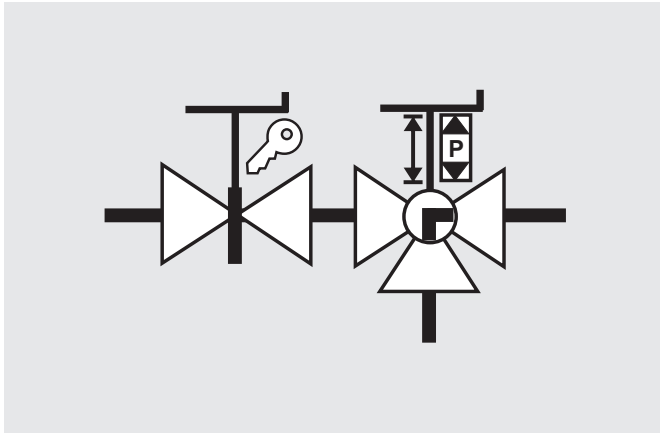
From left to right:

"Double acting" globe valve with piston actuated operator and directly mounted electro-pneumatic positioner with mechanical travel detection (actual value/valve position).

"Normally closed" diaphragm valve with membrane actuated operator and directly or separately assigned electro-pneumatic positioner with electronic travel detection.

"Normally closed" globe valve with directly mounted positioner/process controller with integrated travel detection.

Examples

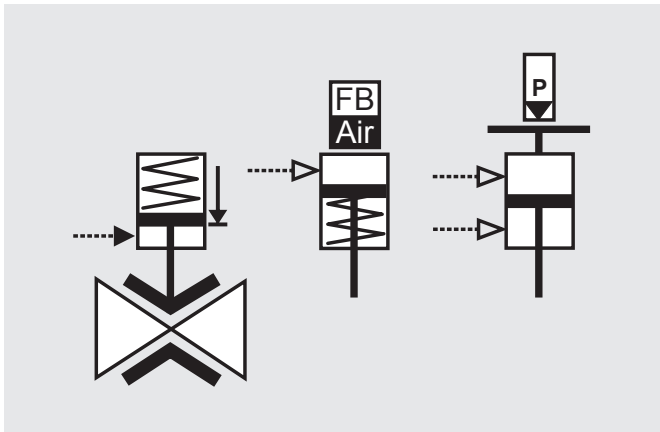


Manual operators

From left to right:

Gate valve in straight design with lockable manual operator.

Ball valve in 3-way version with "L-port" and travel limiter on both sides (travel stop) and an electrical position indicator for both end positions.



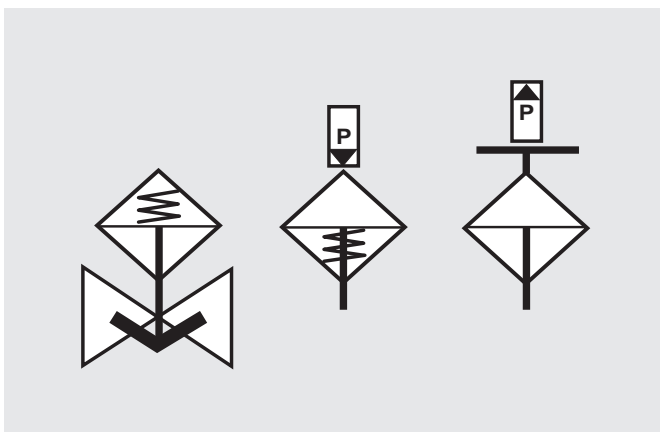
Piston actuated pneumatic/hydraulic actuators

From left to right:

Hydraulically actuated "normally closed" pinch valve with stroke limiter in "closed" position.

Pneumatic "normally open" piston actuator with control air integrated fieldbus connection.

Pneumatically operated "double acting" piston actuator with manual override and electrical position indicator for the "closed" end position.



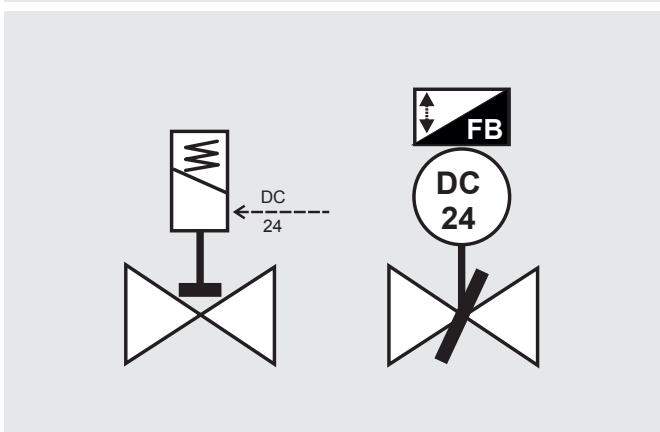
Membrane actuated pneumatic/hydraulic actuators

From left to right:

"Normally closed" full bore diaphragm valve.

"Normally open" with electrical position indicator for both end positions.

"Double acting" with manual override and electrical position indicator for the "open" end position.



From left to right:

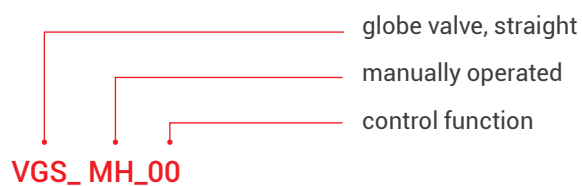
Electrically operated coil

Globe valve in straight design with straight seat. The solenoid is actuated with 24 volts of DC voltage. The actuator locks the valve in neutral position.

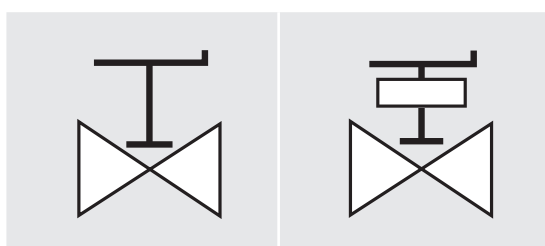
Electrically operated motorized actuator

Butterfly valve in straight design. The motorized actuator is actuated with 24 volts of DC voltage and has an integrated process controller with correcting variable output. The actuator/valve can be connected to a fieldbus system.

Straight seat 2/2-way globe valves in straight design

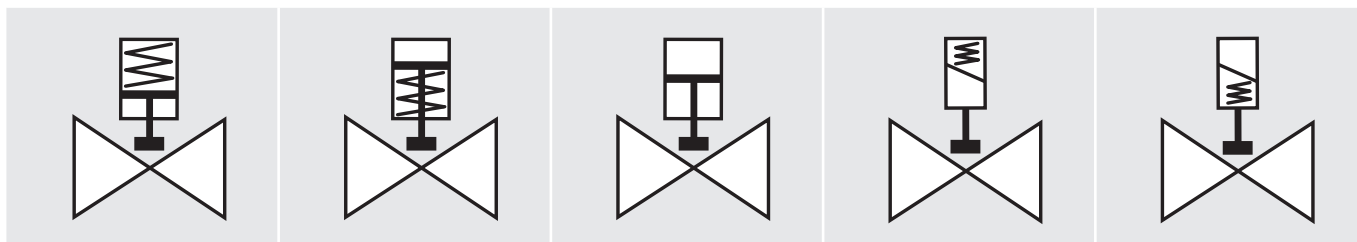


MG	manually operated by gearbox / servo
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VGS_MH_00

VGS_MG_00



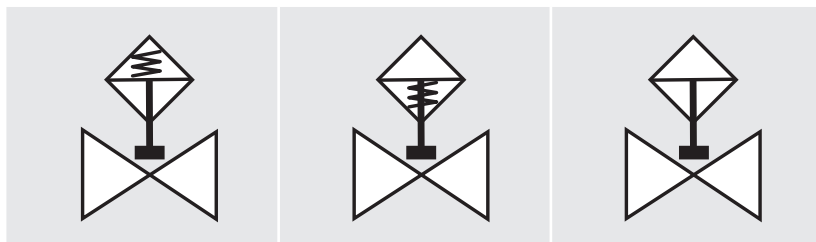
VGS_PP_10

VGS_PP_20

VGS_PP_30

VGS_SE_10

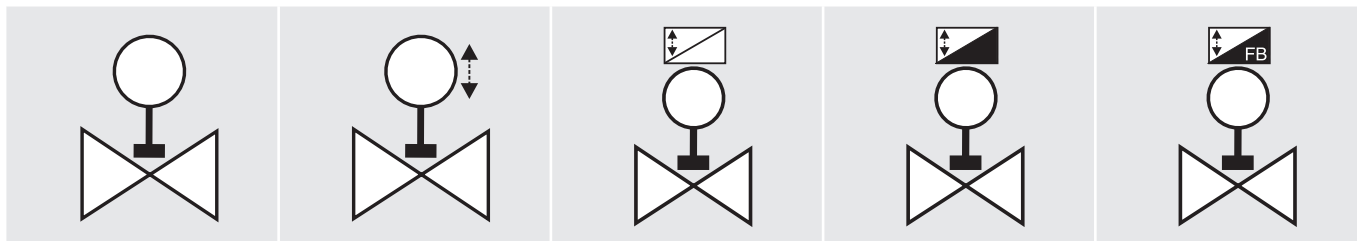
VGS_SE_20



VGS_PD_10

VGS_PD_20

VGS_PD_30



VGS_ME_61

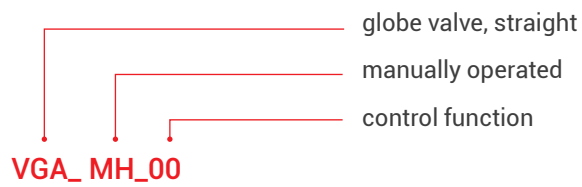
VGS_ME_62

VGS_ME_63

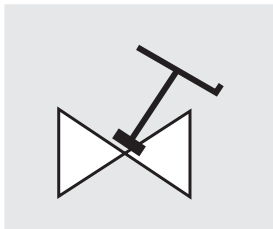
VGS_ME_64

VGS_ME_65

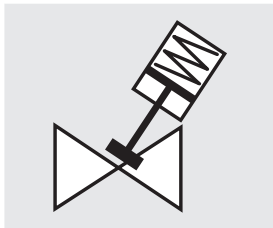
Angle seat 2/2-way globe valves in straight design



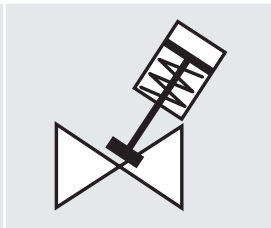
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



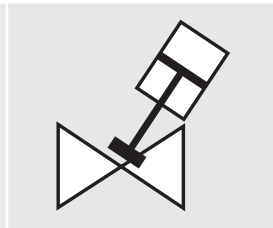
VGA_MH_00



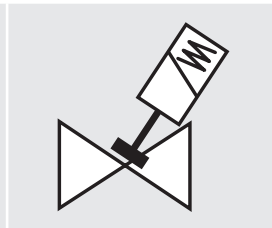
VGA_PP_10



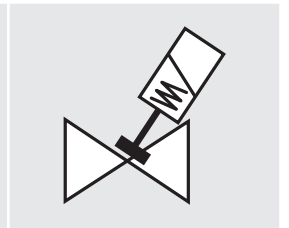
VGA_PP_20



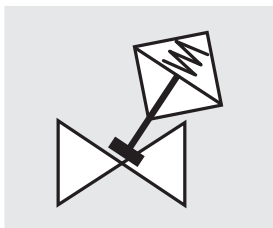
VGA_PP_30



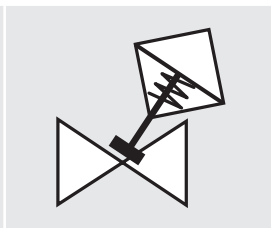
VGA_SE_10



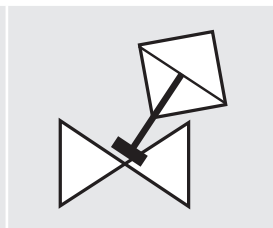
VGA_SE_20



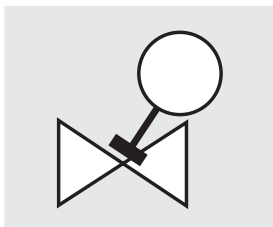
VGA_PD_10



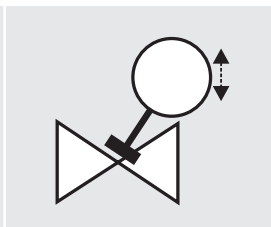
VGA_PD_20



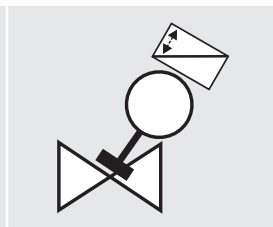
VGA_PD_30



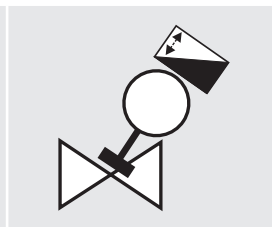
VGA_ME_61



VGA_ME_62

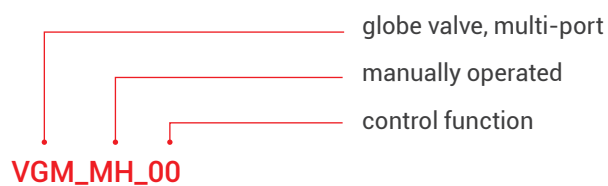


VGA_ME_63

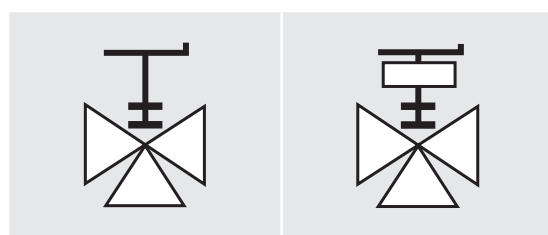


VGA_ME_64

Globe valves 3/2-way double-seat in multi-port design

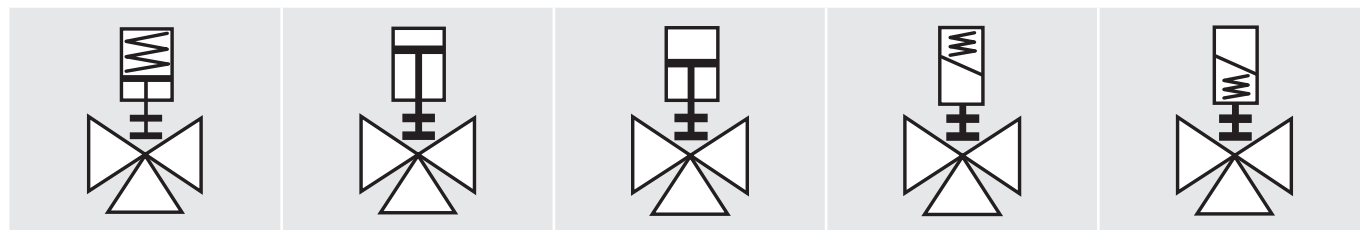


MG	manually operated by gearbox / servo
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VGM_MH_00

