

QV 032-100 BA

 Gas
 Dust 

- First read and follow these safety instructions and, if used in potentially explosive atmospheres, the special conditions and instructions for safe use on the back and observe the operating instructions.

Safety instructions

1. The installation, maintenance, initial operation, removal and repair may be done only by qualified experts with knowledge about the handling of pressure equipment and pneumatic air compressors.
2. The statutory and other applicable regulations and standards have to be noticed and kept.
3. The maximum pressure and temperature given by the data plate have to be noticed and kept.
4. A pressure-reducing valve has to be installed in the control pressure supply line and it has to be set at the calculated control pressure.

Calculation	Example
shut off pressure (process pressure PD)	2.0 bar
+ 2.5 bar (control pressure over PD)	2.5 bar
= control pressure to be set SD	4.5 bar

5. The maximum control pressure specified on the type plate must not be exceeded.
6. The maximum differential pressure specified on the type plate must not be exceeded.



ATTENTION! The articles 3, 4, 5 and 6 are to be strictly kept.
 To high process or control pressure shortens the durability of the closing hose.

7. Initial operation and pressure admission only if the sine pinch valve is installed (e.g. mounted in a tubing)
8. If no further pipeline is attached to one connection side of the sine pinch valve, then it has to be ensured by suitable measures (e.g. grid) that the access (e.g. inserting fingers or hands) into the interior of the sine pinch valve is impossible.
 Or place suitable warning informations e.g. crushing hazard.



ATTENTION! Crushing Hazard

It is strictly forbidden to put fingers, hands, other extremities or objects into the valve.
 Sharp-edged objects damages the closing hose.

9. If the sine pinch valve is damaged, the control medium supply must be shut off immediately and the valve must be relieved of any pressure, e.g. by removing the control medium supply hose and / or by switching the manual override on the 3/2-way solenoid valve (control valve) to venting.
10. The sine pinch valve may removed and demounted only in pressure-free condition.

Special conditions and instructions for safe use in potentially explosive atmospheres

11. The installation, initial operation, removal, maintenance and repair has to be supervised resp. controlled by an "authorized person" for explosion protection.
12. The sine pinch valve may only be used in the category given by the type plate or in lower ones.

Type	Category	usable in			
		Inside-Conveyor area		Surroundings	
QV...-EE-NRE-B22	1G	zone 0	or zone 1	zone 0	or zone 1
	1D	zone 20	or zone 21	zone 20	or zone 21
QV...-AE-NRE-B11	1/2G	zone 0	or zone 1	zone 1	or zone 2
	1/2D	zone 20	or zone 21	zone 21	or zone 22
QV...-AA-NRE-B6	2G	zone 1	or zone 2	zone 1	or zone 2
	2D	zone 21	or zone 22	zone 21	or zone 22



In the case of attached electrical devices, such as 3/2-way solenoid valves for controlling the compressed air, the sine pinch valves in the surrounding area may only be used in the zone approved for the electrical devices.

13. The sine pinch valve has to be permanent conductive connected to a conductive, earthed tubing. If the tubing is not conductive the valve is connect to earth.
14. Only materials which can't lead to an explosive danger can be used as control medium (e.g. compressed air, inert gas, water). If a combustible liquid is used as control medium, the ignition point of this liquid has to be higher than +135 °C.
15. When using the sine pinch valve as a device of category 1G or 1/2G with the maximum permissible operating temperature of +120 °C, the ignition temperature of the combustible materials must be +150 °C.
With substances in temperature class T4 (limit temperature +135 °C), the operating temperature of the sine pinch valve may not exceed +108 °C.
16. In the case of sine pinch valves with aluminum clamping sleeves, no rust-containing particles (such as rust film) may be present in the pumped medium when used in category 2G.
17. Control medium may penetrate the conveying material through a leakage of the closing hose.
If - for example - compressed air used as control medium penetrate the conveyor pipeline in which an explosive hazardous atmosphere is conveyed it will cause no higher danger.
But if the conveyor medium is a liquid burning material and penetrated by air, an explosive atmosphere can be formed in the conveyor pipeline. Likewise conveyed material (e.g. combustible gas, combustible liquid) can penetrate the control medium (e.g. compressed air) and build an explosive atmosphere.
Such situation has to be avoided by a corresponding monitoring of the control medium (e.g. pressure control).
18. The sine pinch valve may only be used if its materials are so resistant to mechanical and/or chemical influences or corrosion that the explosion protection is not canceled.
19. By the application of sine pinch valves in explosive hazardous areas pay attention to the hints given by the EN 1127-1: chapter 6.4.2 regarding the safety clearance of temperatures.
20. Take notice of the requirements of EN 60079-14 and EN 60079-17 especially regarding the dust deposits and temperatures and follow the pertinent rules and regulations.



Sine pinch valve

for exact shutting off, distribution and dosing

QV

Gas+
Dust



Explosion protection information and Supplement to the operating instructions

Type label details

Manufacturer and address CE sign with the number of the "Notified Body" which is involved in the production control phase		Marking for the gas atmosphere Marking for the dust atmosphere Ambient temperature (max. application temperature) Further details of the tube connection can be filed in this panel, for example: -R54x2R54x2- means tube 54x2 on both sides EU-type examination certificate number or number of the test log Details about the max. permissible pressures
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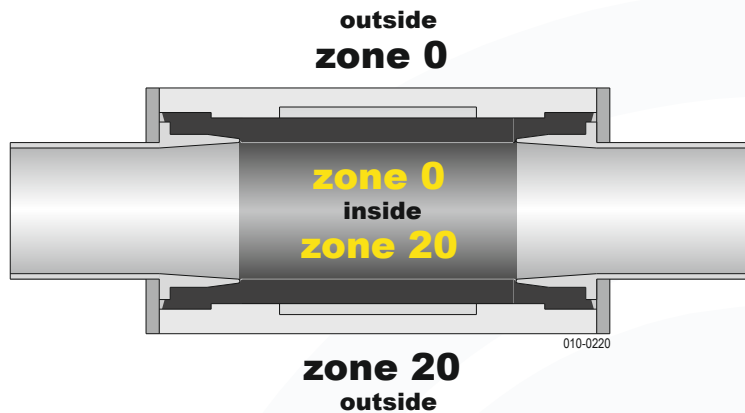
Special conditions for safe application

1. The designation specified on the explosion-proof nameplate is decisive for the application of the sine pinch valve.
2. The sine pinch valve may only be used if its materials are sufficiently resistant to mechanical and/or chemical influences or corrosion under the respective operating conditions so that explosion protection is not compromised.
3. For sine pinch valves with aluminum clamping sleeves, the conveyed medium must not contain any rust-containing particles (such as surface rust) if a gaseous explosive atmosphere is being conveyed.
4. The sine pinch valve must be grounded using a 4 mm² grounding conductor.
5. Note that by using sine pinch valves of the categories 1G and 1/2G the process temperature must not be higher than 80% of the ignition temperature of the matter which conditioned the zone 0.
By the application of sine pinch valves of the categories 1D, 1/2D or 2D pay attention to the hints given by the EN 1127-1 chapter 6.4.2 regarding the safety clearance of temperatures.
6. If a combustible liquid is used as control medium, the ignition point of this liquid has to be higher than +135 °C.
7. When changing a closing hose (MOLLET sinus hose), only conductive closing hoses suitable for ATEX applications may be used.

