

PASVE® pH is a mounting/service valve for pH sensors. It can be used with practically all pH sensors in this size category in the most demanding measurement locations.

PASVE® pH 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® pH is available in a manually operated type or equipped with a pneumatic or electric actuator.

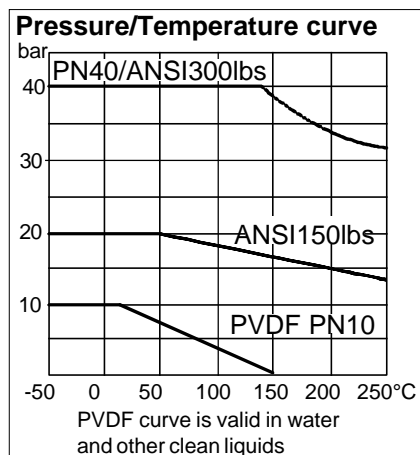
TECHNICAL SPECIFICATIONS

Compatible pH sensors

Refer to the Selection Table.

Max. operating pressure/temperature

40 bar, 250 °C, (see the below table).
Min. operating temp. -50°C.
Sensor-specific limitations should be taken into account by the application.



Materials

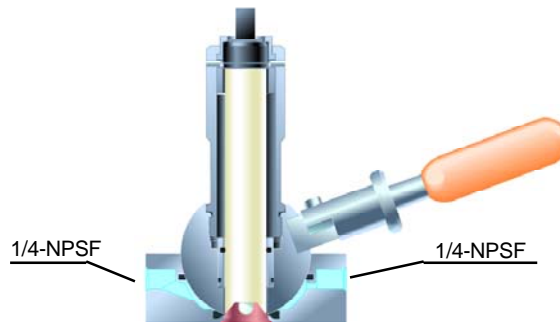
Wetted parts: AISI316L, AISI904L, Titanium, Hastelloy® C276, Duplex, 254 SMO® and PVDF.

Seals: PTFE, PTFE with carbon and graphite filling or PTFE 50%+AISI316 50% mixture

Weight

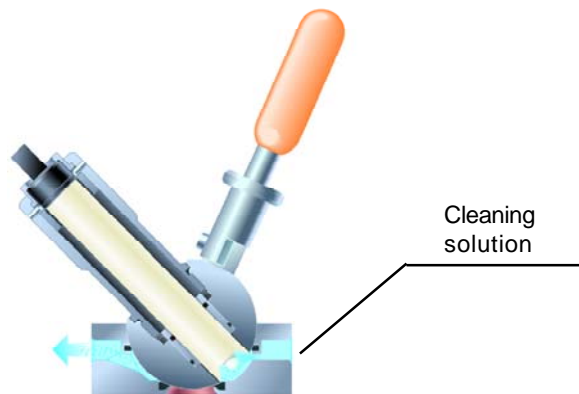
PASVE pHC 4.7 kg, PASVE pHF 4.8 kg,
PASVE pHF 8.9 kg,
Actuator 5.5 kg

OPERATING POSITIONS



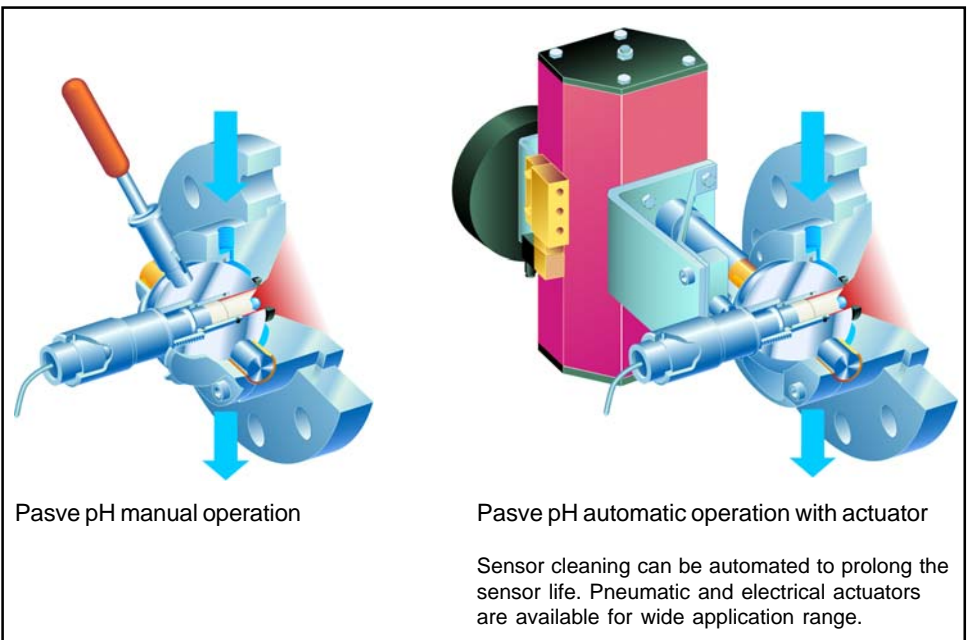
Measuring position

Sensor in measurement position.
(Flushing channel can be used for watercooling the sensor and valve)