VGM_MG_00



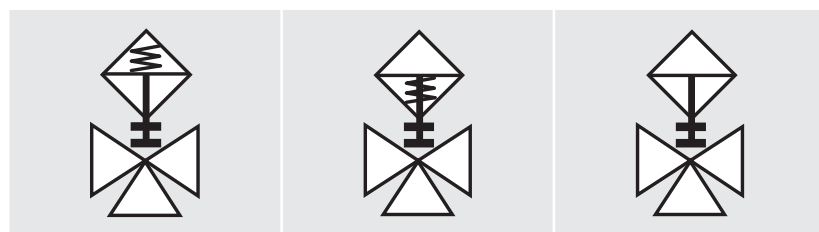
VGM_PP_10

VGM_PP_20

VGM_PP_30

VGM_SE_10

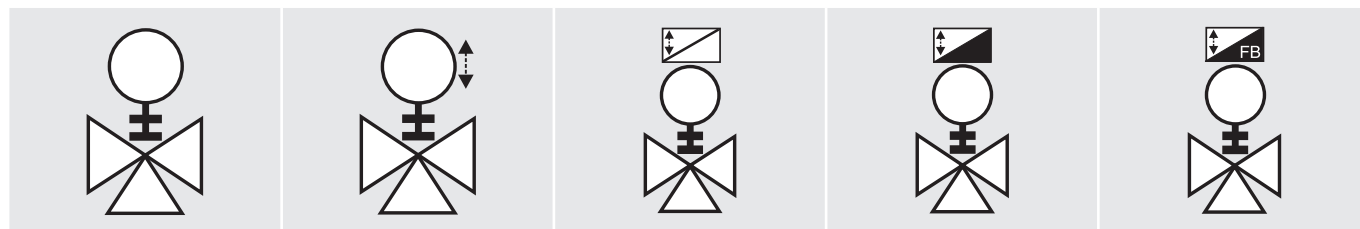
VGM_SE_20



VGM_PD_10

VGM_PD_20

VGM_PD_30



VGM_ME_61

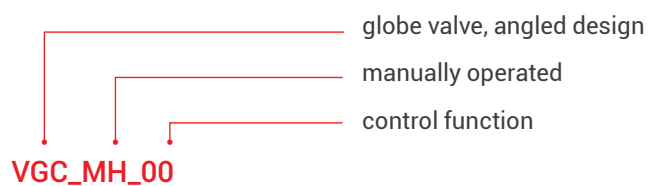
VGM_ME_62

VGM_ME_63

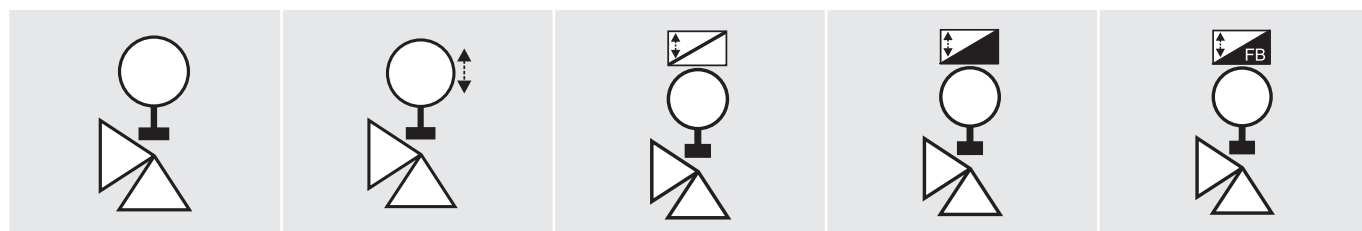
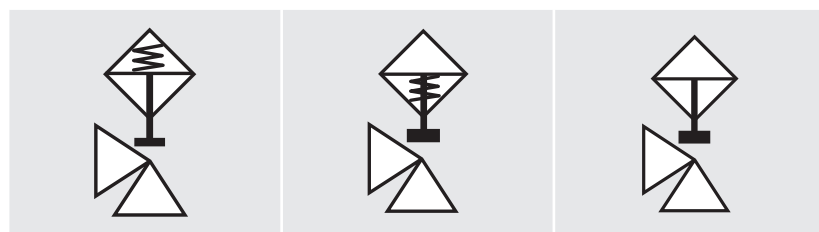
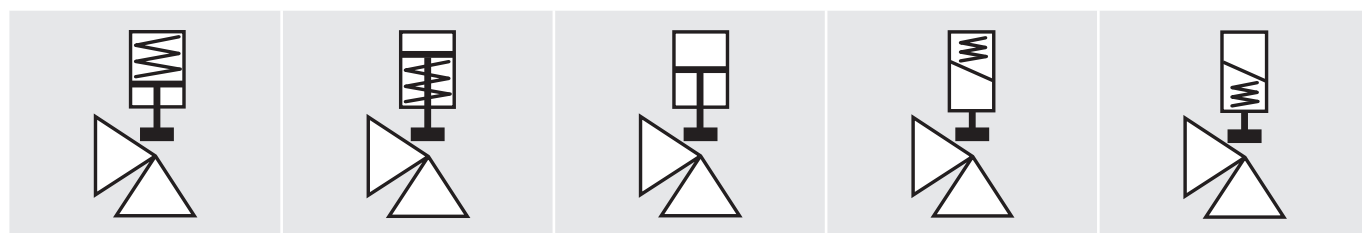
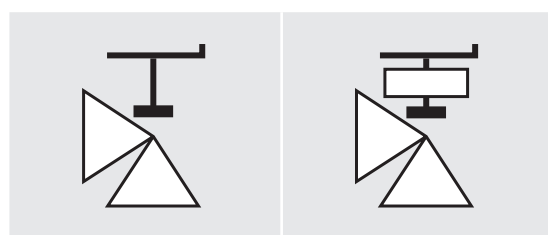
VGM_ME_64

VGM_ME_65

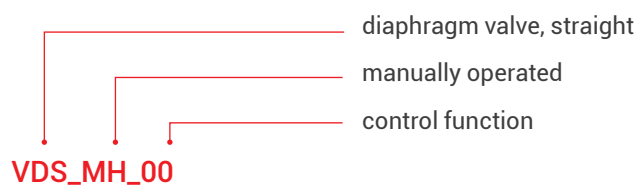
2/2-way globe valves in angled design



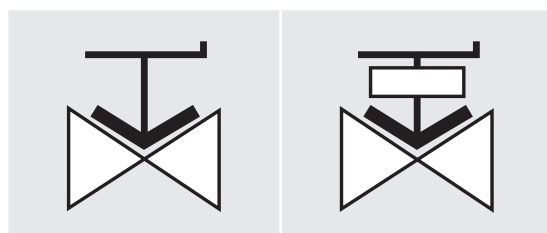
MG	manually operated by gearbox / servo
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



2/2-way diaphragm valves in weir type, with straight through body



MG	manually operated by gearbox / servo
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VDS_MH_00

VDS_MG_00



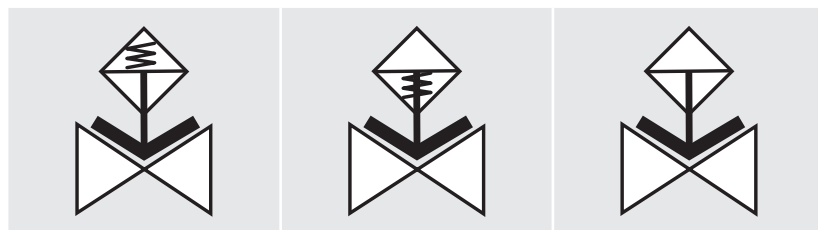
VDS_PP_10

VDS_PP_20

VDS_PP_30

VDS_SE_10

VDS_SE_20



VDS_PD_10

VDS_PD_20

VDS_PD_30



VDS_ME_61

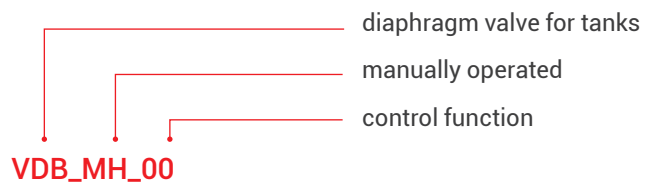
VDS_ME_62

VDS_ME_63

VDS_ME_64

VDS_ME_65

2/2-way diaphragm valves in weir type, for tank installation



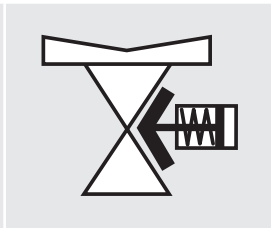
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



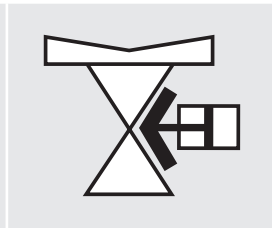
VDB_MH_00



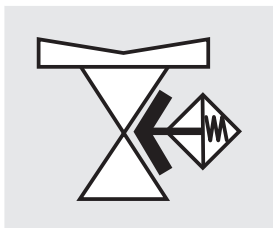
VDB_PP_10



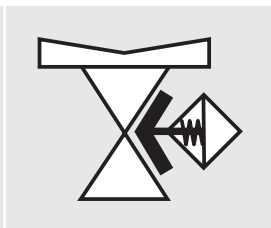
VDB_PP_20



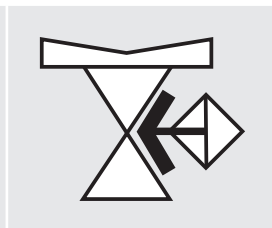
VDB_PP_30



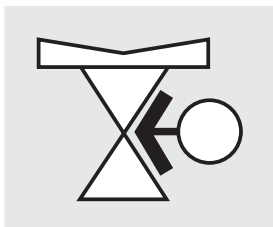
VDB_PD_10



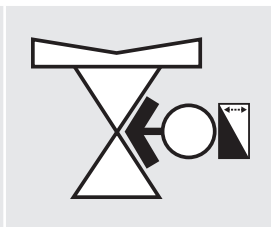
VDB_PD_20



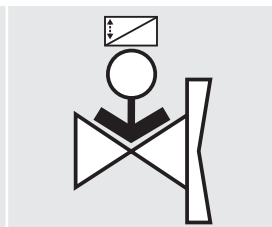
VDB_PD_30



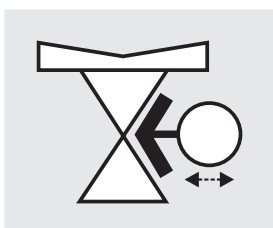
VDB_ME_61



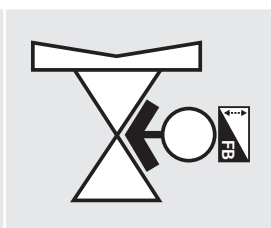
VDB_ME_64



VDB_ME_63

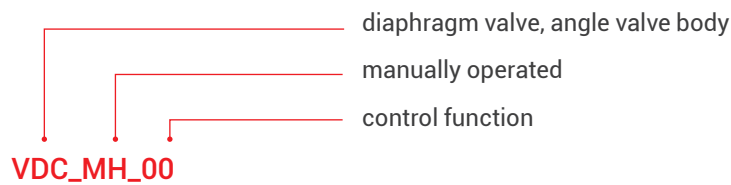


VDB_ME_62

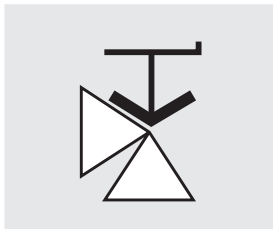


VDB_ME_65

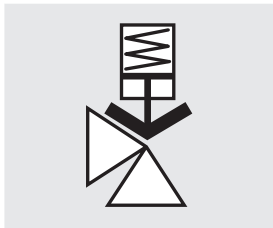
2/2-way diaphragm valves in weir type, with angle valve body



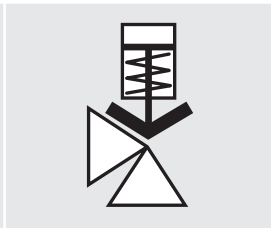
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VDC_MH_00



