

Berechnung
von
Druckbehältern

Zylinderschalen unter äußerem Überdruck

AD-Merkblatt
B 6

Die AD-Merkblätter werden von den in der „Arbeitsgemeinschaft Druckbehälter“ (AD) zusammenarbeitenden, nachstehend genannten sieben Verbänden aufgestellt. Aufbau und Anwendung des AD-Regelwerkes sowie die Verfahrensrichtlinien regelt das AD-Merkblatt G 1.

Die AD-Merkblätter enthalten sicherheitstechnische Anforderungen, die für normale Betriebsverhältnisse zu stellen sind. Sind über Gas normale Maß hinausgehende Beanspruchungen beim Betrieb der Druckbehälter zu erwarten, so ist diesen durch Erfüllung besonderer Anforderungen Rechnung zu tragen.

Wird von den Festlegungen dieses AD-Merkblattes abgewichen, muß nachweisbar sein, daß der sicherheitstechnische Maßstab dieses Regelwerkes auf andere Weise eingehalten ist, z. B. durch Werkstoffprüfungen, Versuche, Spannungsanalyse, Betriebsverfahren.

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Die AD-Merkblätter werden durch die Verbände laufend dem Fortschritt der Technik angepaßt. Anregungen hierzu sind zu richten an den Herausgeber:

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| 5 Ausnutzung der zulässigen Berechnungsspannung in Fügeverbindungen | Anhang 1: Erläuterungen |

1 Geltungsbereich

Die nachstehenden Berechnungsregeln gelten für glatte Zylinderschalen als Druckbehältermäntel und für Rohre unter äußerem Überdruck, bei denen das Verhältnis $D_2/D_1 \leq 1,2$ beträgt. Bei Rohren mit $D_2 \leq 200$ mm gelten sie darüber hinausgehend bis zu einem Verhältnis $D_2/D_1 = 1,7$. Die Zylinderschalen können ohne oder mit Verstärkungen ausgeführt sein.

Der Druck muß auf den gesamten Umfang wirken. Größere als vom äußeren Überdruck herrührende Adalbelastungen müssen zusätzlich z. B. nach [70] berücksichtigt werden.

2 Allgemeines

2.1 Dieses AD-Merkblatt ist nur im Zusammenhang mit dem AD-Merkblatt B 6 anzuwenden.

Bei Wärmeaustauschrohren ist der Abnutzungszuschlag $c_2 = 0$, falls nicht besondere Vereinbarungen zwischen Hersteller und Betreiber getroffen sind.

2.2 Bei Druckbehältern aus Grauguß ist eine Berechnung auf Innendruck unter Verwendung der Sicherheitsbeiwerte nach Tafel 1 ausreichend, wobei für den Innendruck der äußere Überdruck einzusetzen ist.

3 Formelzeichen und Einheiten

Über die Festlegungen des AD-Merkblattes B 6 hinaus gilt:

D_n	zweifache Abkönglänge	in mm
l	Zylinderlänge zwischen wirksamen Verstärkungen	in mm
L	mitttragende Schalenlänge	in mm
p_e	elastischer Beuldruck der Verstärkung	in bar
q	hier: Abflachung	in mm
r	Unrundheit	in %
S	Berechnungshilfsgröße	—
H	Berechnungshilfsgröße	—

4 Sicherheitsbeiwert

4.1 Die Sicherheitsbeiwerte gegen plastisches Verformen sind der Tafel 1 zu entnehmen. Hinsichtlich des Sicherheitsbeiwertes S^* beim Prüfdruck siehe auch AD-Merkblatt B 6.

4.2 Der Sicherheitsbeiwert gegen elastisches Einbeulen beträgt unabhängig vom Werkstoff $S_e = 3,0$ und gilt für $r \leq 1,5$ %, wobei r nach Abschnitt 7.3.4 zu ermitteln ist.

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