

Sinus pinch valve

for exact shutting off, distribution and dosing

QV

Appliance information

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MOLLET shuts off exactly

ATEX options

Gas and Dust 

B6	II 2G IIB	and II 2D IIIB	(attach B6 to the order code)
B11	II 1/2G IIB	and II 1/2D IIIB	(attach B11 to the order code)
B22	II 1G IIB	and II 1D IIIB	(attach B22 to the order code)

CE

usable up to 6 bar and up to DN 100 for hazardous gases and liquids
for example in pneumatic conveyer systems of flammable dusts etc.

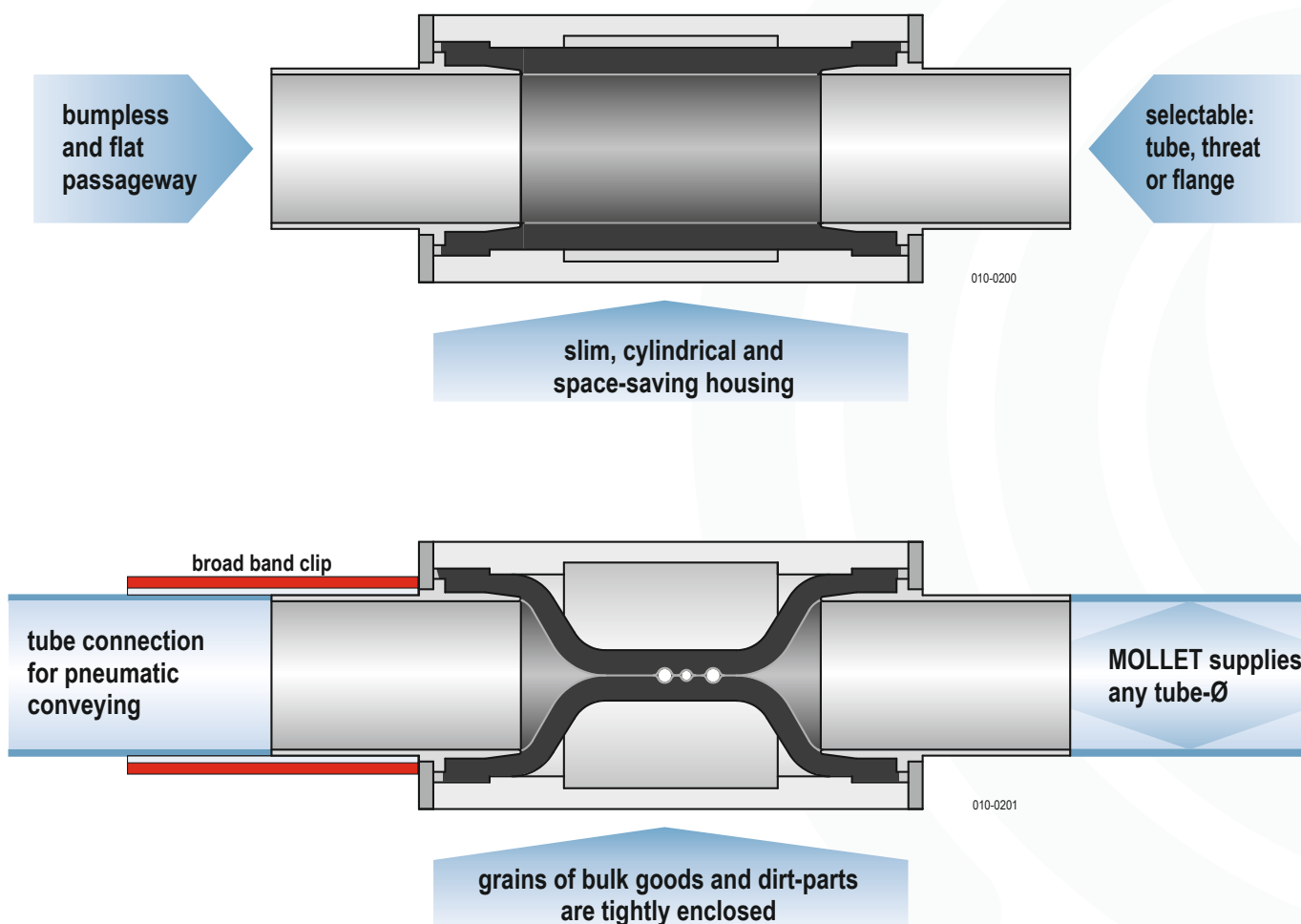
Mode of operation

- simple principle
- the cylindrical, elastic hose will be squeezed either by compressed air or by water pressure
- existing solids will be enclosed
- after pressure release of the control pressure, the hose opens and returns in its original and circular shape

Use

- pneumatic conveyors
- Food industry
- Chemical industry
- Environment technology
- Construction industry
- Silos

For exact shutting off, distribute, and dose from powdery, granular, viscous, soiled and aggressive substances and gases.



Closing operation



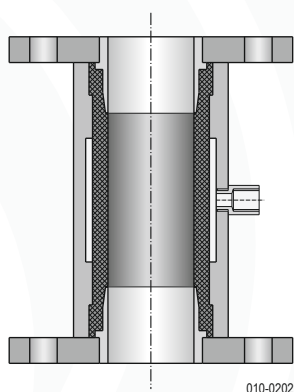
Advantages

- opens always in a circular shape
- 60-70% less compressed air
- less abrasion
- long service life of hoses
- easy change of hoses

Construction

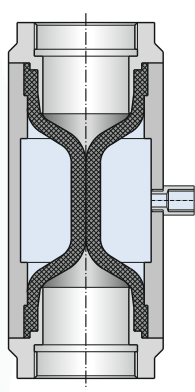
- simple construction and thereby safe to operate
- in the aluminium housing a rubber hose is installed, reinforced with fabric inlay and fixed with two clamping sleeves
- straight, not reduced passage
- no jam
- no pressure drop

-FF- (flange-flange)



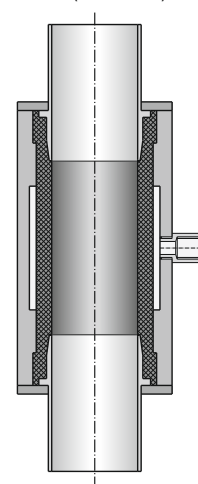
010-0202

-GG- (thread-thread)



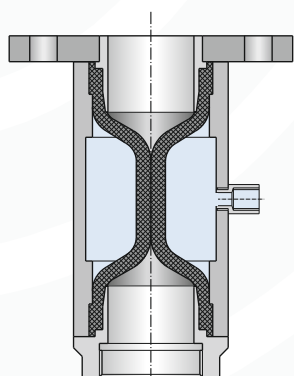
010-0203

-RR- (tube-tube)



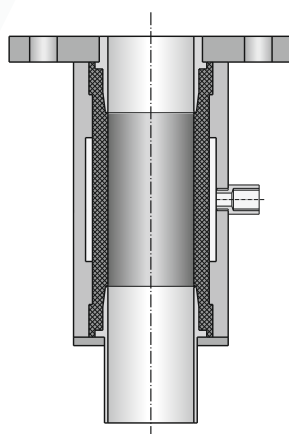
010-0204

-FG- (flange-thread)



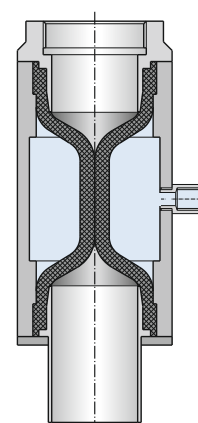
010-0205

-FR- (flange-tube)