VDC_PP_10



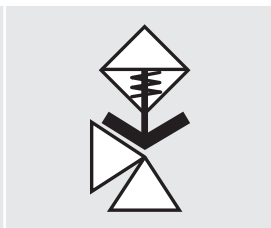
VDC_PP_20



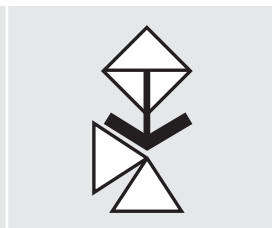
VDC_PP_30



VDC_PD_10



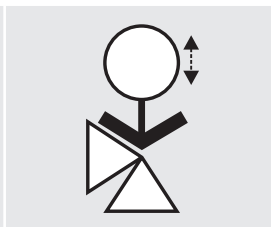
VDC_PD_20



VDC_PD_30



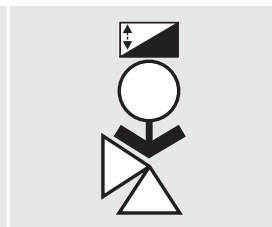
VDC_ME_61



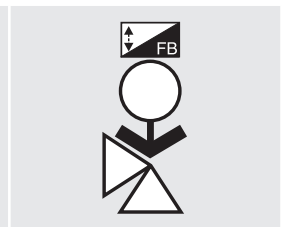
VDC_ME_62



VDC_ME_63

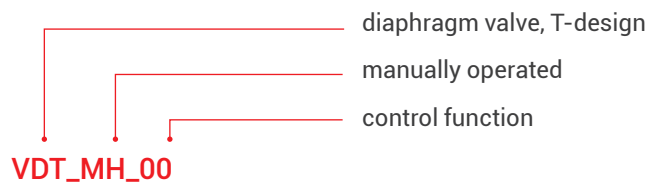


VDC_ME_64

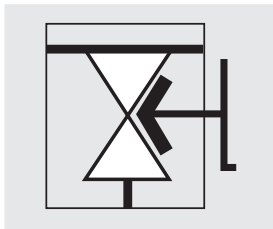


VDC_ME_65

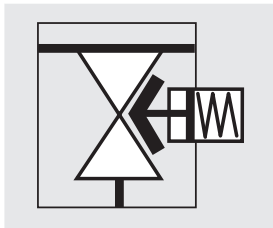
3/2-way diaphragm valves in weir type, with T body



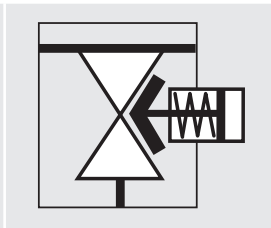
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



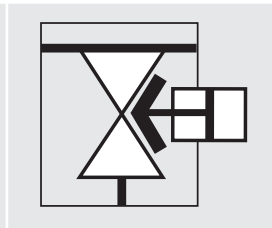
VDT_MH_00



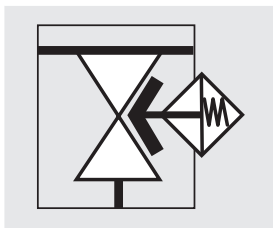
VDT_PP_10



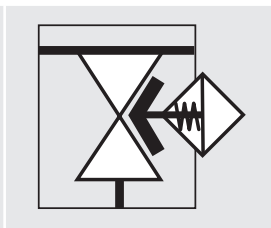
VDT_PP_20



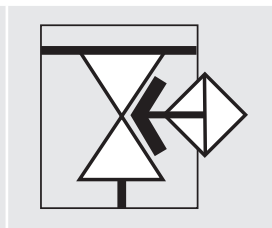
VDT_PP_30



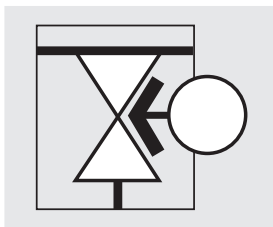
VDT_PD_10



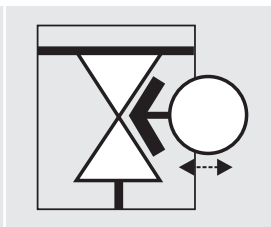
VDT_PD_20



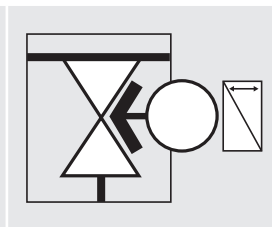
VDT_PD_30



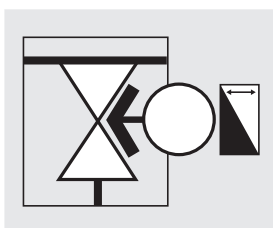
VDT_ME_61



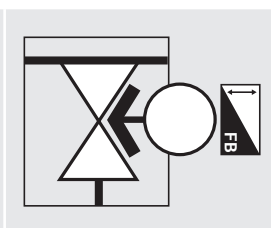
VDT_ME_62



VDT_ME_63

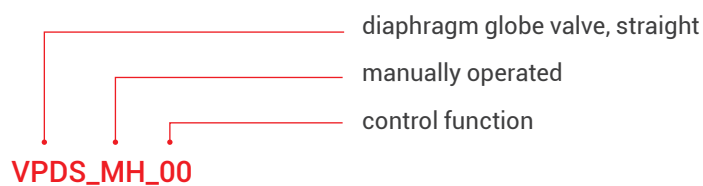


VDT_ME_64

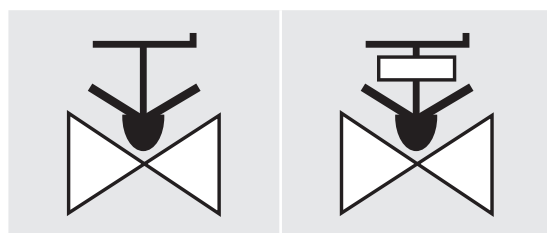


VDT_ME_65

2/2-way diaphragm globe valves with straight through body

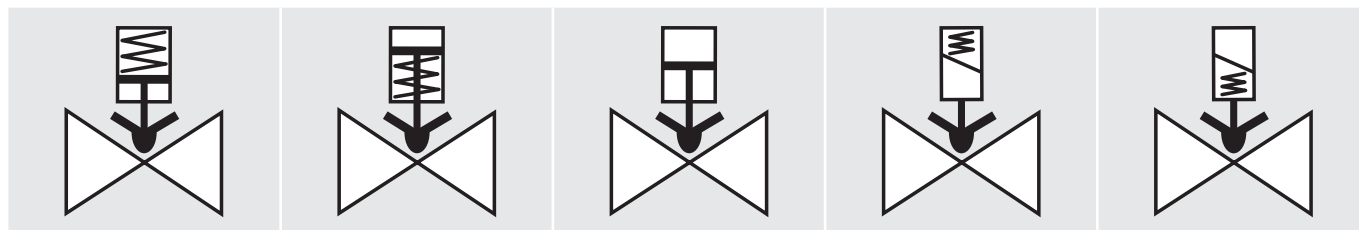


MG	manually operated by gearbox / servo
SE	solenoid
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VPDS_MH_00

VPDS_MG_00



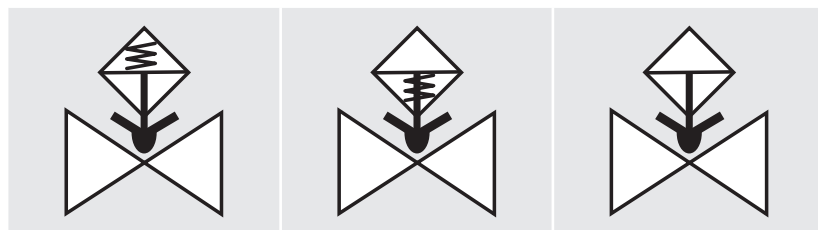
VPDS_PP_10

VPDS_PP_20

VPDS_PP_30

VPDS_SE_10

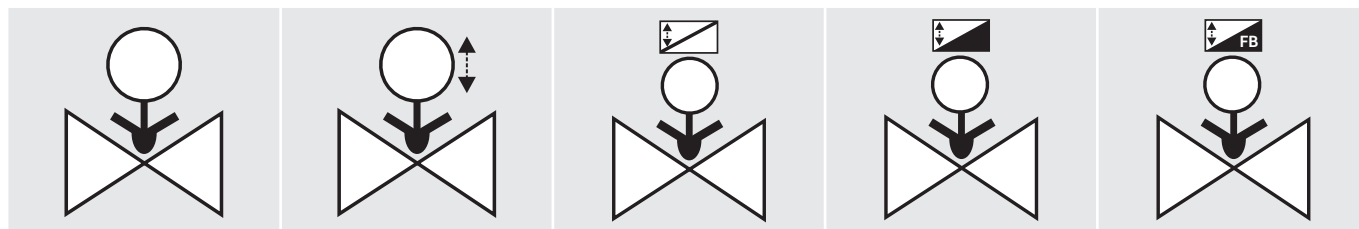
VPDS_SE_20



VPDS_PD_10

VPDS_PD_20

VPDS_PD_30



VPDS_ME_61

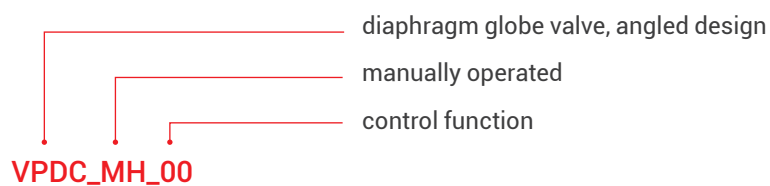
VPDS_ME_62

VPDS_ME_63

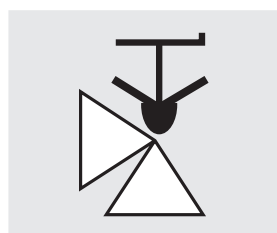
VPDS_ME_64

VPDS_ME_65

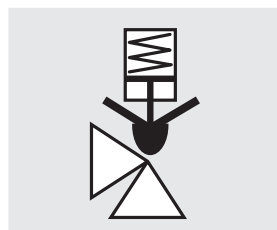
2/2-way diaphragm globe valves in angled design



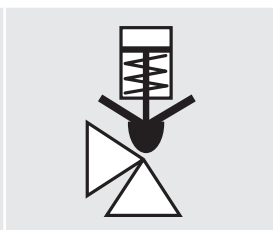
PP	pneumatically operated by piston
SE	solenoid
PD	pneumatically operated by membrane
ME	motorized



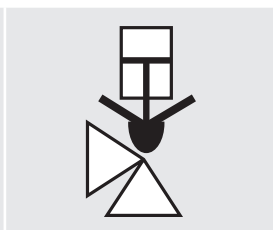
VPDC_MH_00



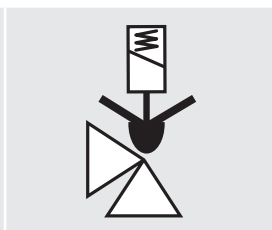
VPDC_PP_10



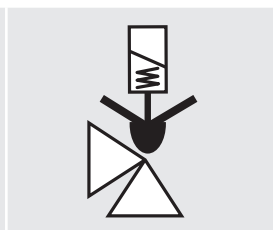
VPDC_PP_20



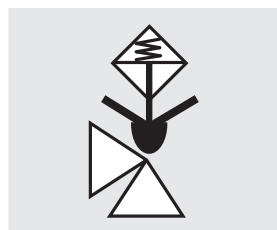
VPDC_PP_30



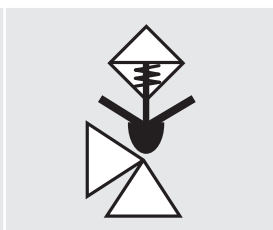
VPDC_SE_10



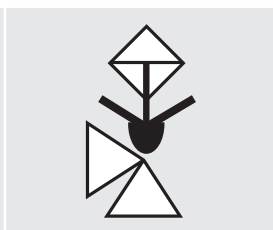
VPDC_SE_20



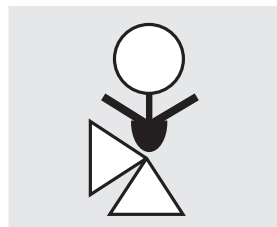
VPDC_PD_10



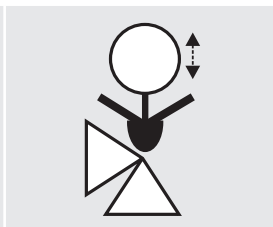
VPDC_PD_20



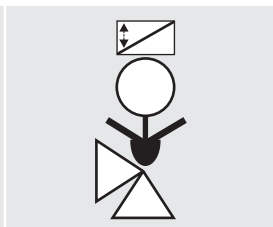
VPDC_PD_30



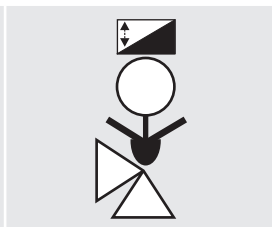
VPDC_ME_61



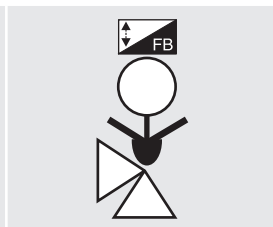
VPDC_ME_62



VPDC_ME_63

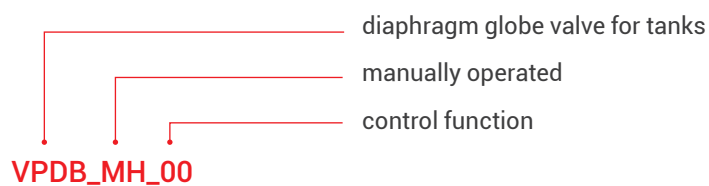


VPDC_ME_64

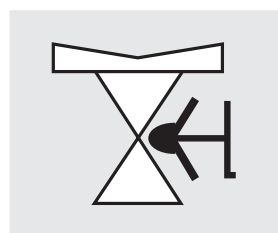


VPDC_ME_65

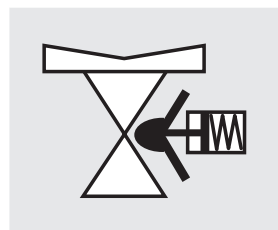
2/2-way diaphragm globe valves for tank installation



