

Installation and Setting-Up Instructions



Contents :

- 1 TECHNICAL DATA
- 2 OPERATION, CONSTRUCTION AND PART LIST
- 3 DIMENSIOS
- 4 MOUNTING
- 5 PROTECTION KITS
6. SPECIAL INSTRUCTIONS FOR THE SAFE USE

DOCUMENTS

Technical Specifications : G347

Installation and Setting-Up Instructions : G347AV

We reserve the right for technical modifications without prior notice.

PASVE® is the registered trademark of Satron Instruments Inc.



Satron Instruments Inc.
P.O. Box 22, FIN-33901 Tampere
Tel. +358 207 464 800
Telefax +358 207 464 801
www.satron.com, info@satron.com

1. Technical data

PASVE® SC/SF/SH/SP/ST is a miniature ball valve which readily accepts commercially available septum hygienic rubbers. The PASVE® SC/SF/SH/SP/ST provides you with the opportunity of taking hygienic samples from your process without interrupting the process.

The PASVE® SC/SF/SH/SP/ST can be used in any industrial process where it is necessary obtain a sample from the process which is not influenced or contaminated from any outside disturbances.

The PASVE® SC/SF/SH/SP/ST is a member of the Satron PASVE® Series, which is commonly used with pH probes, oxygen sensors and Satron's high precision patented pressure and level transmitters.

Technical Specifications

Material

Housing: AISI316L

Gasket: PTFE / Silicone rubber seal

Max. process pressure:

10 bar (150 psi)

(subject to type of rubber septum selected)

Max. process temperature:

120 °C (250 °F) (subject to type of rubber septum selected)

European Directive Information

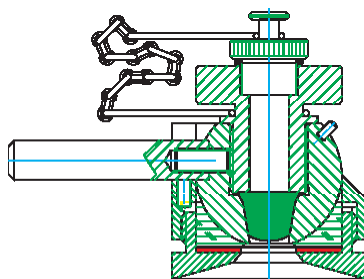
European Pressure Equipment Directive (PED) (97/23/EC)

- Sound Engineering Practice

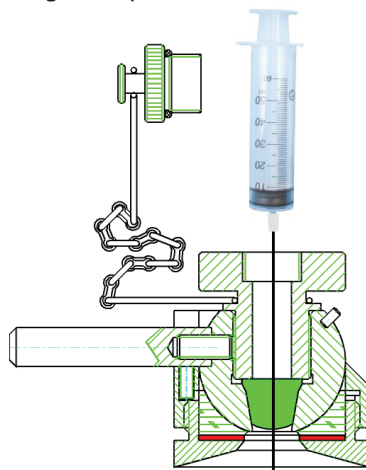
2. Operation, construction and parts list

Operation

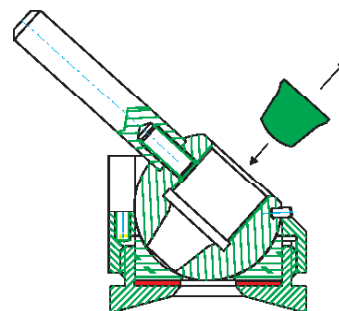
Position of taking a sample

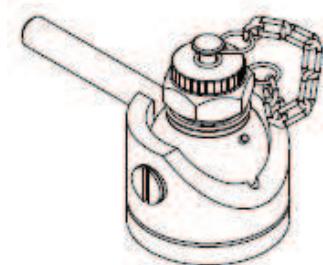
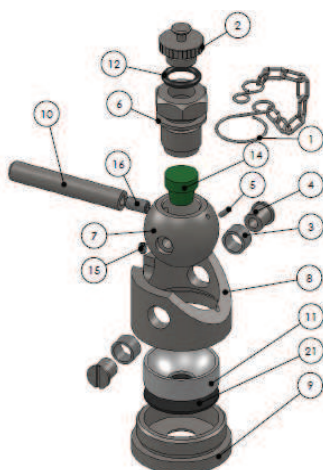


Taking a sample

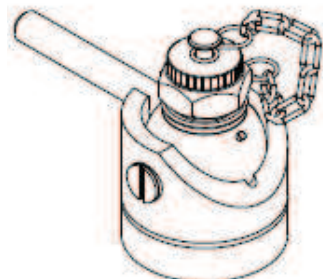
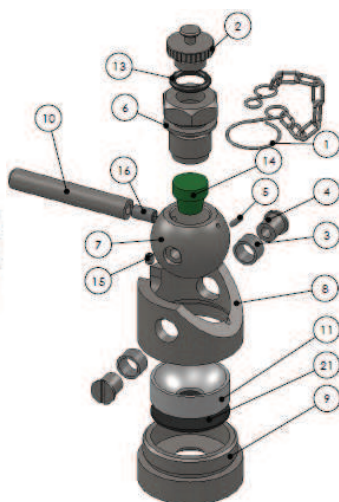


Changing the rubber septum

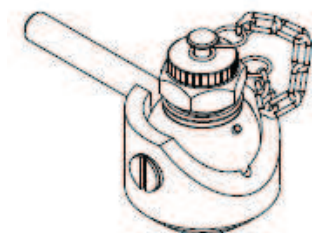
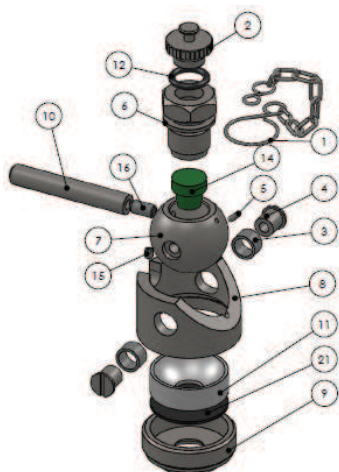


