#### **WORLD STANDARDS FULL NAME**

AAMA Aluminum Association / Aluminum Alandards & Data AAMA Architectural Aluminum Manufacturers Association / AAMA Std & Manual : AAR Association of American Railroad AASHTO American Association of Atate Highway and Transpotation Officials AATCC American Association for Textile Chemists and Colorists / AATCC Technial Manual ABMT Associacae Brasileira de Normas Teonicas ABS American Bureau of Shipping / ABS Rules ACI American Conerete Institute / ACI Manual of Concrete Practice ACS American Chemical Society ADA American Dairy Association AECMA Association Europeenne des Constructeurs de Material Aerospatial AFBMA Anti-Friction Bearing Manufacturers Association / AFBMA Std. AFROR French Standards Institution AGA American Gas Association / AGA Std. AGA Reports and Manuals AGMA American Gas Association / AGA Std. AGA Reports and Manuals AGMA American Gas Association / AGA Std. AGA Reports and Manuals AGMA American Gas Manufacturers Association / AGAM Std. AAMAM Association of Home Appliance Manufacturers / AHAM Std. AIA American Institute of Architects / AIA Manuals. Masterspec. AIA Aerospace Industries Association / Industries / AIA Manuals American Institute of Architects / AIA Manuals. Masterspec. AIA Aerospace Industries Association / AMA Anuals. Masterspec. AIA Aerospace Industries Association / AMA Anuals. AMACA Air Movement & Contrort Association / AMCA Standards AMS Society of Automotive Enimeers AMS Aerospace Materials Specs ANS American Nuclear Society / ANS Std. ANSI American National Standards Institute / ANSI Std. ANSI American Standards Association / AMCA Standards Materican Scotety of Agricultural Engineers / ASAE Std. Eng' Practices ASCE American Society of Individual Enginee	TITLE	FULL NAME / SPECFICATION Title
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ASMO Arab Organization forStandardizaion and Metrology	ASMO	Arab Organization forStandardizaion and Metrology
ASSE American society for Nondestructive testing / Implementing Recommended Practice	ASSE	American society for Nondestructive testing / Implementing Recommended Practice



ASTM	ASTM International
AWPB	American Wood Preservers Bureau
AWS	American Welding Society . AWS Std., WHB
AWWA	American Water Work Association / AWWA Std. Manual., H/B
BDS	Comite Superieur Normalizaion de la Republique Populaire de Bulgarie - INRA
ВНМА	Builders hardware Manufacturers Association
BIA	Binding Industries of america
BSI	British Standards Institution / BS Std.
BV	Bureau Veritas / Rules and Regulations for the construction and classification of Steel Vessel
CAGI	Compressed Air and Gas Institute
CEE	European Committee for Standardization
CEN	European Committee for Standardization
CENELEC	European Committee for Electrotechnical Standardization
CEOC	Collogue European des Organisations de controole
CFR	Code of Federal Regulations / USA Title NO.1 ~ No. 50
CGA	Compressed Gas Association / Handbook of Compressed Gases
ССРМ	General Conference of Weights and Measures
CGSB	Canadian General Standards Boards
СМЕА	Council for Mutual Economic Assistance
CNS	national Bureau of Standards for Republic of China (Taiwan)
COPANT	Pan America Standards Commission - Brazil, Panama, Mexico, dominican Republic, Bolivia, Centralamerica (guaemala), Columbia, Chile, Equador, Paraguay, Aregntina, Pery, Trinidad, Tobago, and Uruguay
CPSC	Consumer Products safety Commission / USA
CRSI	Concrete Reinforcin Steel Institute / CRSI Handbook
cs	Chinese Standareds - Peoples Republic of China
CSA	Canadian Standards Association / CSA Std.
CSN	Cechosolvakian Office for Standards and Measurements / Urad pro Vynalezy a Normalisaci
СТІ	Cooling Tower Institute / CTI Code Tower Std.
DIN	Deutsches Institute for Normung / DIN Std.
DGN	Direccion General de Normas
DGQ	Portuguese Instittute for Quality / General Directorate of Quality
DNV	Det Norske Veritas / DNV Rule
DOD	United States Department of Depenses Specs
DS	Dansk Standards
EFTA	European Free Trade Association
EIA	Electronic industries Association / USA,ANSI/EIA 232E
EIAJ	Standards of Electronic Industries Association of Japan
EJMA	Expansion Joint Manufacturers Association / EJMA Std.
EN	European Standards
EOQC	European Organization for Quality Control
EPA	Environment Protection Agency / USA, in CFR Title NO.40
EPRI	Electric Power Research Institute / EPRI Report.



ETRTO	European Tire and Rim Technical Organization / ETRTO Standard Manual
ETSI	European Telecommunication Standards Institute
EURONORM	European Coal and Steel Community
FCC	Federal Communications Commission / USA, in CFR Title No.47
FDA	Food and Drug Admin. / FDA Regulations, USA, in CFR Title No. 21, Pard 1~1299
FID	International Federation for Docunentation
FMS	Factory Mutual System / Approval Gide
FMVSS	Natl. Highway Traffic safety Admin. / USA, in CFR Title No.49 Part 571
FS	General Services Administration / Fed=Spec, Std.
GB	Guojio Biaozhun / China
GL	Germanisher Lloyd / Rules for Classification and Construction of Seagoing Ship
GOST	State Standards of Soviet
HEI	Heat Exchange Institute / USA, Standards for Steam Surface Condecsers etc.
HI	Hydraulic Institue / HI Std for Centrifugal, Rotary and Reciprocation Pumps
НТІ	Hand tools Institute
IAEA	International Atomic Energy Agency
ICAO	International Civil Aviation Oragnization
ICBO	Intl. Conference of Building Officials / UBC, UMC, UPC
ICEA	Insulated Cable Engineers Association
IDF	International Dairy Federation
IEC	International Electrotechnical Commission
IECEE	IEC System for Conformity Testing to Standards for Safety of Eletrical Equipment
IEE	Institution of electrical Engineers / U.K.
IEEE	Institute of Electical and Electronics Engineers / IEEE Std.
IES	Illuminating Engineering society / IES Lighting H/B:2 Bol. Recomm, Practice.
IFAN	International Federationg for the Application of Standards
IFI	Industrial Fasteners Institute / Fasteners Std., Metric Fasteners Std.
IIAR	International Institute of Ammonia Refrigeration
IMO	International Maritime Organization
INLITECNOR	Instituto de Norman Colmbianas
IOCU	International Organizationof consumers Unions
IP	The Institute of Petroleum / IP Standards Methods for Analysis and Testing of Petroleum and Related Products
IPC	The Institute for Interconnecting and Packaging Electronic Circuits / ANSI/IPC Cm Guidelines for Pringed Voard Component Mounting IPC-Tm-650 Test Methods Manual
IRAM	Istituto Argentino de Racionalizacion de Materials
IRANOR	National Institute of Rationalizaion and Normalizaion for Sapin
IS	Indian Standard Institution - isi
ISA	Instrument Society of America
ISO	International Organization for Standardizaion
JAS	Japaness Agricultures Standards
JASO	Society of Automotive Engineers of Japan
JCS	Japanese Cable Makers' Association



