Aspiration System

AS





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.

ORDERING INFORMATION

PAS1									9		
	Distance Between stack to Detector										
	0								Up to 40 meter-Use Eductor		
	1								Up to 100 meter-Use Pump		
		Sy	stem Mount in Plate				Plat	e			
		0				CRCA Painted			CRCA Painted		
		1						MOC: SS 316,2mm thick			
		2							MOC: SS 304 ,2mm thick		
			Sy	System Mount in Box			K				
			0						MOC: SS 316		
			1						MOC: SS 304		
			2						MOC: MS Painted		
				Ha	zaro	lou	s Ar	ea C	Classification		
				0					None (if Safe area selected)		
				1				Zone 1&2, IIA/IIB			
				2			Zone 1&2, IIC		Zone 1&2, IIC		
					Power Supply		/				
					0	110VAC, 50 HZ		110VAC, 50 HZ			
					1				230VAC, 50 HZ		
						Ca	libr	atio	on Type		
						0			Manual		
						1		Automatic			
							Ce	rtifi	ication		
							0		Standard COC (If safe area is		
									selected)		
							1		Local / PESO		
							2		ATEX		
							Make of Component				
								0	Axis Approved vendor		
								1	Important Make		

SPECIFICATION

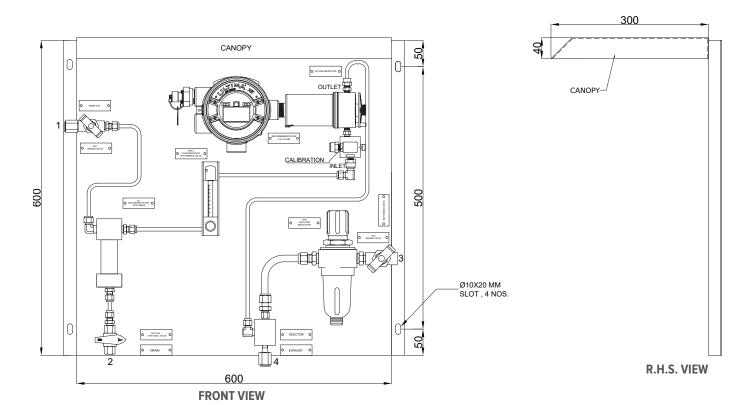
Specification of System Box				
2mm SS 316 sheet for door and sides				
2mm SS 316 sheet for components mounting plate				
Finish: Buff finish				
Overall Dimension: 700(H)x750(W)x300(D)mm				
Mounting Plate: 790(W)mm, 2mm thickness, MOC: SS 316				
All dimensions are subjected to the tolerance of ±5mm.				
Over All weight: approximately 50 kg.				
Connection Details				
Sample 1/2" NPT(F) SS 316				
Calibration 1/4" NPT(F) SS 316				
Instrument Air 1/4" NPT(F) SS 316				

TECHNICAL SPECIFICATIONS

Mounting	Plate / Box
Body Material	SS 304 / SS 316
Suitable for	Safe area Zone 1&2, IIA/IIB Zone 1&2, IIC
Calibration	Manually Automatic
Power Supply	110VAC or 230VAC, 50 HZ

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 Fi	ttings SS	Swagelok/Hoke	AR
SS Tubing		Sandvik	AR