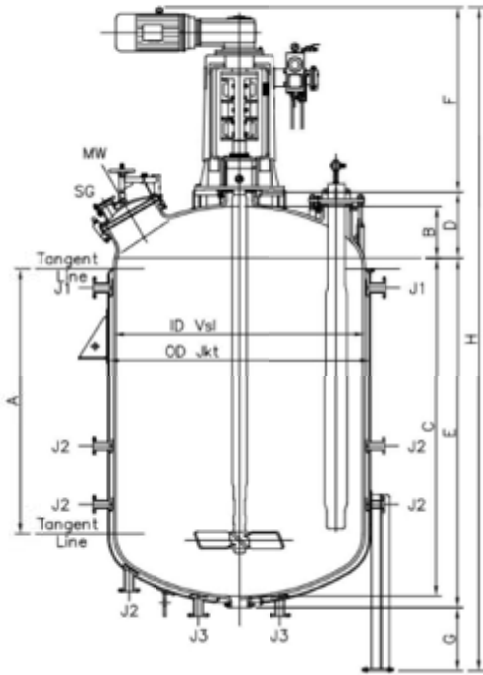
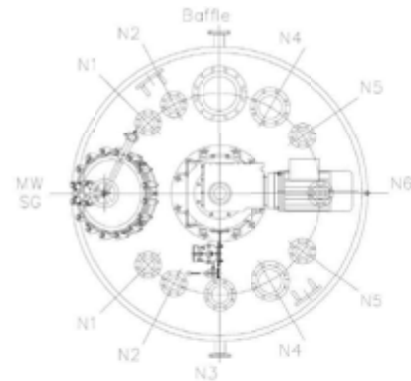


PL series reactors



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Standard design data

Design pressure:

- Internal 125 psi or FV @ 450°F
- Jacket 100 psi or FV @ 450°F

Design and construction according to ASME Code Section VIII, Div.1 and are U-Stamped.

Standard Drive type GRO with quick change double mechanical seal cartridge.

Presslock removable blade agitator system with PBT - pitched blade turbine. Other blade designs, multistage impeller systems and mixing design assistance are available.

Flange mounted flattened pipe baffle is standard.

Customized nozzle arrangement and reactor designs are available upon request.

Many accessories are available: easy access ports, samplers, cladding, valves, inline drives, spring assists, prorings, etc.

Please ask your local representative for additional items and options.

Working Capacity	Gallons	300	500	750	1000	1500	2000	3000	4000	5000	6000	8000	9000
Vessel total Capacity	Gallons	383	580	875	1120	1872	2265	3412	4423	5967	6437	8727	9500
Jacket Capacity	Gallons	68	102	111	143	126	156	183	245	505	384	352	390
Jacket heating area	ft ²	53	80	97	124	161	194	236	305	325	335	430	512
Vessel Inside Diameter	Inches	48	48	60	60	78	78	96	96	102	108	120	126
Jacket Outside Diameter	Inches	54	54	66	66	84	84	102	102	110	115	126	132
Dimension A	Inches	33	58	52	72	65	84	76	108	108	101	120	131
Dimension B	Inches	9	9	12	12	17	17	20	20	20	21	24	26
Dimension C	Inches	48	73	70	90	88	107	106	138	140	135	156	186
Dimension D	Inches	13.5	13.5	16.5	16.5	21.5	21.5	26.8	26.8	26.6	27.5	32.0	36.0
Dimension E	Inches	52.3	77.3	74.3	94.3	92.5	111.5	110.5	142.5	145.0	140.5	162.0	176.8
Dimension F	Inches	49.2	50.0	50.0	55.1	56.3	56.3	66.1	66.9	68.9	68.9	79.5	79.5
Dimension G	Inches	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	30.0	30.0	40.0	40.0
Dimension H	Inches	133	159	159	184	188	207	221	254	271	267	314	332
Reactor net Weight	lbs.	2833	3825	5976	7227	12847	14815	20429	24961	28938	30156	42603	55000
With Drive, Agitator & baffle	lbs.	4442	5479	7718	9145	15339	17350	24354	29172	33832	35094	50562	63000
Full of water	lbs.	8201	11171	15942	19681	32007	37550	54355	68120	79502	83675	117979	152000

PL series reactors

Working Capacity	Gallons	300	500	750	1000	1500	2000	3000	4000	5000	6000	8000	9000
Nozzels on top head													
Manway		14" x 18"	14" x 18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
Sight glass on cover		4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
Free nozzels n° x ND	N1	2 x 3"	2 x 3"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"
Free nozzels n° x ND	N2	--	--	--	--	--	--	2 x 4"	2 x 4"	2 x 6"	2 x 6"	2 x 6"	2 x 6"
Free nozzels n° x ND	N3	1 x 4"	1 x 4"	1 x 4"	1 x 4"	1 x 6"	1 x 6"	1 x 6"	1 x 6"	1 x 8"	1 x 8"	1 x 8"	1 x 10"
Free nozzels n° x ND	N4	--	--	--	--	2 x 8"	2 x 8"	2 x 8"	2 x 8"	2 x 10"	2 x 10"	2 x 12"	2 x 12"
Free nozzels n° x ND	N5	2 x 3"	2 x 3"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"
Free nozzels n° x ND	N6	1 x 6"	1 x 6"	1 x 8"	1 x 8"	1 x 4"	1 x 4"	1 x 4"	1 x 4"	2 x 4"	2 x 4"	2 x 4"	2 x 4"
Baffle nozzle		1 x 6"	1 x 6"	1 x 8"	1 x 8"	1 x 10"	1 x 10"	1 x 12"	1 x 12"	1 x 12"	1 x 14"	1 x 14"	1 x 16"
Drive nozzle		6"	6"	6"	6"	8"	8"	10"	10"	10"	10"	12"	12"
Outlet nozzle on bottom		4"	4"	4"	4"	4"	4"	4"	4"	6"	6"	6"	6"
Jacket nozzle													
J1 nozzels n° x ND		2 x 2"	2 x 2"	2 x 3"	2 x 3"	2 x 3"	2 x 3"	2 x 4"	2 x 4"	1 x 6"	1 x 6"	1 x 8"	1 x 8"
J2 agitating nozzels n° x ND		4 x 2"	4 x 2"	6 x 2"	6 x 2"	6 x 2"	6 x 2"	6 x 2"	6 x 2"	4 x 2"	5 x 2"	6 x 2"	4 x 3"
J3 nozzels n° x ND		2 x 2"	2 x 2"	2 x 2"	2 x 2"	2 x 2"	2 x 2"	2 x 3"	2 x 3"	1 x 3"	1 x 3"	1 x 4"	1 x 4"
Drive GRO standard size		80	80	80	80	100	100	125	125	140	140	160	160
Standard motor	HP	4	5	7	10	15	15	30	41	50	50	75	75
PBT turbine span	Inches	25	25	29	29	29	29	39	39	39	47	51	51