Equipment category appropriation by zones

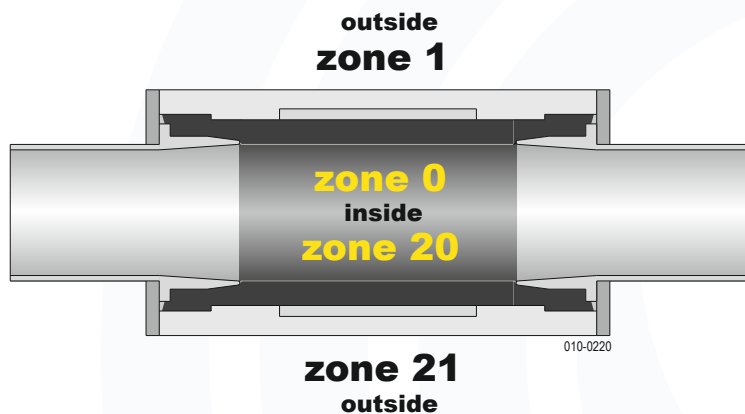
Order code **B22**

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	 0408
Typ QV050-RR-EE-NRE-B22			
 II 1G Ex h IIB T6 Ga I 1D Ex h IIIB T 80 °C Da			
IExU 08 ATEX 1012 X			
-20 °C ≤ Ta ≤ +80 °C			
Stück Nr. 1234567890 08/24		Prozessdruck (PD) max. 4,0 bar Steuerdruck über PD ca. 2,5 bar Steuerdruck max. 6,5 bar Differenzdruck max. 2,5 bar	
Auftrag-Nr. 1234567890			



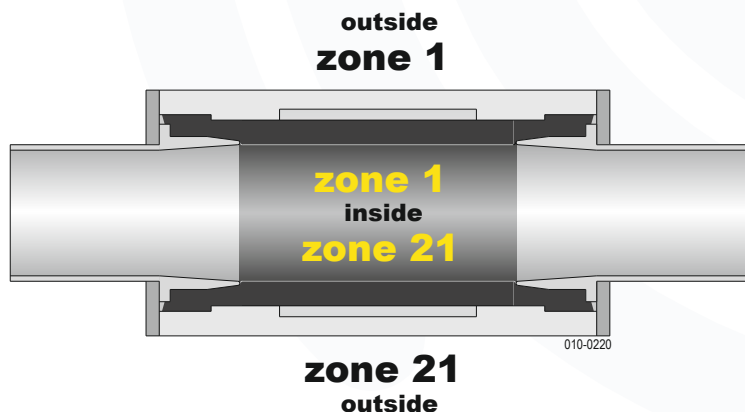
Order code **B11** for II 1/2G IIB and II 1/2D IIIB
or
order code **B1** for II 1/2D IIIB

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	 0408
Typ QV080-RR-AE-NRE-B11			
 II 1/2G Ex h IIB T6 Ga/Gb I 1/2D Ex h IIIB T 80 °C Da/Db			
IExU 08 ATEX 1012 X			
-20 °C ≤ Ta ≤ +80 °C			
Stück Nr. 1234567890 08/24		Prozessdruck (PD) max. 4,0 bar Steuerdruck über PD ca. 2,5 bar Steuerdruck max. 6,5 bar Differenzdruck max. 2,5 bar	
Auftrag-Nr. 1234567890			



Order code **B6**

MOLLET Füllstandtechnik GmbH		Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	 0408
Typ QV100-RR-AA-NRE-B6			
 II 2G Ex h IIB T6 Gb I 2D Ex h IIIB T 80 °C Db			
ATEX-PP-08-925 X			
-20 °C ≤ Ta ≤ +80 °C			
Stück Nr. 1234567890 08/24		Prozessdruck (PD) max. 4,0 bar Steuerdruck über PD ca. 2,5 bar Steuerdruck max. 6,5 bar Differenzdruck max. 2,5 bar	
Auftrag-Nr. 1234567890			



„X“ behind the certificate number

Pay attention to the

“Special conditions for safe application”

Operating instructions

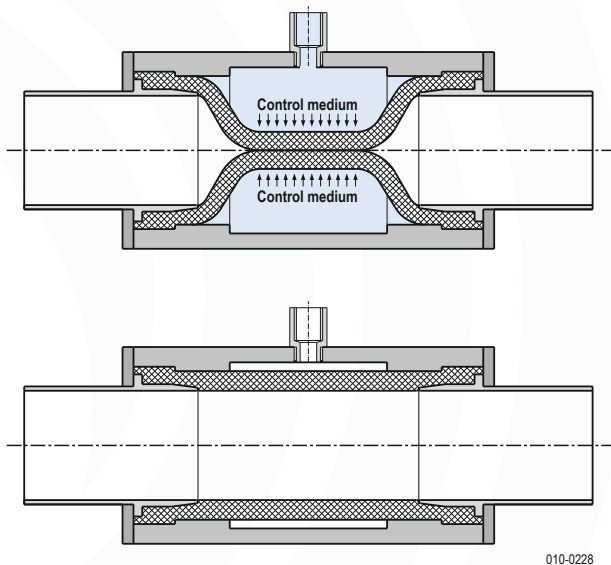
1. Specification

1.1 Intended use

The sine pinch valve is for the precise shutting off, distribution and dosing of powdery, granular, viscous, dirty and aggressive substances, gases, mixtures and liquids, e.g. to interrupt the material flow of bulk goods during pneumatic conveying.

1.2 Function

The elastic closing hose is pressed together by the control medium. Existing grains up to a certain size are surrounded by the closing hose. After removing the control pressure, the closing hose opens in its circular shape.



1.3 Control

The sine pinch valve should be controlled via a control valve (e.g. 3/2-way solenoid valve). For faster opening of the closing hose, we recommend installing a quick-release valve on the control port. A pressure switch can also be attached to monitor the control pressure.

1.4 Technical data

Manufacturer	MOLLET Füllstandtechnik GmbH
Address	Industriepark RIO 103 74706 Osterburken
Name	Sine pinch valve
Type	QV
Control medium	Compressed air, inert gas, water (oil at request)
Process pressure PD	maximum 4.0 bar Higher process pressure at request
Control pressure SD	2.5 bar over process pressure PD
Differential pressure	maximum 2.5 bar
Process temperature	for closing hose NRE maximum +80 °C wet EPE maximum +120 °C wet
Mounting position	any
Maintenance	none

2. Installation

2.1 Preparation

Read and follow the safety instructions and the operating instructions, before handling with the device !

2.2 Mechanical connection

The sine pinch valve is completely pre-assembled at the factory and only needs to be connected to the system connections. Avoid stressing the sine pinch valve and its connections through bending forces or vibrations.

To avoid damage to the closing hose, do not carry out any welding work in the immediate vicinity of the sine pinch valve.

2.2 Control pressure connection

- Connect the sine pinch valve to the control pressure supply line.
- Set the control pressure SD calculated from point 4 of the safety instructions on the pressure reducer.

Life time

The service life or number of load cycles (pressure cycles) is reduced by various factors.

These factors include environmental and operational influences such as ambient/conveyed material temperature, wear, sunlight exposure, switching cycles, operational vibrations, installation stresses, external loads, contaminated control air, corrosion, or damage during operation or installation.

To ensure a long service life, the operator must inspect the sine pinch valves for damage (e.g., cracks, corrosion, etc.) at self-defined maintenance intervals or during maintenance procedures.

We recommend testing the valve every 10 years by pressurizing it with water at 1.5 times the maximum control pressure and checking for leaks. (test in accordance with **DIN EN 12266-1 P10**).