JEC	Japanese Electrotechnical committee
JEM	Japan Electrical Manufacturers' Association
JGMA	Japan Gear Manufacturers Association
JIS	Japan Industrial Standards
JPI	Japan Petroleum Institute
JWWA	Japan Water Works Association
KS	Korean Industrial Standards
LR	Lloyd's Register of Shipping / The Rules and Regulations for the Classificantion of Ships
MIL	Military Specifications and Standards / USA, Dept. of Defense, MIL-Index, H/B-217E,-STD-883C
MSS	Manufacturers Standardization Society of the Fittings Industry
NAS	Aerospace Industries Association
NACE	National Association of Corrosion Engineers
NBBI	The National Board of Boiler and Pressure Vessel Inspectors
NBN	Normas Belges / Institute Belge de Normalisation
NBS	United States National Bureau of Standards
NEC	National Electric Code / ANSI CI
NEMA	National Electrical Manufacturers Assiociation
NEN	Nederlandse Norm / Nederlands Normalisatie Instituut - NNI
NF	Norme Francise
NFPA	National Fire Protection Association
NNI	Negherlands Normalization Institute
NORVEN	Comision Venezolana de Normas Industrias
NORCUBA	Departamento de Normas Tecnicas
NP	Norma Portugguesa
NPCA	National Paints and Coating Association
NSF	National Sanitation Foundation
NWMA	National Woodwork Manufacturer's Association
NZS	New Zealand Standards
OCMA	Oil Company materials Association
OECD	Organization for Economic Cooperation and Development
OIML	International Organization for Legal metrology
ONORM(ON)	Osterreichische Normungsinstitut / Austrian Standards Institute - ONA
ORGALIME	Organization for Liaison between the European Electrical and Mechanical Engineering Industries
OSHA	Occupational Safety and Health Administration
PNS	Philippine National Standard
RAL	Ausschuss fur Lieferbedingungen und Gutesicherung / RAL Color File
REA	Rural Electrification Admin / REA Spec
RMA	Rubber Manufacturers Associoation
RTCA	Rubber Manufacturers AssocioationRadio Technical Commission for Aeronautics / RTCA-Do-160C Environmental Condition and Test procedures Airborne Equipment
RWMA	Resistance Welder Manufacturers; Association
·	



SAA	Standards Association of Australia
SABS	South African Bureau of Standards
SAE	Society of Automotive Engineers / SAE H/B, AMS Std.
SEMKO	Svenska Elecktriska Materielkontroll-Anstaltem
SII	Standards Institute of Israel
sis	Svensk Standard Sweden
SFS	Finnish Standards Association
SMACNA	Sheet Metal and Air Conditioning Contractors'National Association
SMPTE	Society of Motion Picture and Television Engineers
SNV	Schweitzerisch Normen- Vereinigung
SPI	The Society of the Plastics Industry, inc.
ss	Singapore Standards
SSPC	Steel Structures Painting Council / Steel Structures Painting Manual
STI	Steel Tank Institute
TAPPI	Technical Association of Pulp and Paper Industry
TEMA	Tubular Exchanger Manufacturers' Association / Std. of TEMA
TIS	Thai Industrial Standards
TSE	Turkish Standards Institute
τυν	Technischer Uberwachungs Verein e, V. /German
UBPVLS	Uniform Boiler and Pressure Vessel Laws Society
uic	Intl. Union of Railways
UL	Underwriters Laboratories-USA / UL Standards
UNCO	Instituto de Norman Colombianas
UNI	Ente Nazionale Italiano di Unificazione
UNICE	Union of the Industial Federations of the EEc Countires
UNS	Unifeied Numbering System
uscg	United States Coast Guard
UTE	Union Techenique de I Electircite / UTE Publication List
VDE	Verband Deutscher Elektrotechniker
VDEh	Berein Deusscher Eisenhuttenleute
VDI	Vere Deutscher Ingenieur
WRS	Welding Research Council
WES	Welding Engineering Standard



# ANSI- American National Standards Institute

1430 Broadway New York, N.Y. 10018

ANSI	A182	Forged or Rolled Alloy Steel Pipe Flange, Forged Fitting and Valve and parts for High Temperature Service.
ANSI	A276	
ANSI	A351	Ferritic and Austenitic Steel Castings for High Temperature Service.
ANSI	A740	
ANSI	B1.1	Unified Inch Screw Threads(UN and UNS Thread Form)
ANSI	B1.1,CL.2A	Male Thread.
ANSI	B1.1,CL.2B	Female Thread.
ANSI	B1.20.1	Pipe threads, general purpose(Inch)
ANSI	B1.20.3	Dryseal pipe threads(inch)
ANSI	B16.1	Cast iron pipe flanges and flanged fittings.
ANSI	B16.10	Face to face and end to end dimensions of ferrous valves.
ANSI	B16.104	Control Valve Seat Leakage.
ANSI	B16.11	Forged Fitting, Socket Welding and Threaded
ANSI	B16.20	Ring Joint Gaskets and Grooves for Steel Pipe Flanges.
ANSI	B16.21	Nonmetallic Flat Gaskets for Steel Pipe Flanges.
ANSI	B16.24	Bronze pipe flanges and flanged fittings.
ANSI	B16.25	Butt Welding Ends.
ANSI	B16.28	Wrought Steel Butt-Welding Short Radius Elbows and Returns.
ANSI	B16.33	Small Manually Operated Metallic Gas Valves, in Gas Distribution Systems.
ANSI	B16.34	Valves - flanged, threaded, and welding end.
ANSI	B16.38	Large Manually Operated Metallic Gas Valves in Gas Distribution Systems.
ANSI	B16.40	Manually Operated Thermoplastic Shut-offs and Valves in Gas Distribution Systems.
ANSI	B16.42	Ductile Iron Pipe Flanges and Flanged Fitting, Class 400 and 400.
ANSI	B16.47	large Diameter Flanges.
ANSI	B16.5	Pipe flange and flanged Fitting.
ANSI	B16.9	Wrought Steel Butt-Welding Fittings.
ANSI	B18.2.1	Square and Hex Bolts and Screws, INCH Series, including Hex Cap Screws, and Lag Screws.
ANSI	B18.2.2	Square and Hex Nuts(Inch Series)
ANSI	B31G	Manual for determing the remaining strength of corroded pipelines.
ANSI	B31.1	Power piping.
ANSI	B31.2	Fuel gas piping.
ANSI	B31.3	Chemical Plant and Petroleum Refinery Piping.
ANSI	B31.4	Liquid Petroleum Transportation Piping Systems for Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia, and Alcohols
ANSI	B31.5	Refrigeration Piping