**PASVE SC**

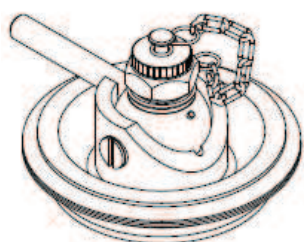
Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part, thickness 5.5 mm	V10103010
10	Lever arm	V10103011
11	Gasket	V10103012
12	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331

**PASVE SC - 10**

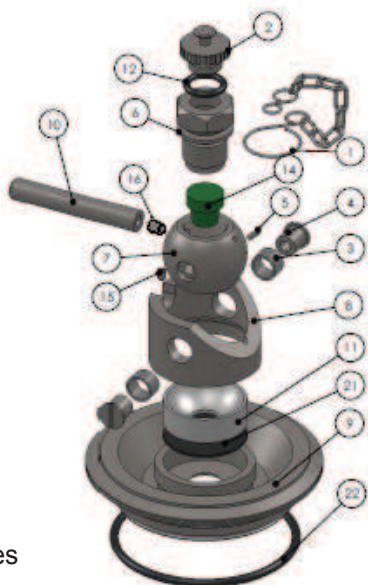
Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part, thickness 10 mm	T1010321
10	Lever arm	V10103011
11	Gasket	V10103012
13	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331

**PASVE SP**

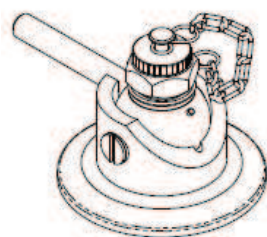
Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part	V10103016
10	Lever arm	V10103011
11	Gasket	V10103012
12	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331

**PASVE ST**

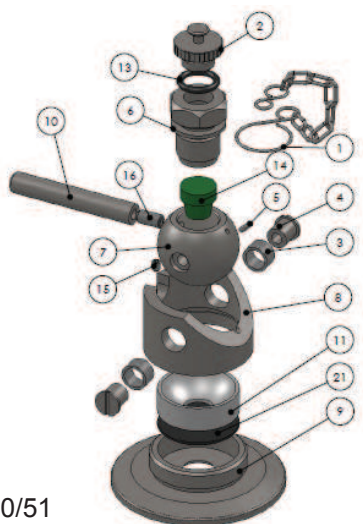
- Tuchenhausen, sizes DN25/DN32 and DN40/DN50



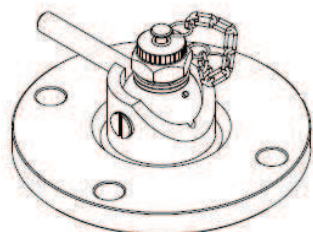
Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part, DN25/DN32	T1010335
9	Coupling part, DN40/DN50	V10103015
10	Lever arm	V10103011
11	Gasket	V10103012
12	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331
22	O-ring Ø43x3 EPDM	80034303
22	O-ring Ø62x3 EPDM	80036203

**PASVE SH**

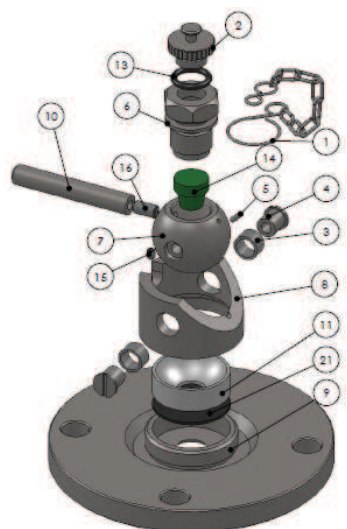
- Tri-Clamp, sizes DN25/38 and DN40/51



Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part, Tri-Clamp 33,7/38	V10103017
9	Coupling part, Tri-Clamp 40/51	V10103018
10	Lever arm	V10103011
11	Gasket	V10103012
13	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331

**PASVE SF**

- Flange SF D110 APV-FN1-50
- Flange SF D110

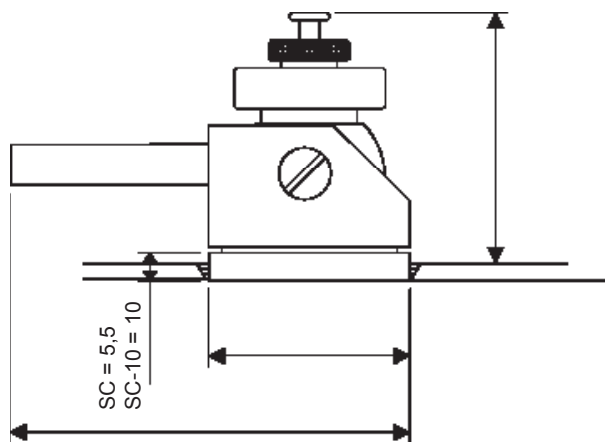


Part no.	Part name	Order code
1	Chain	V10106003
2	Shut-off plug	V10103003
3	Bearing	V10103004
4	Shaft	V10103005
5	Lock pin	V10103006
6	Special nut V	T1010344
7	Valve ball V	T1010342
8	Valve body V	T1010343
9	Coupling part, flange SF D110 APV-FN1-50	T1010320
9	Coupling part, flange SF D110	T1010319
10	Lever arm	V10103011
11	Gasket	V10103012
13	O-ring Ø11,3x2,4 NBR	80001101
14	Rubber septum	V10103014
15	Locking screw M3x4 DIN916 A4	53002390
16	Retaining screw M5x10 DIN916 A4	53002510
21	Rubber seal	T1010331