3. Utilization

3.1 General information

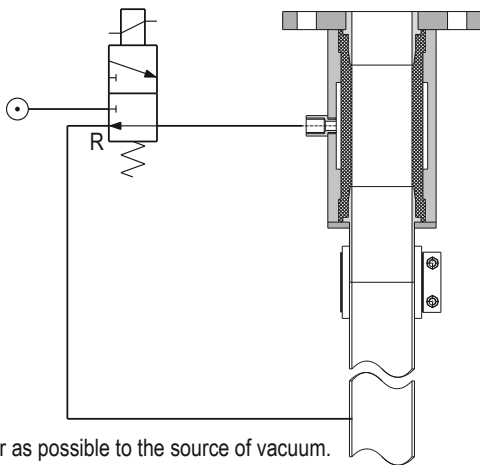
The sine pinch valve with its equipment may be operated and monitored by expert and instructed personnel only that employees and other persons will not be brought in danger. The operating instruction with the safety instructions has to be available to the operating and maintenance personnel. Take care of the country of installation's national regulations about the operation of pressure equipment.

3.2 Putting into operation

Commissioning of the sine pinch valve only if

- it is fix connected with the assigned joints,
- the pressure-reducing valve is installed at the control pressure supply line and it is pre-set,
- maybe necessary safety devices are onhand and operative.

Is the sine pinch valve in a suction line with a vacuum >0.05 bar installed, then the vent connection of the 3/2-way solenoid valve must be connected to the vacuum line, to equalize the pressure on the closing hose.



As near as possible to the source of vacuum.
By suction systems behind the filter.

3.3 Normal operation

- Use the sine pinch valve in its intended application only.
- Keep the safety instructions.
- The protection and safety devices and warning informations attached to the sine pinch valve must not be removed.
- The sine pinch valve is open without control pressure and is closing only if the control pressure is actuated.
- If the sine pinch valve is damaged during operation, put it immediately out of operation and release it from any pressure.
- If the permissible pressure or the permissible process temperature was exceeded, check the closing hose.

3.4 Improper use

- Ignoring the safety instructions and the operating instructions.
- Use of the sine pinch valve in non-intended application.
- Operating of the sine pinch valve by personnel who is not authorized or not proper instructed.
- Mounting of spare parts which are no original parts.
- Violation against applicable law and standards.

4. Maintenance and servicing

4.1 General information

Carry out maintenance and repair work only if the sine pinch valve is released from any pressure and disconnected from the control pressure supply line. If an electrical supply for accessories (e.g. electrical directional valve) is present it has to be also disconnected. If it's to reckon with the exhaust of hazardous substances during the maintenance special protection measures (e.g. personal protection equipment) is necessary.

4.2 Inspection

Inspect in regular intervals

- safety devices for proper function,
- the correct pre-set of the pressure-reducing valve in the control pressure supply line,
- the closing hose for tear and wear,
- all connections and joints for tight fit.

Schedule the inspection intervals according to

- the kind of material which has to be shut off,
- the frequency of use.

4.3 Servicing

- Damaged protection and safety devices, closing hoses, connections and joints has to be repaired or replaced by new ones immediately.
- The sine pinch valve must not be used until the complete restoration of the proper function.

5. Storage

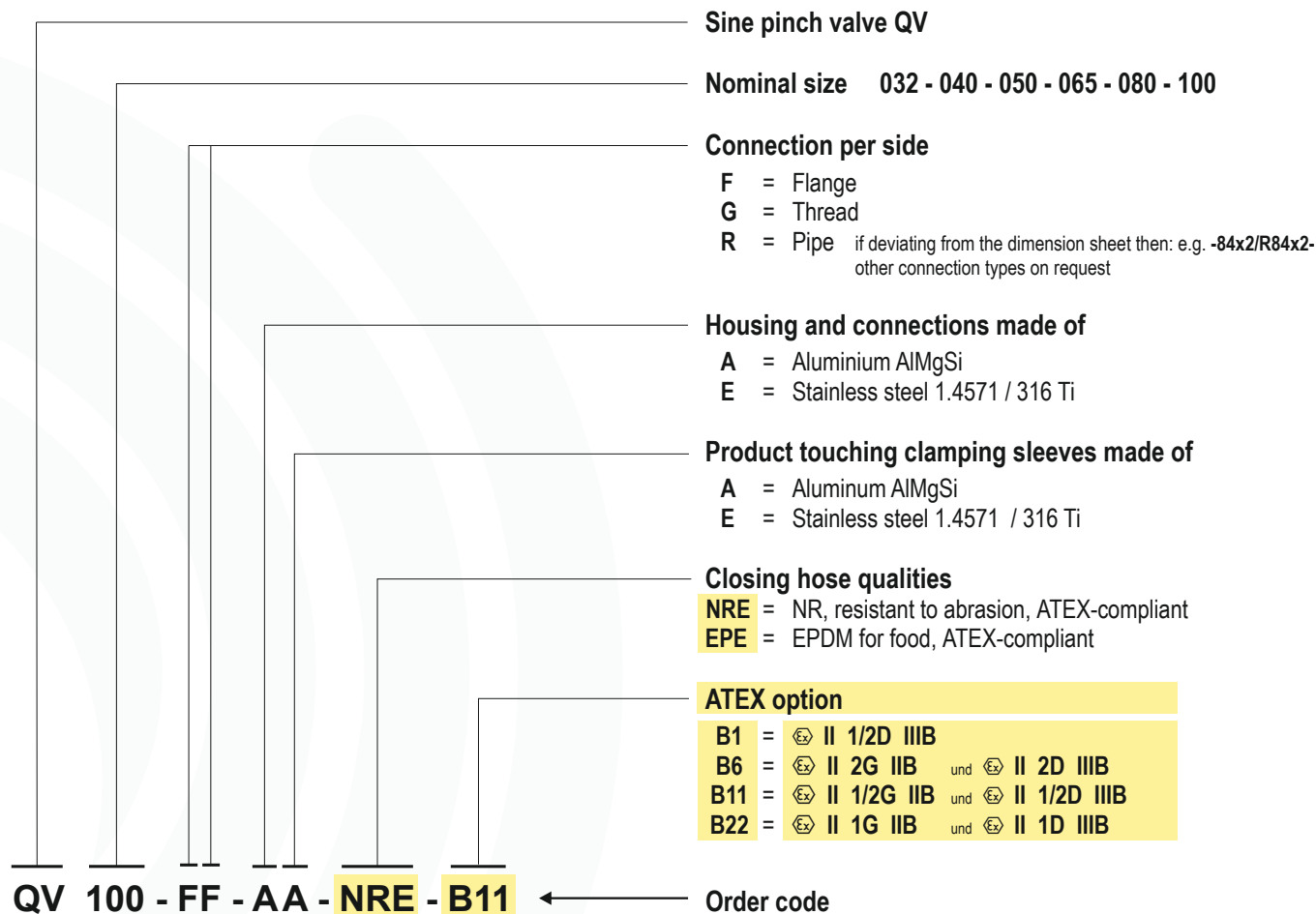
Store the sine pinch valve and the spare closing hoses dry, dust-free and protected against ultraviolet radiation.

- Storage temperature $-20\text{ °C} \dots +40\text{ °C}$
- Storage duration maximum 24 months

6. Disposal

- The sine pinch valve can be recycled.
- The disposal applies to the valid environmental guidelines according to the location of the carrier and the local manufacturing conditions.

Type specification / Order code



Notes

If the closing hose is damaged and becomes leaky due to temperatures or pressures exceeding the application limits, then:

- the pneumatic sine pinch valve will cease to function.
 - the conveyed substances may be contaminated by the control pressure medium.
 - the conveyed substances may enter the control pressure line and control components (e.g., solenoid valve, proportional valve, etc.), causing damage and potentially escaping into the atmosphere.
 - for hazardous, explosive, or toxic media, adequate protective measures must be taken to prevent release into the atmosphere.
 - replace the defective sine pinch valve.
 - potential consequential damage to the entire system must be prevented.
- Appropriate protective measures must be established and documented based on a risk assessment of the entire system.

