Chinastandards.org

ICS 75.180.10
CCS E94

SY

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SY/T 6875-2012

Buckling strength of plated structures

板式结构屈曲强度

(English Translation)

Issued by: National Development and Reform Commission

Preview: page 1 of 4 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-6875-2012

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
1.2 Definition of terms
2 Normative references
2.1 General requirements
2.2 Pressure-drop limitations and piping configurations
2.3 Inlet stresses that originate from static loads in the discharge piping
2.4 Inlet stresses that originate from discharge reaction forces
2.5 Isolation valves in inlet piping
2.6 Rupture disk devices in combination with pressure relief valves
2.7 Process laterals connected to inlet piping of pressure relief valves
2.8 Turbulence in pressure relief device inlets
3 Terms and definitions
3.2 Safe disposal of relieving fluids
3.3 Back pressure limitations and sizing of pipe
3.4 Considerations for pilot-operated pressure relief valves
3.5 Stresses that originate from discharge piping
3.6 Isolation valves in the discharge piping
4 Isolation valves in pressure relief piping
4.1 Determination of relief requirements
4.2 Relieving pressure
4.3 Sizing for gas or vapor relief
4.4 Examples of isolation valve installations
4.5 Sizing for liquid relief: relief valves requiring liquid capacity certification
4.6 Sizing for liquid relief: relief valves not requiring liquid capacity certification
4.7 Sizing for two-phase liquid/vapor relief
4.8 Sizing for rupture disk devices
5 Bonnet or pilot vent piping
5.1 Conventional pressure relief valves
5.2 Balanced bellows pressure relief valves
5.3 Balanced piston pressure relief valve
5.4 Pilot-operated pressure relief valves

Preview: page 2 of 4 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-6875-2012

5.5 Thickness calculation of planar insulation layer
6 Drain piping
6.1 Installation conditions that require drain piping
6.2 Safe practice for installation of drain piping
6.3 SPM Location and Spatial Requirements
6.4 Other materials
6.5 Transportation, storage and custody of materials
7 Pressure relief device location and position
7.1 Inspection and maintenance
7.2 Proximity to pressure source
7.3 Proximity to other equipment
7.4 Mounting position
7.5 Test or lifting levers
7.6 Heat tracing and insulation
8 Bolting and gasketing
8.1 Care in installation
8.2 Proper gasketing and bolting for service requirements
8.3 Welding
8.4 Quality Control and Inspection
9 Multiple pressure relief valves with staggered settings
9.2 Installation of Mooring Foundation
9.3 Laying of Mooring Lines
9.4 Hook-up of Mooring Lines

1 Foreword

SY/T 6875-2012 was issued by National Development and Reform Commission on 4 January 2012.

The SY/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 27 pages in English translation.

Preview: page 3 of 4 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-6875-2012

2 Scope Preview

This standard specifies the ocean buckling strength flat steel structures design recommended practice for the design of the structure is used. This standard applies to the ocean buckling strength flat steel structure design.

SY/T 6875-2012 falls under ICS 75.180.10, in the field of petroleum and related technologies.

This catalogue holds 482 other SY/T standards in that field.

In this catalogue, SY/T standards carry edition years from 1973 to 2025.

3 About this standard

Sector: Oil & Gas Industry Standard (Recommended)

Issued by: National Development and Reform Commission

English translation: about 27 pages (approximate)

Chinese original: about 40,444 characters

4 Related standards

Standards on related subjects:

GB/T 9109.5-2017 - Petroleum and liquid petroleum products dynamic measurement -- Part 5: Calculation of oil quantities

SY/T 5324-2013 - Pre-Stress Insulated Tubing

SY/T 6877-2012 - Buckling strength analysis of bars and frames, and spherical shells

SY/T 6876-2012 - Bulkling strength of shells

SY/T 6874-2012 - Recommended practice for planning, designing and constructing tension leg platform

5 Classification and status

International classification (ICS): 75.180.10

Chinese Standard Classification (CCS): E 94

Prefix SY/T: recommended standard.

Preview: page 4 of 4 shown, 27 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-6875-2012