

TECHTROL CALIBRATION POT "TCP"

It is a precision calibration gauge used in chemical dosing system to calibrate flow rate of metering pump. It is available in Solo and Dual construction.

SOLO Construction



Glass Measuring Jar x PP MOC

Glass Measuring Jar x SS MOC

DUAL Construction



PP/ SS Measuring Jar x Tubular Gauge



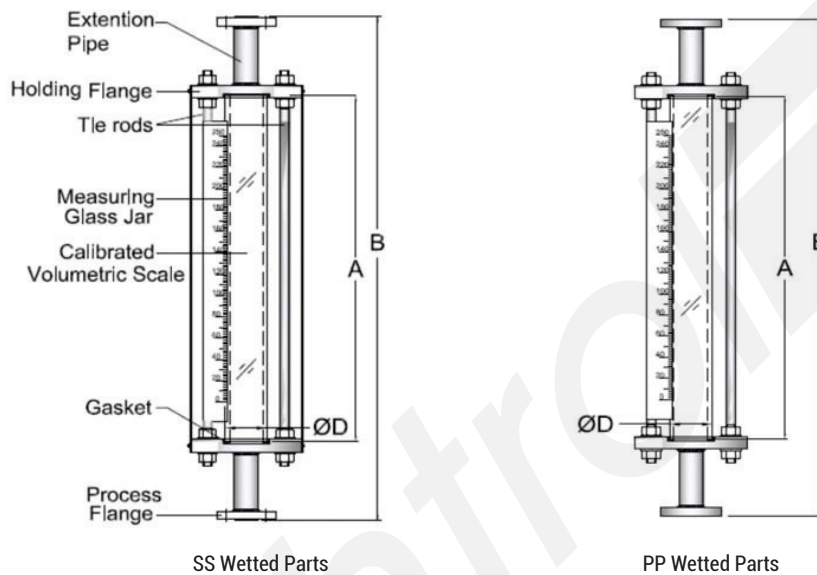
SALIENT FEATURES

- Precise volume measurement upto 1500 ml in Solo construction and 20000 ml in Dual construction
- High reliability at low cost
- Meticulously calibrated for precise measurement
- Can be provided with single or double scale calibrated in volume alongwith flow rate