Wear

- If the black elastomer underneath is visible through the white part of the closing hose that comes into contact with the product, the hose is worn out and must be replaced.
- If parts of the fabric inside the closing hose are visible, the hose is worn out and must be replaced.

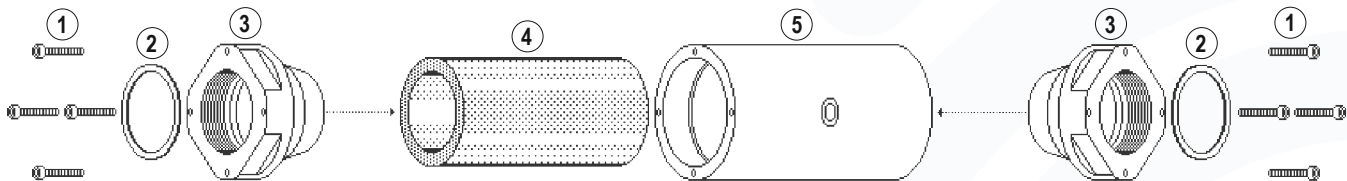
Condensate

- If the sine pinch valve and the control components (e.g., solenoid valve, proportional valve, etc.) freeze due to condensation and/or low temperatures, the devices will cease to function.

Use dry compressed air; warm it if necessary.

Pinch valves with nominal size 32 mm

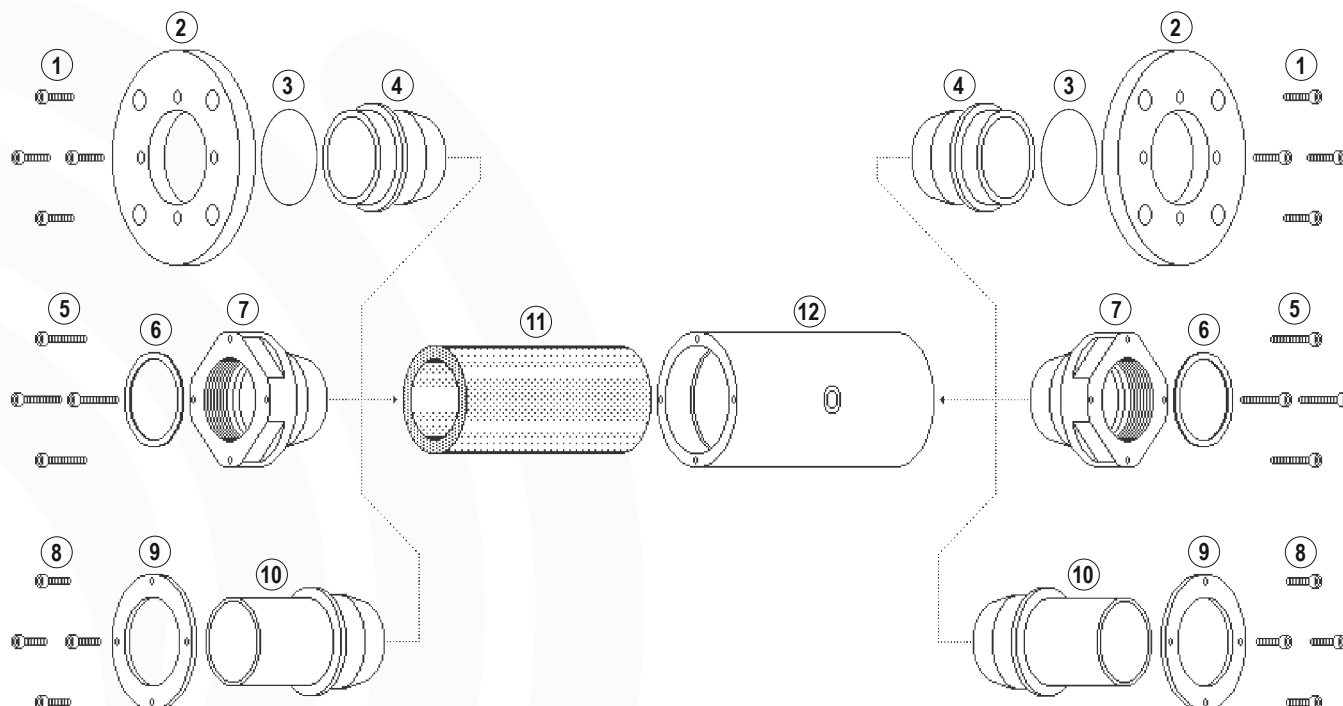
QV 032



Item	Reference	Order code	Material
1	Pan head screw with hexagon socket	0912-05X025-STV	Steel, galvanized
2	Gasket	032-003-DIR-NBR	NBR, white
3	Thread clamping sleeve	QV-GS032-AL	Aluminum Al Mg 3
	Thread clamping sleeve	QV-GS032-ES	Stainless steel 316 Ti
4	Closing hose (MOLLET-sinus-hose)	QV-SM032-NR	NR, resistant to abrasion
	Closing hose (MOLLET-sinus-hose)	QV-SM032-NRE	NR, resistant to abrasion, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM032-NW	NR, inside white for food
	Closing hose (MOLLET-sinus-hose)	QV-SM032-EP	EPDM for food
	Closing hose (MOLLET-sinus-hose)	QV-SM032-VI	Viton® (FKM)
5	Housing	QV-GH032-AL	Aluminum Al Mg Si 0,5
	Housing	QV-GH032-ES	Stainless steel 316 Ti

