Auto Change Over Unit

ACOU1





ACOU1

FEATURES

- » Economical
- » Self-Standing
- » Maintenance Free
- » Ease of maintenance
- » Ease of Installation
- » Mounting provision of cylinders with clamping arrangement
- » Compact Design

ADVANTAGES

- » Less space occupied due to horizontal installation
- » Used up to 300bar and 170°C temperature media
- » Highly reliable for continuous operation
- » Design for uninterrupted gas flow for stored gas cylinder
- » Eliminate costly system downtime and maintenance
- » Optional low-pressure alarm can be provided from each bank
- » Ensure constant pressure and flow to system

APPLICATIONS

- » Gas Chromatograph Measurement
- Laser Gas System
- High Volume Gas Manufacturing Facilities
- » Back-up system for Compressor
- » Generators or other plant air sources
- » Applicable where replacing and refiling frequently
- » Refineries
- » Hydro Carbon fluid detection

DESCRIPTION

Refer typical diagram of ASPL Auto change over unit where filled cylinders in Bank- A and Bank- B connected to inlet of Auto change over regulator.

In first stage regulator of auto changeover unit fixed amount of gas pressure will be controlled and in second stage means line regulator will be adjusted with knob to achieve desire system pressure of gas. This two-stage pressure regulation shrinks the supply pressure effect caused by depleting gas cylinders.

During operation when Gas supply Bank-A pressure reduced to Predefined level then it will auto changeover to Bank-B to continue supply of gas. Empty cylinders of Bank-A can be taken for refilling.

ORDERING INFORMATION

ACOU1										9		
	Auto Change over Regulator Model											
	0									Ax	Axis Standard Model ACR 1	
									Cu	Custom Models (Note-1)		
	1G									GC	GO-(COM-1/COM-2B/COM-2P)	
	15									Sv	Swagelok- (KCA/KCM Series)	
	1T									TE	TESCOM-(ACS 012/CS-2200/	
											NA-4)	
		Вс	Body Material									
		0	SS 316 Cylinder Change over Pressure (Note2)								316	
			0							6.8	6.8 Bar	
			2							17	17 Bar	
										34	34 Bar	
				Regulator Pressure Gauge								
				0					Wi	Without Gauge		
				1						Wi	With Gauge	
					Accessories-1 flexible Hose Connection							
					0				-	thout Hose Connection		
					1					th Hose Connection		
					Accessories-2 Bullnose Connector					Ilnose Connector		
						0		Wi	thout Connector			
						1		Wi	th Connector			
						Bank Arrangement S						
							0			Wi	thout Bank Arrangement	
							1				th Bank Arrangement ote :3)	
								Low Pressure Alarm of Bank				
								0		W	ithout Alarm	
								1		W	ith Alarm of Each Bank	
								Nos. Cylinder Arrangement				
									0	21	Nos.of Cylinder	
									1	41	Nos. of Cylinder	
									2	61	Nos. of Cylinder	

Note ${\bf 1}$: As per the selection of types of model further details may vary.

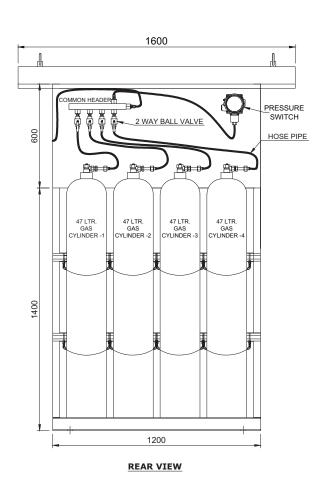
Note 2 : Always Cylinder Pressure Should be more than change over pressure for auto function

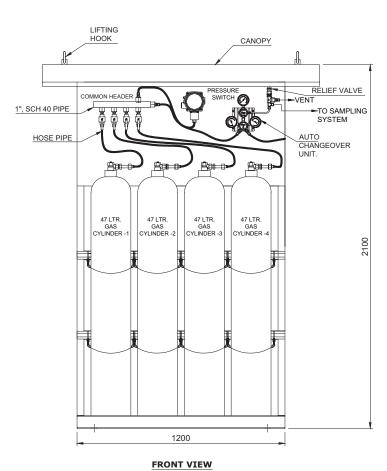
Note 3 : For Bank Arrangement system we recommended use of Headers with Isolation Valve

