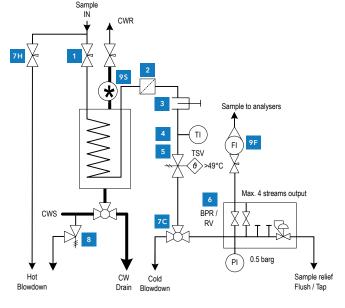
Steam Sample Conditioning - HPXF



- 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. 300 L/h
Flow condensing samples (steam)	Max. 120 L/h
Cooling water flow	Max. 2700 L/h
Sample tube length and cooling area	15 m (0.44 m ²)
Standard panel dimension	850 x 500 mm

TYPICAL APPLICATOINS

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

BUILT CONFORM

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



SCS Steam Panel Configurator - HPXF

High Pressure Extreme Flow

Series	Cooler Type	Tube Material	Tube Design	Shell Material	Shell Design
HPXF HPXF5 HPXFA	FXR-6222 FXR-6225 FXR-62B3	1/4" OD - 316 SS 1/4" OD - Inconel 625 1/4" OD - Inconel 625	345 bar @ 538°C 345 bar @ 538°C 345 bar @ 593°C	304 SS 304 SS Inconel 625	31 bar @ 343°C 31 bar @ 343°C 31 bar @ 343°C
Designato	rs	1	2 3 4 5	- 6 7 8 9	10
Example C	Ordering No.	HPXF - 1	1 1 1 1	- 0 0 0 0	Χ
Ordering I	No.	-	ш		

1 INLET BLOCK VALVE

- O No inlet valve
- 1 Needle valve 316 SS_(Std. Swagelok)
- 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)

3 PRESSURE REGULATION

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

↑ 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

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