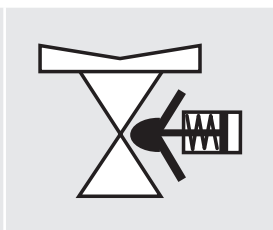
PP	pneumatically operated by piston
SE	solenoid
PD	pneumatically operated by membrane
ME	motorized



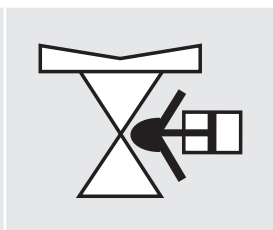
VPDB_MH_00



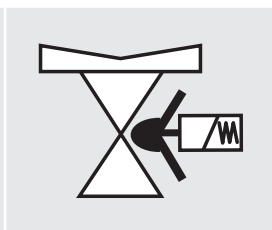
VPDB_PP_10



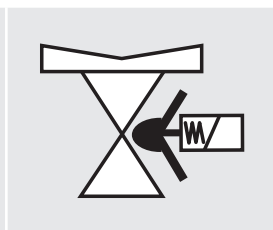
VPDB_PP_20



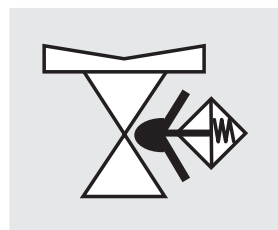
VPDB_PP_30



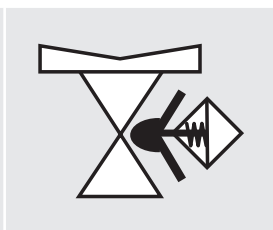
VPDB_SE_10



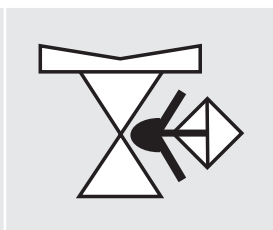
VPDB_SE_20



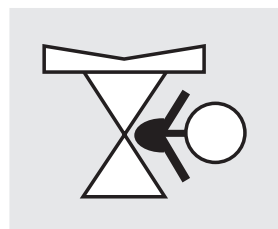
VPDB_PD_10



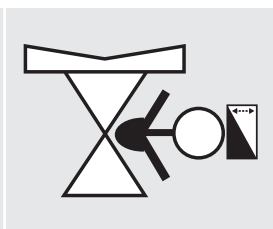
VPDB_PD_20



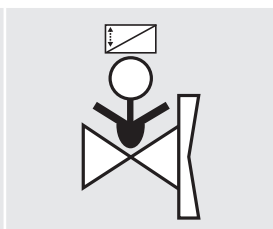
VPDB_PD_30



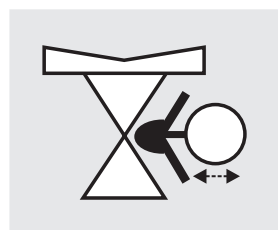
VPDB_ME_61



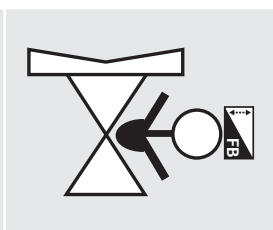
VPDB_ME_64



VPDB_ME_63

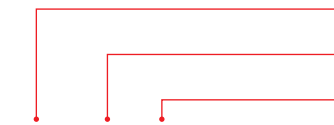


VPDB_ME_62



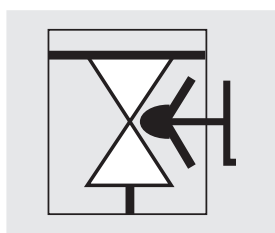
VPDB_ME_65

3/2-way diaphragm globe valves with T body

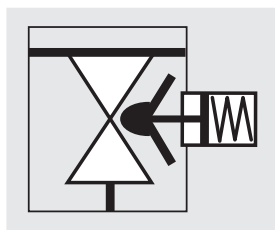

 diaphragm globe valve, T-design
 manually operated
 control function

VPDT_MH_00

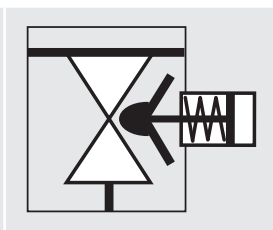
PP	pneumatically operated by piston
SE	solenoid
PD	pneumatically operated by membrane
ME	motorized



