

CHLORINATORS



VACUUM TYPE MODEL MTP

CHLORINATOR MODEL MTP PANEL CONSISTING OF THE FOLLOWING

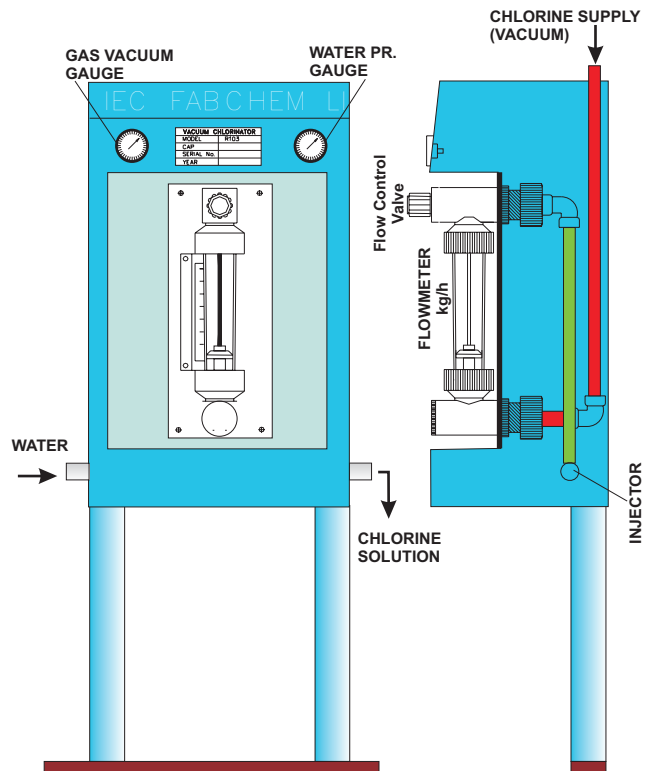
Model MTP chlorinators are solution feed vacuum operated frame mounted type. A series of 7 capacities of chlorinators of 0.2 Kg 25 Kg/hr are available. The operating components such as Flow control valve, Feed rate indicator are mounted on fibre glass panel. The panel also has indication of water pressure gauge and chlorine vacuum gauge. A water operating injector is mounted in the panel with provision for water inlet and chlorine solution outlet. The frame has provision for grouting on the floor.

THE FOLLOWING ARE THE PARTS OF CHLORINATORS

CHLORINATION PARTS	QUANTITY
Chlorine gas flow meter in Kgs/hr	1
Water pressure gauge	1
Chlorine vacuum gauge	1
Injector with check valve	1
Chlorine gas flow control valve	1
Floor mounted panel	1

