SATRON PASVE DUAL Mounting & Service Valve

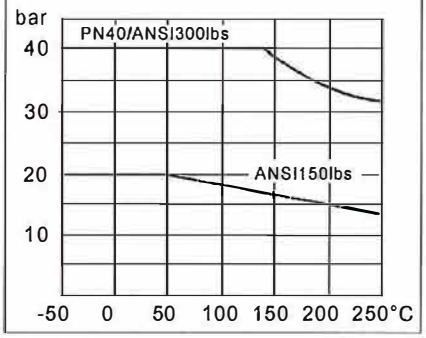
PASVE® DUAL is mounting and service valve for two pH sensors of diameter 12 mm. It can be used with practically all pH sensors in this size category.
PASVE® DUAL allows the cleaning and calibration of pH sensors without stopping the process. When required, this can be done automatically. To protect the sensor in abrasive processes, it can be turned to the measuring position only for the duration of the actual measurement.
PASVE® DUAL is available in a manually operated type or equipped with a pneumatic or electric actuator.

TECHNICAL SPECIFICATIONS

Applicable pH sensors
Refer to the Selection Table.

Max. operating pressure/ temperature
40 bar, 250 °C, (see the appended table). Min. operating temp. -50°C. Sensor-specific limitations should also be taken into account in applications.

Pressure/Temperature curve



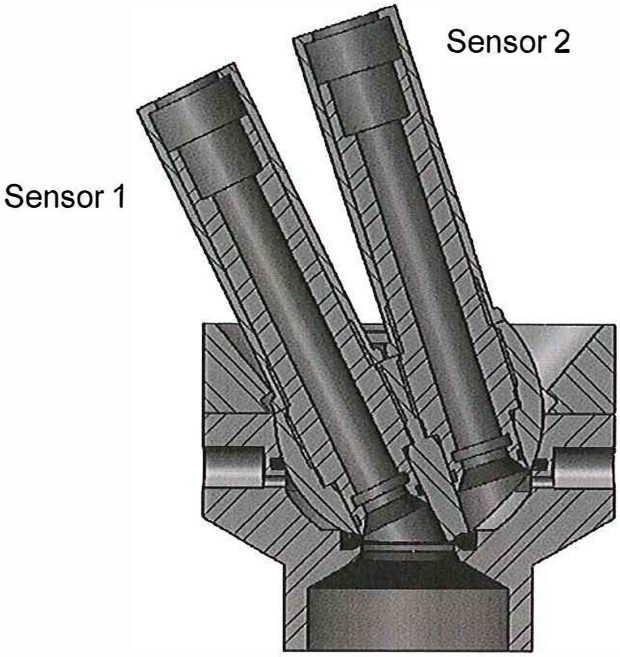
Materials
Wetted parts: AISI316L, AISI904L, Titanium, Hastelloy® C276, Duplex, 254 SMO®.
Seals: PTFE, PTFE with carbon and graphite filling or PTFE 50%+AISI316 50% mixture

Weight

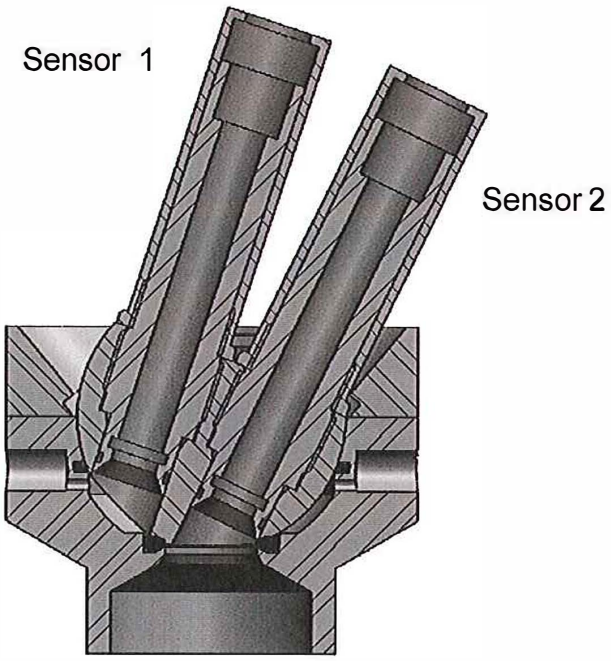
PASVE DUAL C	4,7kg
PASVE DUAL B and	4,8kg
P PASVE DUAL F	8,9kg

Actuator 5,5 kg

WORKING POSITIONS



Position A
Sensor 1 in measurement and sensor 2 in flushing, in calibration or in maintenance



Position B
Sensor 1 in flushing, in calibration or in maintenance and sensor 2 in measurement

We reserve the right for technical modifications without prior notice.