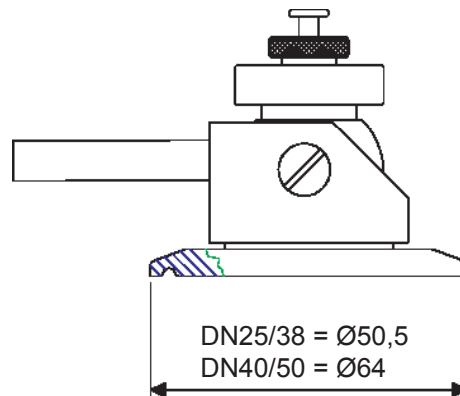
Seal kit for Pasve SC, SF, SH, SP and ST

M1010050

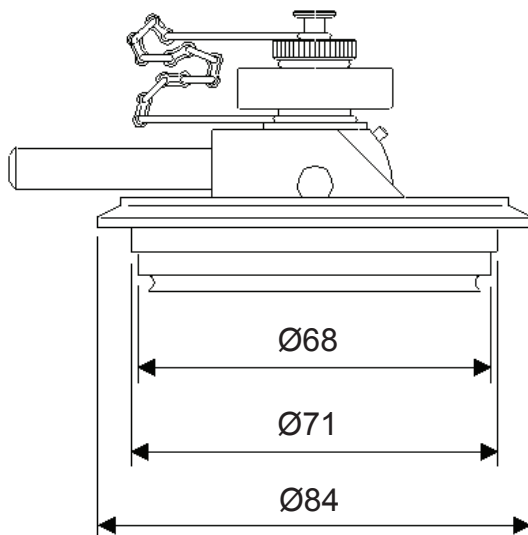
Incl. parts no. 11, 13 and 21

3. Dimensions (in mm)

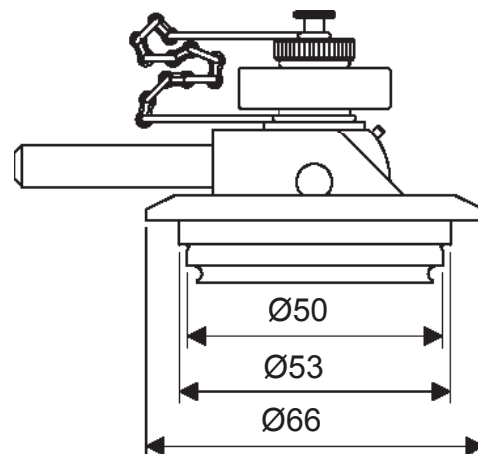
**PASVE SC
and SC - 10**



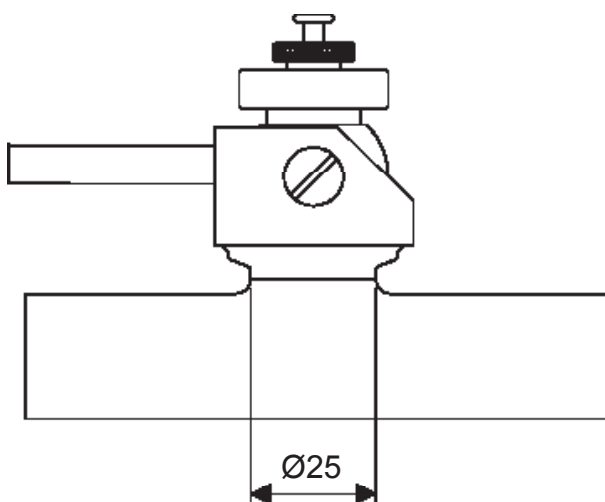
PASVE SH (Tri-Clamp)
- Sizes DN25 / 38 and DN40 / 51



