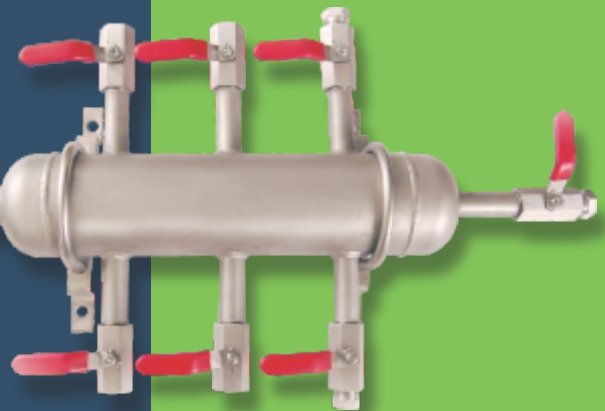


AIR DISTRIBUTION MANIFOLD & CONDENSATE POT



FLUID CONTROLS PRIVATE LIMITED

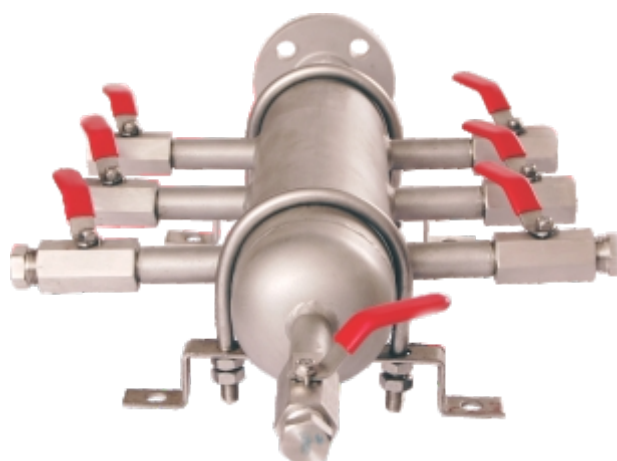
PROFILE

The Valves Unit of Fluid Controls Private Limited was founded in 1979 by Dr. Y.E. Moochhala, a Ph.D in Mechanical Engineering from Northwestern University, USA. The unit was earlier known as Hyd-Air Engineering Works Lonavla and was subsequently merged with Fluid Controls Private Limited in December 2013.

Headquartered in Mumbai, the Fluid Controls valves team has 35 years of expertise in the design, engineering and manufacturing of valves, manifolds, hook-ups, air manifolds and special gas valves. Our clients in India and abroad include large industrial houses, process, power generation and oil / gas industries.

“THE VALVE EXPERTS”

IN HOUSE 2D AND 3D DESIGN CAPABILITIES



CERTIFICATIONS:

ISO 9001:2008

PED Certification

MSS-SP-99

ASTM F-1387-99 (2012)

Fire Safe Ball Valves (API 607/ISO 10497)

Fugitive Emission Testing (ISO 15848)

KEY CLIENTS

Bharat Heavy Electricals Ltd.

Cameron surface systems

Daelim Industrial Co Ltd.

DMDE - Secunderabad

Econosto Netherlands

Essar oil, power & steel

Emerson Process Management

Engineers India Ltd.

Gas Authority of India Ltd.

Indian Oil Corporation Ltd.

IGCAR – Kalpakkam

Jindal Power & Steel Ltd.

Larsen & Toubro Ltd.

Mangalore Refinery & Petrochemicals Ltd.

Nuclear Power Corporation of India

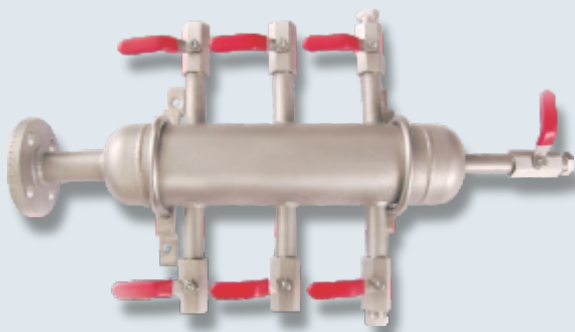
National Thermal Power Corporation

Oil & Natural Gas Corpn. Ltd.