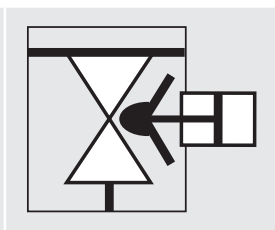
VPDT_MH_00



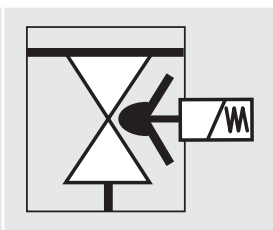
VPDT_PP_10



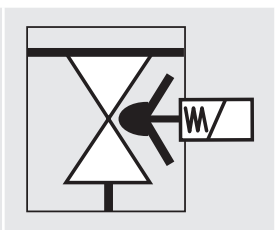
VPDT_PP_20



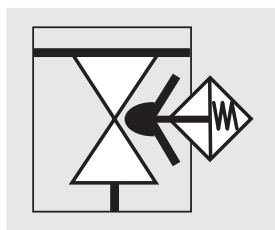
VPDT_PP_30



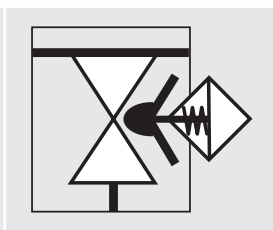
VPDT_SE_10



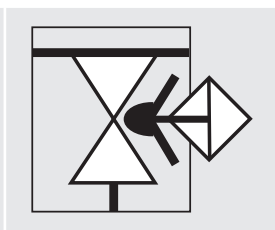
VPDT_SE_20



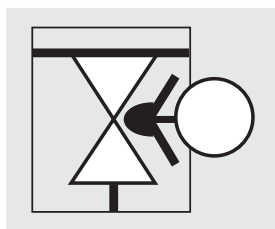
VPDT_PD_10



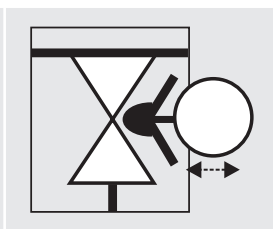
VPDT_PD_20



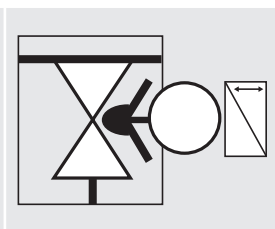
VPDT_PD_30



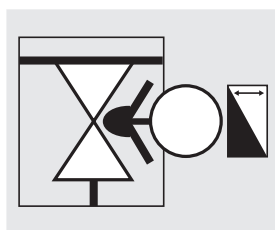
VPDT_ME_61



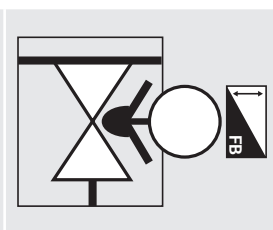
VPDT_ME_62



VPDT_ME_63



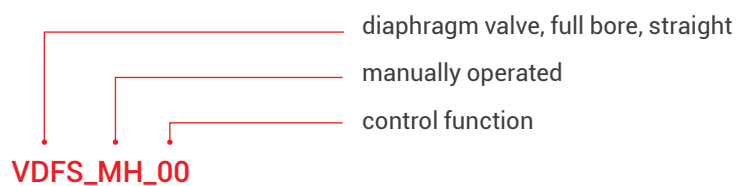
VPDT_ME_64



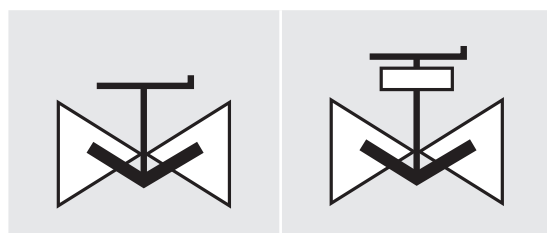
VPDT_ME_65

2/2-way diaphragm valves

full bore design, with straight through body

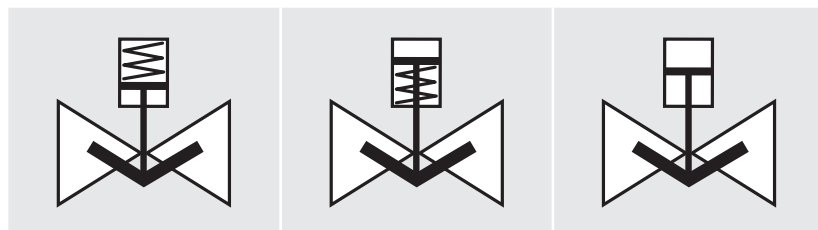


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



VDFS_MH_00

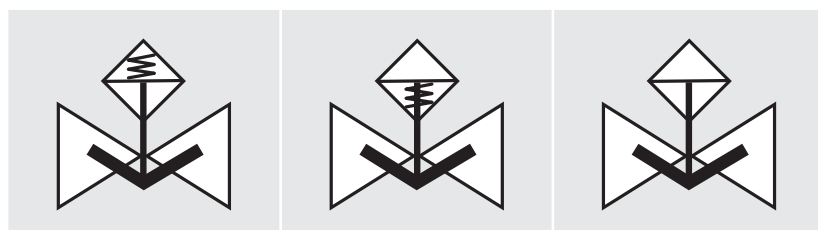
VDFS_MG_00



VDFS_PP_10

VDFS_PP_20

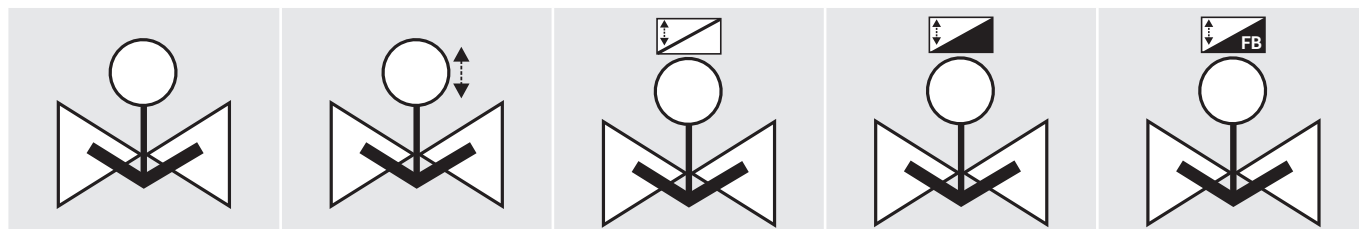
VDFS_PP_30



VDFS_PD_10

VDFS_PD_20

VDFS_PD_30



VDFS_ME_61

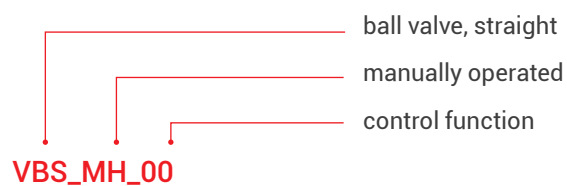
VDFS_ME_62

VDFS_ME_63

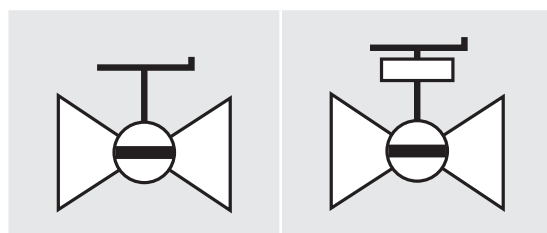
VDFS_ME_64

VDFS_ME_65

2/2-way ball valves in straight design

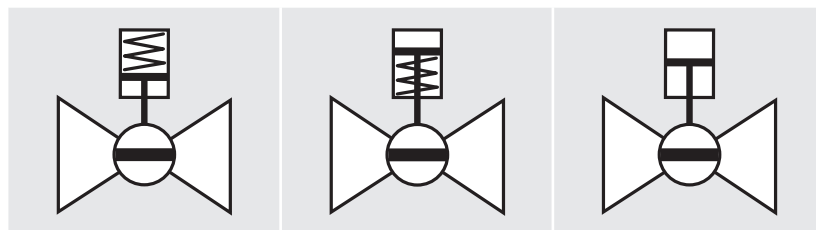


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VBS_MH_00

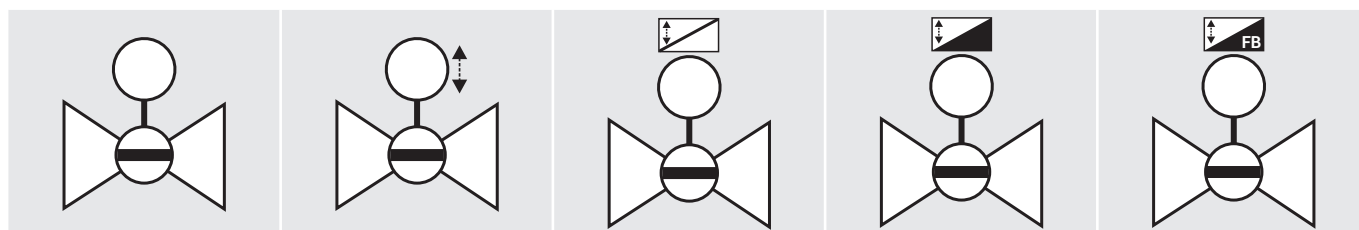
VBS_MG_00



VBS_PP_10

VBS_PP_20

VBS_PP_30



VBS_ME_61

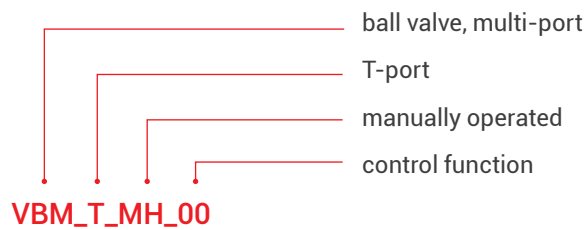
VBS_ME_62

VBS_ME_63

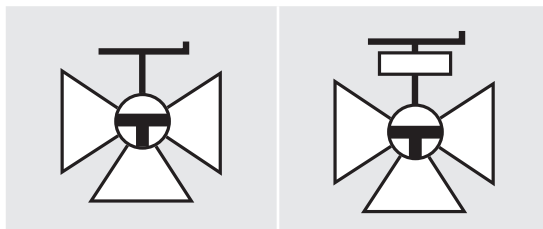
VBS_ME_64

VBS_ME_65

3/2-way ball valves with T-port, in multi-port design

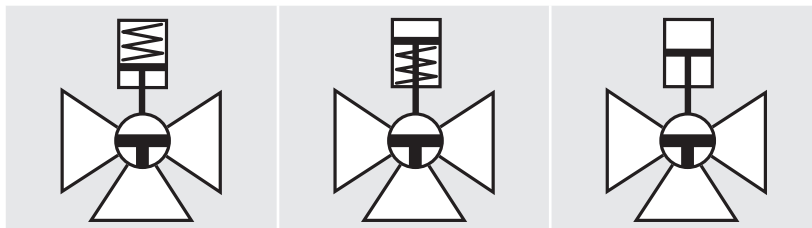


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VBM_T_MH_00

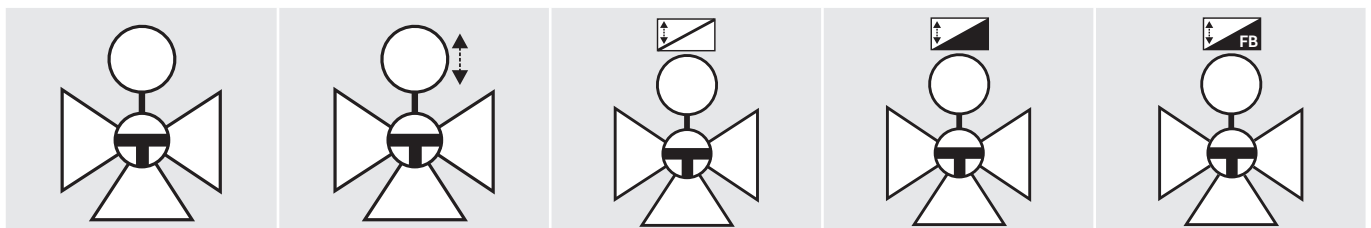
VBM_T_MG_00



VBM_T_PP_10

VBM_T_PP_20

VBM_T_PP_30



VBM_T_ME_61

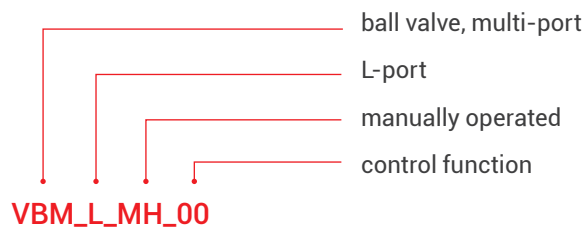
VBM_T_ME_62

VBM_T_ME_63

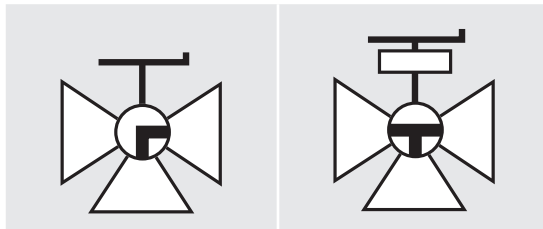
VBM_T_ME_64

VBM_T_ME_65

3/2-way ball valves with L-port, in multi-port design

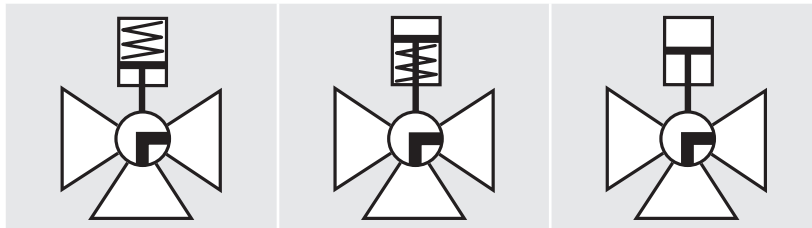


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VBM_L_MH_00

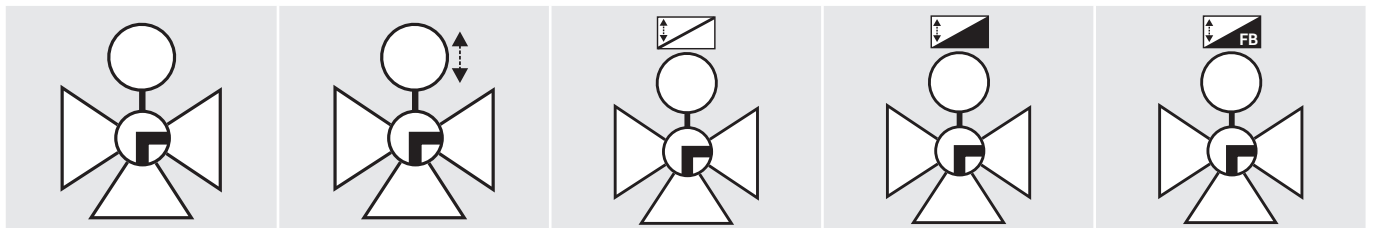
VBM_L_MG_00



VBM_L_PP_10

VBM_L_PP_20

VBM_L_PP_30



VBM_L_ME_61

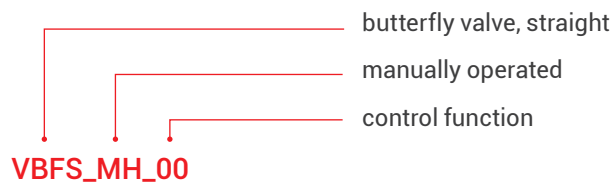
VBM_L_ME_62

VBM_L_ME_63

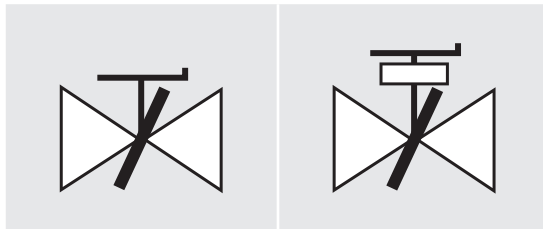
VBM_L_ME_64

VBM_L_ME_65

2/2-way butterfly valves in straight design

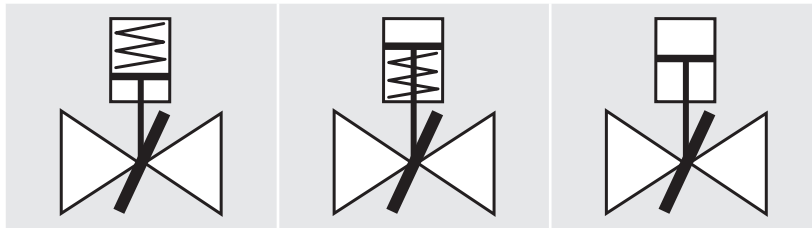


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VBFS_MH_00

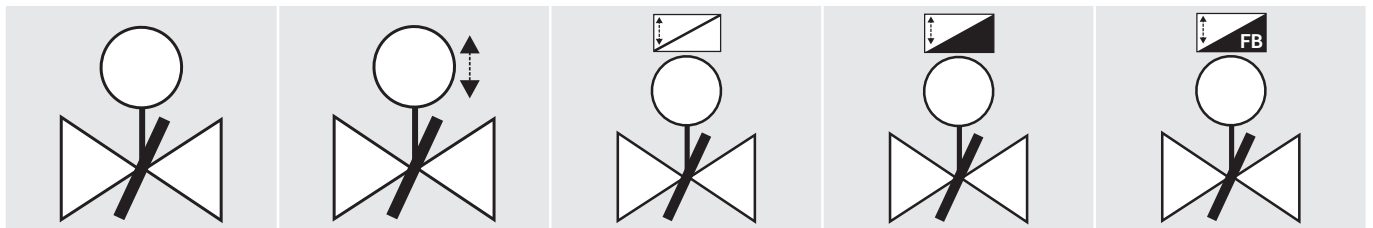
VBFS_MG_00



VBFS_PP_10

VBFS_PP_20

VBFS_PP_30



VBFS_ME_61

VBFS_ME_62

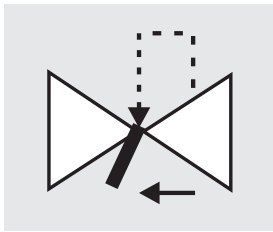
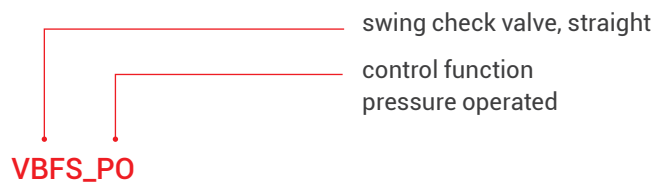
VBFS_ME_63