PASVE ST (Tuchenhagen)
- Size DN40 / 50

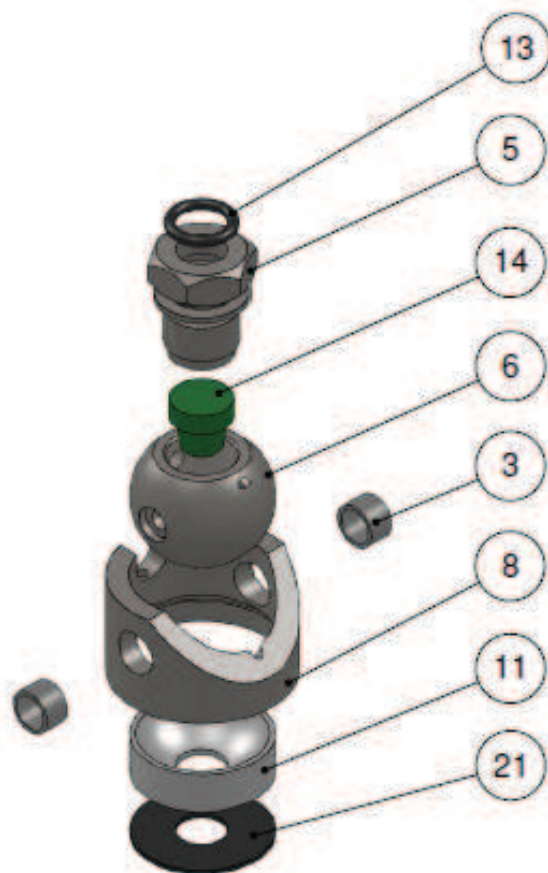


PASVE ST (Tuchenhagen)
- Size DN25 / 32



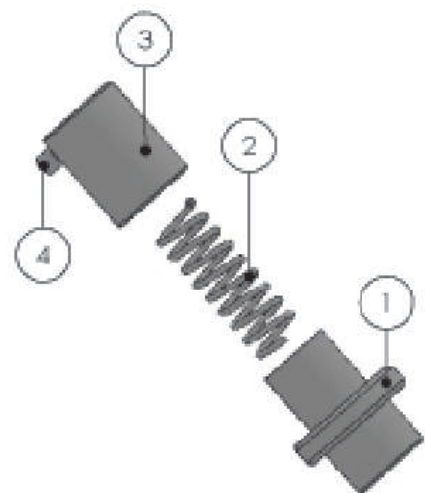
PASVE SP

5. Upgrade kit



Part no.	Part name	Order code
3	Bearing	V10103004
5	Special nut V	T1010344
6	Valve ball V	T1010342
8	Valve body LV	T1010343
11	Gasket	V10103012
13	O-ring Ø11,3 x 2,4 NBR	80001101
14	Rubber septum	V10103014
21	Rubber seal	T1010331
Upgrade kit, assembly		M1010043

Protection kit



Part no.	Part name	Order code
1	Pull-out sleeve	T1010338
2	Spring	T1010341
3	Locking sleeve	T1010339
4	Retaining screw M4x4 DIN916 A4	53002440
Protection kit 2, assembly		M1010042

6. Special instructions for the safe use

6.1 Safe sampling

Turning the valve
measuring position

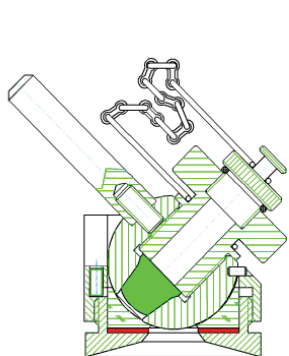


Figure 6-1

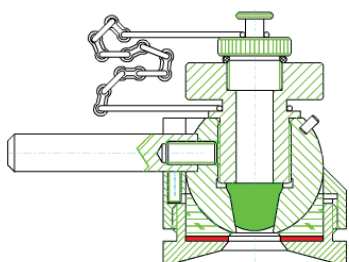


Figure 6-2

Removal shut-off plug.
Note the right-hand
thread!
Special nut V must not
appear.

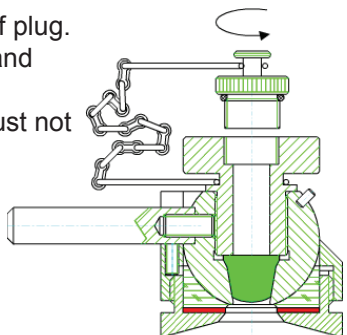


Figure 6-3

Pushing the sampling syringe
through the rubber septum.

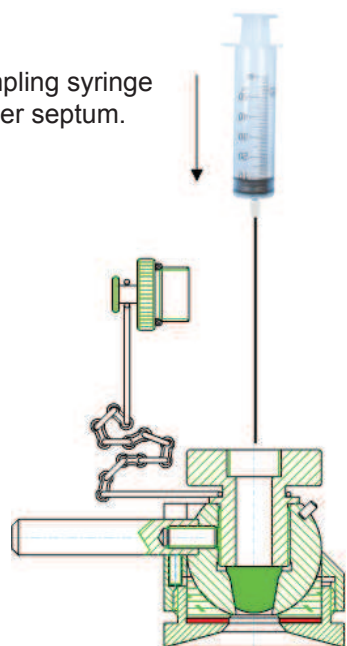


Figure 6-4

Take the sampling.

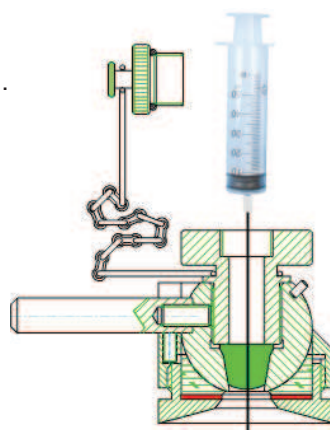


Figure 6-5

Removing the sampling syringe
from the valve

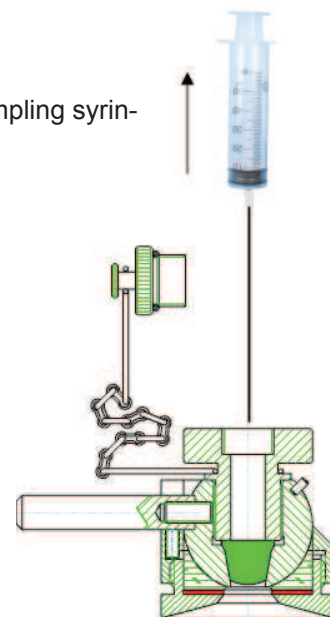


Figure 6-6

Install shut-off plug.
Note the right-hand
thread!