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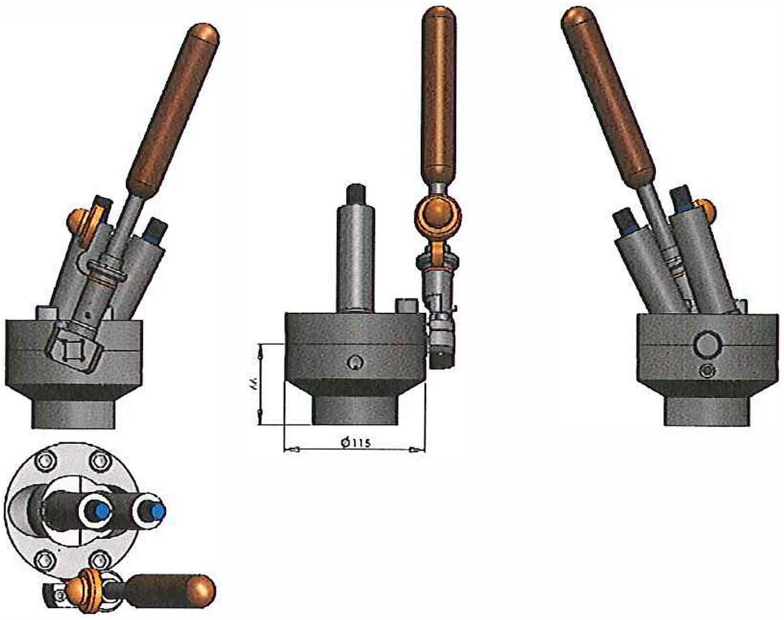
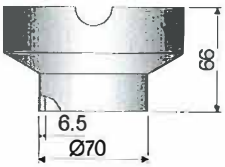
SATRON PASVE DUAL Mounting & Service Valve

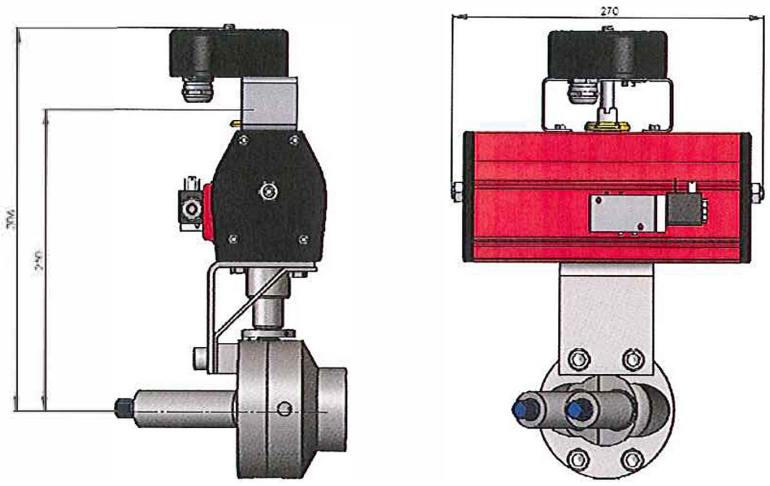
Dimensions (in mm)

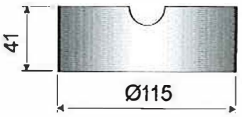


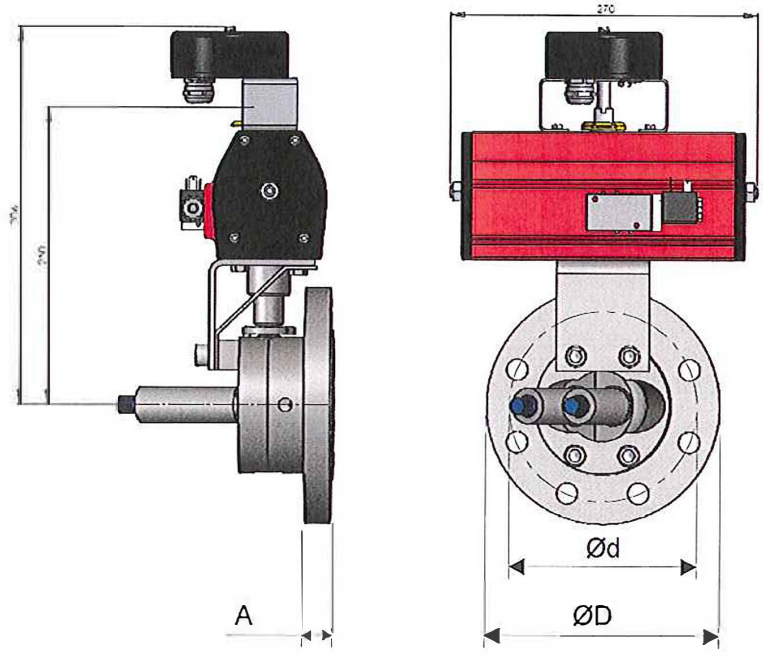
PASVE DUAL P
(Shape the body to be suitable to the pipe, welded)