ANSI	B31.8	Gas transmission and Distribution Piping Systems.
ANSI	B36.10M	Welded and Sealmless Wrought Steel Piping.
ANSI	B46.1	Surface Texture.(Surface Roughness, Waviness, and Lay)
ANSI	FCI 70-2	Control Valve Seat Leakage.
ANSI	ISA S75.04	Face to Face Dimensions of Flangeless Control Valves.
ANSI	ISA S75.03	Uniform Face to Face Dimensions for Flanged Globe Style Control Valve Bodies.
ANSI	AWWA C207-78	Flanges for water-works service, 4 in through 144 in, steel
ANSI	AWWA C504-80	Rubber-seated butterfly valves.
ANSI	AWWA C606-78	Joints, grooved and shouldered type.
ANSI	NFPA 68	Explosion venting.

# **API- American Petroleum Institute**

2101 L Street, N.W. Washington, D.C. 20037

API	526	Flanged-steel safety relief valves.
API	ANSI/527	Commercial seat tightness of safety relief valves with metal-to-metal seats.
API	593	Ductile iron plug valves, flanged ends.
API	594	Wafer Check Valves.
API	595	Cast iron gate valves, flanged ends.
API	597	Steel venturi gate valves, flanged or butt-welding ends.
API	598	Valve Inspection and Test.
API	599	Steel plug valves, flanged and butt-welding ends.
API	600	Steel gate valves, flanged and butt-welding ends.
API	601	Metallic gaskets for piping, double-jacketed corrugated an spiral wound, fourth edition, 1975
API	602	Compact Steel Gate Valves
API	603	Class 150, corrosion-resistant gate valves.
API	604	Ductile iron gate valves, flanged ends.
API	605	Lage diameter steel flanges(nominal pipe size 26 through 60; class 75,400,400,400.600, and 900)
API	606	Compact carbon steel gate valves, extended body.
API	607	Fire Test for Quarter Turn Valves.
API	608	Metal Ball Valves.
API	609	Butterfly Valves, Lug Type, and Wafer Type.
API	STD-610	CENTRIFUGAL PUMPS FOR GENERAL REFINERY SERVICE
API	STD-611	GENERAL-PURPOSE STEAM TURBINES FOR REFINERY SERVICE (ANSI/API STD.611)
API	STD-612	SPECIAL-PURPOSE STEAM TURBINES FOR REFINERY SERVICE (ANSI/API STD.612)
API	STD-613	SPECIAL-PURPOSE GEAR UNITS FOR REFINERY SERVICE
API	STD-614	LUBRICATION, SHAFT-SEALING AND CONTROL-OIL SYSTEM FOR SPECIAL- PURPOSE APPLICATIONS (ANSI/API STD.614)
API	STD-615	SOUND CONTROL OF MECHANICAL EQUIPMENT FOR REFINERY SERVICE
API	STD-616	GAS TURBINES FOR REFINERY SERVICE (ANSI/API STD.616)
API	STD-617	CENTRIFUGAL COMPRESSORS FOR GENERAL REFINERY SERVICE



A.D.L.		RECIPROCATING COMPRESSORS FOR GENERAL REFINERY SERVICE(ANSI/API STD.618)
API S		ROTARY-TYPE POSITIVE DISPLACEMENT COMPRESSORS FOR GENERAL REFINERY SERVICE (ANSI/API
API		STD.619) Specification for Line Pipe.
API		High Test Line Pipe.
API		
		Specification for wellhead equipment(including flanges).
API	6AB	30,000 Psi Flanged Wellhead Equipment
API	6D	Specification for Pipeline Valves.end closures, connectors and swivels.
API	6FA	Specification for Fire Test for Valves.
API	6FC	Fire test for valve with selective backseats.
API	14A	Specification for subsurface safety valves.
API	14D	Specification for wellhead surface safety valves for offshore service.
API	1104	Welding og Pipelines and Related Facilities.
API S	STD-1104	WELDING OF PIPELINES AND RELATED FACILITIES
API F	RP-1107	PIPELINE MAINTENANCE WELDING PRACTICES
API F	RP-1110	PRESSURE TESTING OF LIQUID PETROLEUM PIPELINES
API PI	UBL-1108	API PETROLEUM PIPELINE MAPS (MAPS COVER UNTIED STATES)
API PI	UBL-1113	PIPELINE SUPERVISORY CONTROL CENTER CHECKLIST
API F	RP-1118	TRAINING AND QUALIFICATION OF LIQUID PIPELINE CONTROLLERS
API F	RP-1119	TRAINING AND QUALIFICATION OF LIQUID PIPELINE OPERATORS
API F	RP-1120	TRAINING AND QUALIFICATION OF LIQUID PIPELINE MAINTENANCE PERSONNEL
API F	RP-1122	EMERGENCY PREPAREDNESS AND RESPONSE FOR HAZARDOUS LIQUID PIPELINE
API F	RP-1123	DEVELOPMENT OF PUBLIC EDUCATION PROGRAMS BY HAZARDOUS LIQUID PIPELINE OPERATORS
API	RP5L1	Recommended practice for railroad transportation of line pipe.
API	RP5L5	Recommended practice for marine transportation of line pipe.
API	RP5L6	Recommended practice for transportation of line pipe on inland waterways.
API	RP6F	Recommended practice for fire test for valves(tentative)
API	RP6G	Through flowline(TFL) pump down systems
API	RP 520	Recommended practice for the design and istallation of pressure relieving systems in refineries.
Pa	art 1(1976)	Design
Pa	art 2(1973)	Installation.
API	חום בים	RECOMMENDED PRACTICE FOR CLASSIFICATION OF LOCATIONS FOR ELECTRICAL INSTALLATIONS AT PETROLEUM FACILITIES
API	RP 521	Guide for pressure relief and depressurizing systems.
API	2521	Use of pressure-vacuum vent valves for atmospheric pressure tanks to reduce evaporation loss.
API	RP-530	CALCULATION OF HEATER TUBE THICKNESS IN PETROLEUM (ANSI/API STD.530)
API	RP-550	INSTALLATION OF REFINERY INSTRUMENTS AND CONTROL SYSTEM
API	RP-572	INSPECTION OF PRESSURE VESSELS (ANSI/API STD.572)
API	RP-573	INSPECTION OF FIRED BOILERS AND HEATERS (ANSI/APE STD.573)
API		INSPECTION OF PIPING,TUBING,VALVES,AND FITTINGS (ANSI/API STD.574)