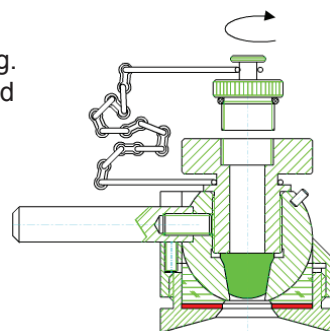


Figure 6-7

Turning the valve
maintenance /
shut-off position

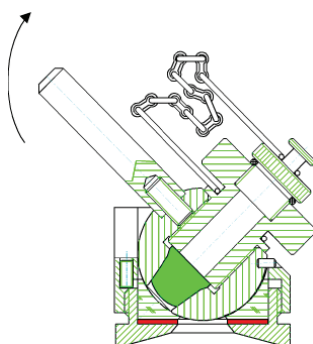


Figure 6-8

6.2 Changing of septum rubber

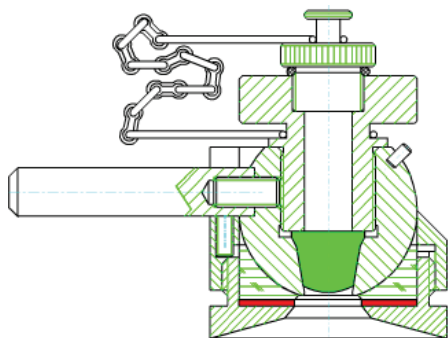
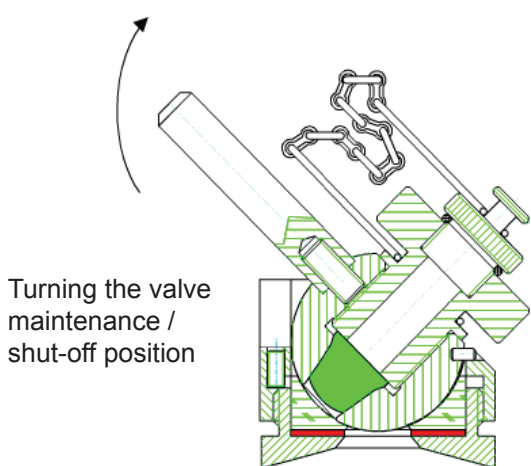


Figure 6-9, Position of the measuring



Turning the valve
maintenance /
shut-off position

Figure 6-10

Removal of special nut V
of rubber septum.
Note the left-hand thread!

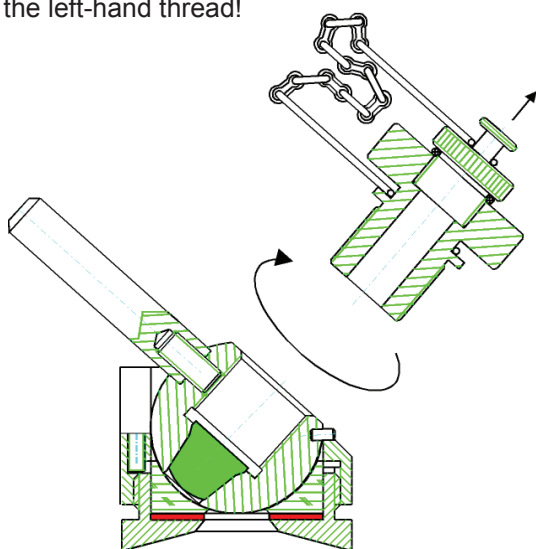


Figure 6-11

Removal of rubber septum / installation of the
new rubber septum.

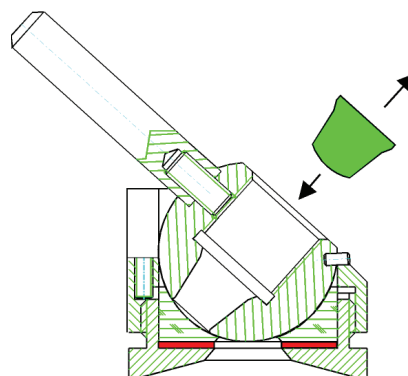


Figure 6-12

Installing of special nut V:

- Press the rubber septum to in the ball
- Nut screwed first lightly to the rubber surface and after it turn three to four rounds.

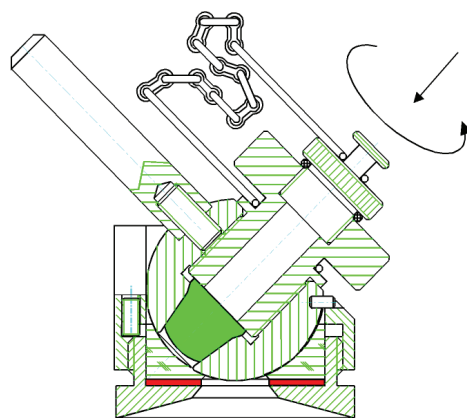


Figure 6-13

6.3 Changing of gasket and rubber seal

Second, turn the top part of valve off the coupling part.

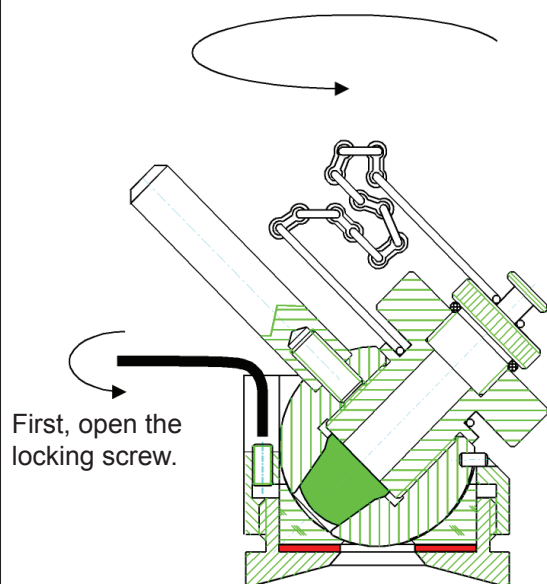


Figure 6-14

First, install the top part of valve on the coupling part.
Tightening by hand without tools.

