

Standard		
<b>PRESSURE VESSEL</b>		
510	API	Pressure Vessel Inspection Code: In-Service Inspection, Rating, Repair, and Alterations
572	RP	Inspection Practices for Pressure Vessels
<b>PIPING SYSTEMS</b>		
570	API	Piping Inspection Code: In-service Inspection, Rating, Repair, and Alterations
574	RP	Inspection Practices for Piping System Components
578	RP	Material Verification Program for New and Existing Alloy Piping Systems
<b>PIPING COMPONENT AND VALVE</b>		
591	RP	Process Valve Qualification Procedure
594	Std	Check Valves: Flanged, Lug, Wafer, and Butt-Welding
598	Std	Valve Inspection and Testing
599	Std	Metal Plug Valves—Flanged, Threaded, and Welding Ends
600	Std	Steel Gate Valves—Flanged and Butt-Welding Ends, Bolted Bonnets
602	Std	Gate, Globe, and Check Valves for Sizes DN 100 (NPS 4) and Smaller for Flanged and Butt-Welding Ends
603	Std	Corrosion-Resistant, Bolted Bonnet Gate Valves—Flanged and Butt-Welding Ends
607	Std	Fire Test for Quarter-Turn Valves and Valves Equipped with Nonmetallic Seats
608	Std	Metal Ball Valves—Flanged, Threaded, and Welding Ends
609	Std	Butterfly Valves: Double-Flanged, Lug- and Wafer-Type
615	Std	Valve Selection Guide
621	Std	Reconditioning of Metallic Gate, Globe, and Check Valves
622	Std	Type Testing of Process Valve Packing for Fugitive Emissions
623	Std	Steel Globe Valves—Flanged and Butt-Welding Ends, Bolted Bonnets
624	Std	Type Testing of Rising Stem Valves Equipped with Flexible Graphite Packing
<b>STORAGE TANKS</b>		
620	Std	Design and Construction of Large, Welded, Low-Pressure Storage Tanks
625	Std	Tank Systems for Refrigerated Liquefied Gas Storage
650	Std	Welded Tanks for Oil Storage
651	RP	Cathodic Protection of Aboveground Petroleum Storage Tanks
652	RP	Linings of Aboveground Petroleum Storage Tank Bottoms
653	Std	Tank Inspection, Repair, Alteration, and Reconstruction
575	RP	Inspection Practices for Atmospheric and Low-Pressure Storage Tanks
937	Publ	Evaluation of Design Criteria for Storage Tanks with Frangible Roof Joints
939-D	TR	Stress Corrosion Cracking of Carbon Steel in Fuel Grade Ethanol—Revised
2510	Std	Design and Construction of LPG Installations
<b>MATERIALS ENGINEERING</b>		
571	RP	Damage Mechanisms Affecting Fixed Equipment in the Refining Industry
577	RP	Welding Processes, Inspection, and Metallurgy
API 579-1/ASME FFS-1		Fitness-For-Service
API 579-2/ASME FFS-2		Fitness-For-Service Example Problem Manual
580	RP	Risk-Based Inspection
581	RP	Risk-Based Inspection Technology
582	RP	Welding Guidelines for the Chemical, Oil, and Gas Industries
583	RP	Corrosion Under Insulation and Fireproofing

584	RP	Integrity Operating Windows
585	RP	Pressure Equipment Integrity Incident Investigation
<b>PRESSURE-RELIEVING SYSTEMS FOR PETROLEUM, PETROCHEMICAL, AND GAS INDUSTRIES</b>		
520, Part I	Std	Sizing, Selection, and Installation of Pressure-Relieving Devices—Part I
520, Part II	Std	Sizing, Selection, and Installation of Pressure-Relieving Devices—Part II
521	Std	Pressure-Relieving and Depressuring Systems
526	Std	Flanged Steel Safety - Relief Valves
527	Std	Seat Tightness of Pressure Relief Valves
576	RP	Inspection of Pressure-Relieving Devices
2000	Std	Venting Atmospheric and Low-Pressure Storage Tanks
<b>MECHANICAL EQUIPMENT STANDARDS FOR PETROLEUM, PETROCHEMICAL, AND GAS INDUSTRIES</b>		
610	Std	Centrifugal Pumps For Petroleum, Heavy Duty Chemical and Gas Industries
611	Std	General Purpose Steam Turbines for Refinery Services
612	Std	Special Purpose Steam Turbines for Refinery Services
613	Std	Special Purpose Gear Units for Refinery Services
614	Std	Lubrication, Shaft-Sealing and Control Oil Systems for Special Purpose Steam Turbines
615	Std	Sound Control of Mechanical Equipment for Refinery Services
616	Std	Gas Turbines for Refinery Services
617	Std	Centrifugal Compressors for General Refinery Services
618	Std	Reciprocating Compressors for General Refinery Services
619	Std	Rotary-Type Positive Displacement Compressors for General Refinery Services
630	Std	Tube and Header Dimensions for Fired Heaters for Refinery Service
660	Std	Heat Exchangers for General Refinery Service
662	Std	Air-Cooled Heat Exchangers for General Refinery Service
670	Std	Vibrations, Axial Position, and Bearing-Temperature Monitoring Systems for General Refinery Service
671	Std	Special Purpose Coupling for Refinery Service
674	Std	Positive Displacement Pumps - Reciprocating
675	Std	Positive Displacement Pumps - Controlled Volume
676	Std	Positive Displacement Pumps - Rotary
677	Std	General Purpose Gear Units for Refineries Services
678	Std	Accelerometer-Base Vibration Monitoring System
681	Std	Liquid Ring Vacuum Pumps and Compressors for Petroleum, Chemical, and Gas Industries
682	Std	Pumps—Shaft Sealing Systems for Centrifugal and Rotary Pumps
684	RP	API Standard Paragraphs Rotordynamic Tutorial: Lateral Critical Speeds
685	Std	Sealless Centrifugal Pumps for Petroleum, Petrochemical, and Gas Industries
686	Std	Recommended Practice for Machinery Installation and Installation Design
687	Std	Rotor Repair—Data CD
688	Std	Pulsation and Vibration Control in Positive Displacement Machinery Systems
Std 689/ISO 14224:2006		Collection and Exchange of Reliability and Maintenance Data for Equipment
<b>HEAT TRANSFER EQUIPMENT STANDARDS FOR PETROLEUM, PETROCHEMICAL, AND GAS INDUSTRIES</b>		
530	Std	Calculation of Heater-Tube Thickness in Petroleum Refineries
534	RP	Heat Recovery Steam Generators
535	RP	Burners for Fired Heaters in General Refinery Services
536	RP	Post Combustion NOx Control for Fired Equipment in General Refinery Services
537	Std	Flare Details for General Refinery and Petrochemical Service