API	RP-576	INSPECTION OF PRESSURE RELIEVING DEVICES (ANSI/API STD.576)
API	RP-531M	MEASUREMENT OF NOISE FROM FIRED PROCESS HEATERS
API	RP-533	AIR PREHEAT SYSTEMS FOR PROCESS HEATERS
API	STD-560	FIRED HEATERS FOR GENERAL REFINERY SERVICES (ANSI/API STD.560)
API	RP-632	WINTERIZATION OF AIR-COOLED HEAT EXCHANGER
API	STD-660	SHELL AND TUBE HEAT EXCHANGERS FOR GENERAL REFINERY SERVICES
API	STD-661	AIR-COOLED HEAT EXCHANGERS FOR GENERAL REFINERY SERVICES (ANSI/API STD.661)
API	STD-671	SPECIAL-PURPOSE COUPLINGS FOR REFINERY SERVICE
API	STD-672	PACKAGED INTEGRALLY GEARED CENTRIFUGAL AIR COMPRESSOR FOR GENERAL REFINERY SERVICE (ANSI/API STD.672)
API	STD-674	POSITIVE DISPLACEMENT PUMPS-RECIPROCATING
API	STD-675	POSITIVE DISPLACEMENT PUMPS-CONTROLLED VOLUME
API	STD-676	POSITIVE DISPLACEMENT PUMPS-ROTARY (ANSI/API STD.676)
API	STD-677	GENERAL-PURPOSE GEAR UNITS FOR REFINERY SERVICE
API	STD-678	ACCELEROMETER-BASED VIBRATION MONITORING SYSTEM
API	STD-680	PACKAGED RECIPROCATING PLANT AND INSTRUMINT,AIR-COMPRESSOR FOR GENERAL REFINERY SERVICE



<piping compon<="" th=""><th>ENT STANDARS FOR REFINERY SERVICE&gt;</th></piping>	ENT STANDARS FOR REFINERY SERVICE>
API-STD-5B	SPECIFICATION FOR THREADING, GAGING AND THREAD INSPECTION OF CASING, TUBING AND LINE PIPE THREADS
API-SPEC-5L	SPECIFICATION FOR LINE PIPE
API-SPEC-6A	SPECIFICATION FOR WELLHEAD EQUIPMENT
API-SPEC-6D	SPECIFICATION FOR PIPELINE VALVES,END CLOSVRES,CONNECTORS AND SWLVEDS
API-STD-590	STEEL LINE BLANKS
API-RP-591	USER ACCEPTANCE OF REFINERY VALVES
API-STD-593	DUCTILE IRON PLUG VALVES-FLANGED END
API-STD-594	WAFER CHECK VALVES
API-STD-595	CAST IRON GATE VALVES
API-STD-597	STEEL VENT GATE VALVES
API-STD-598	VALVE INSPECTION AND TESTING
API-STD-599	STEEL PLUG VALVES-FLANGED OR BUTT-WELDING ENDS
API-STD-600	STEEL GATE VALVES-FLANGED OR BUTT-WELDING ENDS
API-STD-601	METALLIC GASKETS FOR PIPING (DOUBLE-JACKETED CORRUGATED AND SPIRALWOUND)
API-STD-602	COMPACT STEEL GATE VALVES
API-STD-603	CLASS 150,CAST,CORROSION-RESISTANT,FLANGED-END GATE VALVES
API-STD-604	DUCTILE IRON GATE VALVES
API-STD-605	LARGE DIAMETER CARBON STEEL FLANGES (SIZE 26"~60", CLASS 75,150,300,400,600,900)
API-STD-606	COMPACT CARBON STEEL GATE VALVES-EXTENDED BODY
API-STD-607	FIRE TEST FOR SOFT-SEATED QUARTER-TURN VALVES
API-STD-608	METAL BALL VALVES-FLANGED AND BUTT-WELDING ENDS
API-STD-609	LUG AND WAFER TYPE BUTTERFLY LAVES
<pressure-reli< td=""><td>EVING SYSTEMS FOR REFINERY SERVICE&gt;</td></pressure-reli<>	EVING SYSTEMS FOR REFINERY SERVICE>
API-RP-520	SIZING,SELECTION AND INSTALLATION OF PRESSURE-RELIEVING DEVICE IN REFINERIES (ANSI/API STD.520)
API-RP-521	GUIDE FOR PRESSURE-RELIEVING AND DEPRESSING SYSTEMS (ANSI/API_STD.521)
API-RP-526	FLANGED STEEL SAFETY-RELIEF VALVES (ANSI/API STD.526)
API-RP-527	SEAT TIGHTNESS OF PRESSURE RELIEF VALVES (ANSI/API STD.527)
<pressure-vessels and="" engineering="" materials="" tanks=""></pressure-vessels>	
API-STD-510	PRESSURE VESSEL INSPECTION CODE (MAINTENANCE INSPECTION,RATING,REPAIR AND ALTERATION (ANSI/API STD.510)
API-STD-620	DESIGN AND CONSTRUCTION OF LARGE,WELDED, LOW PRESSURE STORAGE TANKS ANSI/API STD.620)
API-STD-650	WELDED STEEL TANKS FOR OIL STORAGE
API-RP-651	CATHODIC PROTECTION OF ABOVEGROUND PETROLEUM STORAGE TANKS



	(ANSI/API STD.651)
API-RP-652	LINING OF ABOVEGROUND PETROLEUM STORAGE TANK BOTTOMS (ANSI/API STD.652)
API-STD-653	TANK INSPECTION, REPAIR, ALTERATION AND RECONSTRUCTION