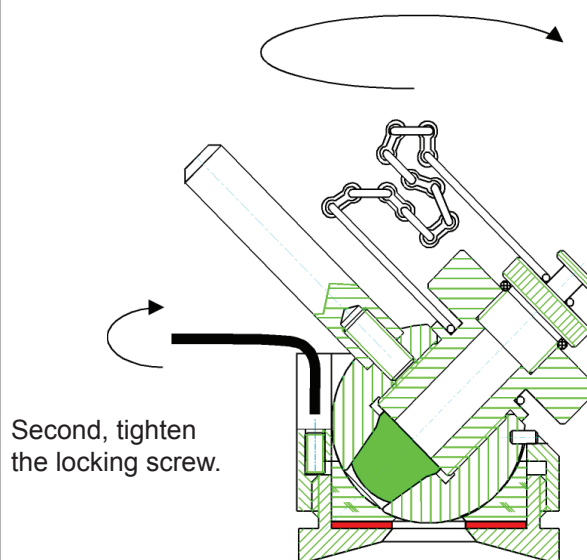


Figure 6-16

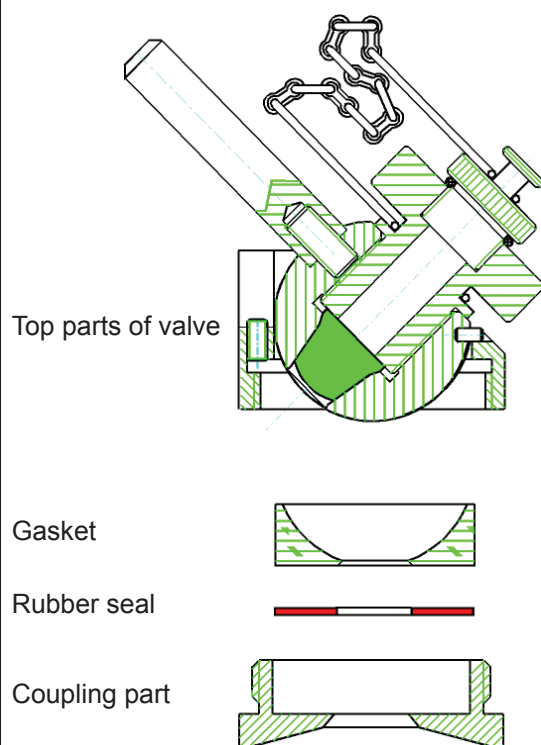


Figure 6-15

The PASVE® SC/SF/SH/SP/ST is a miniature ball valve which readily accepts commercially available septum hygienic rubbers. The PASVE® SC/SF/SH/SP/ST provides you with the opportunity of taking hygienic samples from your process without interrupting the process.

The PASVE® SC/SF/SH/SP/ST can be used in any industrial process where it is necessary obtain a sample from the process which is not influenced or contaminated from any outside disturbances.

The PASVE® SC/SF/SH/SP/ST is a member of the Satron PASVE® Series, which is commonly used with pH probes, oxygen sensors and Satron's high precision patented pressure and level transmitters.



Technical Specifications

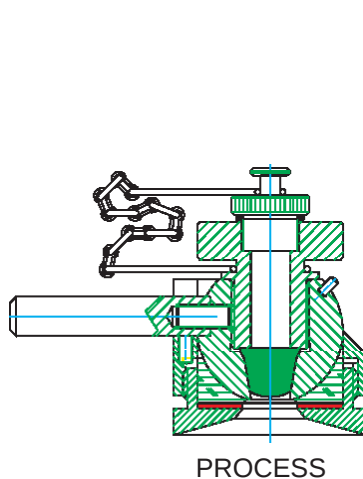
Material
Housing: AISI316L
Gasket: PTFE / Silicone rubber seal

Max. process pressure:
10 bar (150 psi)
(subject to type of rubber septum selected)

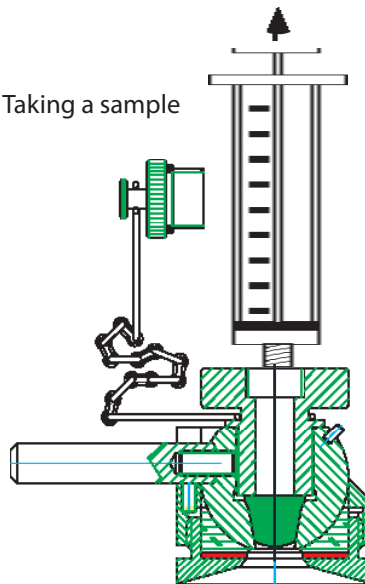
Max. process temperature:
120 °C (250 °F) (subject to type of rubber septum selected)

Operation

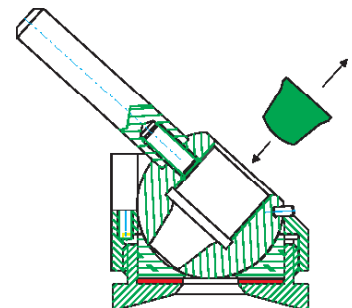
Position of taking a sample



Taking a sample

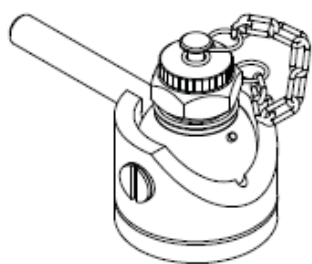
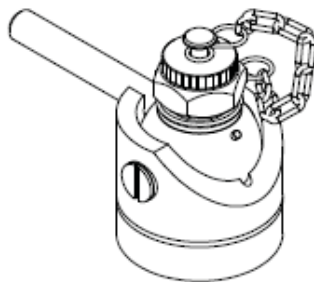
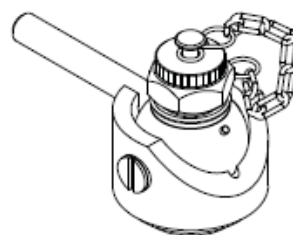
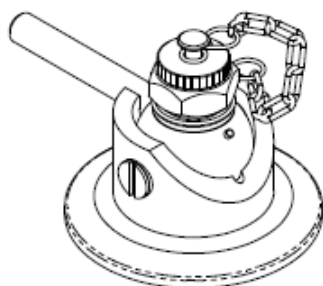


Changing the rubber septum

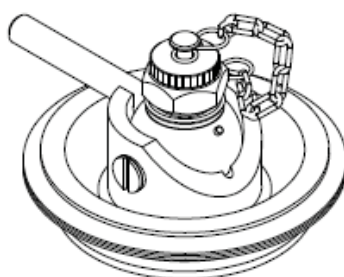


PASVE is the registered trademark of
Satron Instruments Inc.