010-0206

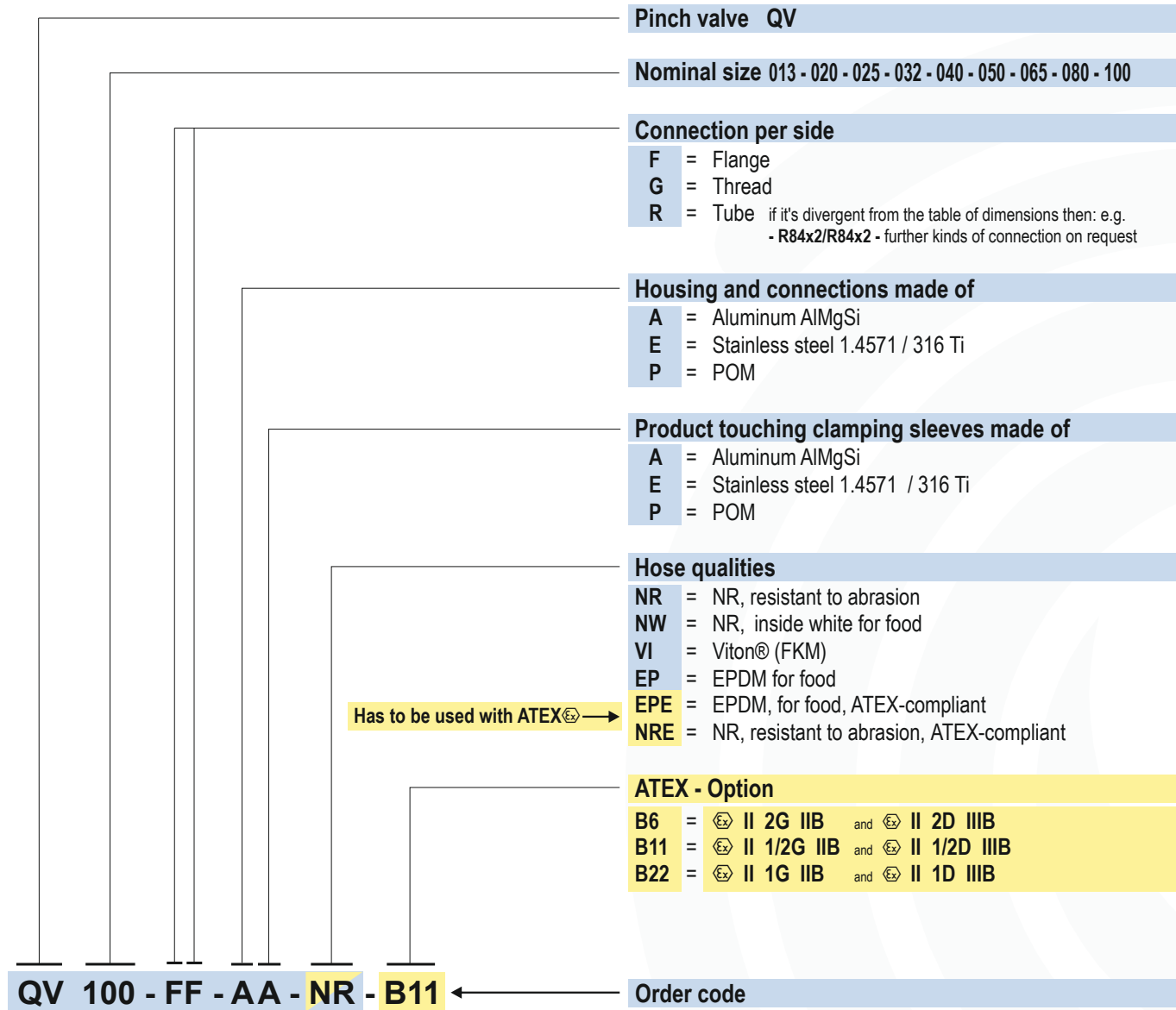
-GR- (thread-tube)



010-0207



Type marking



Temperature range

Process temperature with hose made of

NR	max.	+80 °C wet
NW	max.	+70 °C wet
VI	max.	+100 °C wet
EP	max.	+120 °C wet
NRE	max.	+80 °C wet

Ambient temperature Ta -20 °C ... +70 °C

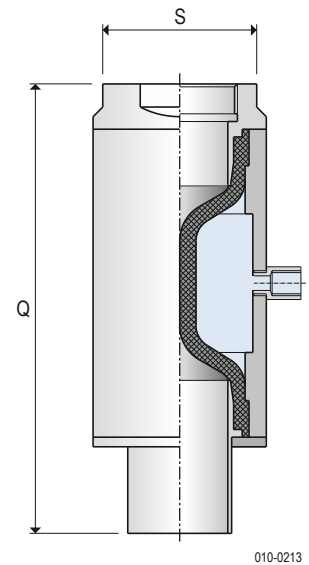
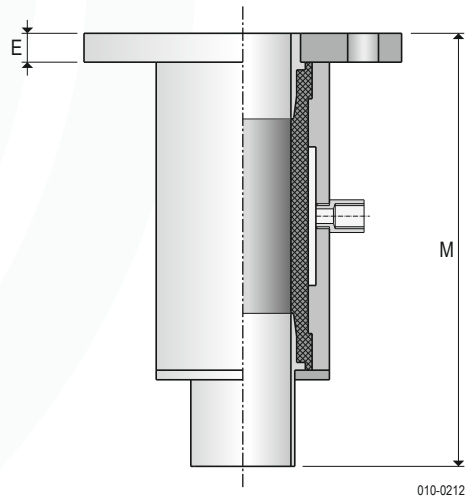
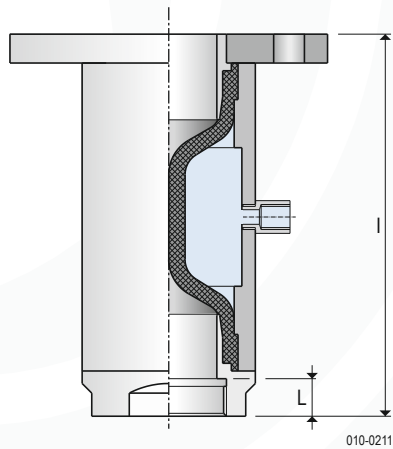
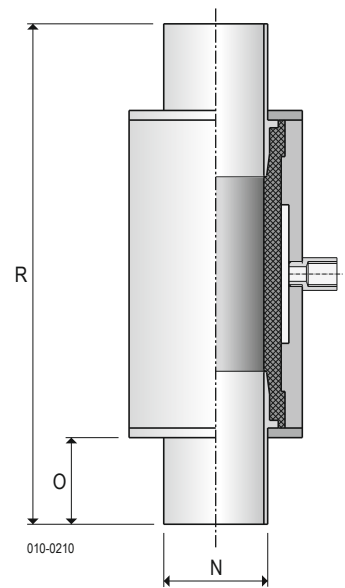
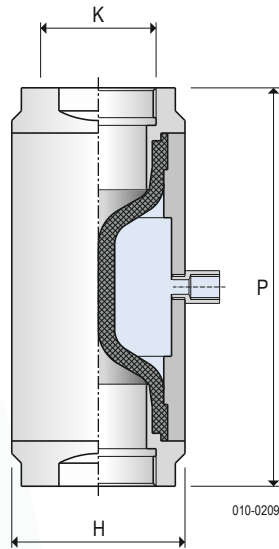
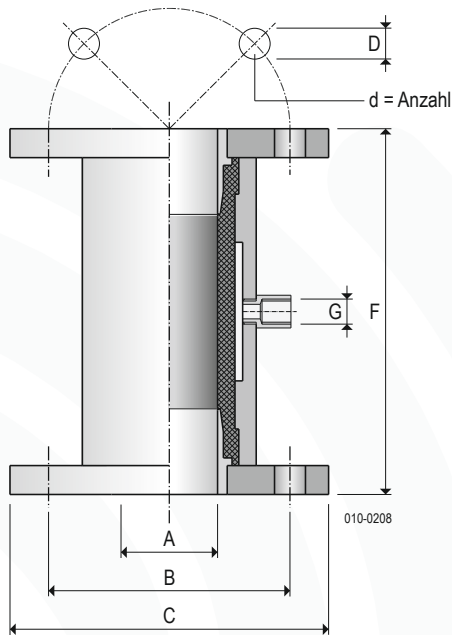
Further hose qualities on request

Working data

Process pressure	maximum 4.0 bar, DN 13 and 20 up to 6.0 bar
Control pressure	2.5 bar over the process pressure
Difference in pressure	maximum 2.5 bar
Mounting position	any

Higher process pressures on request

Dimensions



Volume of control
chamber *

Typ	A	B	C	D	d	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	NI
QV013	13							1/8	40		1/2	14				120			35	0.02
QV020	20							1/8	50		3/4	15				130			40	0.03
QV025	25							1/8	55		1	15				130			46	0.04
QV032	32							1/8	70		1 1/4	15				165			60	0.06
QV040	40	110	150	M16	4	12	178	1/8	80	188	1 1/2	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	2 1/2	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

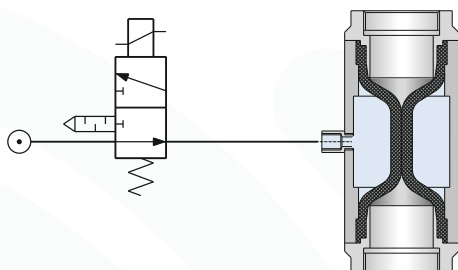
* Consumption per switching function in liter under normal conditions

Notes



Examples of circuit diagrams

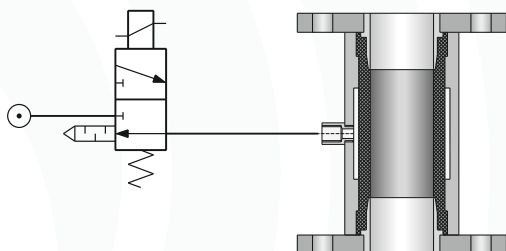
Pinch valve - normally closed



010-0214

3/2 - way solenoid valve ———▶ normally open
Pinch valve ———▶ normally closed

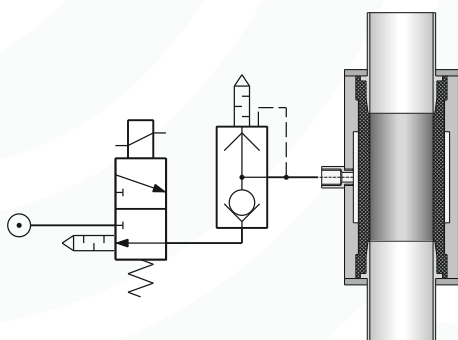
Pinch valve - normally open



010-0215

3/2 - way solenoid valve ———▶ normally closed
Pinch valve ———▶ normally open

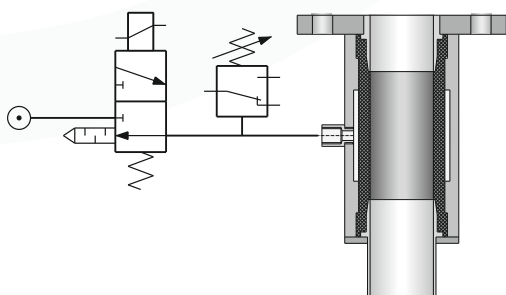
Pinch valve - with quick air-exhaust valve