# **ASTM- American Society of Testing and Materials**

ASTM	A53	Welded and seamless pipe			
ASTM	A105	Forgings,m carbon steel, for piping components			
ASTM	A106	Seamless pipe			
ASTM	A120	Pipe, steel, black and hot dipped zinc-coated(galvanized) welded and seamless, for ordinary use.			
ASTM	A134	Electric fusion(Arc) welded steel plate pipe(size 16 in. and over)			
ASTM	A135	Electric resistance welded pipe			
ASTM	A139	Electric fusion(arc) welded pipe(size 4 in. and over)			
ASTM	A182	Forged or rolled alloy steel pipe flanges, forged fittings, and valves and parts for hgigh temperature service			
ASTM	A193	Alloy steel and stainless steel bolting materials for high temperature service			
ASTM	A194	Carbon and alloy steel nuts for bolts for high-pressure and high-temperature service.			
ASTM	A211	Spiral-welded steel or iron pipe.			
ASTM	A216	Steel casting, carbon, suitable for fusion welding, for high temperature service			
ASTM	A234	Piping fittings of wrought carbon steel and alloy steel for moderate and elevated temperature.			
ASTM	A307	Carbon steel externally threaded standard fasteners.			
ASTM	A320	Alloy steel bolting material for low-temerature service.			
ASTM	A333	Seamless and Welded Pipe for Low Temperuture Service			
ASTM	A351	Casting, Austentic, Austenite Ferrite(Duplex), for Pressure Containning Patrs.			
ASTM	A354	Quenched and tempered alloy steel bolts, studs, and other externally threaded fasterners.			
ASTM	A372	Carbon and alloy steel forgings for thin-walled pressure vessels.			
ASTM	A381	Metal- Arc- Welded Steel Pipe for use with High Pressure Transmission Systems.			
ASTM	A395	Ferritic ductile iron pressure-retaining castings for use at elevated temperatures.			
ASTM	A403	Wrought Austenitic Stainless Steel Pipe Fittings.			
ASTM	A420	Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service.			
ASTM	A449	Quenched and tempered steel bolts and studs.			
ASTM	A559	Mild steel electrodes for gas metal-arc welding.			
ASTM	A671	Erectric Fusion Welded steel pipe for atmospheric and lower temperatures.			
ASTM	A672	Electric Fusion Welded steel pipe for high-pressure service at moderate temperature.			
ASTM	A744	Casting, iron-chormium-nickel, corrosion resistant, for severe service.			
ASTM	B88	Seamless copper water tube.			
ASTM	D696	Test for coefficient of linear thermal expansion of plastics.			
ASTM	D1599	Test for shot-time rupture strength of plastic pipe, tubing, and fittings.			
ASTM	D2513	Thermoplastic gas pressure pipe, tubing and fittings.			
ASTM	D2517	Reinforced epoxy resin gas pressure pipe and fittings.			
ASTM	D2837	Hydrostatic design basis for thermoplastic pipe materials, obtaining.			
ASTM	E380	Metric practice.			



#### **DIN - Deutsche Industrie Normen**

DIN	1629	Seamless Tubes in Unalloyed Steel for Supply Purpose, Process Plant and Tanks.		
DIN	2605	Tube Bends for Butt-Welding Fittings.		
DIN	2606	Tube Bends in Steel for Butt-Welding Type 5d.		
DIN	2615	Butt-Welding Steel Fittings Tees.		
DIN	2616	Butt-Welding Steel Fittings Reducers.		
DIN	2617	utt-Welding Steel Fittings Caps.		
DIN	3202	Butterfly Valve Face to Face Dimension.		
DIN	3359	Membran-Absperramaturen aus metallischen werksstoffen.		
DIN	17100	Steels for General Structural Purposes Quality Specifications.		
DIN	17155	Boiler Plates Technical Conditions of Delivery.		
DIN	17175	Seamless Tubes of High-Temperature Steel Technical Conditions of Delivery.		

#### **BS** - British Standards institution

2 Park Street London W1A 2BS

BS	10	Flanges and bolting for pipes, valves, and fittings(obsolescent)	
BS	21	ipe threads for tubes and fittings where pressure-tight joints are made on the threads.(metric dimensions)	
BS	66 / 99	Flanged and bolting for pipes, valves and fittings 1970	
BS	143 / 1256	Malleable cast iron and cast copper alloy screwed pipe fittings for steam, air, water, gas, oil.	
BS	759	Valves, gauges and other safety fittings for apprication to boilers and to piping installations for and in connection with boilers.	
BS	864	Capillary and compression tube fittings of copper and copper alloy.	
	Part 1	Metric units.	
	Part 2	Compression fittings for polyethylene pipes.	
BS	1414	Steel wedge gate valves(flanged and butt-welding ends) for the petroleum, petrochemical and allied industries.	
BS	1560	Steel pipe flanges and flanged fittings(nominal sizes 1/2 in to 24 in) for the petroleum industry.	
BS	1640	Steel Butt-Welding Pipe Fitting for the Petroleum Industry.	
	part-1	Wrought Carbon and Ferritic Alloy Steel Fittings.	
	part-2	Wrought and Cast Austenitic Chromium-Nickel Steel Fittings.	
BS	1868	Steel check valves(flange and butt-welding ends)	
BS	1873	Steel globe valves and stop and check valves(flanged and butt-welding ends), for the petroleum, petrochemical, an allied industries.	
BS	1965	Butt-Welding Pipe Fittings for Pressure Purposes.	
	Part-1	Carbon Steel	
	Part-2	Austenitic Stainless Steel.	
BS	2080	Face to face, centre to face, end to end dimensions of flanged and butt-welding end steel valves, for the petroleum,	



		petrochemical, and allied industries.		
BS	2915	Bursting discs and bursting-disc devices.		
BS	3293	Carbon steel flanges(over 24 in nominal size) for the petroleum industry.		
BS	3636	Method for proving the gas tightness of vacumm or pressurized plant.		
BS	4371	Fibrous gland packings.		
BS	4504	langes and bolting for pipes, valves, and fittings, metric series.		
	Part-1(1969)	Ferrous		
	Part-2(1974)	Copper alloys and composite flanges		
BS	5146	Inspection and test of valves.		
	Part-1	Steel valves for the petroleum, petrochemical, and allied industries.		
	Part-2	Pressure testing requirements for general purpose valves.		
BS	5148	Marking of general purpose industrial valves.		
BS	5150	Cast iron wedge and double-disc gate valves, for general purpose.		
BS	5151	Cast iron globe and globe stop and check valves, for general purposes.		
BS	5152	Cast iron globe and globe stop and check valves, for general purposes.		
BS	5153	Cast iron check valves for general purpose valves.		
BS	5154	Copper alloy globe, blobe stop and check, check, and gate valves(including parallel slide type), for general purpose.		
BS	5155	Cast Iron and Carbon Steel Butterfly Valves for General purposes.		
BS	5156	Screwdown daiphragm valves for general purposes.		
BS	5157	teel parallel slide gate valves, for general purpose.		
BS	5158	ast iron and cast steel plug valves for general purpose.		
BS	5159	Cast iron carbon steel ball valves for general purpose.		
BS	5160	Specification for flanged steel globe valves, globe stop and check valves, and lift-type check valves for general purpose.		
BS	5163	Double-flanged cast iron wedge gate valves for water works purposes.		
BS	5209	Marking of general purpose industrial valves.		
BS	5222	Aluminum piping systems.		
	Part 1	1975, Dimensions, materials and construction of components.		
	Part 2	1976, Design.		
BS	5351	Steel Ball Valves for the Petroleum, Petrochemical and Allied Industries.		
BS	5352	Cast and forged steel wedge gate, globe, check, and plug valves, screwed and socket welding, sizes 50 mm and smaller, for the petrochemical, and sllied industries.		
BS	5353	Specification for plug valves.		
BS	6364	Valves for Cryogenic service.		
BS	6477	1976, Metric dimensions of steel tubes for hydraulic cylinders used in the construction of powered roof supports in the mining industry.		
BS	6755	Testing of Valves.		
	Part-1	Specification for Production Pressure Testing Requirements.		
	Part-2	Specification for Fire type Testing Requirements.		
BS	6759	Safety valves.		



