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Design Data

According to details received from client our input data is:

Subject	Value		Remarks	
Q _m 52.6 m ³ /l		m³/hr	Filling rate	
Qout	52.6	m³/hr	Pump out rate	
Flash point	above 37.8°c		Acc to Datashect	
Design pressure	15	mbarg	(Ace to data sheet) and is equal to = 152.96 mm water	
Set Pressure	14	mbarg	142.76 mm water	
Working Pressure	7.5	mbarg	(Acc to data sheet) and is equal to = 76.48 mm water	
Tank Dia	12.5	m	Acc to Datasheet	
Tank Height	11.41	m	Acc to Datasheet	
Wetted Surface Area	358.7	m²	Α=Dxπx9.14	
Venting Requirment(for air)	19910.0	Nm³/hr	n³/hr As per API2000,Table 3B	
Venting Requirment(for N) 20643 Nm³/hr based on 3034-08-ED-SE-CAL-VP-0		based on 3034-08-ED-SE-CAL-VP-0226-0004-B6		

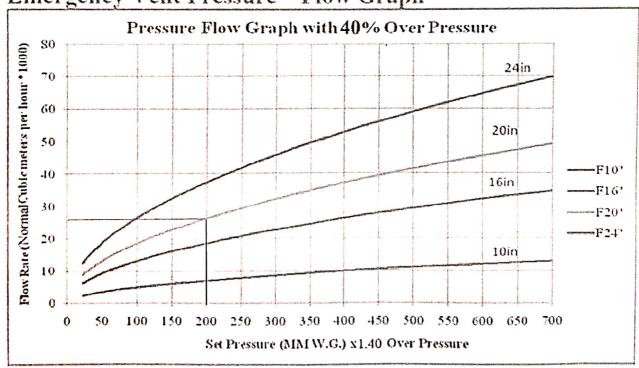
For 20in Emergency Vent, Flow rates are obtained from below diagram

(Fig.3800 Persian GPE.Co Catalog)

Flow Capacity According to Diagram

	Over Pressure	Pressure	Flow	Remarks
Γ	1	142.76 mm Water	23000 NCMPH	Based on set pressure
	1.4	199.86 mm Water	27000 NCMPH	Based on 1.4 time of pressure (beased on API2000 page 33(part C.2.3) and page 37)

Emergency Vent Pressure - Flow Graph



Due to the results, our proposal is 1 set of EV (20in) for each tank (TK0801/5801)