010-0216

3/2 - way solenoid valve
with quick air-exhaust valve (opens the QV very fast)

Pinch valve - with compressed-air switch

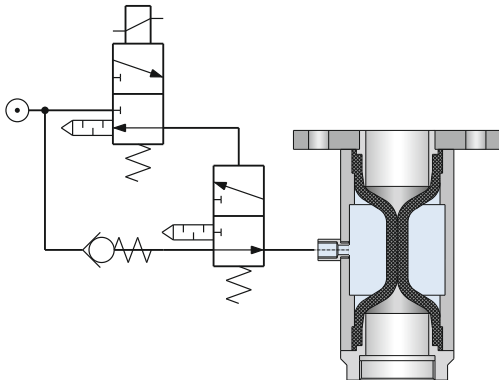


010-0217

3/2 - way solenoid valve
with compressed-air switch (signalises QV blocked or hose defect)

Examples of circuit diagrams

Pinch valve - in case of voltage breakdown and/or compressed air failure

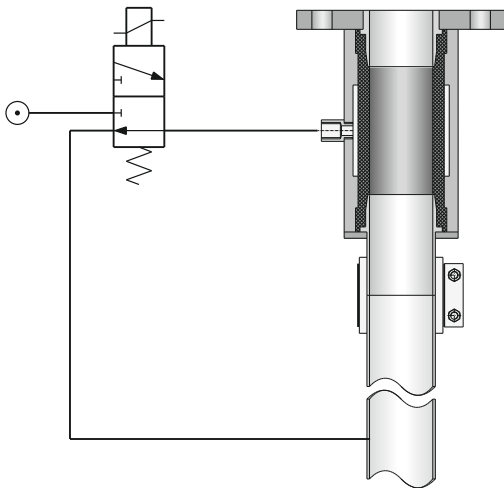


010-0218

One 3/2 way solenoid valve and one 3/2 - way valve

Pinch valve —————> keeps closed
in case of voltage breakdown and/or compressed-air failure

Pinch valve - valve for use vacuum



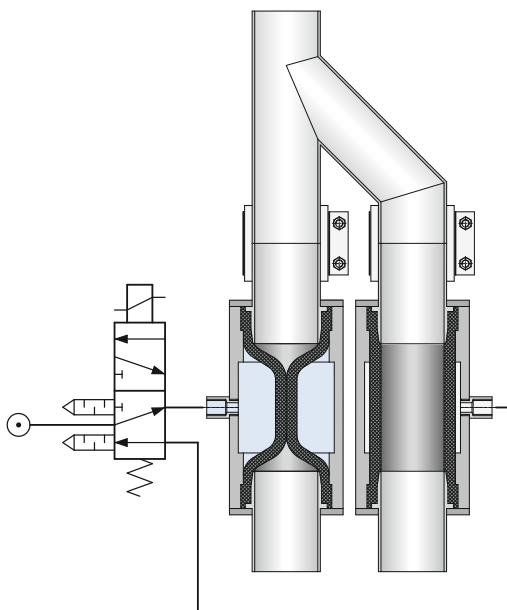
010-0219

Way solenoid valve

Valve for use in vacuum (vacuum conveying)

Connect vacuum to ventilation (R)

Y-diverter valve



010-0220

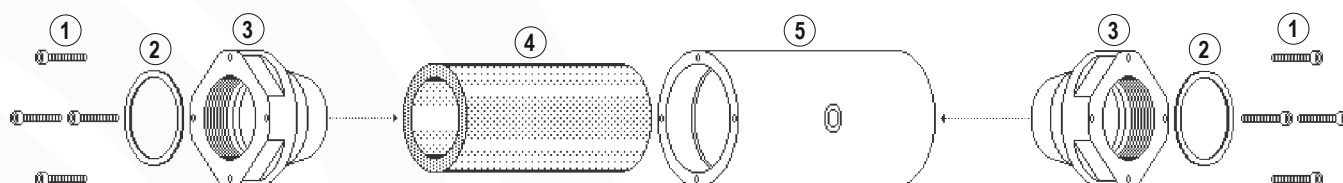
5/2 - way solenoid valve

Pinch valve 1 —————> normally closed

Pinch valve 2 —————> normally open

Pinch valves with nominal size 13 mm

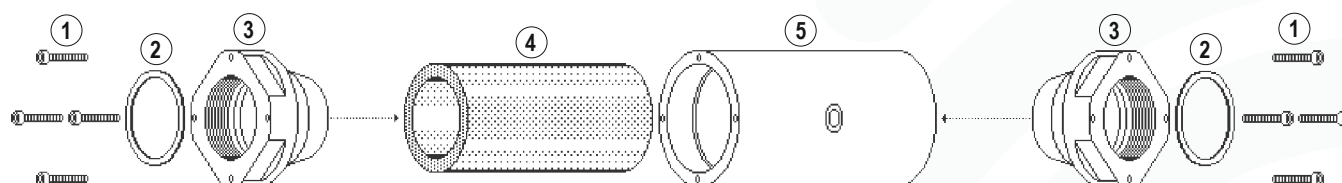
QV013



Item	Reference	Order code	Material
1	Pan head screw with hexagon socket	0912-04X020-STV	Steel, galvanized
2	Gasket	016-001-DIR-NBR	NBR, black
3	Thread clamping sleeve	QV-GS013-AL	Aluminum Al Mg 3
	Thread clamping sleeve	QV-GS025-ES	Stainless steel 316 Ti
	Thread clamping sleeve	QV-GS025-P	POM
4	Closing hose (MOLLET-sinus-hose)	QV-SM013-NR	NR, resistant to abrasion
	Closing hose (MOLLET-sinus-hose)	QV-SM013-NRE	NR, resistant to abrasion, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM013-NW	NR, food safe, white
	Closing hose (MOLLET-sinus-hose)	QV-SM013-EP	EPDM for food
	Closing hose (MOLLET-sinus-hose)	QV-SM013-VI	Viton® (FKM)
5	Housing	QV-GH013-AL	Aluminum Al Mg Si 0,5
	Housing	QV-GH013-ES	Stainless steel 316 Ti
	Housing	QV-GH013-P	POM

Pinch valves with nominal size 20 mm

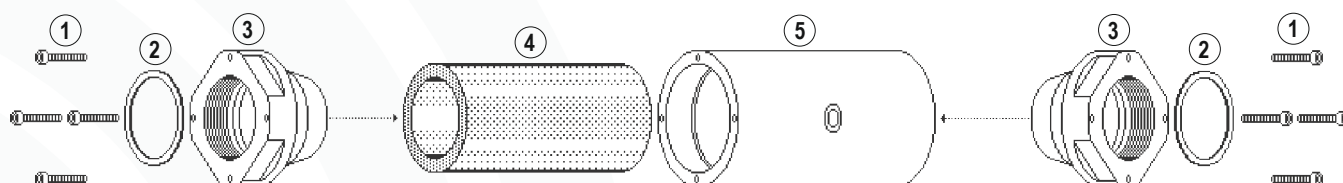
QV 020



Item	Reference	Order code	Material
1	Pan head screw with hexagon socket	0912-04X020-STV	Steel, galvanized
2	Gasket	020-002-DIR-NBR	NBR, black
3	Thread clamping sleeve	QV-GS020-AL	Aluminum Al Mg 3
	Thread clamping sleeve	QV-GS025-ES	Stainless steel 316 Ti
	Thread clamping sleeve	QV-GS025-P	POM
4	Closing hose (MOLLET-sinus-hose)	QV-SM020-NR	NR, resistant to abrasion
	Closing hose (MOLLET-sinus-hose)	QV-SM020-NRE	NR, resistant to abrasion, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM020-NW	NR, inside white for food
	Closing hose (MOLLET-sinus-hose)	QV-SM020-EP	EPDM for food
	Closing hose (MOLLET-sinus-hose)	QV-SM020-VI	Viton® (FKM)
5	Housing	QV-GH020-AL	Aluminum Al Mg Si 0,5
	Housing	QV-GH020-ES	Stainless Steel 316 Ti
	Housing	QV-GH020-P	POM