Pinch valves with nominal size 40 mm

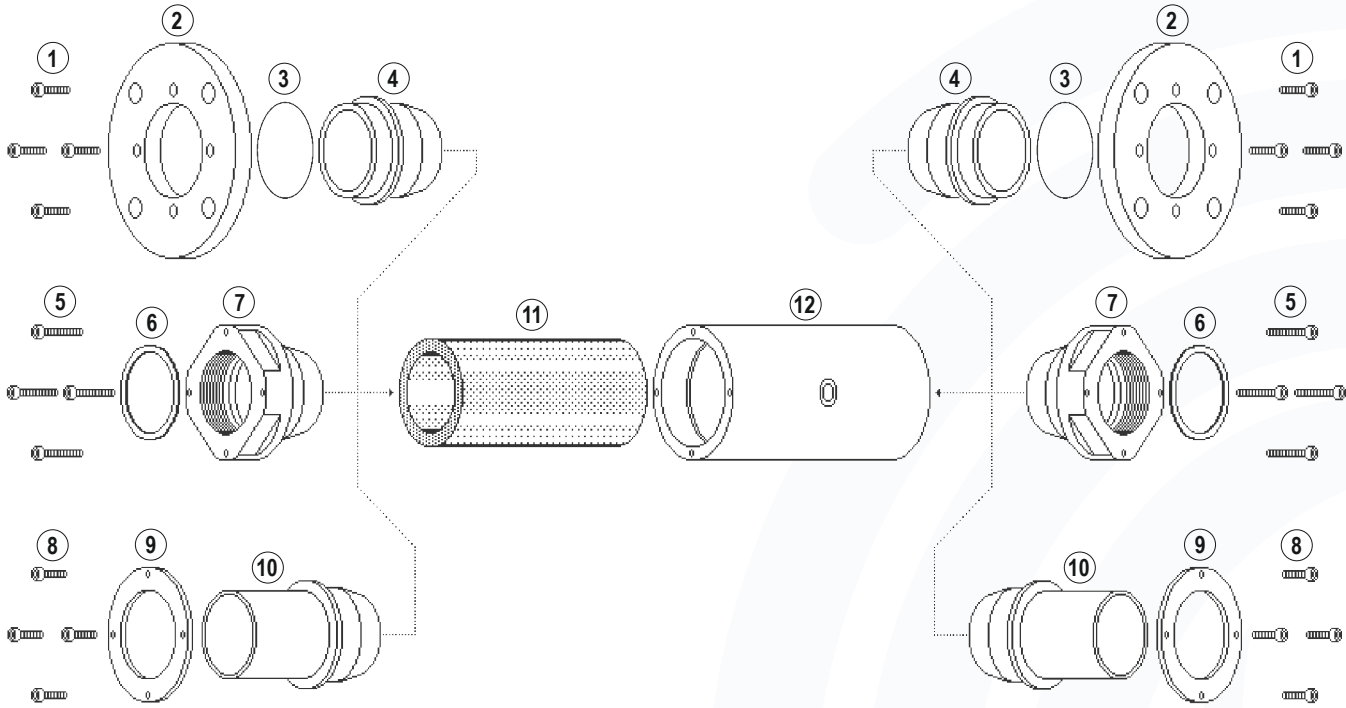
QV 040



Item	Reference
1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
8	Pan head screw with hexagon socket
9	Pipe flange
10	Pipe clamping sleeve
11	Closing hose (MOLLET-sinus-hose)
12	Housing

Order code
0912-05X020-STV
QV-FL040-AL
042x002-ORI-NBR
QV-FH040-AL
QV-FH040-ES
0912-05X030-STV
038-003-DIR-NBR
QV-GS040-AL
QV-GS040-ES
0912-05X020-STV
0125-05-B00-STV
QV-RF040-AL
QV-RH040-AL
QV-RH040-ES
QV-SM040-NR
QV-SM040-NRE
QV-SM040-NW
QV-SM040-EP
QV-SM040-VI
QV-GH040-AL
QV-GH040-ES

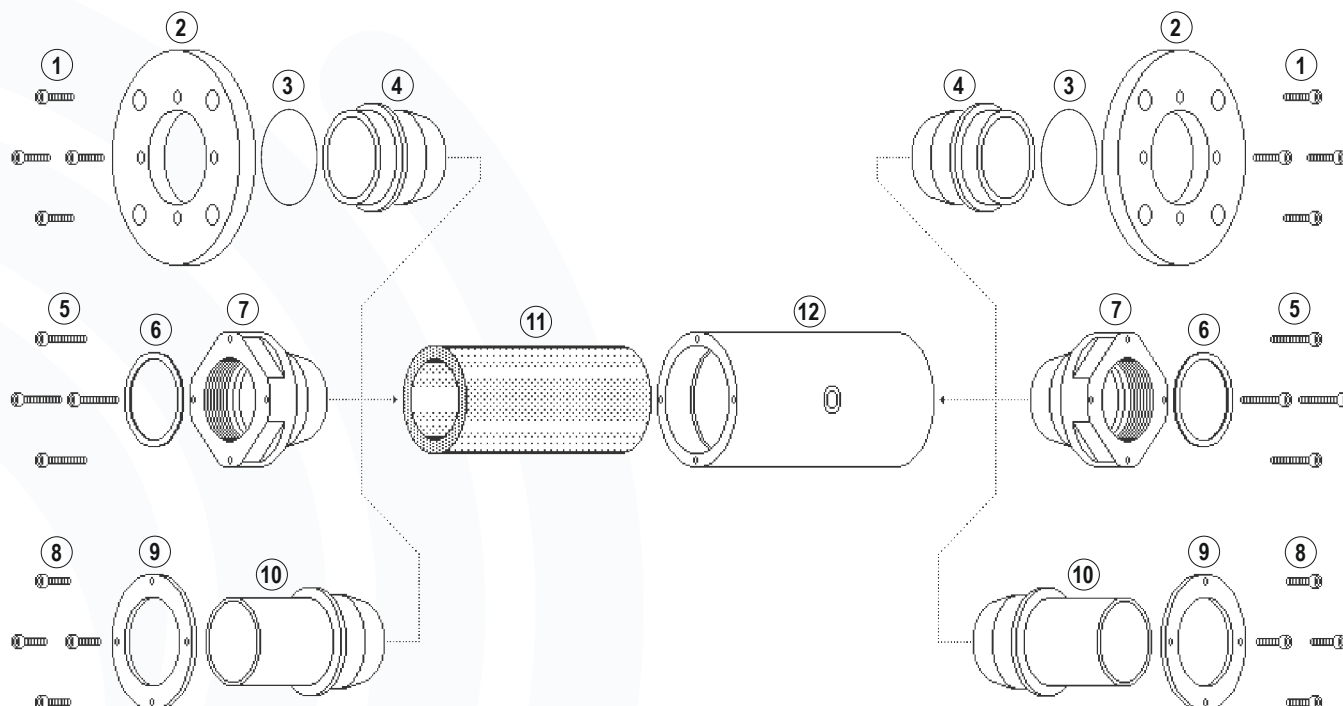
Material
Steel, galvanized
Aluminum Al Mg Si 0,5
NBR 70
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
NBR, white
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
Steel, galvanized
Aluminum Al Mg Si 0,5
Aluminum Al Mg 3
Stainless steel 316 Ti
NR, resistant to abrasion
NR, resistant to abrasion, ATEX-compliant
NR, inside white for food
EPDM for food
Viton® (FKM)
Aluminum Al Mg Si 0,5
Stainless steel 316 Ti

Pinch valves with nominal size 50 mm
QV 050


Item	Reference	Order code	Material
1	Pan head screw with hexagon socket	0912-05X025-STV	Steel, galvanized
2	Flange	QV-FL050-AL	Aluminum Al Mg Si 0,5
3	O-ring	060x002-ORI-NBR	NBR 70
4	Flange clamping sleeve	QV-FH050-AL	Aluminum Al Mg 3
	Flange clamping sleeve	QV-FH050-ES	Stainless steel 316 Ti
5	Pan head screw with hexagon socket	0912-05X030-STV	Steel, galvanized
6	Gasket	K-SZIG2DRG-NBR	NBR, white
7	Thread clamping sleeve	QV-GS050-AL	Aluminum Al Mg 3
	Thread clamping sleeve	QV-GS050-ES	Stainless steel 316 Ti
8	Pan head screw with hexagon socket	0912-05X020-STV	Steel, galvanized
	Washer	0125-05-B00-STV	Steel, galvanized
9	Pipe flange	QV-RF050-AL	Aluminum Al Mg Si 0,5
10	Pipe clamping sleeve	QV-RH050-AL	Aluminum Al Mg 3
	Pipe clamping sleeve	QV-RH050-ES	Stainless steel 316 Ti
11	Closing hose (MOLLET-sinus-hose)	QV-SM050-NR	NR, resistant to abrasion
	Closing hose (MOLLET-sinus-hose)	QV-SM050-NRE	NR, resistant to abrasion, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM050-NW	NR, food safe, white
	Closing hose (MOLLET-sinus-hose)	QV-SM050-EP	EPDM for food
	Closing hose (MOLLET-sinus-hose)	QV-SM050-EPE	EPDM for food, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM050VI	Viton® (FKM)
12	Housing	QV-GH050-AL	Aluminum Al Mg Si 0,5
	Housing	QV-GH050-ES	Stainless steel 316 Ti

