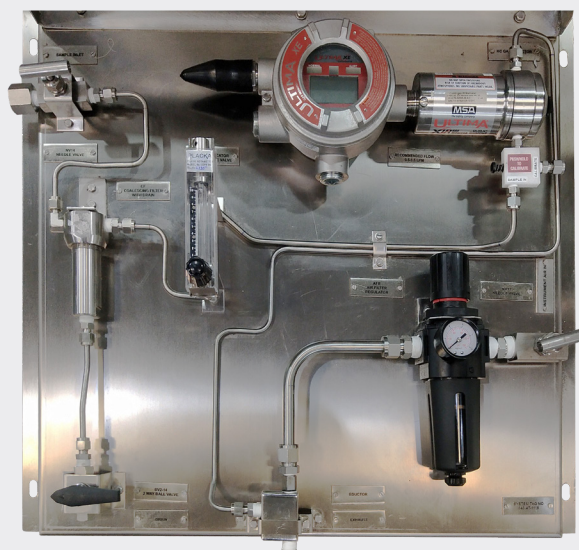


# Aspiration System

## AS1



AS1

### FEATURES

- » Economical
- » Less Maintenance
- » Ease of maintenance
- » Ease of Installation
- » Compact Design
- » Suitable to Safe/Hazardous Area
- » PESO or ATEX Certified

### APPLICATIONS

- » Refineries
- » Petrochemicals
- » Oil & Gas
- » Chemical Industries

### ADVANTAGES

- » Less space Occupied due to horizontal installation
- » Highly reliable and accurate for long distance sample analysis
- » Design for stable operation of gas detection
- » Cost effective mini sampling system

### DESCRIPTION

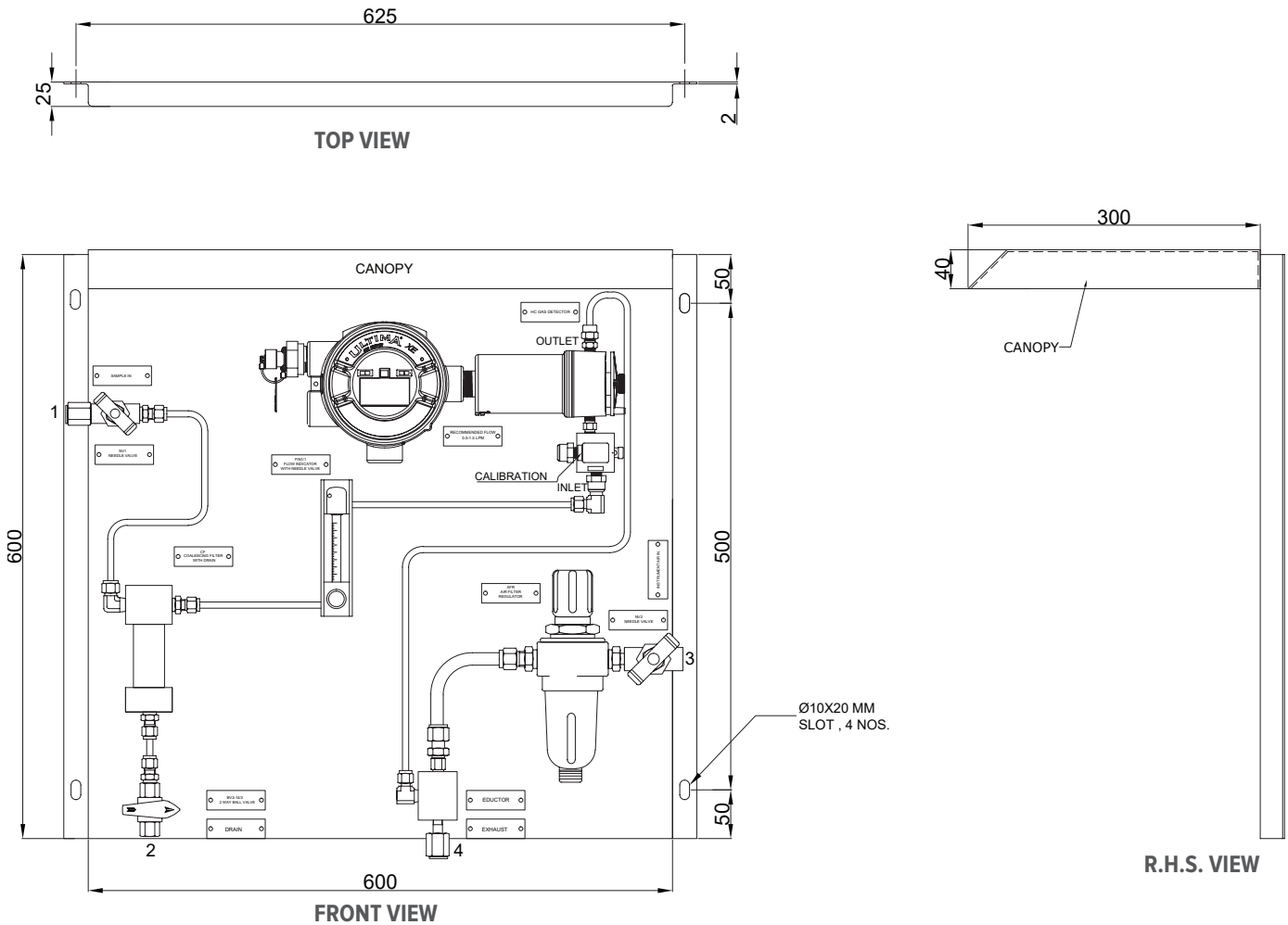
Refer typical diagram of ASPL Aspiration System specially designed for prevention moisture from the sample and measuring proper reading of sample for the analysis.