VBFS_ME_64

VBFS_ME_65

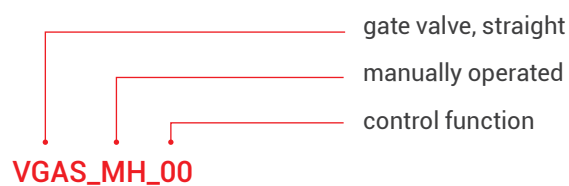
2/2-way check valves

Swing check valve, in straight design

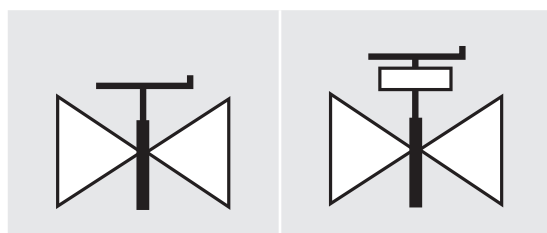


VBFS_PO

2/2-way gate valves in straight design

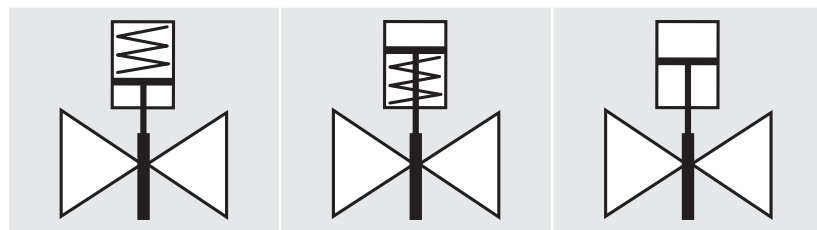


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VGAS_MH_00

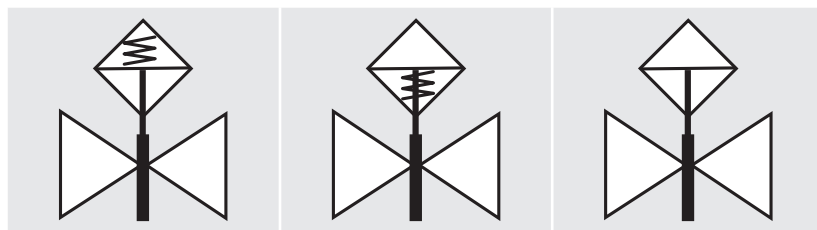
VGAS_MG_00



VGAS_PP_10

VGAS_PP_20

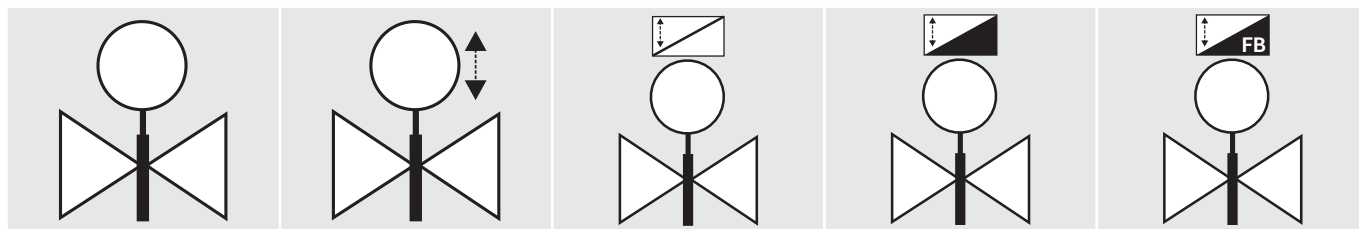
VGAS_PP_30



VGAS_PD_10

VGAS_PD_20

VGAS_PD_30



VGAS_ME_61

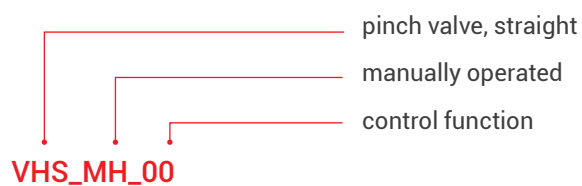
VGAS_ME_62

VGAS_ME_63

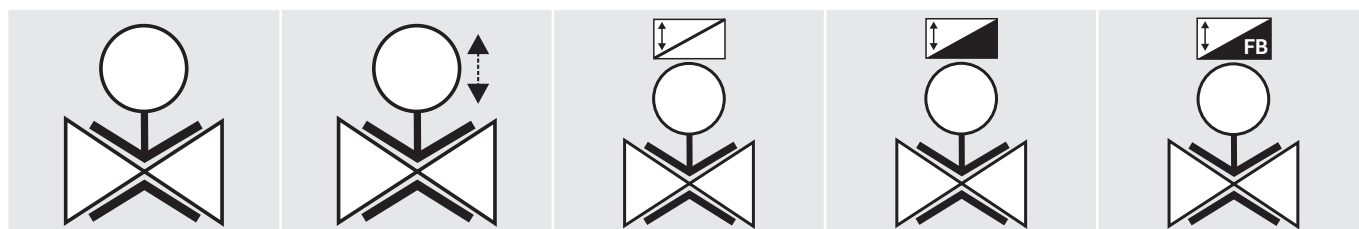
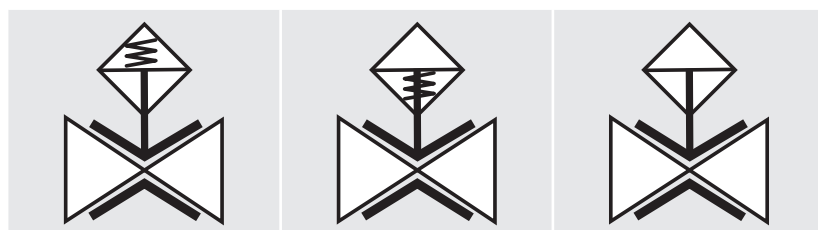
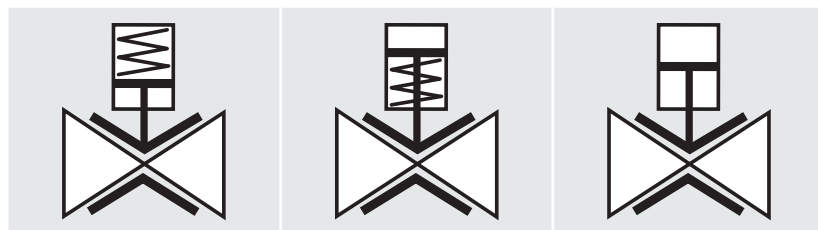
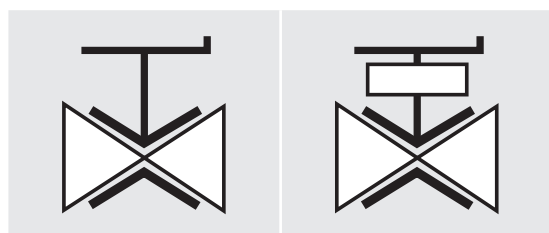
VGAS_ME_64

VGAS_ME_65

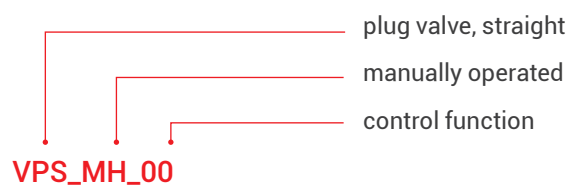
2/2-way pinch valves in straight design



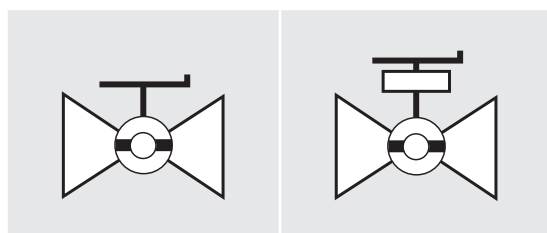
MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
PD	pneumatically operated by membrane
ME	motorized



2/2-way plug valves in straight design

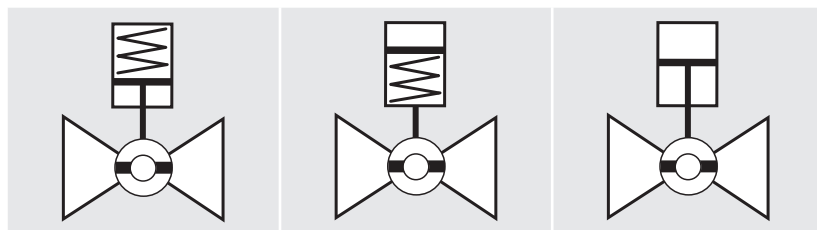


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VPS_MH_00

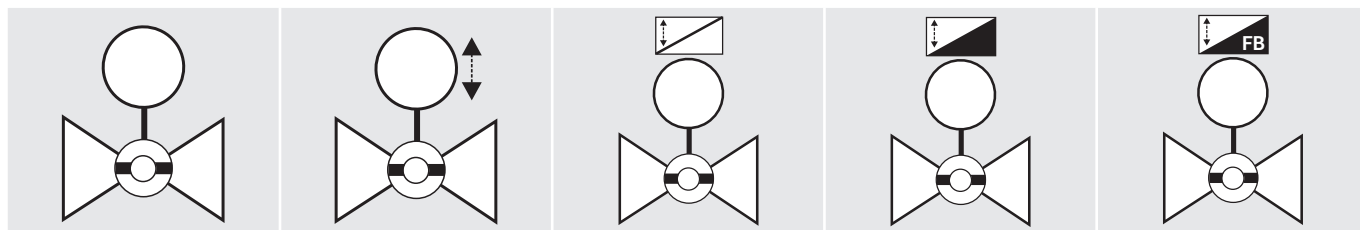
VPS_MG_00



VPS_PP_10

VPS_PP_20

VPS_PP_30



VPS_ME_61

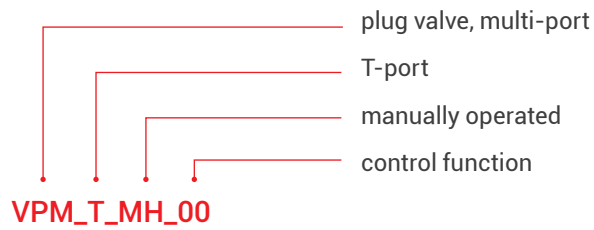
VPS_ME_62

VPS_ME_63

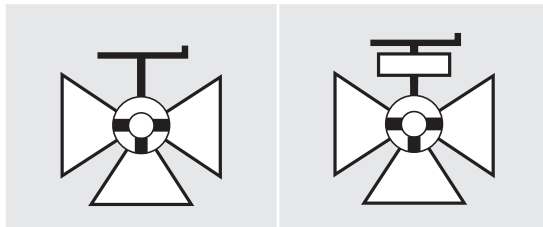
VPS_ME_64

VPS_ME_65

3/2-way plug valves with T-port, in multi-port design

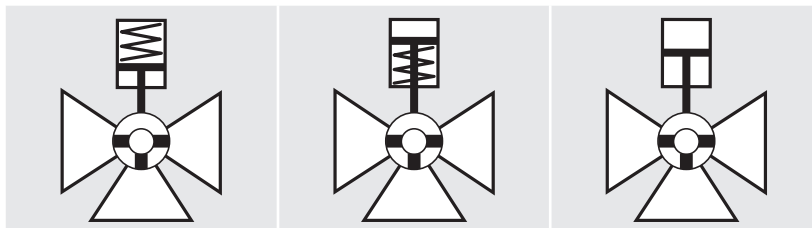


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VPM_T_MH_00

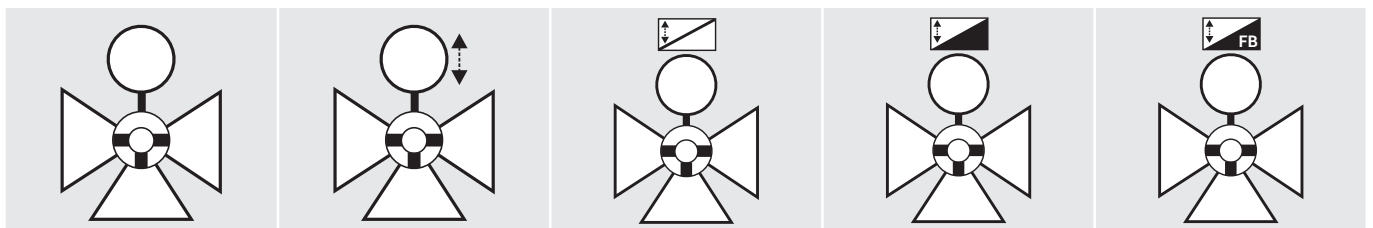
VPM_T_MG_00



VPM_T_PP_10

VPM_T_PP_20

VPM_T_PP_30



VPM_T_ME_61

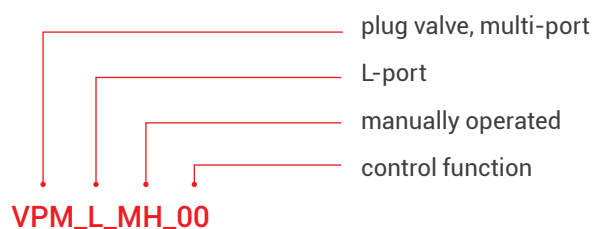
VPM_T_ME_62

VPM_T_ME_63

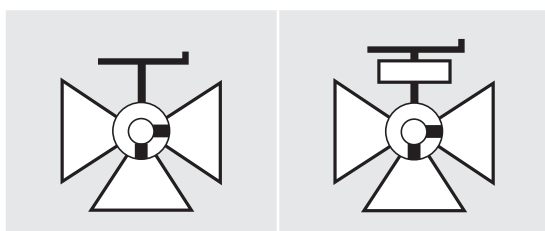
VPM_T_ME_64

VPM_T_ME_65

3/2-way plug valves with L-port, in multi-port design

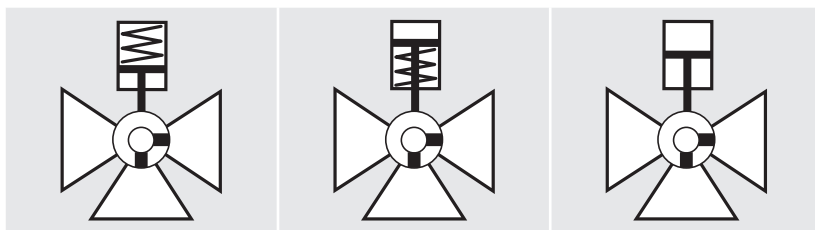


MG	manually operated by gearbox / servo
PP	pneumatically operated by piston
ME	motorized



VPM_L_MH_00

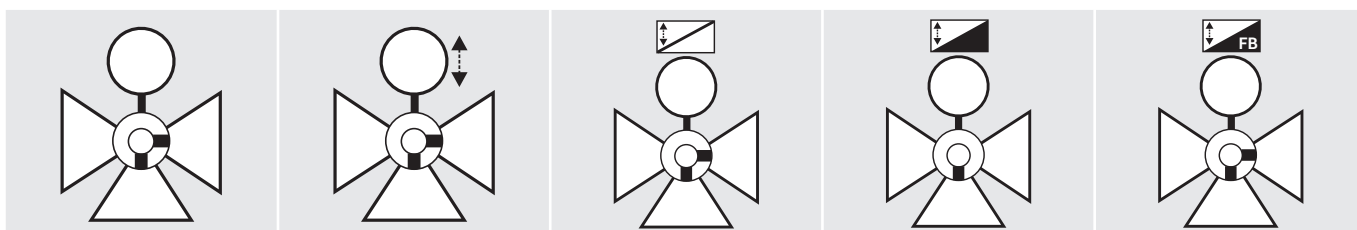
VPM_L_MG_00



VPM_L_PP_10

VPM_L_PP_20

VPM_L_PP_30



VPM_L_ME_61

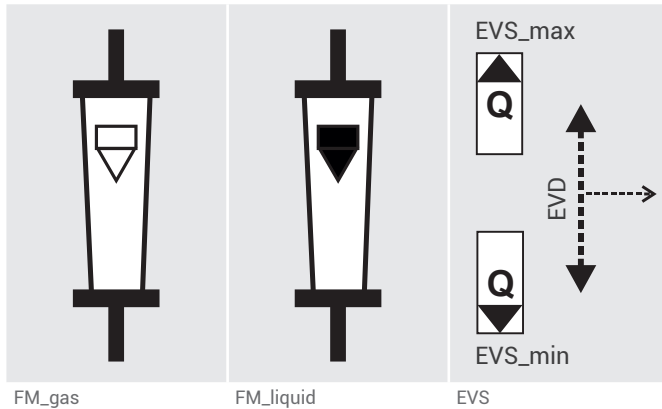
VPM_L_ME_62

VPM_L_ME_63

VPM_L_ME_64

VPM_L_ME_65

Measurement devices



FM_gas

Flowmeter/variable area principle for gases (flow meter_gas)

FM_liquid

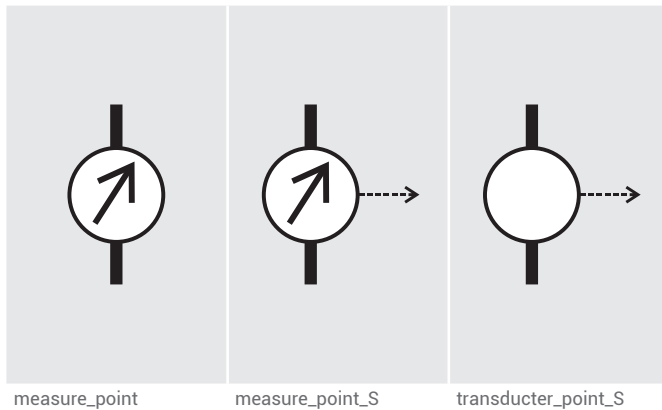
Flowmeter/variable area principle for liquids (flow meter_liquid)

EVS_max

Limit value switch max. for volumetric flow (Q) (electrical value switch_max)

EVS_min

Limit value switch min. for volumetric flow (Q) (Electrical value switch_min)



Measure_point

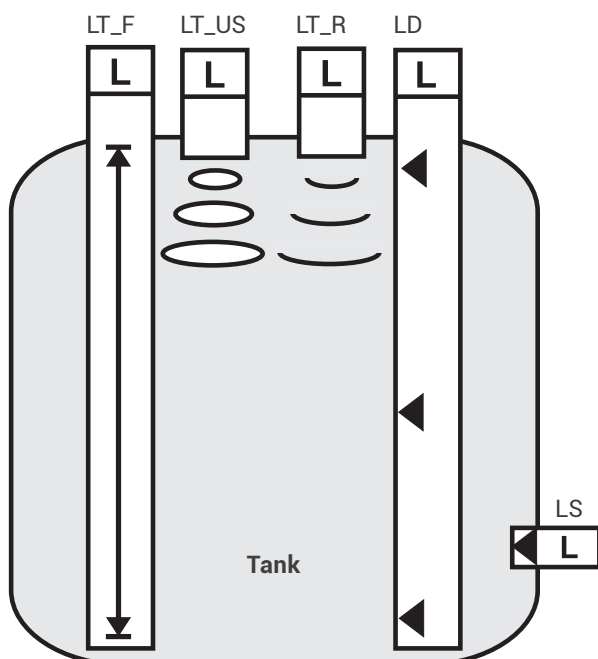
Measurement device without signal output for volumetric flow (Q), pressure (p), pressure differential (delta p), pH value (pH), temperature (T) or other physical variables.