Pinch valves with nominal size 65 mm

QV 065



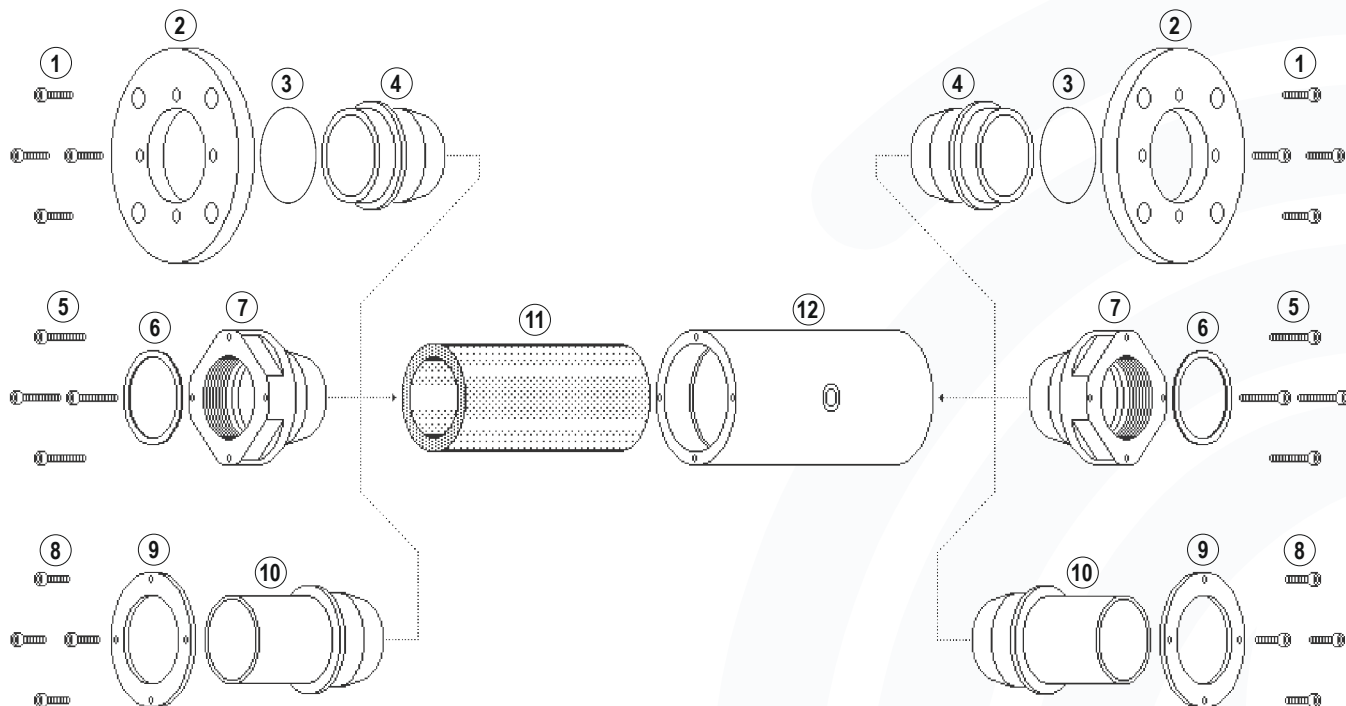
Item	Reference
1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
	Thread clamping sleeve
8	Pan head screw with hexagon socket
	Washer
9	Pipe flange
10	Pipe clamping sleeve
	Pipe clamping sleeve
11	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
12	Housing
	Housing

Order code
0912-05X025-STV
QV-FL065-AL
064x002-ORI-FPM
QV-FH065-AL
QV-FH065-ES
0912-05X035-STV
K-SZIG2 1/2 DRG-NBR
QV-GS065-AL
QV-GS065-ES
0912-05X020-STV
0125-05-B00-STV
QV-RF065-AL
QV-RH065-AL
QV-RH065-ES
QV-SM065-NR
QV-SM065-NRE
QV-SM065-NW
QV-SM065-EP
QV-SM065-EPE
QV-SM065-VI
QV-GH065-AL
QV-GH065-ES

Material
Steel, galvanized
Aluminum Al Mg Si 0,5
FPM 70
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
NBR, white
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
Steel, galvanized
Aluminum Al Mg Si 0,5
Aluminum Al Mg 3
Stainless steel 316 Ti
NR, resistant to abrasion
NR, resistant to abrasion, ATEX-compliant
NR, inside white for food
EPDM for food
EPDM for food, ATEX-compliant
Viton® (FKM)
Aluminum Al Mg Si 0,5
Stainless steel 316 Ti

Pinch valves with nominal size 80 mm

QV 080



Item Reference

1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
	Thread clamping sleeve
8	Pan head screw with hexagon socket
	Washer
9	Pipe flange
10	Pipe clamping sleeve
	Pipe clamping sleeve
11	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	MOLLET-sinus-hose
	Closing hose (MOLLET-sinus-hose)
12	Housing
	Housing

Order code

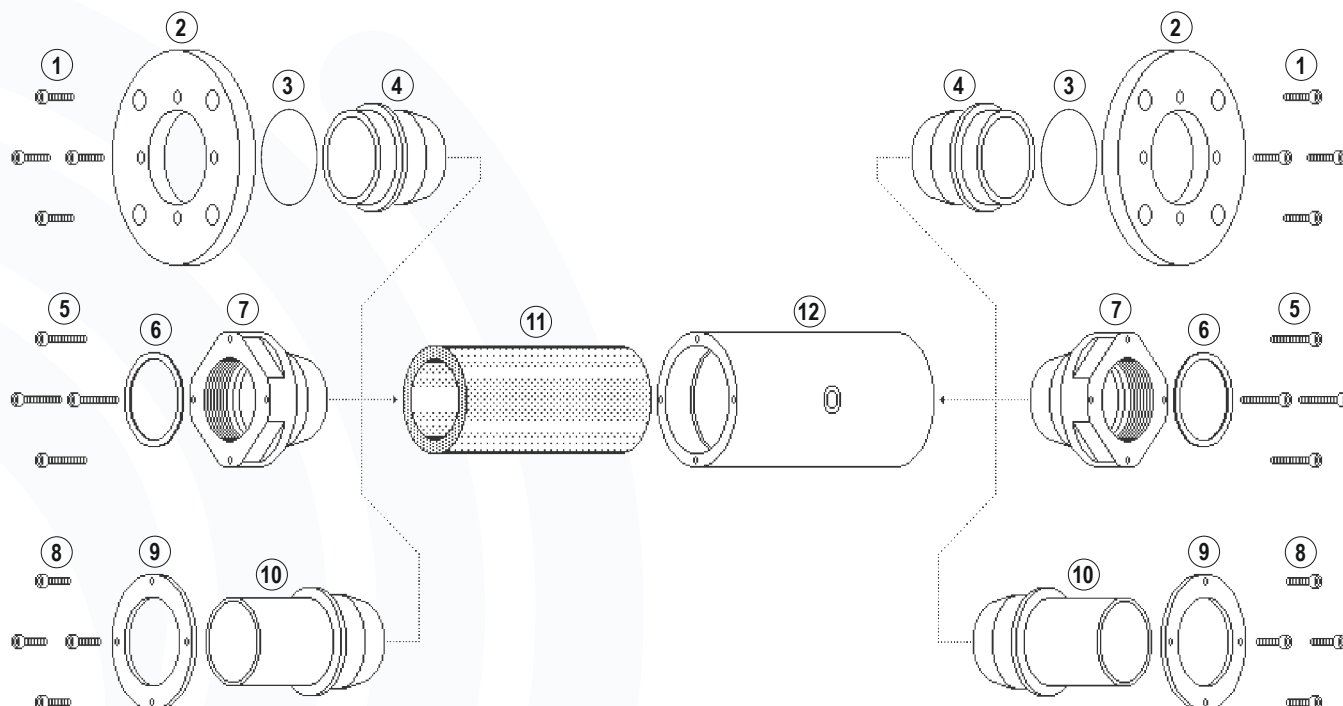
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088x002-ORI-NBR
QV-FH080-AL
QV-FH080-ES
0912-06X030-STV
K-SZIG3DRG-NBR
QV-GS080-AL
QV-GS080-ES
0912-06X025-STV
0125-06-B00-STV
QV-RF080-AL
QV-RH080-AL
QV-RH080-ES
QV-SM080-NR
QV-SM080-NRE
QV-SM080-NW
QV-SM080-EP
QV-SM080-EPE
QV-SM080-VI
QV-GH080-AL
QV-GH080-ES