<b>538</b>	<b>RP</b>	Industrial Fired Boilers for General Refinery and Petrochemical Service
<b>560</b>	<b>Std</b>	Fired Heaters for General Refinery Services
<b>573</b>	<b>RP</b>	Inspection of Fired Boilers and Heaters
<b>660</b>	<b>Std</b>	Shell-and-Tube Heat Exchangers
<b>661</b>	<b>Std</b>	Petroleum, Petrochemical, and Natural Gas Industries—Air-Cooled Hea
<b>662, Part 1</b>	<b>Std</b>	Plate Heat Exchangers for General Refinery Services, Part 1—Plate-and
<b>662, Part 2</b>	<b>Std</b>	Plate Heat Exchangers for General Refinery Services, Part 2—Brazed A
<b>663</b>	<b>Std</b>	Hairpin-Type Heat Exchangers
<b>664</b>	<b>Std</b>	Spiral Plate Heat Exchangers
<b>INSTRUMENTATION AND CONTR</b>		
<b>PETROLEUM PRODUCTS AND PETROLEUM</b>		
<b>HEALTH, ENVIRONMENT, AND SAFI</b>		
<b>HEALTH, ENVIRONMENT, AND SAFETY: SOI</b>		
<b>PROCESS SAFETY STANDA</b>		

Description
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## und Alteration

## ation of Piping Systems

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## STANDARDS

or the Petroleum and Natural Gas Industries

## Welding Ends

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## Accounting for Fugitive Emissions

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## View, Experience Survey, Field Monitoring, and Laboratory Testing

<b>OPS &amp; RBI</b>
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<b>REFINERY SERVICE</b>
I—Sizing and Selection
II—Installation
<b>FOR REFINERY SERVICE</b>
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Application
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and Gas Industry Services
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ystems for Petroleum, Petrochemical, and Natural Gas Industry Services
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<b>FOR REFINERY SERVICE</b>
Services

t Exchangers for General Refinery Service
-Frame Heat Exchangers
luminum Plate-Fin Heat Exchangers
<b>OL SYSTEMS</b>
<b>M PRODUCT SURVEYS</b>
<b>ETY: GENERAL</b>
<b>L AND GROUNDWATER</b>
<b>ARDS</b>

Standard	Description
ANSI	
A1	Liquefied Petroleum Gas System
A13.1	Scheme for Identification of Piping Systems
B.16.1	Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250, a
B.16.5	Pipe Flanges and Fittings
B16.9	Steel Buttwelding Fittings
B31	Corrosion Control for B31.1
B31.1	Power Piping
B31.2	Fuel Gas Piping
B31.3	Chemical Plant and Petroleum Refinery Piping
B31.4	Liquid Petroleum Transportation Piping Systems
B31.5	Refrigeration Piping
B31.8	Gas Transmission and Distribution Systems (1982)
B31.11	Slurry Transportation Piping Systems
B36.10	Welded and Seamless Wrought Pipe
B36.19	Stainless Steel Pipe
B73.1M	Horizontal, End Suction Centrifugal Pumps
B73.2M	Vertical In-line Centrifugal Pumps
B133.2	Basic Gas Turbine
B133.4	Gas Turbine Control and Protection Systems
LOS4C1	Flushing and Cleaning Gas Turbine Gen. Lube Systems
58	Standard for the Storage and Hauling of Liquefied Petroleum Gas
MC96.1	Temperature Measurement Thermocouples

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Standard	Description
ASME	
Section I	Power Boilers
Section II	Materials Specifications
Part A	Ferrous Materials
Part B	Non-Ferrous Materials
Part C	Welding Rods, Electrodes and Filler Metal
Part D	Properties
Section IV	Heating Boilers
Section V	Non-Destructive Examination
Section VIII	Pressure Vessels - Boiler and Pressure Vessel Code
Division 1	
Division 2	
Division 3	
Section IX	Welding and Brazing Qualifications
Section X	Fibreglass-Reinforced Plastic Pressure Vessels
Standards	
Std. 120	Gas Turbine Generator Lube Oil Systems
Performance Test Codes	
PTC 1	General Instructions
PTC 2	Definitions and Values
PTC 4.1	Steam Generating Units
PTC 8.2	Centrifugal Pumps
PTC 9	Displacement Compressors, Vacuum Pumps and Blowers
PTC 10	Compressors and Exhausters
PTC 22	Gas Turbine Power Plants