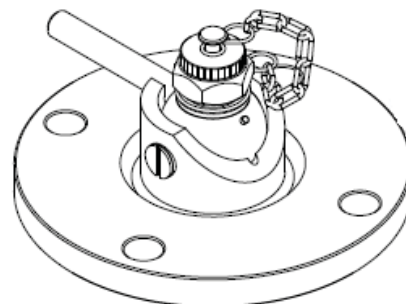
*We reserve the right for technical
modifications without prior notice.*

**PASVE SC****PASVE SC - 10****PASVE SP****PASVE SH**

- Tri-Clamp, sizes DN33,7/38 and DN40/51

**PASVE ST**

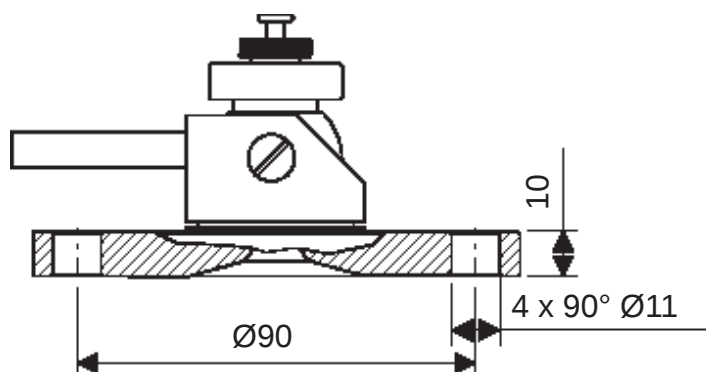
- Tuchenhagen, sizes DN25/DN32 and DN40/DN50

**PASVE SF**

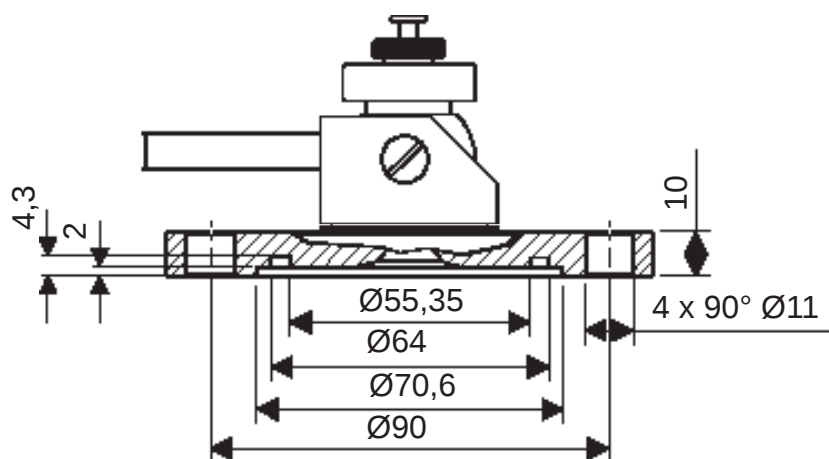
- Flange SF D110 APV-FN1-50
- Flange SF D110

Dimensions (in mm)**PASVE SF**

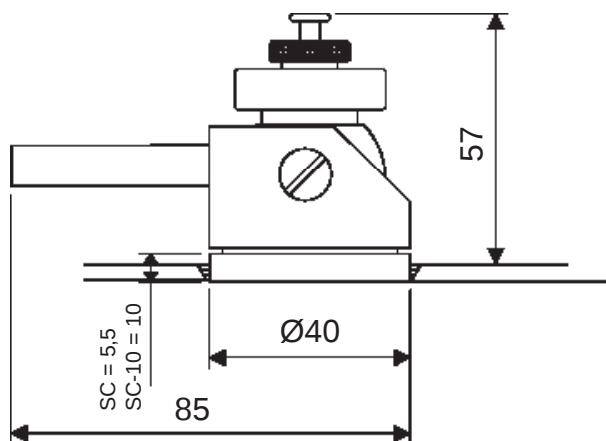
- Flange SF D110
- Outer diameter of flange is 110 mm

**PASVE SF**

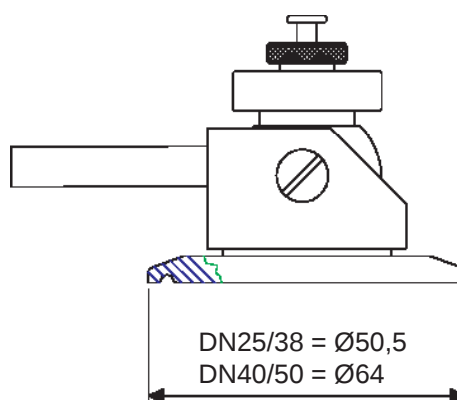
- Flange SF D110 APV-FN1-50
- Outer diameter of flange is 110 mm