Material

Steel, galvanized
Aluminum Al Mg Si 0,5
FPM 70
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
NBR, white
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
Steel, galvanized
Aluminum Al Mg Si 0,5
Aluminum Al Mg 3
Stainless steel 316 Ti
NR, resistant to abrasion
NR ,resistant to abrasion, ATEX-compliant
NR, inside white for food
EPDM for food
EPDM for food, ATEX-compliant
Viton® (FKM)
Aluminum Al Mg Si 0,5
Stainless steel 316 Ti

Pinch valves with nominal size 100 mm

QV 100

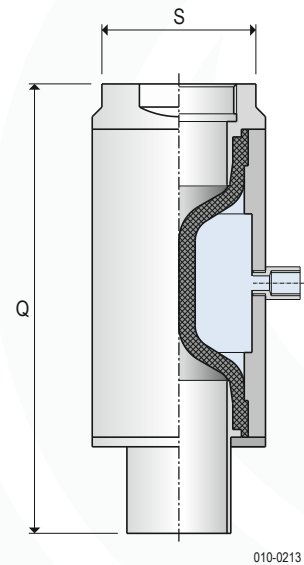
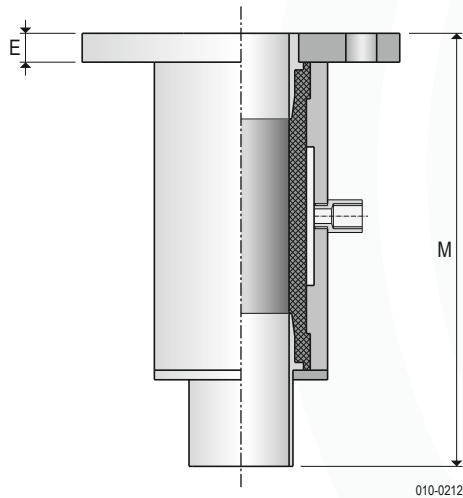
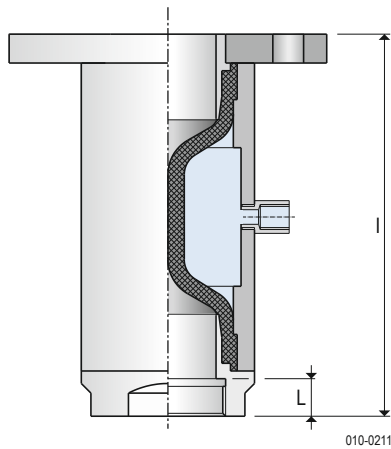
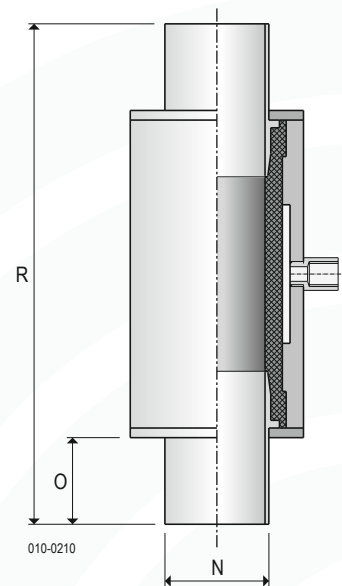
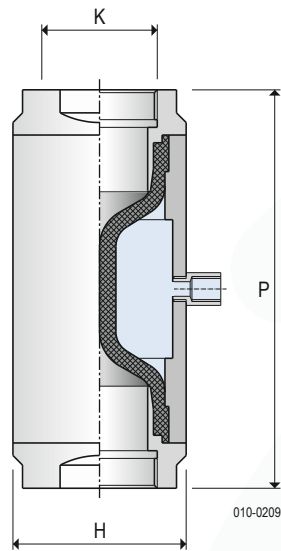
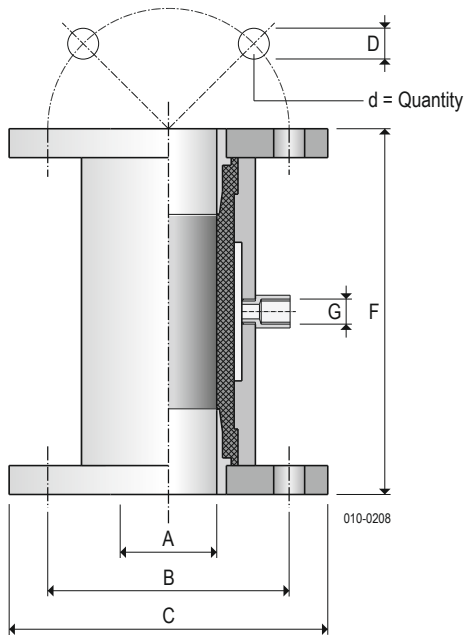


Item	Reference
1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
8	Pan head screw with hexagon socket
9	Pipe flange
10	Pipe clamping sleeve
11	Closing hose (MOLLET-sinus-hose)
12	Housing

Order code
0912-06X025-STV
QV-FL100-AL
115x002-ORI-NBR
QV-FH100-AL
QV-FH100-ES
0912-06X030-STV
K-SZIG4DRG-NBR
QV-GS100-AL
QV-GS100-ES
0912-06X025-STV
0125-06-B00-STV
QV-RF100-AL
QV-RH100-AL
QV-RH100-ES
QV-SM100-NR
QV-SM100-NRE
QV-SM100-NW
QV-SM100-EP
QV-SM100-EPE
QV-SM100-VI
QV-GH100-AL
QV-GH100-ES

Material
Steel, galvanized
Aluminum Al Mg Si 0,5
NBR 70
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
NBR, white
Aluminum Al Mg 3
Stainless steel 316 Ti
Steel, galvanized
Aluminum Al Mg Si 0,5
Aluminum Al Mg 3
Stainless steel 316 Ti
NR, resistant to abrasion
NR, resistant to abrasion, ATEX-compliant
NR, inside white for food
EPDM for food
EPDM for food, ATEX-compliant
Viton® (FKM)
Aluminum Al Mg Si 0,5
Stainless steel 316 Ti

Dimensions



																				Volume of control chamber*
Typ/type	A	B	C	D	d	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	
QV013	13							1/8	40		½	14				120			35	0,02
QV020	20							1/8	50		¾	15				130			40	0,03
QV025	25							1/8	55		1	15				130			46	0,04
QV032	32							1/8	70		1¼	15				165			60	0,06
QV040	40	110	150	M16	4	12	178	1/8	80	188	1½	18	216	40x1,5	45	197	226	254	70	0,12
QV050	50	125	165	M16	4	15	190	1/8	90	199	2	20	225	50x1,5	45	207	234	260	80	0,20
QV065	65	145	185	M16	4	15	225	1/4	110	233	2½	20	280	65x2	65	240	288	335	100	0,40
QV080	80	160	200	M16	4	15	270	1/4	140	280	3	23	335	80x2	74	290	345	400	125	0,80
QV100	100	180	220	M16	8	15	310	1/4	160	320	4	23	396	100x2	93	330	406	482		1,45

* Consumption per switching function in liter under normal conditions

EU-Konformitätserklärung EU Declaration of Conformity

Sinus-Quetschventil / Sine pinch valve

Produkt / Product	Version
MOLOSvalve	QV013, QV020, QV025, QV032, QV040, QV050, QV065, QV080, QV100

MOLLET Füllstandtechnik GmbH erklärt hiermit in alleiniger Verantwortung, dass die Produkte mit den aufgeführten Richtlinien übereinstimmen. Diese Konformitätserklärung gilt nur in Zusammenhang mit den gültigen Betriebsanleitungen und Sicherheitshinweisen der MOLLET Füllstandtechnik GmbH.