REMOTE VACUUM REGULATOR

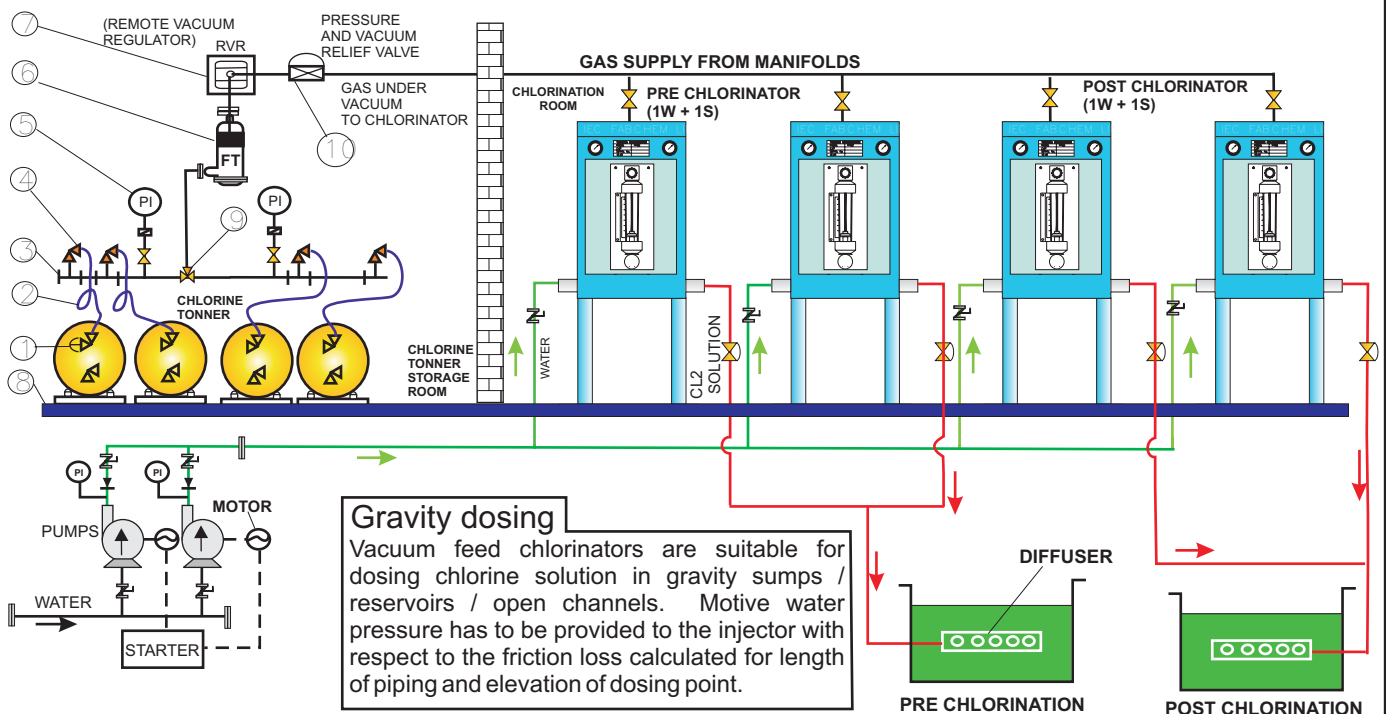
The remote vacuum regulating valve can be located near the chlorine gas supply manifold so that the chlorine gas piping to chlorinator is handled under vacuum for operators safety. The remote vacuum regulator is a normally closed and vacuum to open. Unless a vacuum is created by a water operated injector of the chlorinator, the remote vacuum regulator will not open and allow the gas to chlorinator. Hence the remote vacuum regulator is an automatic shut off device incorporated to stop the chlorine supply to chlorinator in case of motive water supply failure to the chlorinator or due to any loss of vacuum such as rupture of pipeline and vacuum line and closing of chlorine solution line on outlet of the ejector.



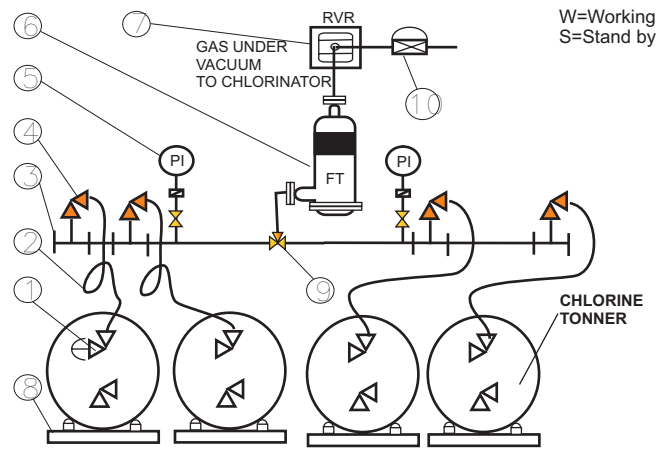
INSTALLATION

IEC's gas chlorinator Model MTP is a vacuum type chlorinator mounted on a panel for multiple installations. It is ideal for using one Remote Vacuum regulator with number of panels up to 6 Nos. All the safety features are incorporated for safe handling of chlorine gas under vacuum. Chlorinator Model MTP are available for the capacities of 1, 2, 5, 10 & 25 Kg/hr. Vacuum regulators are available with 50 Kg/hr and 100 Kg/hr capacity for multiple installations.

