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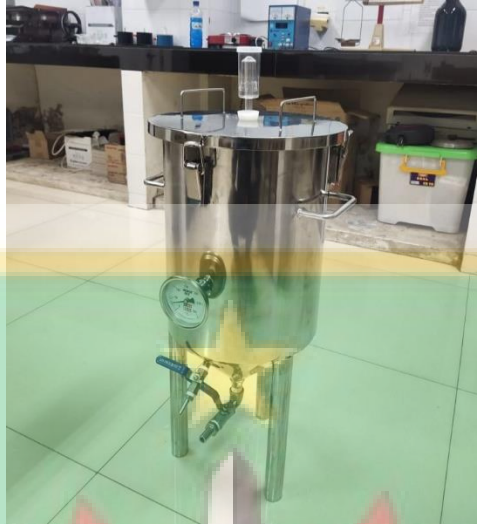
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LAMPIRAN



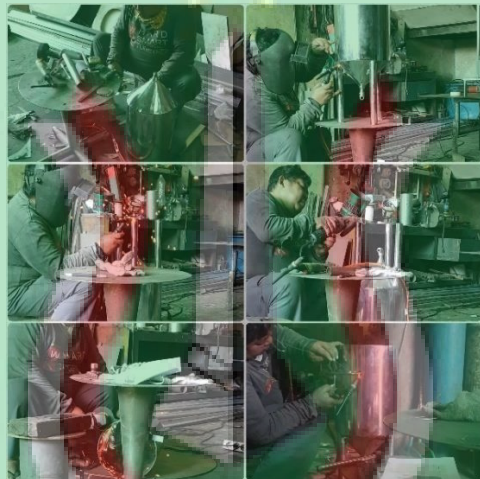
Fermentor anggur kapasitas maksimum produksi 20 liter (1)



Fermentor anggur kapasitas maksimum produksi 20 liter (2)



Proses pembuatan fermentor anggur (1)



Proses pembuatan fermentor anggur (2)



Proses pembuatan fermentor anggur (3)

Tabel nominal ukuran pipa dan schedule pipa ASME B36.19
(www.pipingengineer.org)

NPS	1/2	3/4	1	1¼	1½	2
OD	21.3	26.7	33.4	42.2	48.3	60.3
	Wall Thickness / Ketebalan (mm)					
Sch 5	1.65	1.65	1.65	1.65	1.65	1.65
Sch 5S	1.65	1.65	1.65	1.65	1.65	1.65
Sch 10	2.11	2.11	2.77	2.77	2.77	2.77
Sch 10S	2.11	2.11	2.77	2.77	2.77	2.77
Sch 20	-	...	-	...	-	...
Sch 30	2.41	2.41	2.90	2.97	3.18	3.18
STD	2.77	2.87	3.38	3.56	3.68	3.91
Sch 40	2.77	2.87	3.38	3.56	3.68	3.91
Sch 40S	2.77	2.87	3.38	3.56	3.68	3.91
Sch 60	-	...	-	...	-	...
XS	3.73	3.91	4.55	4.85	5.08	5.54
Sch 80	3.73	3.91	4.55	4.85	5.08	5.54
Sch 80S	3.73	3.91	4.55	4.85	5.08	5.54
Sch 100	-	...	-	...	-	...
Sch 120	-	...	-	...	-	...
Sch 140	-	...	-	...	-	...
XXS	7.47	7.82	9.09	9.70	10.15	11.07
Sch 160	4.78	5.56	6.35	6.35	7.14	8.74

Tabel nominal ukuran pipa dan schedule pipa ASME B36.19
(www.pipingengineer.org)

NPS	6	8	10	12	14
OD	168.3	219	273	323.9	355.6
	Wall Thickness				
Sch 5	2.77	2.77	3.40	3.96	3.96
Sch 5S	2.77	2.77	3.40	3.96	3.96
Sch 10	3.40	3.76	4.19	4.57	6.35
Sch 10S	3.40	3.76	4.19	4.57	4.78
Sch 20	-	6.35	6.35	6.35	7.92
Sch 30	-	7.04	7.80	8.38	9.53
STD	7.11	8.18	9.27	9.53	9.53
Sch 40	7.11	8.18	9.27	10.31	11.13
Sch 40S	7.11	8.18	9.27	9.53	9.53
Sch 60	-	10.31	12.70	14.27	15.06
XS	10.97	12.70	12.70	12.70	12.70
Sch 80	10.97	12.70	15.09	17.48	19.05
Sch 80S	10.97	12.70	12.70	12.70	12.70
Sch 100	-	15.09	18.26	21.44	23.83
Sch 120	14.27	18.26	21.44	25.40	27.79
Sch 140	-	20.62	25.40	28.58	31.75
XXS	21.95	22.23	25.40	25.40	
Sch 160	18.26	23.01	28.58	33.32	35.71

Tabel *safety factor* berdasarkan jenis beban

Jenis beban	<i>Safety factor</i>
Beban Statis	1 – 4
Beban Dinamis	5 – 8
Beban Kejut	>10

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