Pinch valves with nominal size 25 mm

QV 025



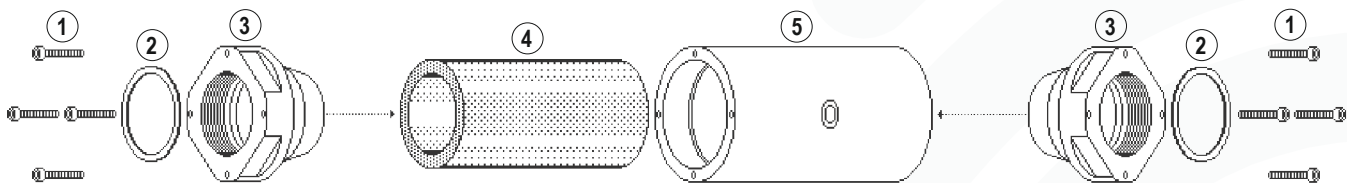
Item	Reference
1	Pan head screw with hexagon socket
2	Gasket
3	Thread clamping sleeve
	Thread clamping sleeve
	Thread clamping sleeve
4	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
	Closing hose (MOLLET-sinus-hose)
5	Housing
	Housing
	Housing

Order code
0912-04X025-STV
025-002-DIR-NBR
QV-GS025-AL
QV-GS025-ES
QV-GS025-P
QV-SM025-NR
QV-SM025-NRE
QV-SM025-NW
QV-SM025-EP
QV-SM025-VI
QV-GH025-AL
QV-GH025-ES
QV-GH025-P

Material
Steel, galvanized
NBR, white
Aluminum Al Mg 3
Stainless steel 316 Ti
POM
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
POM

Pinch valves with nominal size 32 mm

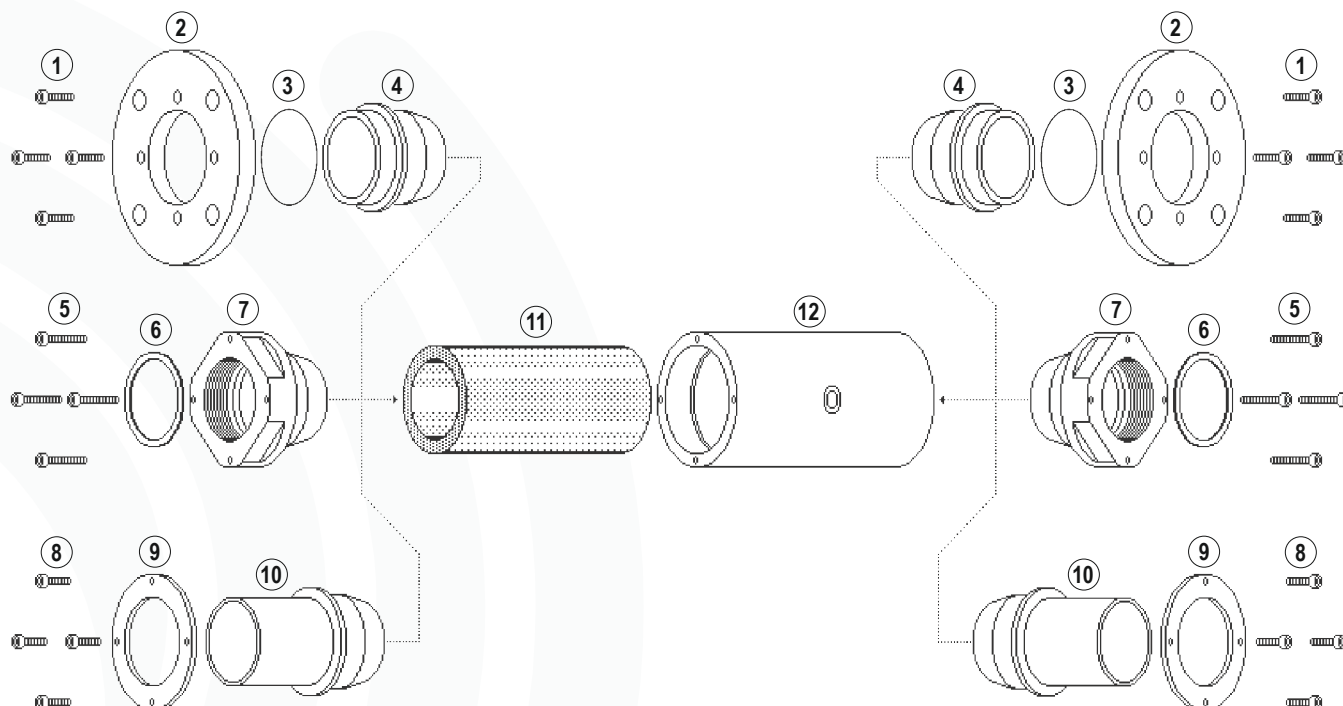
QV 032



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



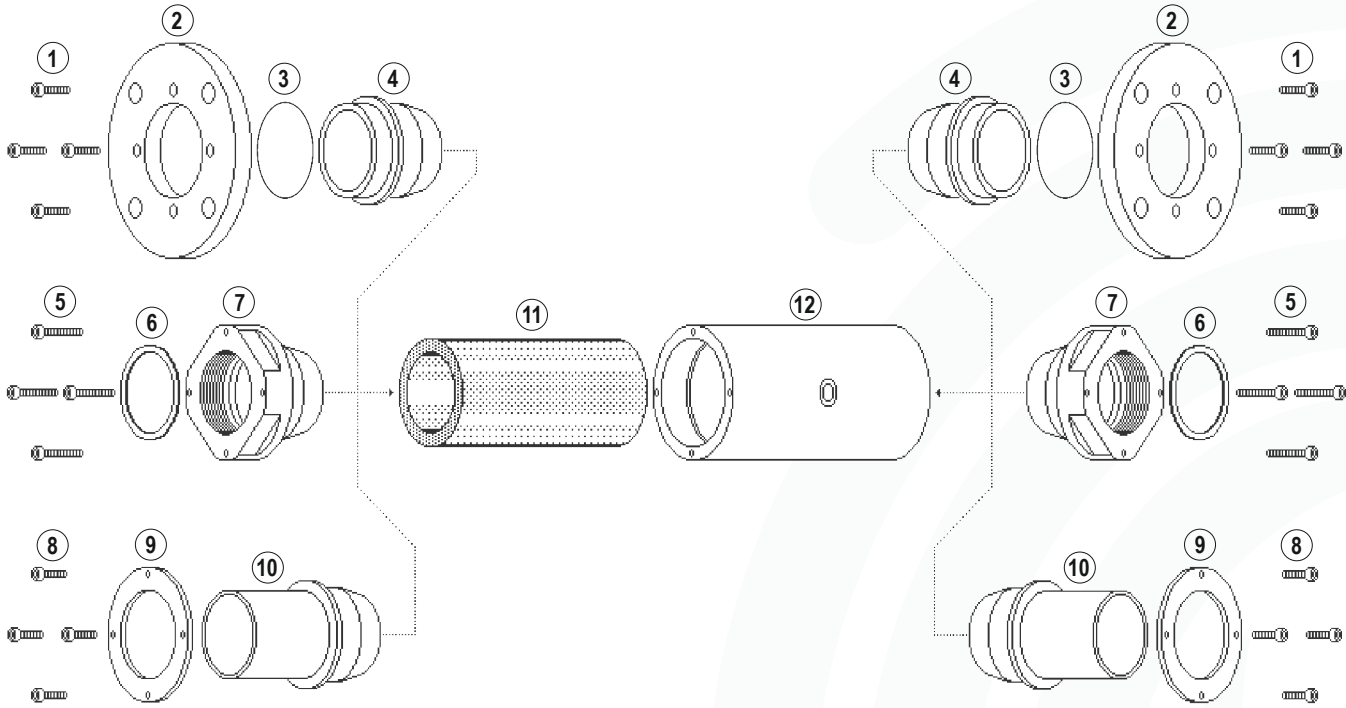
Item	Reference
1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
	Thread clamping sleeve
8	Pan head screw with hexagon socket
	Washer
9	Pipe flange
10	Pipe clamping sleeve
	Pipe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