Measure_point_S

Measurement device with signal output for volumetric flow (Q), pressure (p), pressure differential (delta p), pH value (pH), temperature (T) or other physical variables.

Transmitter_point_S

Measuring transducer with signal output for volumetric flow (Q), pressure (p), pressure differential (delta p), pH value (pH), temperature (T) or other physical variables.



LT_F

Instrument sensor for level with float (Level Transmitter_float)

LT_US

Instrument sensor for level with ultrasonic sensor (Level Transmitter_Ultrasonic)

LT_R

Instrument sensor for level with radar sensor (Level Transmitter_Radar)

LD

Limit switch for level/filling levels.

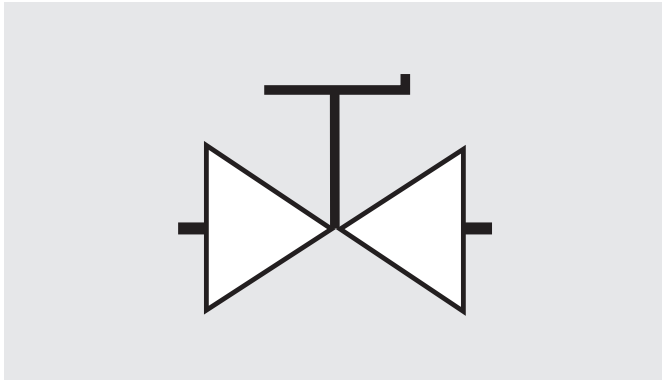
The number of the "arrows" corresponds to the number of the limit values to be energized. (Level detection)

LS

Limit value switch (Level switch)

Representation of manual valves

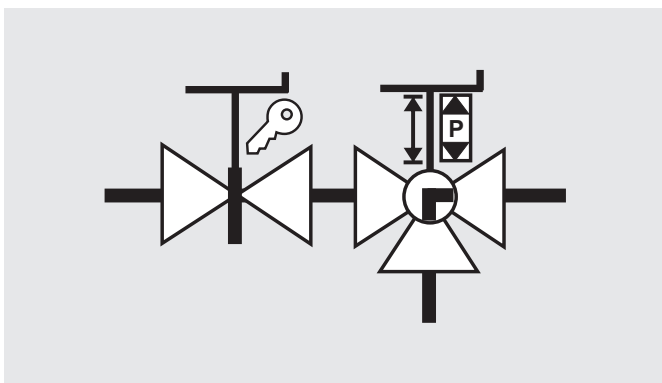
Examples



Valve with manual operator
"Directly manually operated"



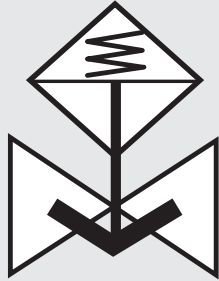
Manual operator
"Manually operated via gearbox or servo"



On the left:
Gate valve in straight design with lockable manual operator.

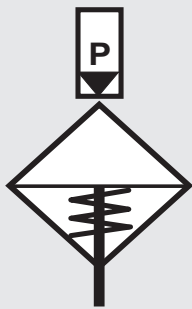
On the right:
Ball valve in 3-way version with "L-port" and travel limiter on both sides.

Pneumatic actuators with actuator membranes



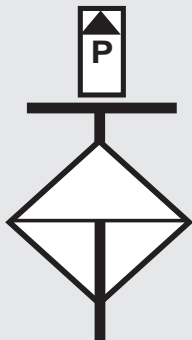
Weir type diaphragm valve

With pneumatic actuator, membrane actuated in "normally closed" control function.



Pneumatic actuator

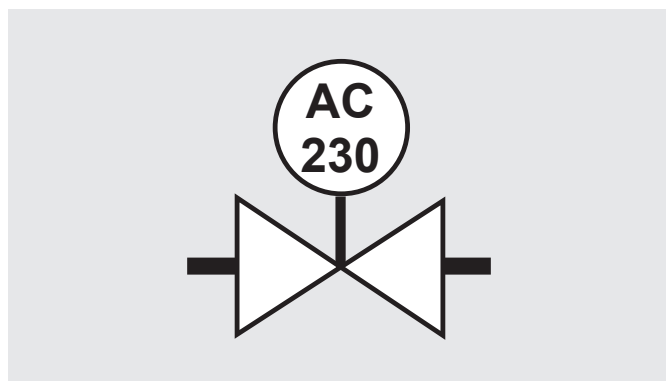
Membrane actuated in "normally open" control function with electrical position indicator for both end positions.



Pneumatic actuator

Membrane actuated in "double acting" control function with manual override and electrical position indicator for the "open" end position.

Motorized actuators



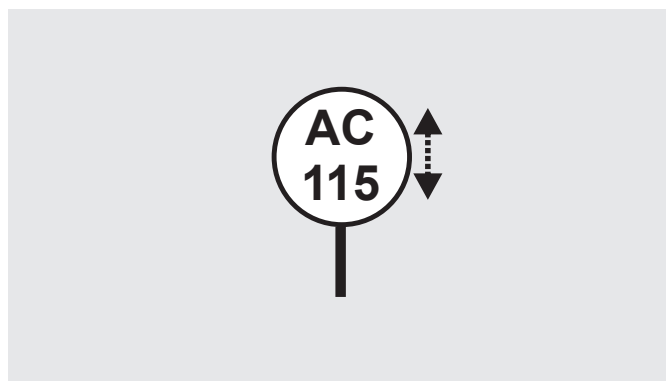
AC alternating voltage

DC direct voltage

Figure voltage size in volts

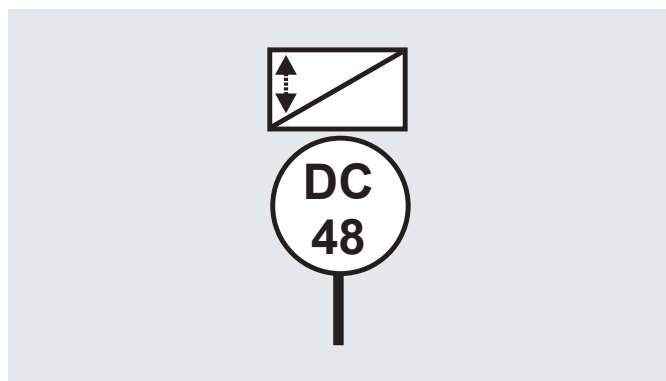
Process valve with motorized actuator

In AC version, 230 volts for linear and quarter turn valves.



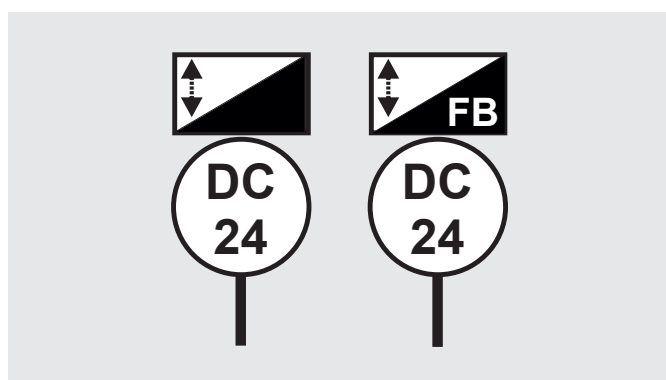
Motorized actuator

With integrated continuous position feedback (e.g. for actual value detection of the valve position in control circuits).



Motorized actuator

With integrated positioner.

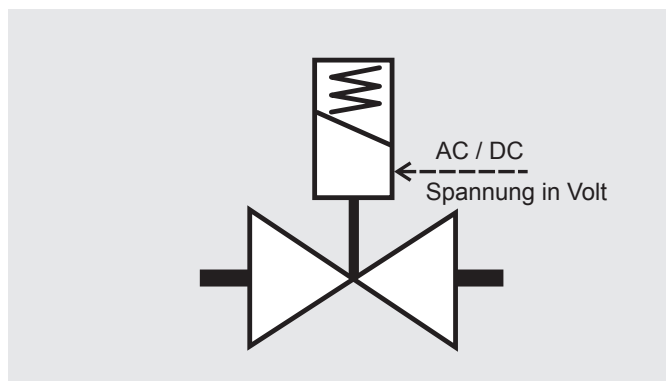


Motorized actuator

With integrated process controller with position output (e.g. for regulating volumetric flows).

Representation on the right: With additional integrated fieldbus connection.

Electromagnetic actuators

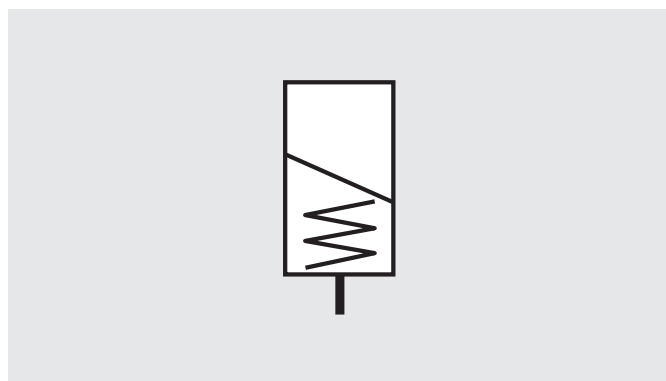


AC alternating voltage

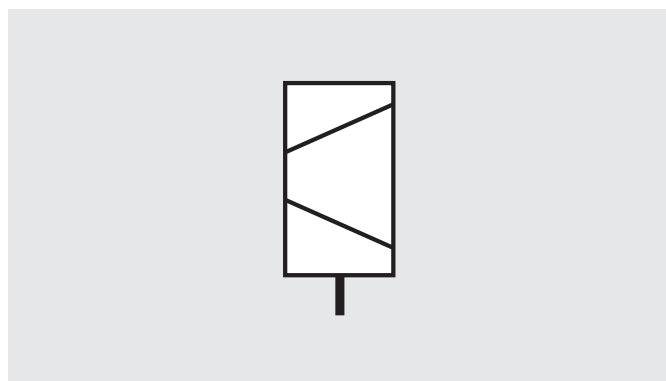
DC direct voltage

Figure voltage size in volts

Electromagnetic actuator (coil)
"Normally closed".

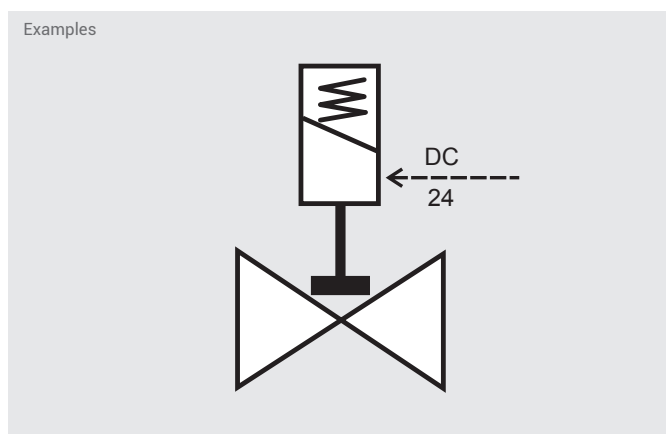


Electromagnetic actuator (coil)
"Normally open".



Electromagnetic actuator (coil)
"Double acting".

Examples



Globe valve made of plastic or metal

With "normally closed" electromagnetic operation at an operating voltage of 24 volts/DC voltage.

The use of the valve symbols in Technical Communication and its procurement

Proposal system and procurement easy and precise

As experience shows, there are many classic error sources in technical procurement of goods.

The problems frequently begin with the fact that a technician must present the product required by them such that the Purchasing department unequivocally understands which attributes and features the product should have.

A quotation request is now formulated here, which can be totally different in type and scope depending on the personal method of the purchasers and the in-house procedure. In the worst case scenario, the Purchasing department does not precisely understand which technical factors the product to be procured depends on and only pays attention to a price advantage.

After the respectively requested providers have received the quotation request, they must first extensively analyze the contents and integrate them into each of their individual understandings and proposal systems. Now the providers formulate their respective offer in their own personal way and according to the specifications of their company.