MOLLET Füllstandtechnik GmbH hereby declares under its sole responsibility that the products comply with the listed directives. This declaration of conformity only applies in conjunction with the valid operating instructions and safety instructions of MOLLET Füllstandtechnik GmbH.

Richtlinie / Directive	angewandte harmonisierte Normen oder normative Dokumente / applied harmonized standards or normative documents

Geräte mit  - Kennzeichnung entsprechen zusätzlich folgender Richtlinie:
Devices with  - labelling also comply with the following directive:

Richtlinie / Directive	angewandte harmonisierte Normen oder normative Dokumente / applied harmonized standards or normative documents
ATEX 2014/34/EU	EN ISO 80079-36:2016

EU-Baumusterprüfbescheinigungsnummer /
EU-Type Examination Certificate No.:

IBExU08ATEX1012X

Ausgestellt von / Issued by:

IBExU Institut für Sicherheitstechnik GmbH, 09599 Freiberg (0637)

Prüfprotokollnummer /
Test report number.:

ATEX-PP-08-925 X

Qualitätssicherung /
Quality assurance:

TÜV AUSTRIA GMBH, Deutschstraße 10, 1230 Wien / Austria (0408)

MOLLET Füllstandtechnik GmbH
Industriepark RIO 103
74706 Osterburken
DEUTSCHLAND

Osterburken, 06.05.2026


Wolfgang Hageleit
Geschäftsführer / Managing director

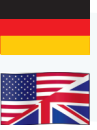


Einbauerklärung

im Sinne der EG-Richtlinie Maschinen 2006/42/EG, Anhang II, Nr. 1 B

Declaration of Incorporation

according to EC Machinery Directive 2006/42/EC, Annex II, part 1 B



Wir/We

MOLLET Füllstandtechnik GmbH

Industriepark RIO 103
D-74706 Osterburken
Tel. 06291 64400 Fax 06291 9846

erklären hiermit, dass das druckhaltende Ausrüstungsteil:

pneumatisches Sinus-Quetschventil
MOLOSvalve

der Typenreihe: **QV ... - ... - ...**

mit den elektrischen Betriebsmitteln:
Magnetventil und Druckschalter der Typenreihe:

0 820 005 ... und Q-DS901-3

in der gelieferten Ausführung zum Einbau in eine Ausrüstung, Anlage oder Maschine bestimmt sind und alle grundlegenden Anforderungen der Maschinenrichtlinie 2006/42/EG erfüllen, soweit es im Rahmen des Lieferumfangs möglich ist. Ferner erklären wir, dass die speziellen technischen Unterlagen nach Anhang VII, Nr. B erstellt wurden.

Die elektrischen Betriebsmittel entsprechen den Bestimmungen der Richtlinie 2014/30/EU über elektromagnetische Verträglichkeit, soweit es im Rahmen des Lieferumfangs möglich ist.

Die Schutzziele der Richtlinie 2014/35/EU über elektrische Betriebsmittel werden eingehalten.

Wir verpflichten uns, den Marktaufsichtsbehörden auf begründetes Verlangen die speziellen Unterlagen zu den Quetschventilen über unsere Dokumentationsabteilung zu übermitteln.

Die Quetschventile dürfen erst dann in Betrieb genommen werden, wenn ggf. festgestellt wurde, dass die Ausrüstung, Anlage oder Maschine, in die diese Quetschventile eingebaut werden sollen, den Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht und die EU-Konformitäts-erklärung gemäß Anhang II, Nr. 1 A ausgestellt ist.

Osterburken, 07.07.2019



Diese Erklärung darf nur unverändert
weiterverbreitet werden.

declare herewith, that the:

pneumatic sinus-pinch-valve
MOLOSvalve

of type series: **QV ... - ... - ...**

with the electrical accessories:
Solenoid valve and pressure switch of the series:

0 820 005 ... and Q-DS901-3

in the delivered version, are intended to be incorporated into other equipment, plant or machinery and are complying with all essential requirements of the Machinery Directive 2006/42/EC, as far as the scope of delivery allows. Additional we declare that the relevant technical documentation is compiled in accordance with part B of Annex VII.

The pinch valves are in conformity with the EC Directive 2014/30/EU relating to electromagnetic compatibility, as far as the scope of delivery allows.

The safety objectives of the EC Directive 2014/35/EU relating to electrical equipment are observed.

We commit to transmit, in response to a reasoned request by the market surveillance authorities, relevant documents on the pinch valves by our documentation department.

The pinch valves must not be put into service, until the final equipment, plant or machinery into which the pinch valve is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC, where appropriate, and until the EU Declaration of Conformity according to part 1 A of Annex II is issued.

Osterburken, July 7th, 2019

Wolfgang Hageleit
Geschäftsführer / Managing director

This declaration is only allowed to
hand out in unchanged form.

EU-Konformitätserklärung EU Declaration of Conformity

Sinus-Quetschventil / Sine pinch valve

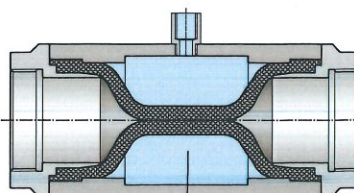
Produkt / Product	Version
MOLOSvalve	QV032, QV040, QV050, QV065, QV080, QV100

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MOLLET Füllstandtechnik GmbH hereby declares under its sole responsibility that the products comply with the listed directives. This declaration of conformity only applies in conjunction with the valid operating instructions and safety instructions of MOLLET Füllstandtechnik GmbH.

Richtlinie / Directive	angewandte harmonisierte Normen oder normative Dokumente / applied harmonized standards or normative documents
2014/68/EU	EN12266-1, EN12266-2

Einstufung gemäß 2014/68/EU Classification acc. to 2014/68/EU



Förderleitung: Feed line:

Steuerdruck-Kammer: Control pressure chamber:

Druckgeräteart:
Type of pressure equipment:

Druckhaltendes Ausrüstungsteil
Pressure-retaining equipment part

Behälter
Container

Mediumeigenschaft nach Artikel 13:
Fluid group acc. to art. 13:

Fluide der Gruppe 1 - gefährlich
Fluid Group 1 - dangerous

Fluide der Gruppe 2
Fluid Group 2

Mediumzustand:
Condition of fluid:

gasförmig oder flüssig, wenn
gaseous or liquid, if
pD > 0,5 bar

gasförmig oder flüssig, wenn
gaseous or liquid, if
pD > 0,5 bar

Klassifizierung:
Classification:

Kategorie I
Category I

gute Ingenieurspraxis nach
Artikel 4, Absatz 3
sound engineering practice acc.
to article 4, paragraph 3

Angewandetes Konformitätsverfahren:
Conformity assessment procedure:

Modul A
Module A

keines
none

Qualitätssicherung /
Quality assurance:

TÜV AUSTRIA GMBH, Deutschstraße 10, 1230 Wien / Austria (0408)

MOLLET Füllstandtechnik GmbH
Industriepark RIO 103
74706 Osterburken
DEUTSCHLAND



Osterburken, 12.12.2025

[Signature]
Wolfgang Hageleit
Geschäftsführer / Managing director