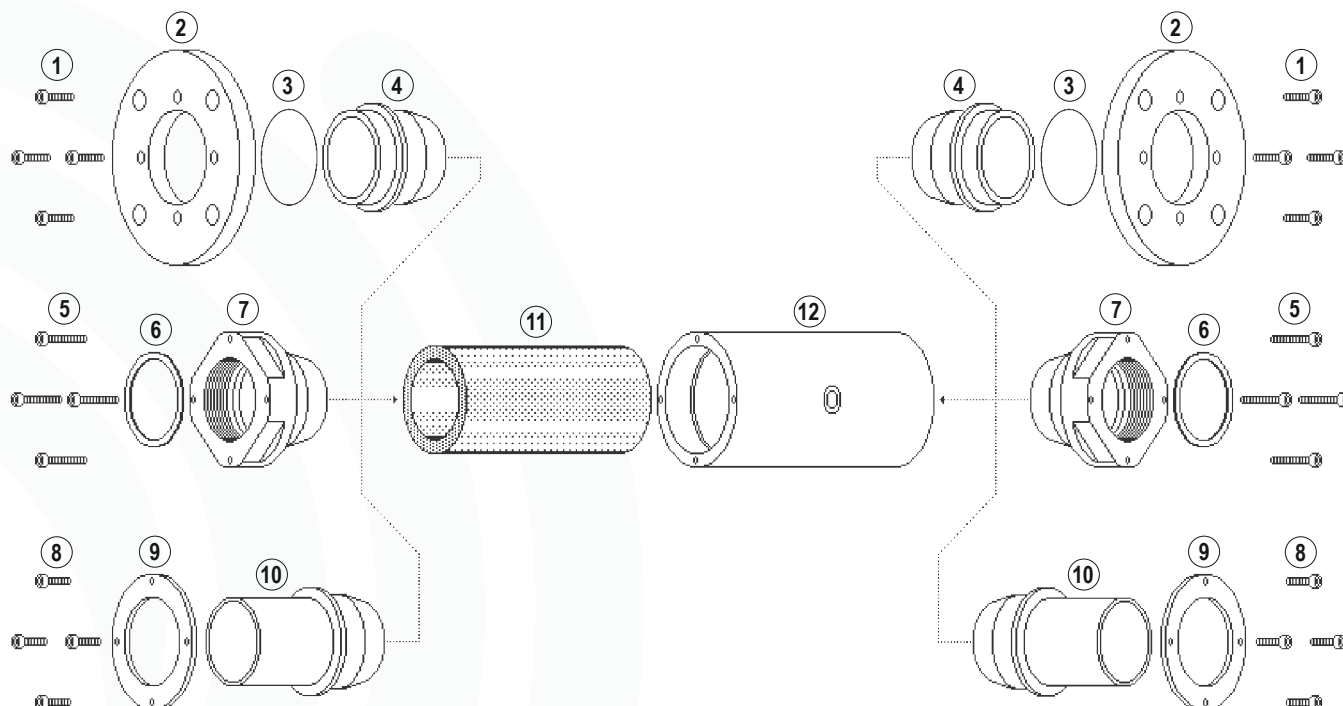
QV 050



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



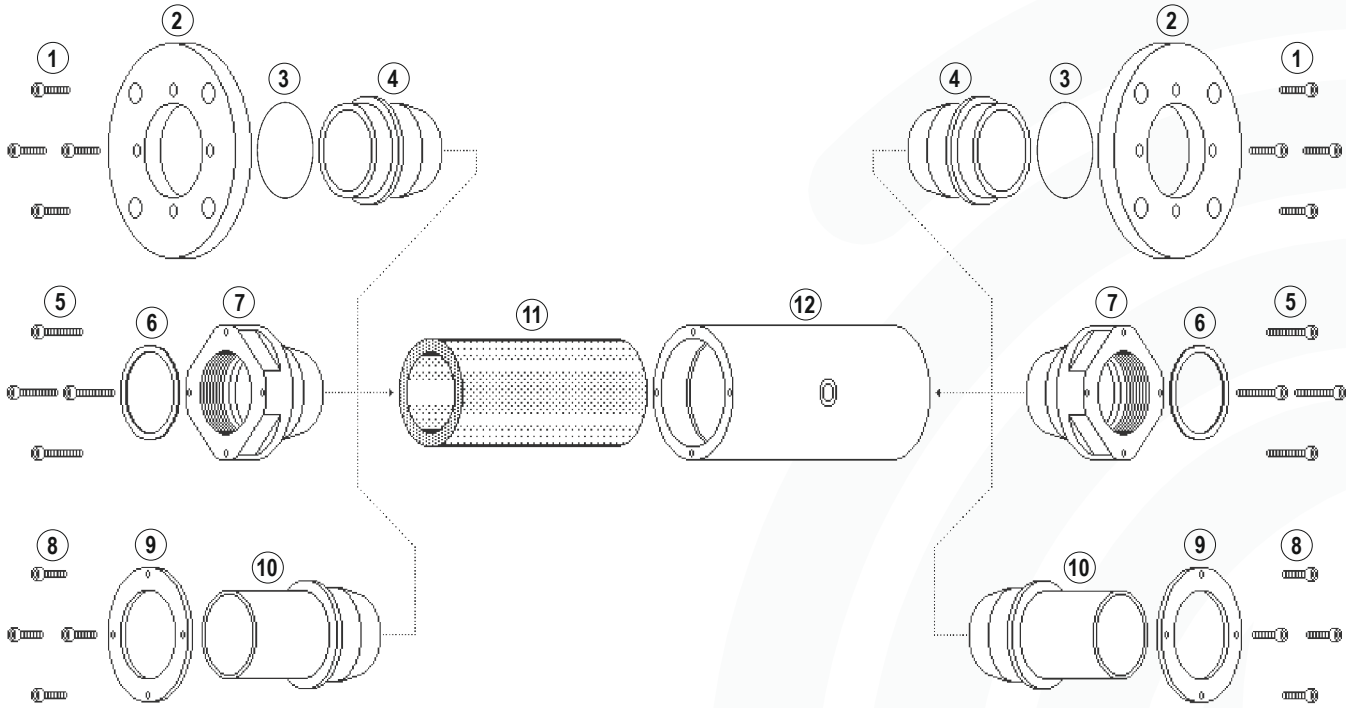
Item	Reference
1	Pan head screw with hexagon socket
2	Flange
3	O-ring
4	Flange clamping sleeve
	Flange clamping sleeve
5	Pan head screw with hexagon socket
6	Gasket
7	Thread clamping sleeve
	Thread clamping sleeve
8	Pan head screw with hexagon socket
	Washer
9	Pipe flange
10	Pipe clamping sleeve
	Pipe 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

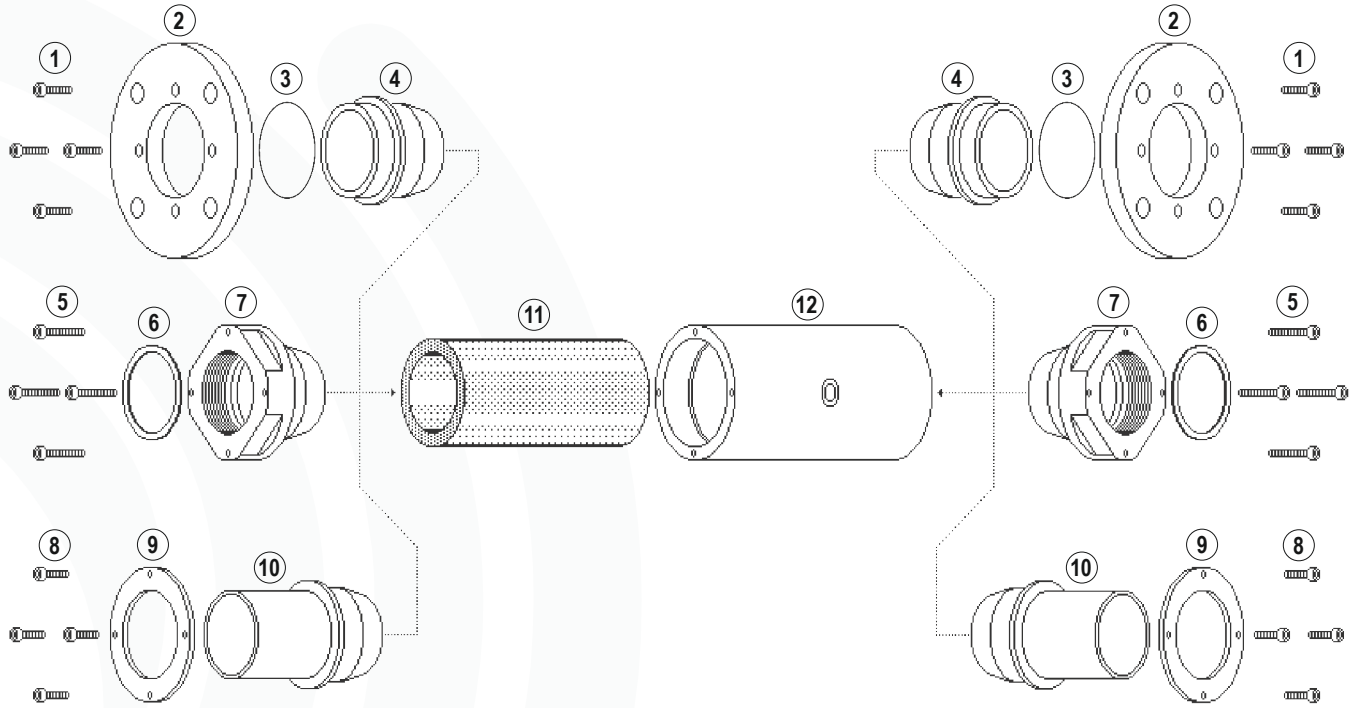
QV 080



Item	Reference	Order code	Material
1	Pan head screw with hexagon socket	0912-06X025-STV	Steel, galvanized
2	Flange	QV-FL080-AL	Aluminum Al Mg Si 0,5
3	O-ring	088x002-ORI-NBR	FPM 70
4	Flange clamping sleeve	QV-FH080-AL	Aluminum Al Mg 3
	Flange clamping sleeve	QV-FH080-ES	Stainless steel 316 Ti
5	Pan head screw with hexagon socket	0912-06X030-STV	Steel, galvanized
6	Gasket	K-SZIG3DRG-NBR	NBR, white
7	Thread clamping sleeve	QV-GS080-AL	Aluminum Al Mg 3
	Thread clamping sleeve	QV-GS080-ES	Stainless steel 316 Ti
8	Pan head screw with hexagon socket	0912-06X025-STV	Steel, galvanized
	Washer	0125-06-B00-STV	Steel, galvanized
9	Pipe flange	QV-RF080-AL	Aluminum Al Mg Si 0,5
10	Pipe clamping sleeve	QV-RH080-AL	Aluminum Al Mg 3
	Pipe clamping sleeve	QV-RH080-ES	Stainless steel 316 Ti
11	Closing hose (MOLLET-sinus-hose)	QV-SM080-NR	NR, resistant to abrasion
	Closing hose (MOLLET-sinus-hose)	QV-SM080-NRE	NR ,resistant to abrasion, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM080-NW	NR, inside white for food
	Closing hose (MOLLET-sinus-hose)	QV-SM080-EP	EPDM for food
	MOLLET-sinus-hose	QV-SM080-EPE	EPDM for food, ATEX-compliant
	Closing hose (MOLLET-sinus-hose)	QV-SM080-VI	Viton® (FKM)
12	Housing	QV-GH080-AL	Aluminum Al Mg Si 0,5
	Housing	QV-GH080-ES	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
	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
0912-06X025-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