Samsung Engineering

Toyo Engineering

Tata Steel



**ENGINEERING
FLOW CONTROL**

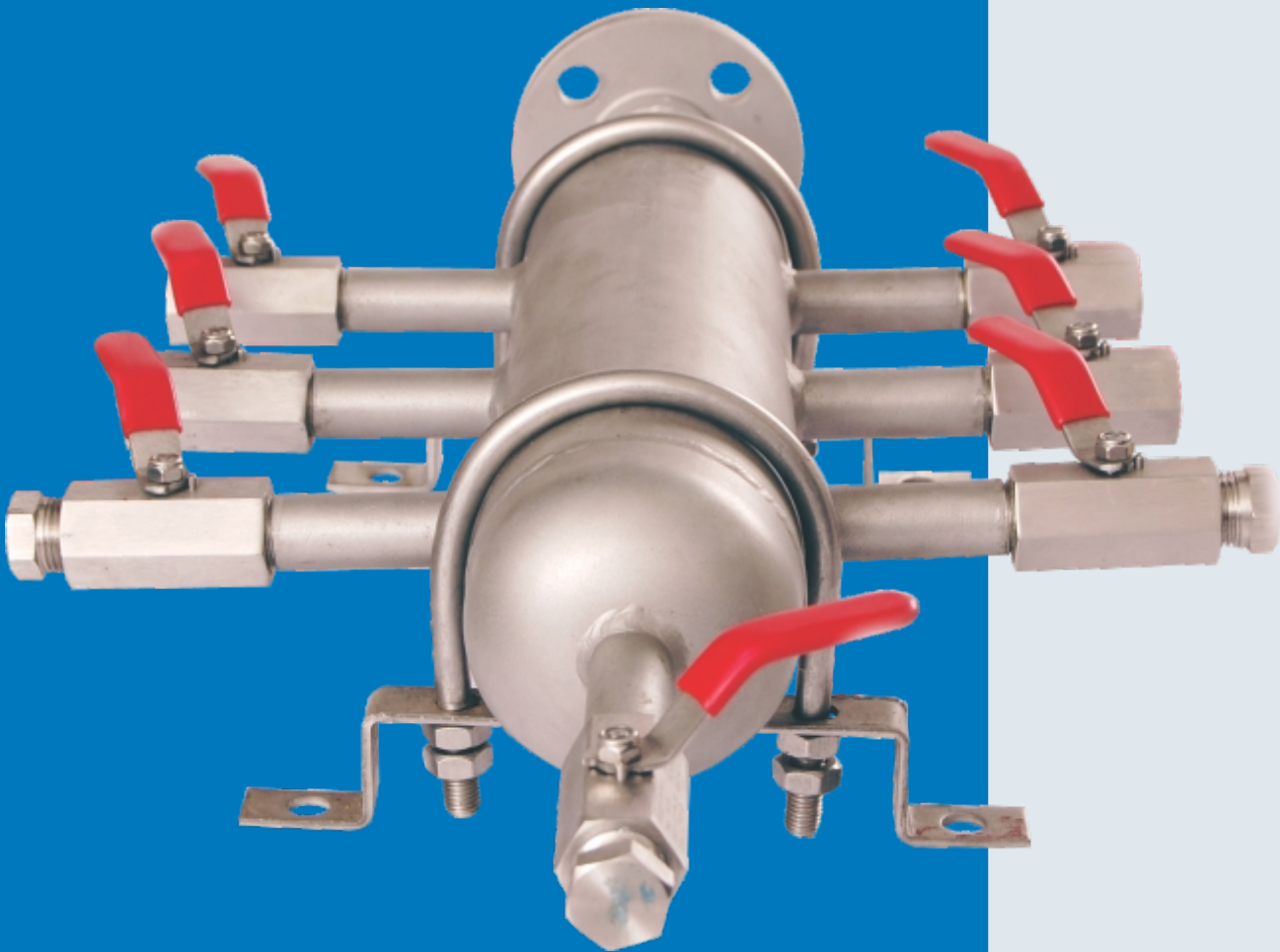
AIR DISTRIBUTION MANIFOLD

DESCRIPTION

Fluid Controls Air Distribution Manifolds are specially designed for delivering air to multiple off-take points. These are custom manufactured to suit client requirements for material, number of outlets and the valve configuration. Each Air Distribution Manifold is a combination of needle and/or ball isolation valves which are fitted to each off-take point along with a drain valve. The Fluid Controls Air Distribution Manifold can be provided along with mounting brackets.