CONSTRUCTION

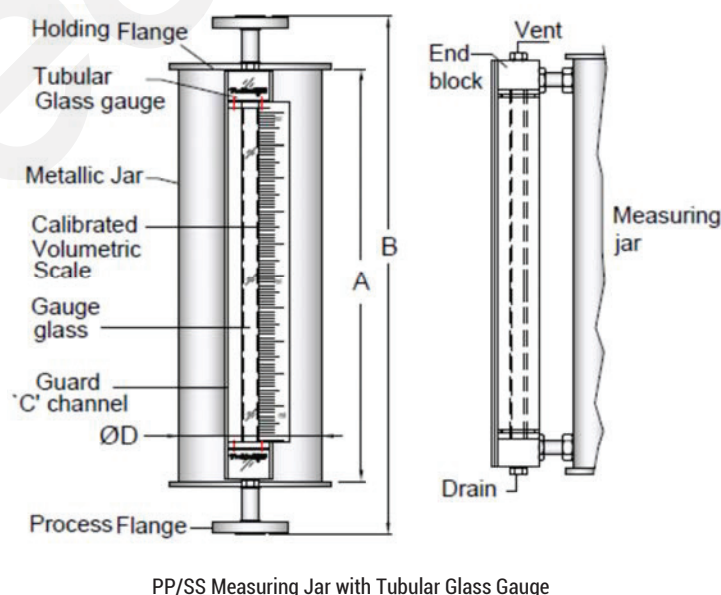
1. SOLO CONSTRUCTION

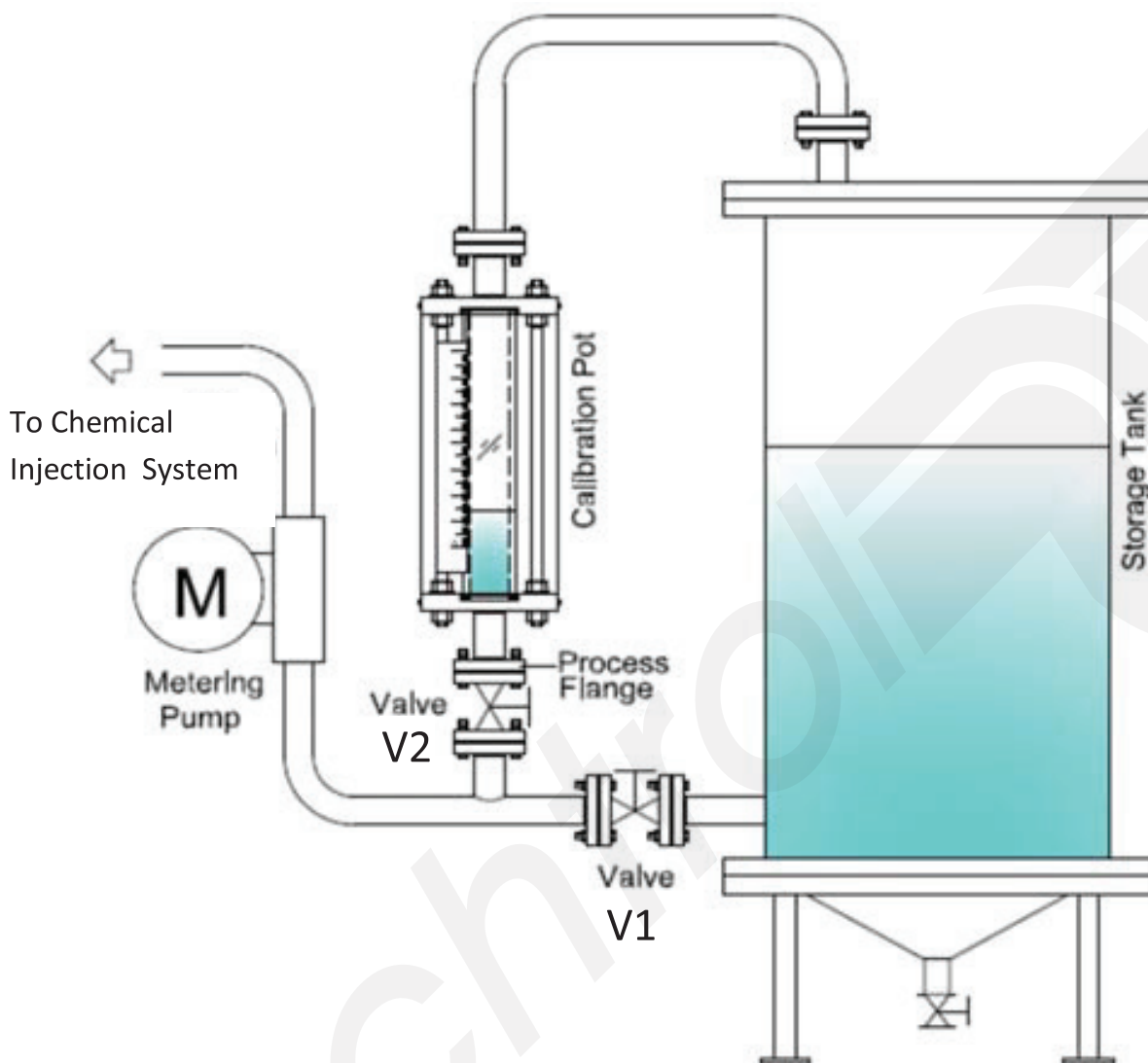
It consists of a glass measuring jar cum tubular level gauge held between two holding flanges along with suitable gaskets using tie rods. It is provided with graduated scale on front side for visual indication. It is available in PP or SS MOC. The pot in SS MOC is provided with SS protected shield for personal safety.



2. DUAL CONSTRUCTION

It consists of a PP or SS measuring jar held through welding between two holding flanges. The jar is provided with separate tubular glass gauge with graduated scale on front side for visual indication.





INSTALLATION & OPERATION

TCP is installed between the suction side of a chemical metering pump and storage tank. Two valves should be provided, one at outlet of storage tank (V1) and another at inlet of calibration pot (V2).

One-minute calibration test

1. Open both the valves V1 & V2 till the calibration pot gets filled to its maximum capacity.
2. Close the valve V1 and note down the initial volume reading.
3. Start the metering pump and observe marking on calibration pot for liquid level pumped out for one minute. This corresponds to the actual flow rate of metering pump.
4. If the flow rate is not as per requirement, adjust the feed rate of metering pump and conduct calibration test repeatedly till the flow rate matches the desired value.