Notes



Accessories

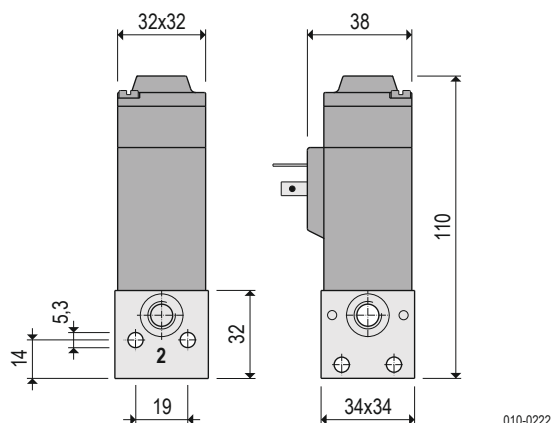
for pinch valves and
silo filling devices

QV / SFA

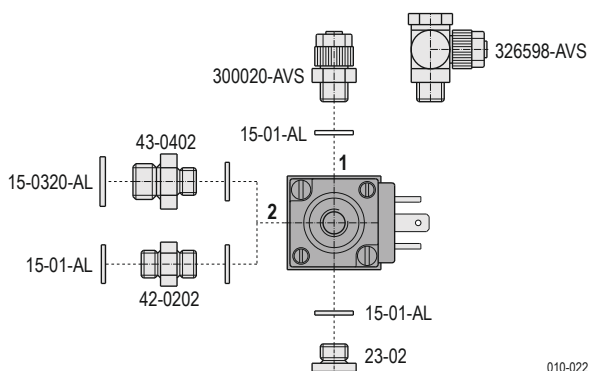
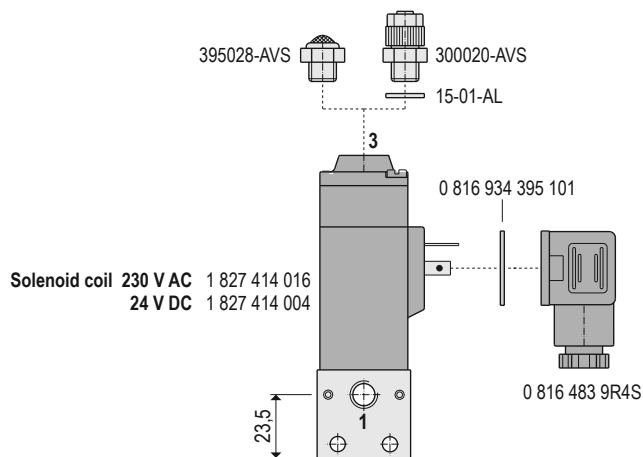
Appliance information

Index	Page
3/2 way solenoid valve (AVENTICS) normally closed	02
3/2 way solenoid valve (AVENTICS) normally open	03
3/2 way solenoid valve (API) normally closed	04
3/2 way solenoid valve (API) normally open	05
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Quick exhaust valve Compressed air switch - Type Q-DS901-3	07
Compressed air switch - Type PDC	08
Compressed air switch - Type C2051F (ATEX)	09

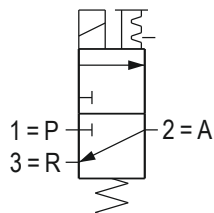
Dimensions



Components



Control scheme



Technical data

Type of construction	poppet valve with manual override for unlubricated compressed air
Sealing	elastic soft rubber seal (Viton®)
Solenoid coil	4 x 90° turnable
Connection thread	G 1/8
Mounting position	any
Ambient temperature	0 °C ... +50 °C
Nominal pressure	0 ... 10 bar
Nominal flow	from 1 to 2 100 l/min from 2 to 3 120 l/min
Nominal size	1.8
Type of protection	IP00 without socket connector IP65 with socket connector

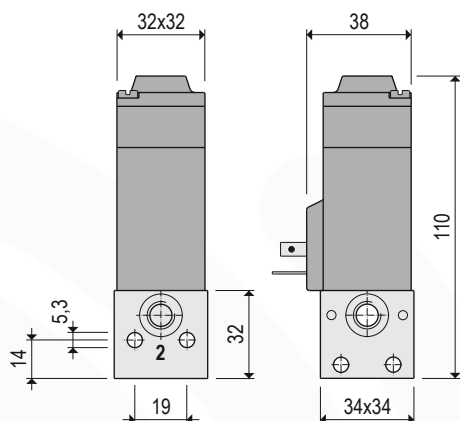
Electrical data

Power supply	230 V AC 24 V DC 24 V AC
Power consumption	with AC pick-up power 21 VA holding power 14 VA with DC 8 W
Operating time	ED 100 %
Electrical connection	socket connector, 4 x 90° turnable

Type designation

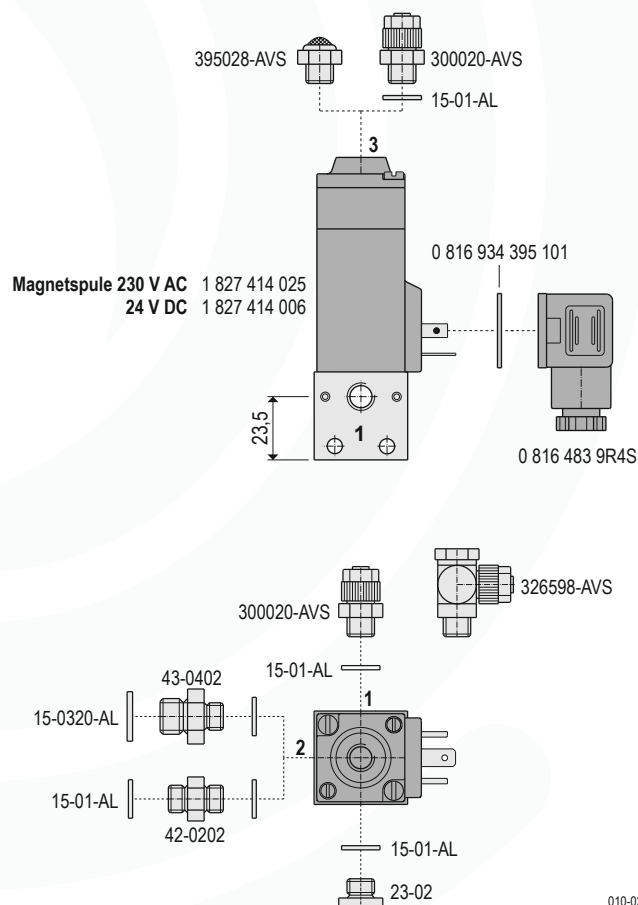
Solenoid valve	Order code
Power supply 230 V AC	0 820 005 150
Power supply 24 V DC	0 820 005 151

Dimensions



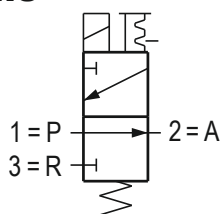
010-0224

Components



010-0223

Control scheme



010-AP01

Technical data

Type of construction	poppet valve with manual override for unlubricated compressed air
Sealing	elastic soft rubber seal (Viton®)
Solenoid coil	4 x 90° turnable
Connection thread	G 1/8
Mounting position	any
Ambient temperature	0 °C ... +50 °C
Nominal pressure	0 ... 10 bar
Nominal flow	from 1 to 2 100 l/min from 2 to 3 120 l/min
Nominal size	1.8
Type of protection according to DIN EN 60529	IP00 without socket connector IP65 with socket connector

Electrical data

Power supply	230 V AC 24 V DC 24 V AC
Power consumption	with AC pick-up power 21 VA holding power 14 VA with DC 8 W
Operating time	ED 100 %
Electrical connection	socket connector, 4 x 90° turnable