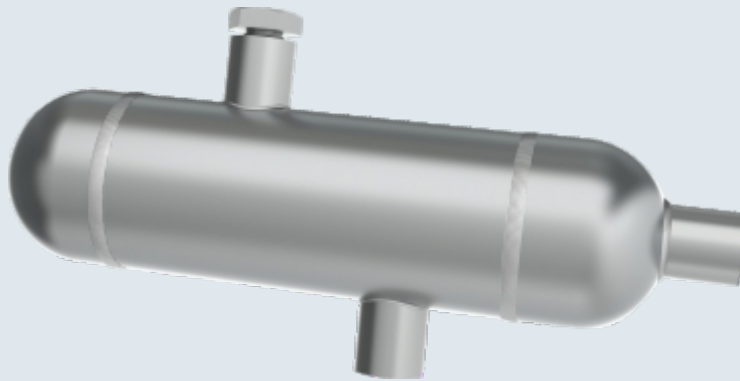
TECHNICAL DATA

Pressure Rating	:	Standard upto 40 kg/cm ² (569 psig) Pneumatic above pressure as per Higher pressure upto 120/kgcm ² (1704 psig) also available Designed as per - ASME SEC - VIII Div - I Fabrication & welding as per - ASME SEC IX
Material	:	Carbon steel, SS 304, SS 316, SS 304L also available SS 316 L Material certificate according to EN 10204/3.1b
Finish	:	Carbon steel – Hot dip galvanized, SS Natural
Types of Valves	:	Isolation Needle valve & full bore / reduce bore ball valve
Valves Material	:	Carbon steel, SS 304, SS 316, SS 304L, SS 316 L, Brass
Type of Ports	:	<u>Valves are available for three types of ports</u> 1) Inlet port - DIN & ASME flanges or threaded connection 2) Outlet port - No. of outlet port 2 or as per customer requirement max 20 3) Drain port - As per customer requirement
Ports Direction	:	Staggering or straight, Single sided or double sided parts with male /female threaded welded on distribution pipe
Type of End Connections	:	1) Tube ends : Single ferrule compression tube ends : Double ferrule compression tube ends 2) DIN & ANSI flanges 3) Threaded connection (BSP, NPT)
Main Body Connected	:	1) With cap 2) With reducer
Outlet Port Connected with Main Body	:	1) Socket Weld 2) Butt Weld
Certification on Request	:	Weld joints are Argon welded as per ASME Section IX by qualified welders.
Mounting Arrangement	:	1) WPS for approval 2) UT/Radiography test <u>Three types:</u> 1) U' - clamps and bolts Mounting 2) Bracket Mounting 3) Wall or Rack Mounting
Design and Testing Standards Followed	:	ISO/ISA



CONNECTION	
VALVE SIZES	
NPT (F)	BSP (F)
1/4"	1/4"
3/8 "	3/8 "
1/2"	1/2"

DISTRIBUTION PIPE SIZE AND SCHEDULE		
SIZE	SCHEDULE	AVAILABILITY
1" NB pipe standard	40/80/160/XXS	Yes
2" NB pipe standard		Yes
3" NB pipe standard		Yes
4" NB pipe standard		Yes



CONDENSATE POT

DESCRIPTION

Fluid Controls Condensate Pots are specially designed to catch hold condensate and foreign material, thus preventing damage to the metering system and/or manifold. These are custom manufactured to suit client and project applications. Fluid Controls Condensate Pots are available in a variety of materials and finishes. Standard pipe sizes are 2" to 6" and a variety of connections fittings can be provided.

TECHNICAL DATA

Function	:	Condensate pot or chambers are used in measurement of steam or other vapors which condensate to liquid state at ambient temperature
Process	:	The condensate is drained from the bottom valve connection and are suitable for use with our range of ball valves
Material	:	The condensate pots or chambers are available in a range of materials & have been designed accordance with ASME VIII Div I
Material Type (With SMLS Pipe)	:	1) Carbon Steel to A 106 Gr. B 2) SS 304 to Grade A 312 TP 3) SS 316 to Grade A 312 TP 4) SS 304L to Grade A 312 TP 5) SS 316L to Grade A 312 TP 6) A335 Gr P11 7) A335 Gr P22 8) API SL Gr B 9) A333 Gr B 10) A333 Gr 6 Also available with dual certification. Optional sour gas service materials are also available conforming to NACE Std. MR-01-03



Design Temperature	:	Upto 100°C (212°F)
Hydro Shell Pressure	:	Upto 150 kg/cm ² [2100(psi)] @ ambient temperature, other pressure & temperature conditions are available on request as special order
Construction	:	Method of construction is to machine and weld flat plates of proper thickness or pipe sections. Threaded ends are available while socket and butt weld ends need length to be specified
Welding	:	All welding as per ASME Sec IX
Application	:	Refineries, liquid petroleum gas, processing plant, petro-chemical plant, also if system Difficult to shut off due to solid contents dust, rust, dirt. etc.
Sizes	:	2", 3" and 4" large size upto 8"
Length	:	Pipe length 8" Larger length available upon request
Pipe Schedule	:	40, 80, 160, XX Seamless Pipe
Features	:	½" NPT as per ANSI B 1:20:1 taper pipe thread Socket weld as per ANSI B 16.11 Butt weld as per ANSI B 16.9 All carbon steel condensate pots are hot deep galvanized All condensate pots are 100% tested at factory prior to shipment Ends will be protected with dead plug/plastic caps
Certifications	:	IBR form IIIC available on request Chemical & Physical Butt weld joints will be tested for 100% radiography and fillets will be D.P. Tested



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Associated companies and products:



Hyd-Air



Fluid Controls

