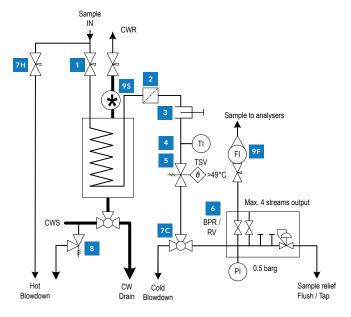
# **Steam Sample Conditioning - LPHT**



- Increase lifetime of your steam applications
- Prevent corrosion in boilers and pipelines
- Optimize steam chemical composition
- Extract true representative samples of your steam water cycle



Typical P&ID Steam Sample Conditioning System Numbers correspond to the panel configurator on the next page

Mechatest Steam Sample conditioning panels are available in many configurations for as many applications in the industry. This sampling panel is used in power plants and mostly used in combination with water analyser equipment for analysis on chemical parameters like Conductivity, pH, Dissolved Oxygen, Silica and Sodium. The panels are used for sample conditioning and collection.

#### **SPECIFICATIONS**

Sample pressure (recommended) < 35 bar
Sample temperature (recommended) Max. 538 °C
Flow single phase samples (water/condensate) Max. 108 L/h
Flow condensing samples (steam) Max. 60 L/h
Cooling water flow Max. 1500 L/h
Sample tube length and cooling area 11 m (0.22 m²)
Standard panel dimension 850 x 500 mm

#### **TYPICAL APPLICATOINS**

- Demi water
- Feed water
- Boiler water
- Condensate
- LP/HP SteamLife Steam

#### **BUILT CONFORM**

- ASME PTC 19.11-2008
- ASTM D1066
- ASTM D1192 / D3370
- SO 5667.7



# **SCS Steam Panel Configurator - LPHT**

## Low Pressure High Temperature

Series	Tube Material				Tube Design				Sh	Shell Material				Shell Design		
LPHT LPHTA LPHTAA	TLR-4225 TLR-42B5 TLR-4BB5	1/4" OD - 316 SS 1/4" OD - Inconel 625 1/4" OD - Inconel 625				345 bar @ 538°C 345 bar @ 593°C 345 bar @ 593°C				304 SS 304 SS Inconel 625				31 bar @ 343°C 31 bar @ 343°C 31 bar @ 343°C		
Designators				1	2	3	4	5	-	6	7	8	9	10		
Example Ordering No.		LPHT	-	1	1	1	1	1	-	0	0	0	0	Χ		
Ordering No.			-						-							

#### 1 INLET BLOCK VALVE

- O No inlet valve
- 1 Needle valve 316 SS<sub>(Std. Swagelok)</sub>
- 2 Double inlet valve

### 2 FILTER (1)

- 0 No filter
- 1 T-Filter 90 micron 316 SS (Std. Swagelok)
- 2 Filter large volume 90 micron 316 SS (Std. Classic)

#### **?** PRESSURE REGULATION

- **0** No pressure regulating valve
- 1 Regulating valve 316 SS (Std. Swagelok)

#### 1 TEMPERATURE INDICATION (1)

- **0** No temperature gauge
- 1 Temperature gauge 0 60  $^{\circ}$ C 316 SS in flow chamber (Std.)

#### TEMPERATURE SAFETY (1)

- **0** No temperature shut-off valve
- **1** Automatic Temperature shut-off valve @ 46°C (Std.) (automatic open if temperature below setpoint)
- 2 Reset Temperature shut-off valve @ 46°C (Std. Centry) (reset to open if temperature below setpoint)
- 3 Electronic Temperature shut-off valve @ 46°C

#### **6** BACK PRESSURE REGULATION

- No BPR mounting plate
- **B** Mounting plate for Swan BPR on panel

#### 7 SAMPLE BLOWDOWN OPTIONS

- No sample blowdown (Std.)
- **C** Cold sample blowdown
- **H** Hot sample blowdown
- **CH** Cold and Hot sample blowdown

#### **8** PRESSURE SAFETY OPTIONS

- O No pressure safety (Std.)
- 1 Pressure relief valve on C.W. connection
- 2 Pressure relief valve on Sample connection

#### 9 FLOW INDICATION

- No flow indication (Std.)
- **F** Flow indicator in sample line
- **S** Sight glass indicator in C.W. line

# 10 OPTIONS (2)

- **X** No options
- A Acid purging connection (T-conn. + valve)
- **E** Extension handle (on hot inlet valve)
- L Lab sample tablet / drain funnel
- P Portable (system on rack with wheels)

(1) Other sizes, ranges or specifications available on request

(2) Select from the "options" designator one or more options and fill in all these letters in the same colum

**Mechatest Sampling Solutions** 

Tel: +31(0)153105183 sales@mechatest.com www.mechatest.com Koperslager 3 2631 RK Nootdorp The Netherlands Be part of the best solution