The requesting Purchasing department now receives different offers from the providers, which it must again "re-translate" into its own language and make them comparable with each other. It is clearly apparent why, despite the latest

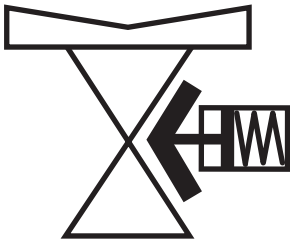
auxiliary materials, there can be all kinds of error sources – and this is even before the procedure continues with the formulation of the real order.

To avoid this, standardized procurement schemes have been developed by a huge variety of institutions and organizations. But only too often has the error been made here that all types of goods or at least all product versions of a goods group should be covered with a single "universal form". You therefore encounter quotation forms with up to four pages per requested valve.

When procuring valves for process engineering and tank and pipeline construction, such a situation can be easily dodged. The use of the symbols shown in this manual in combination with the entry tables shown allows a simpler and safer valve request. Based on similar technical valve attributes to be considered, the entry sheets of globe and diaphragm valves and of ball and plug valves can each be summarized. For all further functional principles, independent entry sheets must be created.

Examples

Diaphragm valves and globe valves attribute recording

Record sheet for diaphragm valves and globe valves		
Item: 1	Quantity: 1	Type Allocation Code: #0000
Scope of application		
Plant and application		
 Agenda for representation The symbol shows a diaphragm valve in weir type, with tank bottom valve body, pneumatically operated with a piston actuated operator in the "normally closed" function; with mounted electrical position indicator for both valve positions with optical indication and a mechanical regulating distance limitation for the "open" position.	Operating conditions Nominal size (DN): 25 K _{vs} value: 14 m³/h Min. operating pressure: Light vacuum after sterilization Max. operating pressure: 4 bar Min. operating temperature: 0 °C Max. operating temperature: 130 °C Ambient temperature: Approx. 25 °C Way design: Tank valve for tank bottom	
	Implemented as OPEN/CLOSE or CONTROL VALVE Switching frequency OPEN/CLOSE: Approx. 2 times per hour Control characteristic : – Control amounts: –	
	Safety requirements/directives Pressure rating PN: PN 16 Explosion-proof rating: – Other: –	
	Working media Main medium: Saline solution 0.9% Other media: Cleaning chemicals, water and sterile steam	
	Materials Valve actuator: Stainless steel Valve seal: EPDM (GMP/FDA compliant) Valve body: Stainless steel 1.4539	
	Pipe connection Connection type: Tank weld body with butt weld spigot Standard: DIN EN 10357, series A	
	Actuator data Actuation type: Pneumatic Control function: Normally closed Control pressure/voltage: 5 to 7 bar	
	Important information The valve requires electronic feedback with optical indication and a stroke limiter in the "open" position.	

Examples

Diaphragm valves and globe valves attribute recording

Record sheet for diaphragm valves and globe valves		
Item: 1	Quantity: 1	Type Allocation Code: 0000
Scope of application Power industry/CHP plant		
Plant and application Flue gas desulphurisation		
 Agenda for representation The symbol shows a diaphragm valve in weir type with straight through body, pneumatically operated with membrane control in the "normally closed" control function and manual override.	Operating conditions Nominal size (DN): 40 K _{vs} value: 20 m³/h Min. operating pressure: 0 bar Max. operating pressure: 4 bar Min. operating temperature: 0 °C Max. operating temperature: 70 °C Ambient temperature: Room temperature Way design: Through flow	
	Implemented as OPEN/CLOSE or CONTROL VALVE Switching frequency OPEN/CLOSE: Low Control characteristic: – Control amounts: –	
	Safety requirements/directives Pressure rating PN: PN 16 Explosion-proof rating: – Other: Manual override in the event of power or compressed air supply failure	
	Working media Main medium: Water with 30–40% sulphur content Other media: –	
	Materials Valve actuator: Plastic Valve seal: EPDM Valve body: Hard rubber lined SG iron	
	Pipe connection Connection type: Industrial flange Standard: EN 1092, form B, length EN 558, series 1	
	Actuator data Actuation type: Pneumatic Control function: Normally closed Control pressure/voltage: 6 bar	
	Important information The manual override must be actuated at full operating pressure without auxiliary materials.	

Examples

Diaphragm valves and globe valves attribute recording

Record sheet for diaphragm valves and globe valves

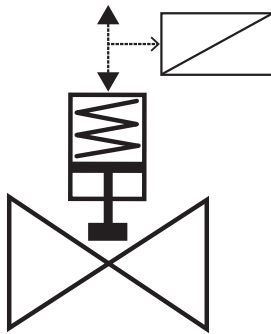
Item: **1** Quantity: **1** Type Allocation Code: **0000** 0

Scope of application

Packaging machines

Plant and application

Steam control system for polystyrene foam production



Agenda for representation

The symbol shows a globe valve with a pneumatically operated piston-actuated operator in the "normally closed" function with external positioner.

Operating conditions

Nominal size (DN): **25**
 K_{VS} value: **4.0 m³/h (converted to water)**
 Min. operating pressure: **0 bar**
 Max. operating pressure: **16 bar**
 Min. operating temperature: **0 °C**
 Max. operating temperature: **180 °C**
 Ambient temperature: **80 °C**
 Way design: **2/2-way through flow**

Implemented as OPEN/CLOSE or CONTROL VALVE

Switching frequency OPEN/C **High to very high**
 Control characteristic: **Linear**
 Control amounts: **1–3 m³/h (converted to water)**

Safety requirements/directives

Pressure rating PN: **PN 25**
 Explosion-proof rating: **No**
 Other: **–**

Working media

Main medium: **Steam**
 Other media: **None**

Materials

Valve actuator: **Metal**
 Valve seal: **Temperature and steam resistant**
 Valve body: **SG iron or cast steel**

Pipe connection

Connection type: **Flange EN 1092, PN25, form B**
 Standard: **Length EN 558, series 1**

Actuator data

Actuation type: **Pneumatic with position control**
 Control function: **Closed by spring force**
 Control pressure/voltage: **5–7 bar**

Important information

The electro-pneumatic positioner cannot be mounted directly onto the valve (space issue).

Examples

Diaphragm valves and globe valves attribute recording

Record sheet for diaphragm valves and globe valves

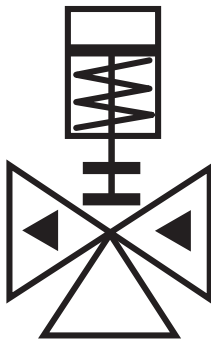
Item: 1 Quantity: 1 Type Allocation Code: 0000 0

Scope of application

Dairy industry

Plant and application

Warehouse engineering/tank cooling and heating valve



Agenda for representation

The symbol shows a multi-port globe valve with a pneumatically operated piston-actuated operator in the "single acting" function.

Operating conditions

Nominal size (DN): 32 / 40
 K_{VS} value: At least 14 m³/h in all directions
 Min. operating pressure: 2 bar
 Max. operating pressure: 8 bar
 Min. operating temperature: 4 °C
 Max. operating temperature: 90 °C
 Ambient temperature: 0 to 50 °C
 Way design: 3/2-way

Implemented as OPEN/CLOSE or CONTROL VALVE

Switching frequency OPEN/C: Low to medium
 Control characteristic: -
 Control amounts: -

Safety requirements/directives

Pressure rating PN: At least PN 10
 Explosion-proof rating: No
 Other: -

Working media

Main medium: Cold and hot water
 Other media: -

Materials

Valve actuator: Plastic or metal
 Valve seal: Plastic or metal
 Valve body: Metal

Pipe connection

Connection type: Threaded socket, ideally G 1 1/2
 Standard: DIN ISO 228

Actuator data

Actuation type: Pneumatic
 Control function: Activated on one side
 Control pressure/voltage: 6 to 6.5 bar

Important information

Ideally the valve body is made from stainless steel, but not from aluminium

Examples

Butterfly valves attribute recording

Record sheet for butterfly valves

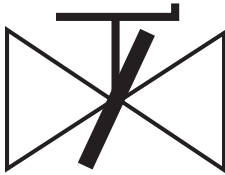
Item:	1	Quantity:	1	Type Allocation Code:	#0000
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Scope of application

Power generation

Plant and application

Biogas production/filter outlet



Agenda for representation

The symbol shows a butterfly valve, manually operated.

Operating conditions

Nominal size (DN):	150
K _{vs} value:	–
Min. operating pressure:	0 bar
Max. operating pressure:	4 bar
Min. operating temperature:	0 °C
Max. operating temperature:	60 °C
Ambient temperature:	0–50 °C
Cycle duty:	Low

Safety requirements

Pressure rating PN:	PN 16
Explosion-proof rating:	Internal none/external II 2G c IIB TX

Process materials

Working medium:	Biogas 100%
Other media:	–

Design and materials

Butterfly valve design:	Concentric, with one-piece body
Valve actuator:	Metal
Valve body:	SG iron with epoxy coating
Liner/seal:	NBR
Butterfly disc:	Stainless steel
Shaft:	Stainless steel

Pipe connection

Piping connection:	Wafer-type flange/wafer
Installation length/standard:	ISO 5752/20, EN 558-1/20
Top/actuator flange:	EN ISO 5211

Actuator data

Control pressure/voltage:	–
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Other

Within the piping system/valve, there is no ignitable gas compound

Examples

Butterfly valves attribute recording

Record sheet for butterfly valves

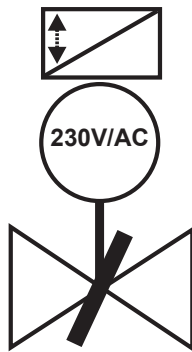
Item:	<i>1</i>	Quantity:	<i>1</i>	Type Allocation Code: <i>#3333</i>
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Scope of application

Municipal drinking water supply

Plant and application

Drinking water treatment and distribution



Agenda for representation
The symbol shows a butterfly valve, motorized.

Operating conditions

Nominal size (DN):	<i>400</i>
K_{vs} value:	<i>-</i>
Min. operating pressure:	<i>0 bar</i>
Max. operating pressure:	<i>7 bar</i>
Min. operating temperature:	<i>0 °C</i>
Max. operating temperature:	<i>60 °C</i>
Ambient temperature:	<i>0-50 °C</i>
Cycle duty:	<i>Low to medium</i>

Safety requirements

Pressure rating PN:	<i>PN 16</i>
Explosion-proof rating:	<i>No</i>

Process materials

Working medium:	<i>Raw water and drinking water</i>
Other media:	<i>-</i>

Design and materials

Butterfly valve design:	<i>Concentric, with one-piece body</i>
Valve actuator:	<i>Position adjustable electric actuator</i>
Valve body:	<i>SG iron with epoxy coating</i>
Liner/seal:	<i>EPDM/DVGW</i>
Butterfly disc:	<i>Stainless steel, polished</i>
Shaft:	<i>Stainless steel</i>

Pipe connection

Piping connection:	<i>Wafer-type flange/lug design</i>
Installation length/standard:	<i>ISO 5752/20, EN 558-1/20</i>
Top/actuator flange:	<i>EN ISO 5211</i>

Actuator data

Control pressure/voltage:	<i>230 V/50 Hz</i>
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Other

DVGW-approved seal material

Examples

Ball and plug valves attribute recording

Record sheet for ball and plug valves

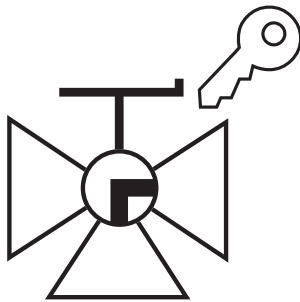
Item: 1 Quantity: 1 Type Allocation Code: ##333

Scope of application

Cleaning agent production

Plant and application

Tank facility / Media distribution



Agenda for representation
The symbol shows a ball valve, manually operated.

Operating conditions

Nominal size (DN): 25
 K_{vs} value: -
 Min. operating pressure: 0 bar
 Max. operating pressure: 3 bar
 Min. operating temperature: Room temperature
 Max. operating temperature: Room temperature
 Ambient temperature: Room temperature
 Way design: 3-way / L-port

Implemented as OPEN/CLOSE or CONTROL VALVE

Switching frequency OPEN/CLOSE: about 4 times a day
 Control characteristic: -
 Control amounts: -

Safety requirements/directives

Pressure rating PN: PN 6
 Explosion-proof rating: -
 Other: -

Working media

Main medium: Vinegar essence
 Other media: Water

Materials

Valve actuator: Plastic
 Valve body: PVC
 Seal: PTFE
 Ball: PVC
 Shaft: Plastic

Pipe connection

Connection type: Union end
 Standard: DIN

Actuator data

Actuation type: Manually operated
 Control function: Manual
 Control pressure/voltage: -

Important information

The valve must be lockable

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The new three-level GEMÜ training system

Our position within plant design, plant engineering and plant operation is underpinned by our expert knowledge and professional consulting skills. Great importance is attached to a targeted understanding of the industry and to valves, measurement and control systems that have been intelligently adapted to the requirements of our customers. We are particularly committed to providing in-depth vocational training as a way of better addressing the stringent requirements of the market. It is with pleasure that we pass on our knowledge and experience to our customers, commercial partners and employees. Our wide range of practical business experiences gained over many years and our didactic core skills have been used to develop a pioneering training and learning system. It is a three-level system with a modular structure. It provides support to new entrants, people changing career and to experienced specialists. The training content is didactically structured according to subject so that the participants' technical knowledge is increased, further developed and maintained at a high level. According to their requirements, the participants pass through up to three knowledge levels. A learning check with a final written exam enables learning success to be assessed promptly for all training courses and encourages participants to pay attention. Moreover, this allows gaps in knowledge to be quickly identified and specific corrective training to be initiated.

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Please contact us for any questions regarding technical training

via e-mail: training@gemu.de

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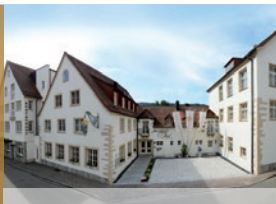


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