In the system sample is taken from source to gas detector, sample is transferred from long distance with help of Eductor. Instrument air is also given through the Air filter regulator for analysis purpose.

On another hand sample is also taken for calibration purpose. Axis Aspiration system is providing manual and auto calibration. For manual calibration detector close the non-return valve and ball valve shall be turned into calibration side.



## DIMENSIONAL DETAILS OF PNEUMATIC ASPIRATION SYSTEM



## CONNECTION DETAILS

1 - SAMPLE IN 1/2" NPT(F) SS 316
2 - DRAIN 1/4" NPT(F) SS 316
3 - INSTRUMENT AIR IN 1/2" NPT(F) SS 316
4 - EXHAUST AIR 1/2" NPT(F) SS 316

## SPARE / ACCESSORIES

Accessories	Description	Local Make	Part No.
Glass micro Fiber element	Glass micro Fiber element (1 pkt=5nos.)	Axis	1 no.
Filter Element	Filter Element: Quartz based	Axis	1 no.
3 Way Ball Valve	MOC: SS 316, End Connection: 1/4" NPT F, Pressure: 100 kg/cm2, Temperature: 50°C	Prime/Baldota	1 no.
Needle Valve	MOC: SS, End Connection: 1/4" NPTF, Pressure: 100 kg/cm2, Temperature: 200°C	Prime/Baldota	1 no.
Needle Valve	MOC: SS, End Connection: 1/2" NPTF, Pressure: 100 kg/cm2, Temperature: 200°C	Prime/Baldota	1 no.

Eductor	Air inlet port: 1/8" NPTF, Suction port: 1/4" NPTF, MOC - SS	Axis	1 no.
Silencer	Silencer, MOC: Brass	Axis	1 no.
Sample flow meter	Rotameter with needle valve, Range: 0.2 - 2 LPM, Float: SS316, End Connection: 1/4" NPTF, Pressure rating: 10 kg/cm2, Max. Temperature: 100°C	Placka/Eureka	1 no.
Sample gas pump	Sample gas pump	Axis	1 no.
Double compression type Fittings SS		Prime/Baldota	AR
SS Tubing		Axis Appvd. Vendor	AR

Accessories	Description	Imported Make	Part No.
Glass micro Fiber element	Glass micro Fiber element (1 pkt=5nos.)	Buhler	1 no.
Filter Element	Filter Element: Quartz based	Buhler	1 no.
3 Way Ball Valve	MOC: SS, End Connection: 1/4" OD, Pressure: 100 kg/cm2, Temperature: 50°C	Swagelok/Hoke	1 no.
Needle Valve	MOC: SS, End Connection: 1/4" OD, Pressure: 100 kg/cm2, Temperature: 200°C	Swagelok/Hoke	1 no.
Needle Valve	MOC: SS, End Connection: 1/2" OD, Pressure: 100 kg/cm2, Temperature: 200°C	Swagelok/Hoke	1 no.
Eductor	Air inlet port: 1/8" NPTF, Suction port: 1/4" NPTF, MOC-SS	Permapure	1 no.
Silencer	Silencer, MOC: Brass	Permapure	1 no.
Sample flow meter	Rotameter with needle valve, Range: 0.2 - 2 LPM, Float: Hastelloy, End Connection: 1/4" NPTF, Pressure rating: 10 kg/cm2, Max. Temperature: 100°C	Buhler/Brooks	1 no.
Sample gas pump	Sample gas pump	Buhler	1 no.
Double compression type Fittings SS		Swagelok/Hoke	AR
SS Tubing		Sandvik	AR