PASVE DUAL C
(Welded on container or horizontal pipe)







PASVE DUAL F
(Flange type)

PASVE DUAL F

Code	Flange (a) Type	ØD	Ød	A
A	ANSI 3" 150 lbs	191	152.4	22
B	ANSI 3" 300 lbs	210	168.3	27
H	ANSI 4" 150 lbs	229	190.5	26
G	ANSI 4" 300 lbs	254	200	29
D	DN80 PN40	200	160	22
J	DN100 PN10/16	220	180	22
C	DN100 PN40	235	190	26
E	JIS10K 80	185	150	20
F	JIS40K 80	210	170	30

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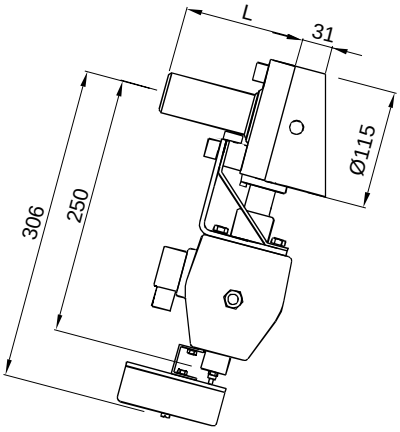
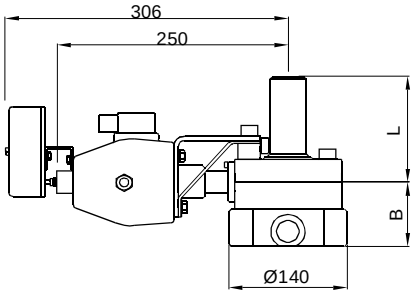
PASVE DUAL B
(Welded on container or vertical pipe, body 15º)

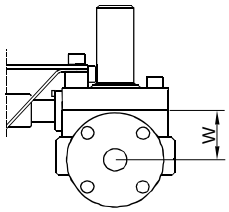


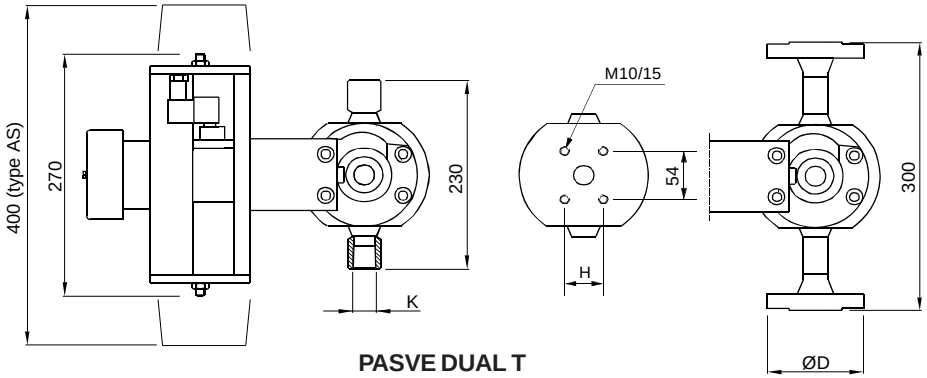
L depends on the sensor type

PASVE DUAL T
(Flow-through, threaded connection)



PASVE DUAL D
(Flow through, flange connection)





PASVE DUAL D

FLANGE Code	Type	W	ØD	H
H	ANSI 1" 150 lbs	55	108	48
J	ANSI 1" 300 lbs	55	124	48
U	ANSI 2" 150 lbs	68	153	76
V	ANSI 2" 300 lbs	68	165	76
G	DN25 PN40	55	115	48
T	DN50 PN40	68	165	76

PASVE DUAL T

THREAD Code	Type (dim.K)	B	H
2	1" - NPT	77	48
4	1.5" - NPT	92	64
5	2" - NPT	104	76

Dimensions (in mm)

Surface temperature

Ambient temperature °C	Temperature class
70	T6
85	T5
120	T4

European Directive Information

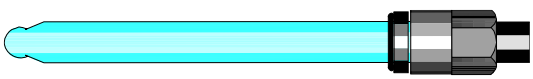
ATEX directive (94/9/EC)
Satron Instruments Inc. complies with the ATEX directive.