	Part 1	Safety valves for steam and hot water	
	Part 2	Safety valves for compressed air or inert gases.	

# ISO - International Standardization Organization

ISO	4126	ty valves.	
ISO	5208	strial Valves - Pressure Testing of Valves.	
ISO	5211	Part-Turn Valve Actuator Attachment	
	Part-1	ge Dimensions.	
	Part-2	ange and Coupling Performance Characteristics.	
ISO	5752	utterfly Valve Face to Face Dimension	
ISO	6718	Bursting discs and bursting-disc devices.	

# JIS - Japanese Industrial Standards

JIS	B2003	General rules for inspection of valves.	
JIS	B2201	Pressure rating for ferrous material pipe flanges.	
JIS	B2203	Tolerances for pipe flanges.	
JIS	B2210	Basic dimensions of ferrous material pipe flanges.	
JIS	B2071	10 kgf/cm2 Cast steel flanged globe valves.	
JIS	B2073	gf/cm2 Cast steel flanged gate valves.(outside screw type)	
JIS	B2074	10 kgf/cm2 Cast steel flanged swing check valves.	
JIS	B2081	20 kgf/cm2 Cast steel flanged globe valves.	
JIS	B2083	kgf/cm2 Cast steel flanged gate valves.(outside screw type)	
JIS	B2084	) kgf/cm2 Cast steel flanged swing check valves.	

# **NACE**

NACE	MR-01-75	Sulfide Stress Cracking Resistance Metallic Material for Oil Field Equipment.	
VDI	3673	Pressure release of dust explosions.	



# MSS - Manufacturers Standardization Society of the Valves and fittings Industry, Inc.

		1			
MSS-SP	6	Standard finishes for contact faces pipe flanges and connecting-end flanges of valves and fittings.			
MSS-SP	9	Spot facing for bronze,iron, and steel flanges.			
MSS-SP	25	Standard Marking System for Valves, Fittings, Flanges, and Unions.			
MSS-SP	42	Class 400 corrosion resistant gate, globe, angle and check valves with flanged butt weld ends			
MSS-SP	43	Wrought Stainless Steel Butt-Welding Fittings.			
MSS-SP	44	Steel pipeline flanges.			
MSS-SP	45	Bypass and drain connection standard.			
MSS-SP	48	Steel Butt-Welding Fitting(26" and Larger).			
MSS-SP	51	Class 150 LW corrosion resistant cast flanges and flanged fittings			
MSS-SP	53	Magnetic Particle Inspection.			
MSS-SP	54	Radiographic Inspection.			
MSS-SP	55	Quality Standard for Steel Castings for Valves, Flanges and Fittings and Other Components(Visual Method)			
MSS-SP	58	Pipe Hangers and Supports Materials, Design and Manufacture			
MSS-SP	60	Connecting Flange Joint Between Tapping Sleeves and Tapping Valves			
MSS-SP	61	Pressure testing of steel valves.			
MSS-SP	65	High pressure chemical industry flanges and threaded stuBSfor use with lens gaskets			
MSS-SP	67	Butterfly Valves.			
MSS-SP	68	igh Pressure Offset Seat Butterfly Valves			
MSS-SP	69	Pipe Hangers and Supports Slection and Application			
MSS-SP	70	Cast iron gate valves, flanged and threaded ends			
MSS-SP	71	Cast Iron Swing Check Valves.			
MSS-SP	72	Ball Valve with Flanged or Butt Welding Ends for General Service			
MSS-SP	73	Brazing Joints for Wrought and Cast Copper Alloy Solder Joint Pressure Fittings			
MSS-SP	75	Specification for High Test Wrought Welding Fittings.			
MSS-SP	77	Guideline for Pipe Support Contractual Relationships			
MSS-SP	78	Cast iron plug valves, flanged and threaded ends			
MSS-SP	79	Socket Welding Reducer Inserts			
MSS-SP	80	Bronze gate, globe, angle and check valves			
MSS-SP	81	Stainless steel, bonnetless, flanged, wafer, knife gate valves.			
MSS-SP	82	Valve Pressure Testing Methods			
MSS-SP	83	Carbon Steel Pipe Unions Socket Welding and Threaded			
MSS-SP	84	Steel valves - socket welding and threaded ends			
MSS-SP	85	Cast iron globe and angle valves flanged and threaded ends			
MSS-SP	86	Guideline for Metric Data in Stnadards for Valves, Flanges, and Fittings			
MSS-SP	87	Factory made Butt Welding Fittings for Class 1 Nuclear Piping Applications			
MSS-SP	88	88 Diaphragm Type Valves			
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MSS-SP	89	pe Hangers and Supports Fabrication and Installation Practices	
MSS-SP	90	deline on Terminology for Pipe Hangers and Supports	
MSS-SP	91	Guidelines for Manual Operation of Valves	
MSS-SP	92	s Valve User Guide	
MSS-SP	93	uid Penetrate Inspection.	
MSS-SP	94	Iltrasonic Inspection.	

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ISA-75.01-1985 (Reaffirmed 1995)	formerly ISA-S75.01- 1985 (R1995)	Flow Equations for Sizing Control Valves
ANSI/ISA-75.02-1996	formerly ANSI/ISA- S75.02-1996	Control Valve Capacity Test Procedures
ISA-75.03-1992	formerly ISA-S75.03- 1992	Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (ANSI Classes 125, 150, 250, 300, and 600)
ANSI/ISA-75.04-1995	formerly ANSI/ISA- S75.04-1995	Face-to-Face Dimensions for Flangeless Control Valves (ANSI Classes 150, 300, and 600)
ANSI/ISA-TR75.04.01- 1998		Control Valve Position Stability
ISA-75.05-1983	formerly ISA-75.05-1983	Control Valve Terminology
ISA-75.07-1997	formerly ISA-S75.07	Laboratory Measurement of Aerodynamic Noise Generated by Control Valves
ANSI/ISA-75.08-1985 (Reaffirmed 1996)	formerly ANSI/ISA- S75.08-1985 (R1996)	Installed Face-to-Face Dimensions for Flanged Clamp or Pinch Valves
ISA-75.11-1985 (Reaffirmed 1997)	formerly ISA-S75.11- 1985 (R1997)	Inherent Flow Characteristics and Rangeability of Control Valves
ANSI/ISA-75.12-1993	formerly ANSI/ISA- S75.12-1993	Face-To-Face Dimensions for Socket Weld-End and Screwed-End Globe-Style Control Valves (ANSI Classes 150, 300, 600, 900, 1500, and 2500)
ISA-75.13-1996		Method of Evaluating the Performance of Positioners with Analog Input Signals and Pneumatic Output
ANSI/ISA-75.14-1993		Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (ANSI Class 4500)
ANSI/ISA-75.15-1994	formerly ANSI/ISA- S75.15-1994	Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (ANSI Classes 150, 300, 600, 900, 1500, and 2500)
ANSI/ISA-75.16-1994	formerly ANSI/ISA- S75.16-1994	Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (ANSI Classes 900, 1500, and 2500)
ANSI/ISA-75.17-1989	formerly ANSI/ISA- S75.17-1989	Control Valve Aerodynamic Noise Prediction ANSI/ISA-75.17-1989 formerly ANSI/ISA-S75.17-1989 Control Valve Aerodynamic Noise Prediction
ANSI/ISA-75.19-1995	formerly ANSI/ISA- S75.19-1995	Hydrostatic Testing of Control Valves