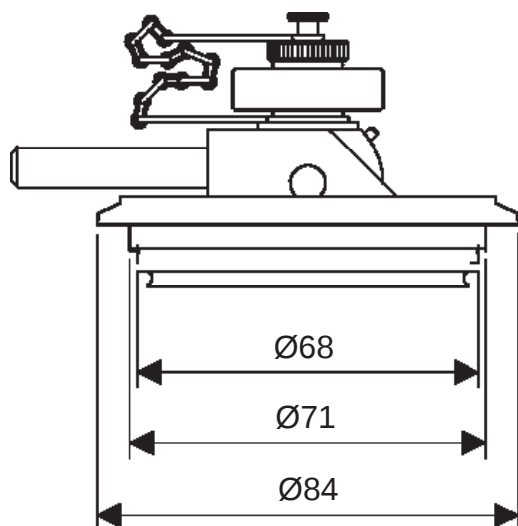
Dimensions (in mm)



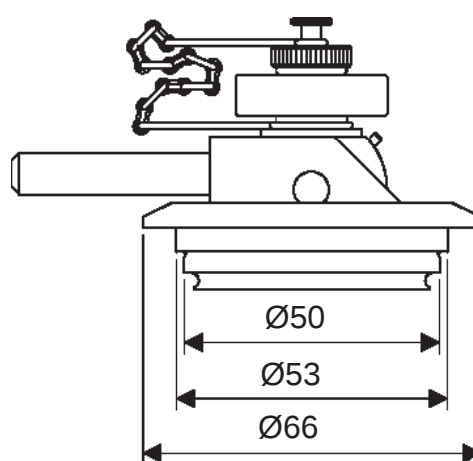
PASVE SC
and SC - 10



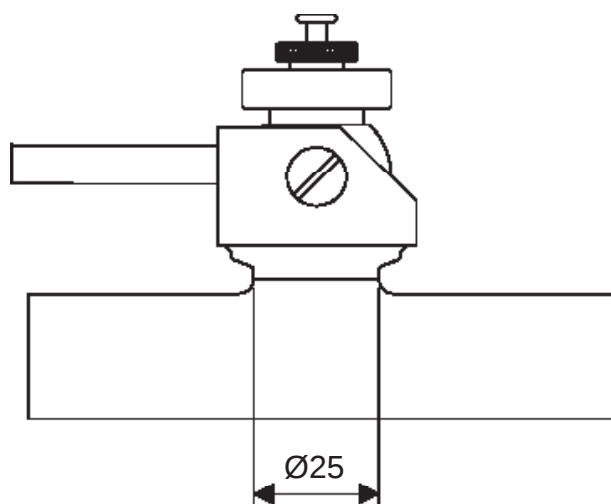
PASVE SH (Tri-Clamp)
- Sizes DN33,7/38 and DN40 / 51



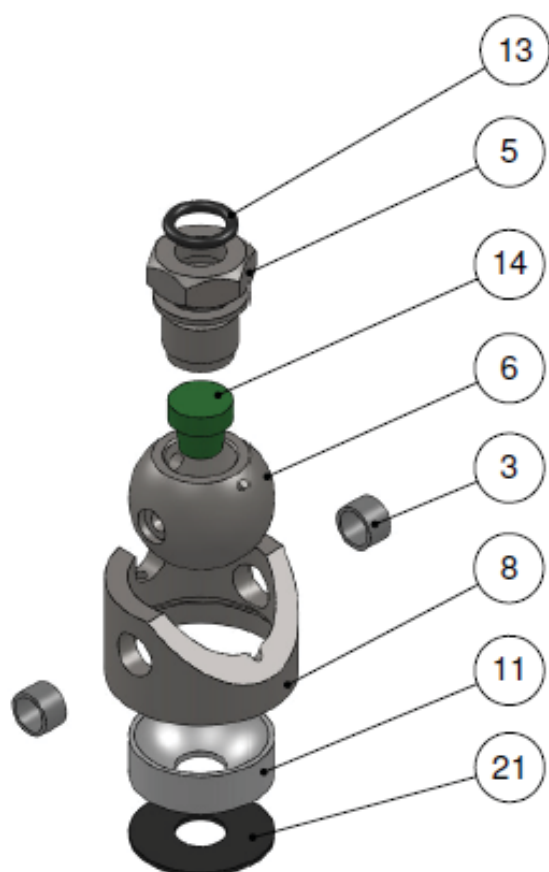
PASVE ST (Tuchenhagen)
- Size DN40 / 50



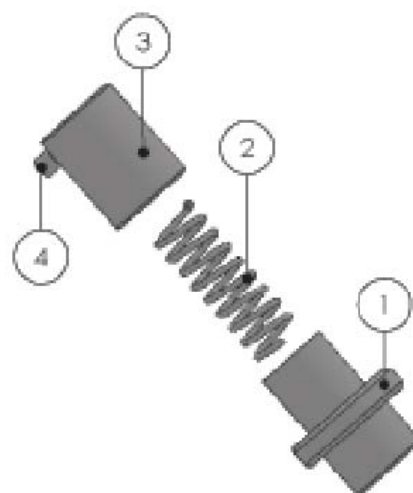
PASVE ST (Tuchenhagen)
- Size DN25 / 32



PASVE SP

Upgrade kit

Part no.	Part name	Order code
3	Bearing	V10103004
5	Special nut V	T1010344
6	Valve ball V	T1010342
8	Valve body LV	T1010343
11	Gasket	V10103012
13	O-ring Ø11,3 x 2,4 NBR	80001101
14	Rubber septum	V10103014
21	Rubber seal	T1010331
Upgrade kit, assembly		M1010043

Protection kit

Part no.	Part name	Order code
1	Pull-out sleeve	T1010338
2	Spring	T1010341
3	Locking sleeve	T1010339
4	Retaining screw M4x4 DIN916 A4	53002440
Protection kit 2, assembly		M1010042