European Pressure Equipment Directive (PED) (97/23/EC)
- Sound Engineering Practice

European Certification: Ex II 3 GD

Sensor connection

Code	Sensor
A	**Standard sensor connection PG13.5 / Ø12 / length 120 mm**



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Selection Table

PASVE DUAL

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Mounting type

C	On container or horizontal pipe , welded
B	On container or vertical pipe, body 15º, welded
P	Shape the body to be suitable to the pipe, welded
F	On flange
T	Flow-through, threaded connection
D	Flow-through, flange connection

Wetted parts (C, B and P)

Code	Material
2	AISI316L (EN 1.4404) (std.)
3	Hastelloy® C276 (EN 2.4819)
4	AISI904L (EN 1.4539)
6	Titanium Ti-2 (EN 3.7035)
8	Duplex (EN 1.4462)
K	254 SMO®

Process connection type, specified for mounting type F

Flanges Code	Flanges Type	Flanges Code	Flanges Type
T	DN50 PN40 (only manual using)	**H**	ANSI 4"150 lbs
D	DN80 PN40	**G**	ANSI 4"/300 lbs
J	DN100 PN10/16	**E**	JIS 10K 80
C	DN100 PN40	**F**	JIS 40K 80
A	ANSI 3"/150 lbs		
B	ANSI 3"/300 lbs		

Wetted parts

Code	Material
2	AISI316L (EN 1.4404)
3	Hastelloy® C276 (EN 2.4819)
4	AISI904L (EN 1.4539)
6	Titanium Ti-2 (EN 3.7035)
8	Duplex (EN 1.4462)
K	254 SMO®

Process connection type, specified for mounting type T

Threads Code	Threads Type
2	1" - NPT
4	1.5"- NPT
5	2" - NPT

Wetted parts

Code	Material
2	AISI316L (EN 1.4404)
3	Hastelloy® C276 (EN 2.4819)
4	AISI904L (EN 1.4539)
6	Titanium Ti-2 (EN 3.7035)
8	Duplex (EN 1.4462)
K	254 SMO®

Process connection type, specified for mounting type D

Flanges Code	Flanges Type	Flanges Code	Flanges Type
G	DN25 PN40	**U**	ANSI 2"/150
M	DN40 PN40	**V**	ANSI 2"/300
T	DN50 PN40	**K**	JIS 10K 25
H	ANSI 1"/150	**R**	JIS 10K 40
J	ANSI 1"/300	**S**	JIS 10K 40
N	ANSI 1.5"/150	**X**	JIS 10K 50
P	ANSI 1.5"/300	**L**	JIS 40K 25
		Y	JIS 40K 50

Wetted parts

Code	Material
2	AISI316L (EN 1.4404)
3	Hastelloy® C276 (EN 2.4819)
4	AISI904L (EN 1.4539)
6	Titanium Ti-2 (EN 3.7035)
8	Duplex (EN 1.4462)
K	254 SMO®

Seals

0	PTFE + 20C + 5Gr / FPM (std.)
1	PTFE 100% / FPM
2	PTFE +20C+5Gr / FFPM
3	PTFE 100% / FFPM
4	PTFE + 20C + 5Gr / FPM+AISI316 / PTFE 50 % (Hard)
5	PTFE 100% / FPM+AISI316 / PTFE 50% (Hard)
6	PTFE 100% / FPM + PVDF 100% (Hard)

Sensor connection

A	PG13,5 / Ø12 / 120 mm

Pt100 temperature sensor

0	No sensor
X	With sensor (Measuring range -50 ... +200°C

Actuator

MD	No actuator (manually operated	**AE1**	Electric actuator 230 V 50 Hz
AD	Double-action actuator	**AE3**	Electric actuator 115 V 60 Hz
AS	Spring-return actuator	**A0**	No actuator, fittings to the actuator

Solenoid for actuator (only for actuator types **AD** and **AS**)

0	No solenoid valve	**2**	24 V DC 2.5 W (also EEx dm)	**4**	28 V DC 0.4 W (EEx ia)
1	230 V AC 50 Hz 2 W (as standard)	**3**	115 V AC 60 Hz 2 W		

Solenoid explosion proof

0	No explosion proof	**2**	EEx ia IIC T6 (only 28V)
1	EEx m II T5	**3**	EEx dm IIC T5/T6 (only 24V)

Position switches

0	None	**A**	Position switch EEX ib IIC T5/T6
X	Equipped with position switches		
E	Position switch NAMUR, DIN 19234		

Special options

Z1	For oxygen use	**Z5**	Diamond-coated ball
Z2	Process side flushing		
Z3	Actuator (AS) reverse action		

Documentation

Installation and operating instructions

IE	English
IF	Finnish

Material certificates

0	No material certificate
MC1	SFS-EN 10204-2.1 (DIN50049-2.1)
MC2	SFS-EN 10204-2.2 (DIN50049-2.2)
MC3	SFS-EN 10204-3.1B (DIN50049-3.1B)