Service and calibration position

Sensor is turned inside the valve for cleaning, calibrating or sensor change without stopping the process.



Pasve pH manual operation

Pasve pH automatic operation with actuator

Sensor cleaning can be automated to prolong the sensor life. Pneumatic and electrical actuators are available for wide application range.

Hastelloy is the registered trademark of Haynes International.

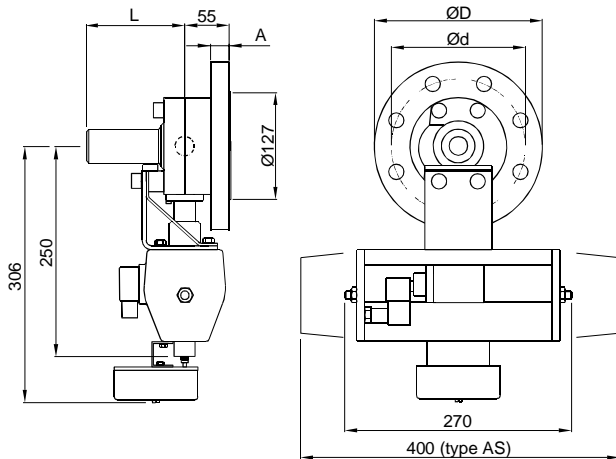
254 SMO is the registered trademark of Outokumpu Stainless Inc.

Pasve is the registered trademark of Satron Instruments Inc.

We reserve the right for technical modifications without prior notice.

Pasve pH with pneumatic actuator

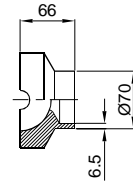
PASVE pHF (Flange type)



PASVE pHC
(Welded on a container or a horizontal pipe, instructions on manual page 10)



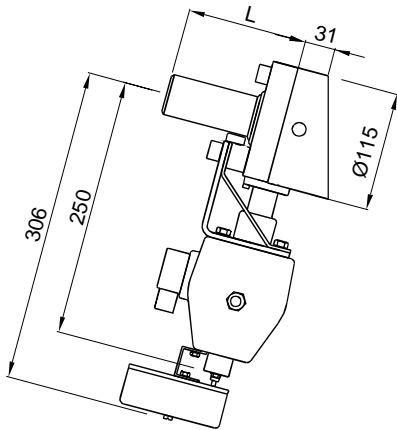
PASVE pHP
(Shape the body for the pipe Ø before welding, instructions on manual page 11)



PASVE pHF

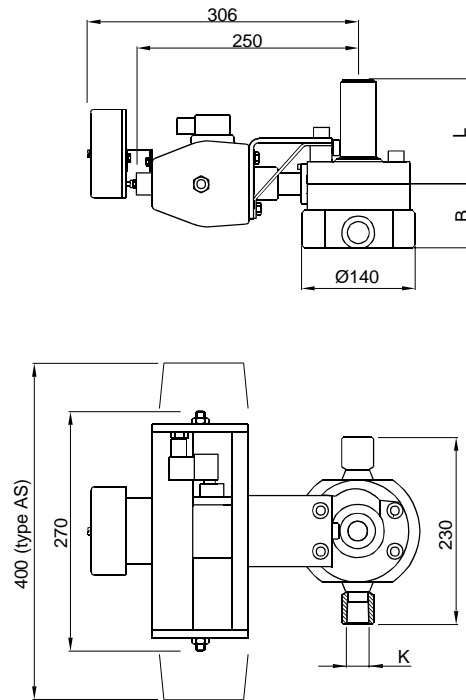
FLANGE		ØD	Ød	A
Code	Type			
K	ANSI 2½" 150 lbs	172	139.7	22
A	ANSI 3" 150 lbs	191	152.4	22
B	ANSI 3" 300 lbs	210	168.3	27
H	ANSI 4" 150 lbs	229	190.5	26
G	ANSI 4" 300 lbs	254	200	29
T	DN50 PN40	165	125	20
D	DN80 PN40	200	160	22
J	DN100 PN10/16	220	180	22
C	DN100 PN40	235	190	26
E	JIS10K 80	185	150	20
F	JIS40K 80	210	170	30