SPECIFICATIONS

SOLO Construction	
Volume Capacity	10 to 1500 ml
Measuring Jar	Tempered Borosilicate Glass
Wetted Parts (Holding & Process Flange)	SS304, SS316, SS 316L or PP
Tie Rods MOC	SS304, SS316 or PVC coated SS316
Protection Shield MOC	SS304 or SS316 (metallic wetted parts)
Process Connections	1/2", 3/4" or 1" NB Flange 1/2" NPT (F) (metallic wetted parts)
Gasket	PTFE
Calibrated Scale	SS316 in ML, LTR, LPM or LPH
No. of Scale	Single, Double or Triple
Zero position on Scale	Top or Bottom
Max. Temperature	70 °C (PP wetted parts), 100 °C (SS wetted parts)
Max. Pressure	2 kg/cm ²

DUAL Construction	
Volume Capacity	1501 ml to 20000 ml
Measuring Jar	SS304, SS316, SS316L or PP
Wetted Parts (Holding & Process Flange)	SS304, SS316, SS316L or PP
End Block MOC of Glass Gauge	SS304, SS316, SS316L or PP
Gauge Glass	Tempered Borosilicate Glass
'C' Channel of Glass Gauge	CS (PP jar) Acrylic (SS jar)
Process Connections	1/2", 3/4 " or 1" NB Flange or 1/2" NPT F (with metallic MOC)
Gasket	PTFE
Calibrated Scale	SS316 in ML, LTR, LPM or LPH
No. of Scale	Single or double or triple
Zero position on Scale	Top or Bottom
Max. Temperature	70 °C (PP wetted parts), 100 °C (SS wetted parts)
Max. Pressure	5 kg/cm ² (SS), 2 kg/cm ² (PP)

STANDARD VOLUME CAPACITIES

SOLO Construction					
SL	Volume Capacity (ml)	Diameter	Height (A)	Visibility	Line Size
1	10	16	156	106	1/2"
2	25	19	239	189	1/2"
3	50	25	261	211	1/2"
4	75	28	280	230	1/2"
5	200	38	229	179	1/2"
6	300	46	203	153	3/4"
7	500	59	305	255	3/4"
8	700	75	251	201	1"
9	900	75	309	259	1"
10	1100	87	287	237	1"
11	1300	87	330	280	1"
12	1500	115	222	172	1"
DUAL Construction					
SL	Volume Capacity (ml)	Diameter	Height (A)	Visibility (mm)	Line Size
PP Measuring Jar					
1	1500 – 3000	125	296 – 487	96 – 287	1"
2	3001 – 4000	140	429 – 505	229 – 305	1"
3	4001 – 5000	160	434 – 492	234 – 292	1"
4	5001 – 6000	180	431 – 476	231 – 276	1"
5	6001 – 8000	200	411 – 482	211 – 282	1"
6	8001 – 10000	225	423 – 478	223 – 278	1"
7	10001 – 12000	250	426 – 471	226 – 271	1"
8	12000 – 15000	280	416 – 470	216 – 270	1"
9	15001 – 20000	315	413 – 484	213 – 284	1"
SS Measuring Jar					
1	1500 – 3000	114	354 – 476	244 – 366	1"
2	3001 – 8000	141	343 – 730	233 – 620	1"
3	8001 – 20000	273	256 – 565	146 – 455	1"

Line Size = Process Connection Size

APPLICATIONS

Metering Pumps in Waste Water Treatment, Effluent Treatment Plants, Chemical Injection Skids, Oil & Gas, Pharmaceuticals and Chemical Industries.

MODEL IDENTIFICATION

TCP-	S	N	N	N	1	1
1. Construction						
Solo (Glass Measuring Jar cum Tubular Gauge)	S					
2. Wetted Parts (Holding Flange & Process Connection)						
SS304		N				
SS316		S				
SS316L		L				
PP		P				
Others		O				
3. MOC of Tie Rods						
SS304			N			
SS316			S			
SS316 with PVC coating			T			
Others			O			
4. MOC of Shield						
Not Provided (for PP wetted parts)				W		
SS304				N		
SS316				S		
Others				O		
5. Process Connection						
½" NB ASME 150# Flange					1	
¾" NB ASME 150# Flange					2	
1" NB ASME 150# Flange					3	
½" NPT (F) Screwed (metallic wetted parts)					4	
Others					0	
6. MOC x No. of Calibrated Scale						
SS316 x Single						1
SS316 x Double						2
SS316 x Triple						3
Others						0

TCP-	D	N	1	1
1. Construction				
Dual (PP/SS Measuring Jar and Tubular Gauge)	D			
2. Wetted Parts (Measuring Jar, Holding Flange & Process Connection and End Block of Tubular Gauge)				
SS304		N		
SS316		S		
SS316L		L		
PP		P		
Others		O		
3. Process Connection				
½" NB ASME 150# Flange			1	
¾" NB ASME 150# Flange			2	
1" NB ASME 150# Flange			3	
½" NPT (F) Screwed (metallic wetted parts)			4	
Others			0	
4. MOC x No. of Calibrated Scale				
SS316 x Single				1
SS316 x Double				2
SS316 x Triple				3
Others				0

ORDERING INFORMATION

- Model Number x Capacity, Liquid and Operating Temperature
- Scale Calibration (in ML, LTR, LPM or LPH) and Zero starting of scale from top or bottom.

*All dimensions in mm except specified

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