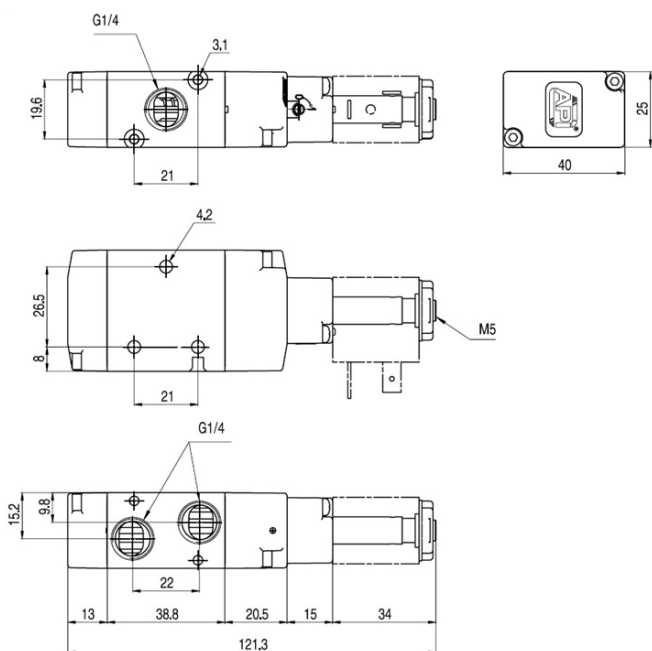
Type designation

Solenoid valve	Order code
Power supply 230 V AC	0 820 005 250
Power supply 24 V DC	0 820 005 251

Illustration



Dimensions/illustrations



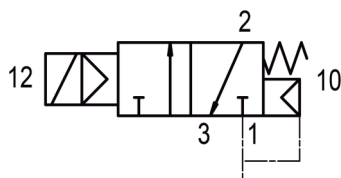
Solenoid coil



Socket connector



Control scheme



Technical data

Type of construction	servo controlled valve with manual override for filtered, lubricated or unlubricated compressed air
Sealing	HNBR (hydrogenated nitrile butadiene rubber)
Solenoid coil	4 x 90° turnable
Connection thread	G 1/4
Mounting position	any
Ambient temperature	-10 °C ... +50 °C
Nominal pressure	1.5 ... 10 bar
Nominal flow	1100 l/min at 6 bar with 1 bar differential pressure
Nominal size	8 mm
Type of protection	IP65 according to DIN EN 60529

Electrical data

Power supply	230 V AC 24 V DC
Power consumption	5 VA with AC 3 W with DC
Operating time	ED 100 %
Electrical connection	socket connector, 2 x 180° turnable

Type designation

Solenoid valve	Order code
Power supply 230 V AC	0 200 107 583
Power supply 24 V DC	0 200 107 580

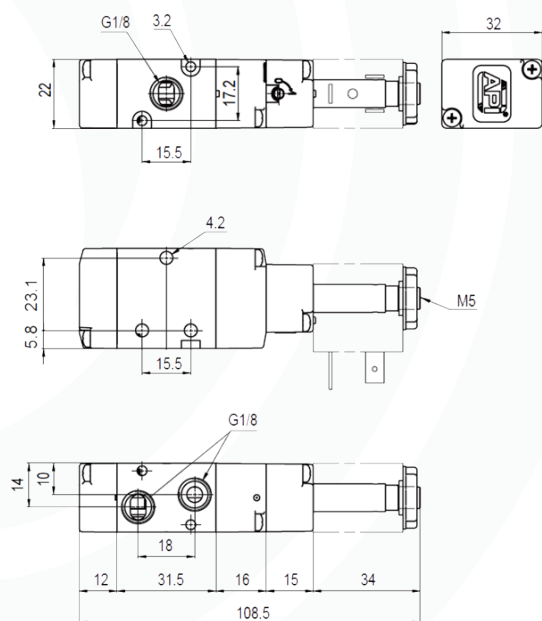
ATEX approval

B8 Gas Dust **Ex** II 3G Ex nA IIB T5 Gc X
and
II 3D Ex tc IIIC T 95°C Dc X

Illustration



Dimensions/illustrations



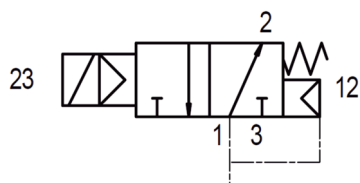
Solenoid coil



Socket connector



Control scheme



Technical data

Type of construction	servo controlled valve with manual override for filtered, lubricated or unlubricated compressed air
Sealing	HNBR (hydrogenated nitrile butadiene rubber)
Solenoid coil	4 x 90° turnable
Connection thread	G 1/8
Mounting position	any
Ambient temperature	-10 °C ... +50 °C
Nominal pressure	1.5 ... 10 bar
Nominal flow	650 l/min at 6 bar with 1 bar differential pressure
Nominal size	6,5 mm
Type of protection	IP65 according to DIN EN 60529

Electrical data

Power supply	230 V AC 24 V DC
Power consumption	5 VA with AC 3 W with DC
Operating time	ED 100 %
Electrical connection	socket connector, 2 x 180° turnable

Type designation

Solenoid valve	Order code
Power supply 230 V AC	0 200 107 548
Power supply 24 V DC	0 200 107 545

ATEX approval

B8 Gas Dust **Ex** II 3G Ex nA IIB T5 Gc X
and II 3D Ex tc IIIC T 95°C Dc X

Illustration



Technical data

Type of construction	servo controlled valve with manual override for lubricated or unlubricated compressed air
Sealing	NBR and PUR
Solenoid coil	4 x 90° turnable
Connection thread	G 1/4
Mounting position	any
Ambient temperature	-25 °C ... +50 °C
Nominal pressure	2 ... 8 bar
Nominal flow	1,300 l/min at 6 bar with 1 bar differential pressure
Nominal size	8 mm
Type of protection	IP65 according to DIN EN 60529

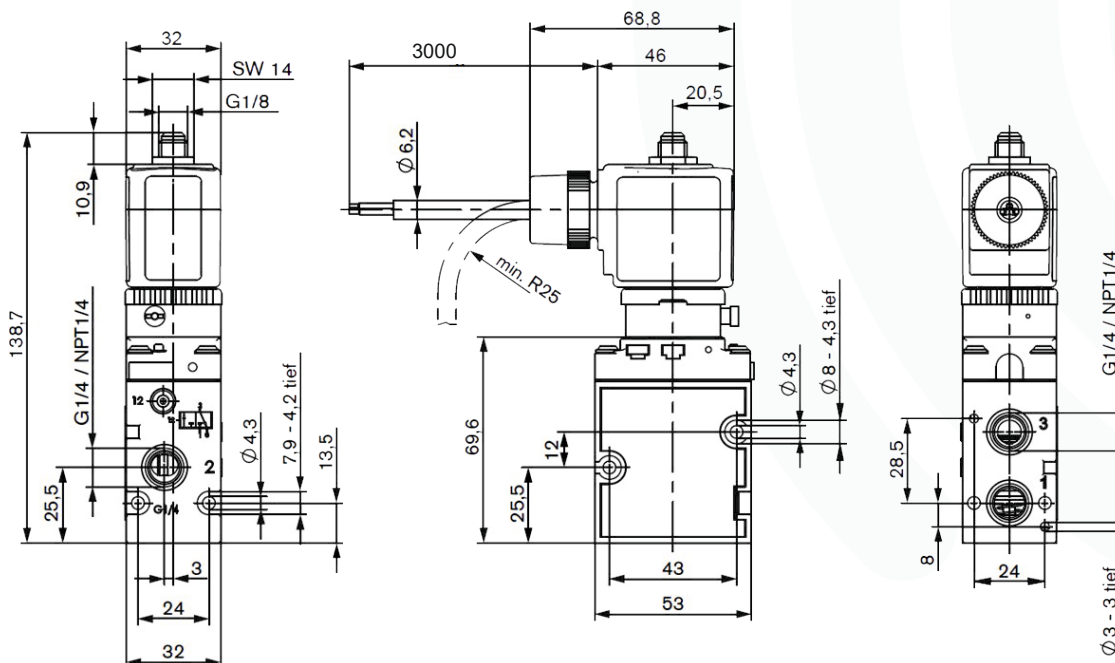
Type designation

Solenoid valve	Order code
Power supply 230 V UC	0 200 41 371
Power supply 24 V UC	0 003 50 452

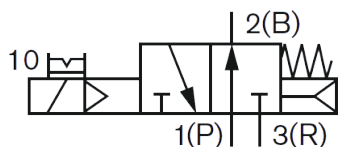
Electrical data

Power supply	230 V/UC (AC 50-60 Hz and DC)
	24 V/UC (AC 50-60 Hz and DC)
Power consumption	3 W
Operating time ED	100%
Electrical connection	3m cable, cast