PASVE pHB
(Welded on a container or a vertical pipe, body 15°)

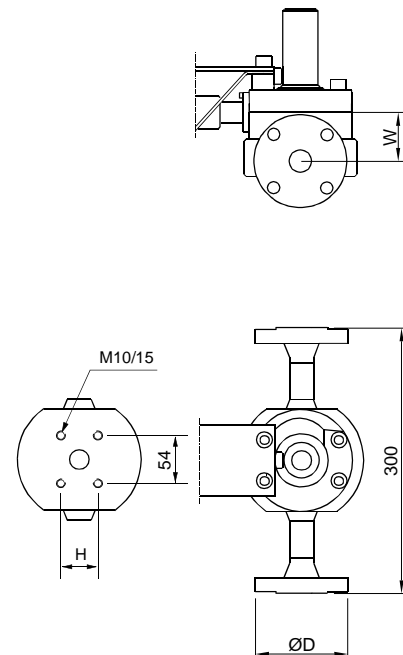


L depends on the sensor type

PASVE pHT
(Flow-through body, threaded connection)



PASVE pHD
(Flow through body, flange connection)



PASVE pHD

FLANGE		W	ØD	H
Code	Type			
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 pHT

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

Dimensions (mm)

Sensor connection

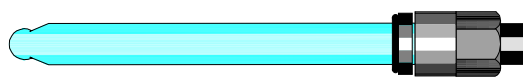
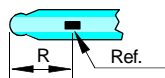
Standard sensor connection PG13.5 / Ø12 mm / length 120 mm

Code dimension R

S R < 30 mm

M R < 20 mm

L R < 10 mm

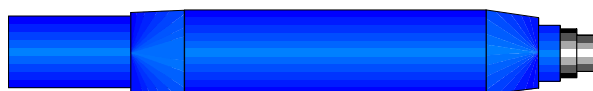


Check the sensor datasheet for the reference point location!

Special sensor connection types

Code Sensor

- B1** Broadley-James Dynaprobe II
- B2** Broadley-James S410
- B3** Broadley-James DynaProbe ST856
- C1** Honeywell Durafet II, smooth tip
- C2** Honeywell Meredian II and Durafet II guarded tip
- D1** Barben 546/556, flat glass, 38 mm insertion depth
- D4** Barben 551/561, flat glass, actual insertion depth 3.94"
- D6** in-line Barben 551/561, flat glass, 100 mm insertion depth (manual only)
- E3** E+H CPF81/82, guarded tip, not machined
- E4** E+H CPF81, flat glass, not machined
- F1** Foxboro 871A
- F2** Foxboro 871pH
- F3** Foxboro PH10-3
- F4** Foxboro PH10-2
- F5** in-line Foxboro PH10-2 (manual only)
- G1** Lange (GLI) PD1P1.99
- G2** Lange (GLI) DPD1P1.99
- GX** +GF+ 272X, flat glass
- H1** Hamilton Inchtrode N75P
- H2** Hamilton Inchtrode N75F
- I1** Teledyne Isco 701pH
- K1** Kemotron 4835 and 4837 UPW
- O2** Orbisphere (31110)
- P1** Polymetron 8350/51
- R1** Rosemount/Emerson 389
- R2** Rosemount/Emerson 385+
- R4** Rosemount/Emerson TUpH 396/396VP, 398/398VP
- R5** in-line Rosemount/Emerson TUpH Combination 396P/PVP (manual only)
- R6** Rosemount/Emerson TUpH Combination 396P/PVP
- R9** Rosemount/Emerson 3300HT/HTVP
- RA** Rosemount/Emerson 3500VP
- RB** Rosemount/Emerson RB-546
- RC** Rosemount/Emerson 3900/3900VP
- T1** ABB TB556, flat glass, 38 mm insertion depth
- T2** ABB TB557, flat glass
- T3** ABB TB564, flat glass
- T4** ABB TB561 / Barben 551/561, flat glass, 100 mm insertion depth
- T5** in-line ABB TB564 (manual only), flat glass
- T6** in-line ABB TB561 (manual only), flat glass, 100 mm insertion depth
- T7** ABB TB556, flat glass, 28 mm insertion depth
- Y1** Yokogawa FU20 - - NPT (guarded tip)
- Y2** Yokogawa FU20 - - FSM (flat glass)



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:

