

ASME Sec.VIII Div.1 Cheat Sheet

Design

Internal Pressure

Shell		
Longitudinal [1, Section UG-27(c)(2)]	$\sigma_s = \frac{PR_L}{0.2t}$	$\frac{PR_L}{2SE + 0.4P}$
Circumferential [1, Section UG-27(c)(1); Section 1-1 (a)(1)]	$\sigma_s = \frac{PR_L}{t}$	$\frac{PR_L}{SE - 0.6P}$
Heads		
Hemisphere [1, Section 1-1 (a)(2); Section UG-27(d)]	$\sigma_s = \sigma_s = \frac{PR_m}{2t}$	$\frac{PR_L}{2SE - 0.2P}$
Ellipsoidal [1, Section 1-4(c)]	See Procedure 2-7	$\frac{PD_sK}{2SE - 0.2P}$

Nozzle Reinforcement

✓ Area Removed ≤ Area Available + Area Reinforced



External Pressure – Cylindrical shell

1. Assume thickness "T"

3. Determine Factor "A"

5. Determine Factor "B"

$$\frac{4B}{3(D_o/t)}$$

Minimum Nozzle Neck Thickness

Nominal Size	in.	mm
NPS 1/8 (DN 6)	0.060	1.51
NPS 1/4 (DN 8)	0.077	1.96
NPS 3/8 (DN 10)	0.090	2.02
NPS 1/2 (DN 15)	0.095	2.42
NPS 3/4 (DN 20)	0.099	2.51
NPS 1 (DN 25)	0.116	2.96
NPS 1 1/4 (DN 32)	0.123	3.12
NPS 1 1/2 (DN 40)	0.127	3.22
NPS 2 (DN 50)	0.135	3.42
NPS 2 1/2 (DN 65)	0.176	4.52
NPS 3 (DN 80)	0.189	4.80
NPS 3 1/2 (DN 90)	0.198	5.02
NPS 4 (DN 100)	0.207	5.27
NPS 5 (DN 125)	0.226	5.73
NPS 6 (DN 150)	0.245	6.22
NPS 8 (DN 200)	0.282	7.16
NPS 10 (DN 250)	0.319	8.11
> NPS 12 (DN 300)	0.328	8.34

Forming Strain,

if Strain ≥ 5 % Stress relieving Heat treatment to be done

Type of Part Being Formed	Forming Strain, %
Cylinders formed from plate	$\epsilon_f = \left(\frac{50t}{R_f} \right) \left(1 - \frac{R_f}{R_o} \right)$
For double curvature (e.g., heads)	$\epsilon_f = \left(\frac{75t}{R_f} \right) \left(1 - \frac{R_f}{R_o} \right)$

Stamping of Vessel



Specific Marking

- "RT-1,2,3,4"
- "HT" or "PHT"

Hydro Test,

- ✓ 1.3 * LSR * (Design Pressure or MAWP)
- ✓ Or 1.3 * MAP

Pneumatic Test,

- ✓ Normally, not performed. To be done in special case only.
- ✓ 1.1 * MAWP * LSR

Different Stress and Allowable limit,

- ✓ $P_m \leq S$
- ✓ $P_m + P_b \leq 1.5 * S$
- ✓ $P_m + P_b + Q \leq 3 * S$

Permissible Out-of-Roundness,

- ✓ 1 % of Nominal Diameter
- ✓ 2 % @ opening

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Catalog of Copyright Entries, Third Series Library of Congress. Copyright Office, 1975 **Power**, 1927 *Applied Fracture Mechanics* Alexander Belov, 2012-12-12 The book *Applied Fracture Mechanics* presents a collection of articles on application of fracture mechanics methods to materials science medicine and engineering In thirteen chapters a wide range of topics is discussed including strength of biological tissues safety of nuclear reactor components fatigue effects in pipelines environmental effects on fracture among others In addition the book presents mathematical and computational methods underlying the fracture mechanics applications and also developments in statistical modeling of fatigue The work presented in this book will be useful effective and beneficial to mechanical engineers civil engineers and material scientists from industry research and education

Investigation of charges relating to nuclear reactor safety United States. Congress. Joint Committee on Atomic Energy, 1976

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