ANSI/ISA-75.20-1991	formerly ANSI/ISA- S75.20-1991	Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (ANSI Classes 150, 300, and 600)
ISA-RP75.21-1989 (Reaffirmed 1996 Process Data Presentation for Control Valves ISA-RP75.21- 1989 (Reaffirmed 1996)		Process Data Presentation for Control Valves
ANSI/ISA-75.22-1999	formerly ANSI/ISA- S75.22-1999	Face-to-Centerline Dimensions for Flanged Globe-Style Angle Control Valve Bodies (ANSI Classes 150, 300, and 600)
ISA-RP75.23-1995		Considerations for Evaluating Control Valve Cavitation
SA-12.00.01-1999	formerly ISA-S12.00.01- 1999	(IEC 60079-0 Mod) Electrical Apparatus for Use in Class I, Zone 0 and 1 Hazardous (Classified) Locations General Requirements
ISA-12.01.01-1999	-	Definitions and Information Pertaining to Electrical Instruments in Hazardous (Classified) Locations
ISA-12.02.01-1999	formerly ISA-S12.02.01- 1999	Electrical Apparatus for Use in Class I, Zones 0, 1, & 2 Hazardous (Classified) Locations - Intrinsic Safety'i
ANSI/ISA-TR12.06.01- 1999		Electrical Equipment in a Class I, Division 2/Zone 2 Hazardous Location
ISA-12.10-1988	formerly ISA-S12.10- 1988	Area Classification in Hazardous (Classified) Dust Locations
ANSI/ISA-12.12-1994		Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ISA-12.13, Part I-1995	formerly ISA-S12.13, Part I-1995	Performance Requirements, Combustible Gas Detectors
ISA-RP12.13, Part II- 1987		Installation, Operation, and Maintenance of Combustible Gas Detection Instruments
ANSI/ISA-TR12.13.01- 1999		Flammability Characteristics of Combustible Gases and Vapors
ANSI/ISA-TR12.13.02- 1999		Investigation of Fire and Explosion Accidents in the Chemical, Mining, and Fuel-Related Industries - A Manual by Kuchta
ANSI/ISA-12.16.01-1998	formerly ANSI/ISA- S12.16.01-1998	(IEC 79-7 Mod) Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection - Increased Safety 'e'
ISA-TR12.2-1995		Intrinsically Safe System Assessment Using the Entity Concept
ISA-RP12.2.02-1996		Recommendations for the Preparation, Content, and Organization of Intrinsic Safety Control Drawings
ANSI/ISA-12.22.01-1998	formerly ANSI/ISA- S12.22.01-1998	(IEC 79-1 Mod) Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection - Flameproof 'd'
ANSI/ISA-12.23.01-1998	formerly ANSI/ISA- S12.23.01-1998	(IEC 79-18 Mod) Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection - Encapsulation 'm'
ANSI/ISA-TR12.24.01- 1998		(IEC 79-10 Mod) Recommended Practice for Classification of Locations for Electrical Installations Classified as Class I, Zone 0, Zone 1, or Zone2
ANSI/ISA-12.25.01-1998	formerly ANSI/ISA- S12.25.01-1998	(IEC 79-5 Mod) Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection - Powder Filling 'q'



ANSI/ISA-12.26.01-1998	formerly ANSI/ISA- S12.26.01-1998	(IEC 79-6 Mod) Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations: Type of Protection - Oil-Immersion 'o'
ISA-RP12.4-1996		Pressurized Enclosures
ANSI/ISA-RP12.6-1995		Wiring Practices for Hazardous (Classified) Locations Instrumentation Part 1: Intrinsic Safety
ISA-RP16.1,2,3-1959		Terminology, Dimensions and Safety Practices for Indicating Variable Area Meters (Rotameters) - RP16.1 Glass Tube, RP16.2 Metal Tube, RP16.3 Extension-Type Glass Tube
ISA-RP16.4-1960		Nomenclature and Terminology for Extension-Type Variable Area Meters (Rotameters)
ISA-RP16.5-1961		Installation, Operation, and Maintenance Instructions for Glass Tube Variable Area Meters (Rotameters)
ISA-RP16.6-1961		Methods and Equipment for Calibration of Variable Area Meters (Rotameters)
ANSI/ISA-18.1- 1979(Reaffirmed 1992)	formerly ANSI/ISA- S18.1-1979 (R1992)	Annunciator Sequences and Specifications
ISA-RP2.1-1978		Manometer Tables
ISA-20-1981	formerly ISA-S20-1981	Specification Forms for Process Measurement and Control Instruments, Primary Elements, and Control Valves
ISA-26-1968	formerly ISA-S26-1968	Dynamic Response Testing of Process Control Instrumentation
ISA-RP31.1-1977		Specification, Installation, and Calibration of Turbine Flowmeters
ISA-37.1-1975 (Reaffirmed 1982)	formerly ISA-S37.1-1975 (R1982)	Electrical Transducer Nomenclature and Terminology(formerly ANSI MC6.1-1975)
ISA-37.10-1982 (Reaffirmed 1995)	formerly ISA-S37.10- 1982 (R1995)	Specifications and Tests for Piezoelectric Pressure and Sound-Pressure Transducers
ISA-37.12-1982 (Reaffirmed 1995)	formerly ISA-S37.12- 1982 (R1995)	Specifications and Tests for Potentiometric Displacement Transducers
ISA-RP37.2-1982 (Reaffirmed 1995)		Guide for Specifications and Tests for Piezoelectric Acceleration Transducers for Aerospace Testing
ISA-37.3-1982 (Reaffirmed 1995)	formerly ISA-S37.3-1982 (R1995)	Specifications and Tests for Strain Gage Pressure Transducers
ISA-37.5- 1982(Reaffirmed 1995)	formerly ISA-S37.5-1982 (R1995)	Specifications and Tests for Strain Gage Linear Acceleration Transducers
ISA-37.6-1982 (Reaffirmed 1995)	formerly ISA-S37.6-1982 (R1995)	Specifications and Tests for Potentiometric Pressure Transducers
ISA-37.8-1982 (Reaffirmed 1995)	formerly ISA-S37.8-1982 (R1995)	Specifications and Tests for Strain Gage Force Transducers
ISA-RP42.1-1992		Nomenclature for Instrument Tube Fittings
ANSI/ISA-5.1-1984 (Reaffirmed 1992)	formerly ANSI/ISA-S5.1- 1984 (R1992)	Instrumentation Symbols and Identification



