

ASME Sec.VIII Div.1 Cheat Sheet

Design

Internal Pressure

Shell		
Longitudinal [1, Section UG-27(c)(2)]	$\sigma_s = \frac{PR_m}{0.2t}$	$\frac{PR_m}{2SE + 0.4P}$
Circumferential [1, Section UG-27(c)(1); Section 1-1 (a)(1)]	$\sigma_s = \frac{PR_m}{t}$	$\frac{PR_m}{SE - 0.6P}$
Heads		
Hemisphere [1, Section 1-1 (a)(2); Section UG-27(d)]	$\sigma_s = \sigma_s = \frac{PR_m}{2t}$	$\frac{PR_m}{2SE - 0.2P}$
Ellipsoidal [1, Section 1-4(c)]	See Procedure 2-7	$\frac{PD_0K}{2SE - 0.2P}$

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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Table of Contents Asme Study Guide For Sec 8

1. Understanding the eBook Asme Study Guide For Sec 8
 - The Rise of Digital Reading Asme Study Guide For Sec 8
 - Advantages of eBooks Over Traditional Books
2. Identifying Asme Study Guide For Sec 8
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Asme Study Guide For Sec 8
 - User-Friendly Interface
4. Exploring eBook Recommendations from Asme Study Guide For Sec 8

- Personalized Recommendations
- Asme Study Guide For Sec 8 User Reviews and Ratings
- Asme Study Guide For Sec 8 and Bestseller Lists
- 5. Accessing Asme Study Guide For Sec 8 Free and Paid eBooks
 - Asme Study Guide For Sec 8 Public Domain eBooks
 - Asme Study Guide For Sec 8 eBook Subscription Services
 - Asme Study Guide For Sec 8 Budget-Friendly Options
- 6. Navigating Asme Study Guide For Sec 8 eBook Formats
 - ePub, PDF, MOBI, and More
 - Asme Study Guide For Sec 8 Compatibility with Devices
 - Asme Study Guide For Sec 8 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Asme Study Guide For Sec 8
 - Highlighting and Note-Taking Asme Study Guide For Sec 8
 - Interactive Elements Asme Study Guide For Sec 8
- 8. Staying Engaged with Asme Study Guide For Sec 8
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Asme Study Guide For Sec 8
- 9. Balancing eBooks and Physical Books Asme Study Guide For Sec 8
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Asme Study Guide For Sec 8
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Asme Study Guide For Sec 8
 - Setting Reading Goals Asme Study Guide For Sec 8
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Asme Study Guide For Sec 8

- Fact-Checking eBook Content of Asme Study Guide For Sec 8
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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