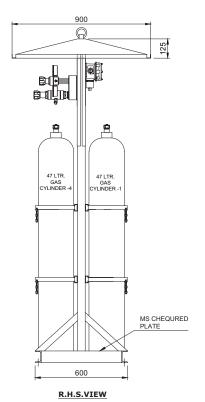
TECHNICAL SPECIFICATIONS

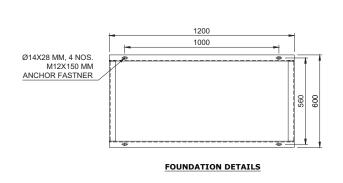
Mounting	Horizontal				
Body Material	SS 316				
Seat Material	PTFE				
Diaphragm	Nitrile / Viton/ SS 316				
Dimension	Refer Dimension Details				
Flow Capacity	C=0.06				
Bullnose Connection for Cylinder	Out 1/4"NPT(F) /In 1/4"BSP(M)				
Inlet Pressure	Maximum 300 Bar				
Outlet Pressure	Maximum Up to 34 Bar				
Change Over Pressure	Approx. 6,8,17 & 34 Bar (Inlet Pressure must exceed Change over pressure for auto change over function)				
Manifold Material	SS 316 / SS 304 / (other as per Requirement)				

DIMENSIONAL DETAILS OF AUTO CHANGEOVER SYSTEM

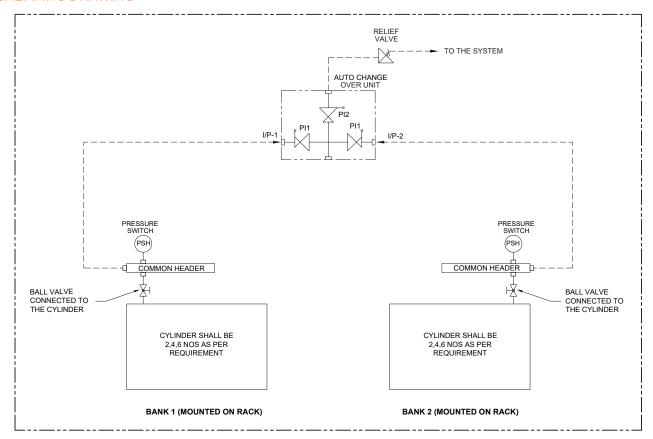








SCHEMATIC DRAWING



SPECIFICATION OF CYLINDER RACK

75x40 mm MS, ISMC C-Channel for Base					
Duly powdered coated finished					
Color: RAL 7035					
Canopy : 1600(W) x 900(D) mm, 1.5mm thickness, MS Sheet steel					
Mounting Plate: 1.5mm thickness, MS sheet Steel					
Overall Dimension: 2100(H) x 1200(W) x 600(D) mm					
All dimensions are subjected to the tolerance of ±5mm.					
Over All weight: approximately 200 kg.					

ADDITIONAL ACCESSORIES

Accessories	Model No.	Description	Qty	
Auto changeover regulator	ACR1	Axis Standard Model		
	COM-1 COM-2B COM-2P	GO (Custom make)	1 No.	
	KCA KCM	Swagelok (Custom make)		
	ACS 012 CS-2200 NA-4	Tescom (Custom make)		
Safety Relief Valve	RL3A	Swagelok, I/p pressure:20.6 bar, O/p pressure; 15.5 bar, Set pressure; 0.7 to 15.5 bar	1 No.	
Ball Valve	SS-42GS4	Swagelok, 2-way Ball valve with 1/4"O.D. Connection	8 Nos.	
Pressure Switch	J 120 Series	UE Makes J 120 Series, suitable to Hazardous and Safe area	1 No.	
Bullnose connector		Axis Standard	8 Nos.	
Cylinder chain		Axis Standard	8 Nos.	
Common headers	Axis Standard, 3/4" Headers connection		1 No.	
Bank Arrangement		In each bank 2,4,6 Nos. Cylinders shall be available as per requirements	1 No.	