



DATASHEET

Extrenal Chamber



SMTech Engineering Solution

Gat No. 77, Plot No. 05, Opposite Sharp Engg.
Jyotibanagar, Talawade, Pune – 411062

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External Chamber



Product overview

The external chamber (Model – ECG) consists of an external chamber vessel that is mounted laterally to a vessel using at least 2 process connections (flange, thread or weld stub). Through this type of arrangement, the level in the external chamber corresponds to the level in the vessel.

The level is measured by a measuring instrument inserted additionally in the external chamber, for example Float switches, Level Transmitters, Guided wave radar, etc.

Applications

- Level detection for almost all liquid media
- Individual design and corrosion-resistant materials make the products suitable for a broad range of applications
- Chemical industry, petrochemical industry, oil and natural gas extraction (on- and offshore), shipbuilding, machine building, power generating equipment, power plants
- Process water and drinking water treatment, food industry, pharmaceutical industry

Special Features

- Process- and procedure-specific production
- Operating limits:
 - Operating temperature: $T = -196 \dots +450 \text{ }^{\circ}\text{C}$
 - Operating pressure: $P = \text{Vacuum up to } 400 \text{ bar}$
- Wide variety of different process connections and materials.



External Chamber

Technical Specifications



External Chamber

- Single chamber
- Dual chamber
- Multiple special materials available
- Chamber size: ANSI 1.5" to 6"
- Maximum pressure rating: ANSI 2500LB
- Multiple options for installation and process connection

Technical Specifications

Chamber Material	: SS-304/304L, SS-316/316L, SS-321L, Titanium, Hastelloy C276, SS-304/ 316 lined PTFE, Carbon steel, Inconel, Duplex/Super Duplex, Monel, PVDF, CPVC and PP
Pressure Rating	: ASME #150 to #2500; DIN PN16 to PN 420
Process Connection Size	: Side Mounting – ASME 1/2" to 3" and DIN DN15 to DN80
Process Connection Type	: Flanged / Threaded / Nipple
Centre to Centre Distance	: 350 mm to 6000 mm (Any other on request)
Temperature Range	: – 200 to +450 deg. C
Pressure Range	: Full vacuum to 400 Barg (Other on request)

Optional Accessories

Transmitter & Switches	: Various type of transmitters and switches are available
For High Temperature	: High temperature insulation pad; high temperature insulation blanket
For Low Temperature	: Insulation level with special frost prevention extension device
Heat Tracing	: Electric heat tracing, steam tracing tubing, steam jacket
Valve	: Vent valve / Drain valve / Isolation valves



External Chamber

Ordering information

Code						
1	Basic Type					
ECG	External Chamber					
2	Process Connection					
	1st Key Type		2nd Key Size		3rd Key Pressure rating / Flange face	
F	Flanged	--	ANSI 1/2" to 3"	--	#150 - #2500 / RF/SF/FF/RTJ	
T	Threaded		DIN DN15 to DN80		PN6 - PN400 / C/N/F	
N	Welding Nipple		EN1092 DN10 to DN80		PN6 - PN400 / B1/B2/C/D	
O	Others					
3	Centre to Centre Distance					
M--	C - C Distance in mm					
4	Wetted parts material					
CS	Carbon Steel	IN	Inconel	PP	Polypropylene	
LV	SS 316 / 316L	DU	Duplex / Super Duplex	PV	PVDF	
TI	Titanium	MO	Monel	PC	PVC	
HC	Hastelloy C276	O	Other material grade			
5	Chamber size					
	1st Key Chamber pipe size		2nd Key Chamber schedule / Thickness		3rd Key Chamber type	
	1.5" to 6"	S--	SCH 40 / 80 / 160 / X / XS	N W	Seamless pipe Welded pipe	
6	Special features					
J	Jacketing	IB	Insulation blanket			
ST	Steam tracing	SJ	Special jacketing			
HT	Heat tracing	-	None			

Ordering example

	Basic Type		Process Connection		C-C Distance		Wetted Part Material		Chamber Size		Jacketing
Code	1 ECG	-	2 F/2"/300/RF	-	3 M1000	-	4 LV	-	5 3"/S40/N	-	6 J

Documentation

Following documents shall be provided as a standard part of supply,

- 1) General Arrangement drawings for approval
- 2) Hydro test report.
- 3) Dimensional test report.
- 4) Material certificate 3.1 acc. to EN-10204 for all wetted parts
- 5) Material compliance certificate for all non-wetted parts
- 6) Test & Warrantee Certificate.

For inquiries contact us at:

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