Dimensions



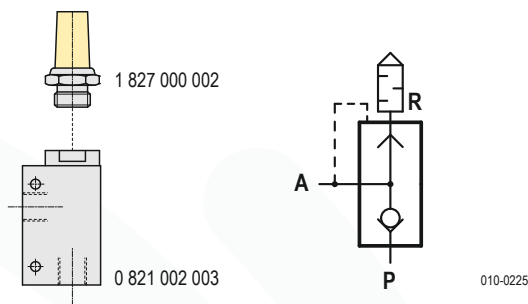
Control scheme



ATEX approval

B6 Gas Dust  II 2G Ex mb IIC T5 Gb
and II 2D Ex mb IIIC T 95°C Db

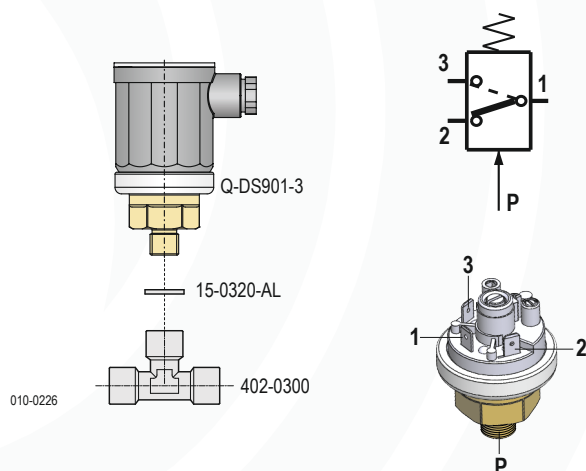
Quick exhaust valve



Accessories	Order code
Quick exhaust valve G ¹ / ₄	0 821 002 003
Silencer G ³ / ₈	1 827 000 002
Quick exhaust valve with silencer	0 821 002 003.B

Construction type	Seat valve for oil-free compressed air
Sealing	NBR rubbery-elastic
Connection thread	A and P = G ¹ / ₄ , R = G ³ / ₈
Mounting position	any
Ambient temperature	max. +40 °C
Control medium temperature	max. +40 °C
Nominal pressure	0.5 ... 10 bar
Nominal flow	from P to A 1000 l/min from A to R 2050 l/min
Nominal size	6
Silencer	Thread G ³ / ₈

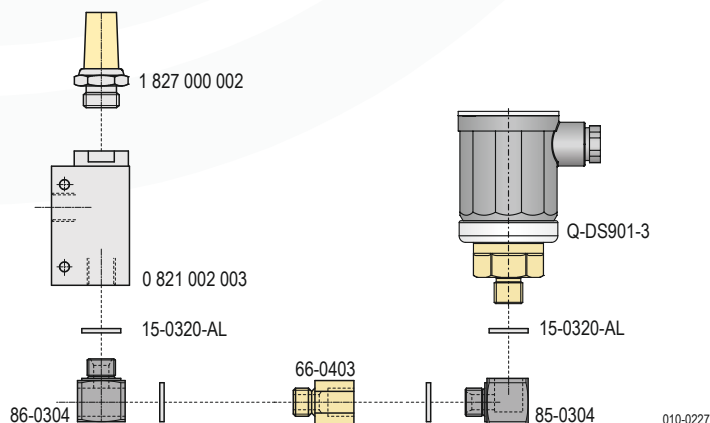
Compressed air switch



Accessories	Order code
Compressed air switch	Q-DS901-3
T-fitting G ¹ / ₄	402-0300
Compressed air switch with T-fitting and double nipple	Q-DS901-3.B

Materials	Housing	PA/PC
	Connection thread	Brass
	Membrane	NBR
Connection thread		G ¹ / ₄
Mounting position		any
Ambient temperature		-20 °C ... +85 °C
Control medium temperature		max. +85 °C
Max. working pressure		10 bar
Switching point		3,0 bar (Works setting)
Capacity of the contact		6 A / 250 V AC
Switching function		change-over contact
Cable entry		M16x1.5
Electrical connection		AMP plug pins 6.35
Type of protection		IP65 according to DIN EN 60529

Quick exhaust valve and compressed air switch as a complete assembly



Accessories assembly	Bestellcode
Quick exhaust valve and compressed air switch	Q-DS901-3.S

Compressed air switch - Type PDC



Technical data

Materials

Housing	Galvanized steel
Membrane	Low-temperature NBR
Device socket	PA6 GF30

Connection thread

G 1/4

Mounting position

any

Ambient temperature

with device socket	-20 °C ... +50 °C
with cable connection	-40 °C ... +80 °C

Control medium temperature

with device socket	max. +50 °C
with cable connection	max. +80 °C

Max. working pressure

60 bar

Switching point

3,0 bar (Works setting)

Contact

resistive load	4 A / 250 V AC or 4 A / 24 V DC
inductive load	2 A / 250 V AC or 2 A / 24 V DC

Switching function

change-over contact

Cable entry (device socket)

M16x1.5

Electrical connection

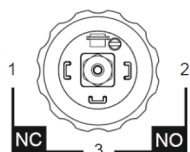
DIN EN 175301-803A incl. device socket
or cable connection, cable length 5m

Type of protection

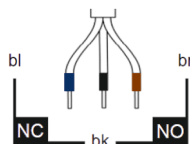
with device socket	IP65 according to DIN EN 60529
with cable connection	IP67 according to DIN EN 60529

Electrical connection

Standard electrical wire is sufficient for the connection cable

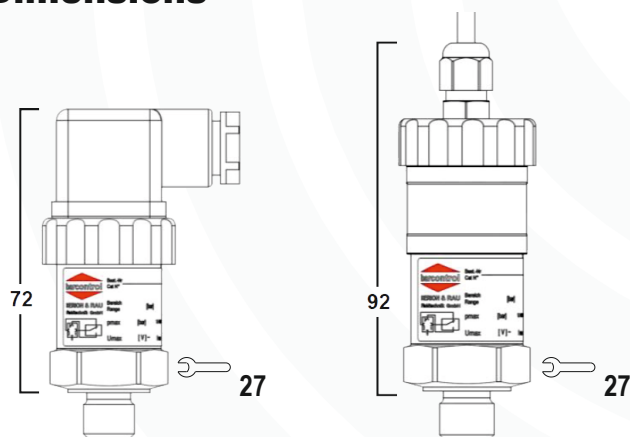


DIN EN 175301-803A
incl. device socket



Cable connection

Dimensions



Type designation

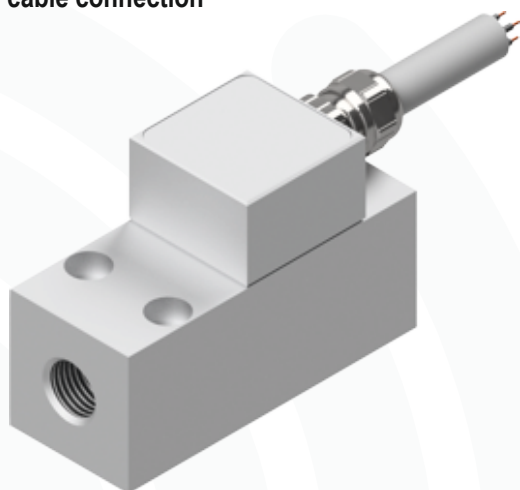
Electrical connection	Order code
Device socket	PDC-1-008-T-3-1
Cable connection	PDC-1-008-T-3-5

Compressed air switch -

Type C2051F

MINICOMB Compact pressure switch

with cable connection



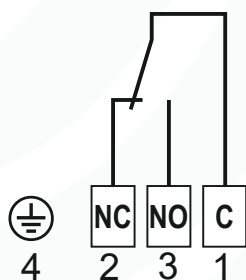
Electrical connection

Electrical connections

Cable connection

Cable length [L1]

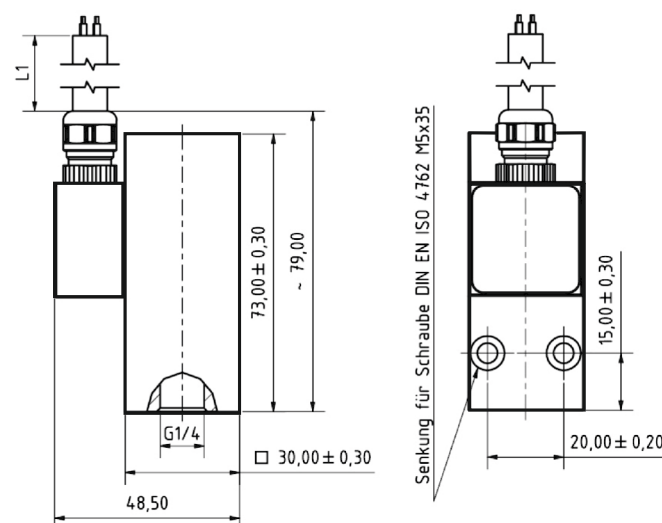
5 m



Technical data

Materials	Housing	Aluminium
	Sealings	FKM
Connection thread		G 1/4
Mounting position		any
Ambient temperature		0 °C ... +80 °C
Control medium temperature		-10 °C ... +80 °C
Pressure range (adjustment range)		0,2 ... 16 bar
Switching point		3,0 bar (Works setting)
Overpressure protection		25 bar
Contact	resistive load	3 A / 240 V AC or 3 A / 24 V DC
	inductive load	3 A / 240 V AC or 2 A / 24 V DC
Switching function		change-over contact
Type of protection		IP65 according to DIN EN 60529

Dimensions



Type designation

Compressed air switch

Order code

Cable connection

C2051F-3-5-B8

ATEX approval

B8 Gas Dust  II 3G Ex nA nC IIC T4 Gc
and
II 3D Ex tc IIIC T 135°C Dc