Chinastandards.org

ICS 75.020
CCS E14

SY

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SY/T 7455-2019

Viscosity reducing process specification for heavy oil well

稠油井井筒降粘工艺规程

(English Translation)

Implemented on: May 1, 2020

Issued by: National Energy Administration

Preview: page 1 of 4 shown, 18 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-7455-2019

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, 18 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-7455-2019

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 7455-2019 was issued by National Energy Administration on 4 November 2019 and has been in force since 1 May 2020.

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 18 pages in English translation.

Preview: page 3 of 4 shown, 18 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-7455-2019

2 Scope Preview

SY/T 7455-2019 falls under ICS 75.020, 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 Energy Administration

English translation: about 18 pages (approximate)

Chinese original: about 27,231 characters

4 Related standards

Standards on related subjects:

SY/T 7774-2024 - Test method for sulfur isotope of source rock, oil, natural gas and water

GB/T 9711-2023 - Petroleum and natural gas industries - Steel pipe for pipeline transportation systems

SY/T 10025-2009 - Pre-operation inspection for offshore drilling unit

SY/T 5757-2024 - Technical specification for biocides for water injection treatment

SY/T 5734-2024 - Seal inspection and testing procedures for downhole packers in separate production and injection wells

SY/T 5185-2024 - Method for determining properties of water-based sand-carrying fluid for gravel packing and sand control

5 Classification and status

International classification (ICS): 75.020

Chinese Standard Classification (CCS): E 14

Prefix SY/T: recommended standard.

Preview: page 4 of 4 shown, 18 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sy-t-7455-2019