TYPICAL INSTALLATION OF 10 KG/HR PRE & 10KG POST CHLORINATORS (1W + 1S) EACH SYSTEM



FOR 2 TONNER CONNECTOR CAPACITIES UPTO 20 kg/h (1W + 1S) MANUAL CHANGE OVER

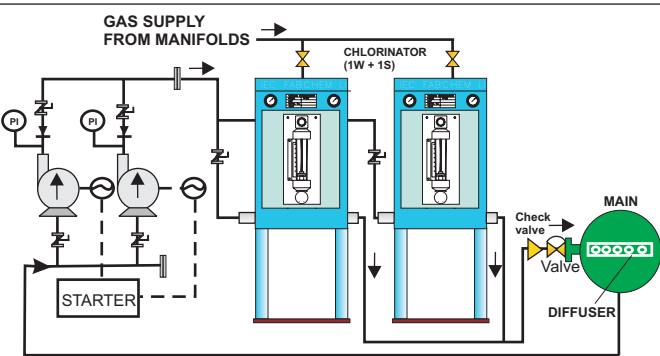


A. BILL OF MATERIALS	No of Tonners		
	1W+1S 10 kg/hr	2W+2S 20 kg/hr	4W+4S 40 kg/hr
MANIFOLD & ACCESSORIES			
1. ATC valve with yoke	2	4	8
2. Flexible connector	2	4	8
3. Manifold	-	2	2
4. Manifold isolation valve	2	4	8
5. Gas pressure gauge	2	2	2
6. Gas filter	1	1	1
7. Remote vacuum regulator	1	1	1
8. Trunnion roller supports	2	4	8
9. 3 Way manual operated ball valve	1	1	1
10. Pr. & Vacuum Relief Valve	1	1	1

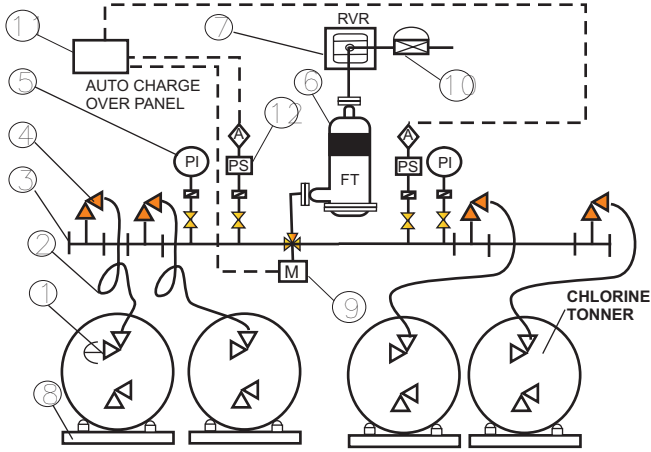
Model No.	Chlorine Capacity kg/h	Minimum No of Tonne Connected (Working)	End Connection	
			Water NB	Chlorine solution NB (PVC-00)
MTP- 0.2	0.2	1	-	-
MTP- 0.5	0.5	1	-	-
MTP- 1	1.0	1	15	20 (25 Ø)
MTP- 2	2.0	1	20	25 (32 Ø)
MTP- 5	5.0	1	25	32 (40 Ø)
MTP- 10	10.0	1	32	40 (50 Ø)
MTP- 25	25.0	2	40	50 (63 Ø)

PRESSURE MAIN DOSING

Vacuum feed chlorinators are also suitable for pressure main dosing. Here the chlorine solution can be injected into the pressure main. In this type of pressure main dosing the motive water to the injector will be the pressure calculated as per the pipe friction loss due to length + elevation at dosing point + pressure in the pipeline into which the chlorine solution is to be injected. A booster pump / motive water pressure for the injector operation is required.



FOR 2 TONNER CONNECTOR CAPACITIES UPTO 20 kg/h AUTO CHANGE OVER



A. BILL OF MATERIALS	No of Tonners		
	1W+1S 10 kg/hr	2W+2S 20 kg/hr	4W+4S 40 kg/hr
MANIFOLD & ACCESSORIES			
1. ATC valve with yoke	2	4	8
2. Flexible connector	2	4	8
3. Manifold	-	2	2
4. Manifold isolation valve	2	4	8
5. Gas pressure gauge	2	2	2
6. Gas filter	1	1	1
7. Remote vacuum regulator	1	1	1
8. Trunnion roller supports	2	4	8
9. 3 Way motor operated ball valve	1	1	1
10. Pr. & Vacuum Relief Valve	1	1	1
11. Auto change over panel	1	1	1
12. Pressure Switch	1	1	1

PRESSURE FEED INSTALLATION BILL OF MATERIALS

1. Booster pump with motor (1W + 1S)	2 Nos.
2. Pressure indicator with alarm	2 Nos.
3. Pump suction and delivery valves	4 Nos.
4. Pump suction pipe	6 Metres
5. Injection fitting diffuser	1 Nos.
6. Diaphragm valve	1 Nos.
7. Check valve	1 Nos.
8. Chlorine solution pipe	6 Metres
Starter	Not in IEC scope.

OPTIONAL

Auto change over chlorine supply. Auto change over system incorporates changing over of empty manifold to the filled manifold with required motor operated valves, pressure switches and change over panel incorporating the auto change over. The schematic is shown in the drawing for various combination of chlorine tonners.

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