

# API Std 650 - Shell Nozzles (in)

American Petroleum Institute (<http://www.api.org/>) (API)

## standards

- API Std 650 - Standard for Welded Tanks for Oil Storage

## flanged fitting

Size of Nozzle (NPS)	Outside Diameter of Pipe (OD)	Nominal Thickness of Flanged Nozzle Pipe Wall [a] $t_n$	Diameter of Hole in Reinforcing Plate $D_R$	Length of Side of Reinforcing Plate [b] or Diameter $L = D_o$	Width of Reinforcing Plate $W$	[c] Min. Dist. from Shell to Flange Face $J$	[c] Min. Dist. from Bottom of Tank to Center of Nozzle (Regular Type) [d] $H_N$	[c] Min. Dist. from Bottom of Tank to Center of Nozzle (Low Type) $C$
48	48	[e]	48 1/8	96 3/4	117	16	52	48 3/8
46	46	[e]	46 1/8	92 3/4	112	16	50	46 3/8
44	44	[e]	44 1/8	88 3/4	107 1/4	15	48	44 3/8
42	42	[e]	42 1/8	84 3/4	102 1/2	15	46	42 3/8
40	40	[e]	40 1/8	80 3/4	97 3/4	15	44	40 3/8
38	38	[e]	38 1/8	76 3/4	92 3/4	14	42	38 3/8
36	36	[e]	38 1/8	72 3/4	88	14	40	36 3/8
34	34	[e]	34 1/8	68 3/4	83 1/4	13	38	34 3/8
32	32	[e]	32 1/8	64 3/4	78 1/2	13	36	32 3/8
30	30	[e]	30 1/8	60 3/4	73 1/2	12	34	30 3/8
28	28	[e]	28 1/8	56 3/4	68 3/4	12	32	28 3/8
26	26	[e]	26 1/8	52 3/4	64	12	30	26 3/8
24	24	0.50	24 1/8	49 1/2	60	12	28	24 3/4
22	22	0.50	22 1/8	45 1/2	55 1/4	11	26	22 3/4
20	20	0.50	20 1/8	41 1/2	50 1/2	11	24	20 3/4
18	18	0.50	18 1/8	37 1/2	45 3/4	10	22	18 3/4
16	16	0.50	16 1/8	33 1/2	40 3/4	10	20	16 3/4
14	14	0.50	14 1/8	29 1/2	36	10	18	14 3/4
12	12 3/4	0.50	12 7/8	27	33	9	17	13 1/2
10	10 3/4	0.50	10 7/8	23	28 1/4	9	15	11 1/2

# Api 650 Std 7th Edition

**John Lowell Woodward**



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