ANSI/ISA-5.2-1976 (Reaffirmed 1992)	formerly ANSI/ISA-S5.2- 1976 (R1992)	Binary Logic Diagrams For Process Operations
ISA-5.3-1983	formerly ISA-S5.3-1983	Graphic Symbols for Distributed Control/Shared Display Instrumentation, Logic, and Computer Systems
ANSI/ISA-5.4-1991	formerly ANSI/ISA-S5.4- 1991	Instrument Loop Diagrams
ISA-5.5-1985	formerly ISA-S5.5-1985	Graphic Symbols for Process Displays
ANSI/ISA-50.02, Part 2- 1992	formerly ANSI/ISA- S50.02, Part 2-1992	Fieldbus Standard for Use in Industrial Control Systems Part 2: Physical Layer Specification and Service Definition
ANSI/ISA-50.02, Part 3- 1997	formerly ANSI/ISA- S50.02, Part 3-1997	Fieldbus Standard for Use in Industrial Control Systems Part 3: Data Link Service Definition
ANSI/ISA-50.02, Part 4- 1997	formerly ANSI/ISA- S50.02, Part 4-1997	Fieldbus Standard for Use in Industrial Control Systems Part 4: Data Link Protocol Specification
ANSI/ISA-50.02, Part 5- 1998	formerly ANSI/ISA- S50.02, Part 5-1998	Fieldbus Standard for Use in Industrial Control Systems Part 5: Application Layer Service Definition
ANSI/ISA-50.02, Part 6- 1998	formerly ANSI/ISA- S50.02, Part 6-1998	Fieldbus Standard for Use in Industrial Control Systems Part 6: Application Layer Protocol Specification
ANSI/ISA-TR50.02, Parts 3 & 4		Fieldbus Standard for Use in Industrial Control Systems, TR1: Technical Report for Fieldbus Data Link Layer - Tutorial
ISA-TR50.02, Part 9- 2000		Fieldbus Standard for Use in Industrial Control Systems: User Layer Technical Report
ANSI/ISA-50.1-1982 (Reaffirmed 1992)	formerly ANSI/ISA- S50.1-1982 (R1992)	Compatibility of Analog Signals for Electronic Industrial Process Instruments
ANSI/ISA-51.1-1979 (Reaffirmed 1993)	formerly ANSI/ISA- S51.1-1979 (R1993)	Process Instrumentation Terminology
ISA-RP52.1-1975		Recommended Environments for Standards Laboratories
ISA-RP55.1-1975 (Reaffirmed 1983)		- Hardware Testing of Digital Process Computers
ISA-RP55.1-1983 (Reaffirmed 1983)		- Hardware Testing of Digital Process Computers
ISA-RP60.1-1990		Control Center Facilities
ISA-RP60.11-1991		Crating, Shipping, and Handling for Control Centers
ISA-RP60.2-1995		Control Center Design Guide and Terminology
IISA-RP60.3-1985		Human Engineering for Control Centers
ISA-RP60.4-1990		Documentation for Control Centers
ISA-RP60.6-1984		Nameplates, Labels, and Tags for Control Centers



ISA-RP60.8-1978		Electrical Guide for Control Centers
ISA-RP60.9-1981		Piping Guide for Control Centers
ANSI/ISA-67.01-1994	formerly ANSI/ISA- S67.01-1994	Transducer and Transmitter Installation for Nuclear Safety Applications
ANSI/ISA-67.02.01-1999	formerly ANSI/ISA- S67.02.01-1999	Nuclear Safety-Related Instrument Sensing Line Piping and Tubing Standard for Use in Nuclear Power Plants
ISA-67.03-1982	formerly ISA-S67.03- 1982	Standard for Light Water Reactor Coolant Pressure Boundary Leak Detection
ANSI/ISA-67.04.01-2000	formerly ANSI/ISA- S67.04.01-2000	Setpoints for Nuclear Safety-Related Instrumentation
ISA-RP67.04.02-2000		Methodologies for the Determination of Setpoints for Nuclear Safety-Related Instrumentation
ANSI/ISA-TR67.04.08- 1996		Setpoints for Sequenced Actions
ISA-67.06-1984	formerly ISA-S67.06- 1984	Response Time Testing of Nuclear Safety-Related Instrument Channels in Nuclear Power Plants
ANSI/ISA-67.14.01-2000	formerly ANSI/ISA- S67.14.01-2000	Qualifications and Certification of Instrumentation and Control Technicians in Nuclear Facilities
ANSI/ISA-7.0.01-1996	formerly ANSI/ISA- S7.0.01-1996	Quality Standard for Instrument Air
ISA-71.01-1985	formerly ISA-S71.01- 1985	Environmental Conditions for Process Measurement and Control Systems: Temperature and Humidity
ISA-71.02-1991	formerly ISA-S71.02- 1991	Environmental Conditions for Process Measurement and Control Systems: Power
ANSI/ISA-71.03-1995	formerly ANSI/ISA- S71.03-1995	Environmental Conditions for Process Measurement and Control Systems: Mechanical Influences
ISA-71.04-1985	formerly ISA-S71.04- 1985	Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants
ISA-72.01-1985	formerly ISA-S72.01- 1985	PROWAY-LAN Industrial Data Highway
ANSI/ISA-72.02-1993	formerly ANSI/ISA- S72.02-1993	Manufacturing Message Specification: Companion Standard for Process Control (Identical to ISO/IEC 9506-6)
ANSI/ISA-72.02-1993	formerly ANSI/ISA- S72.02-1993	Manufacturing Message Specification: Companion Standard for Process Control (Identical to ISO/IEC 9506-6)
ISA-RP74.01-1984		Application and Installation of Continuous-Belt Weighbridge Scales
ISA-RP76.0.01-1998		Analyzer System Inspection and Acceptance
ANSI/ISA-77.13.01-1999	formerly ANSI/ISA- S77.13.01-1999	Fossil Fuel Power Plant Steam Turbine Bypass System
ANSI/ISA-77.20-1993	formerly ANSI/ISA- S77.20-1993	Fossil Fuel Power Plant Simulators - Functional Requirements



ISA-77.41-1992	formerly ISA-S77.41-	Fossil Fuel Power Plant Boiler Combustion Controls
10A-11.41-1332	1992	I dell'ower i fant Boner Combustion Controls
ANSI/ISA-77.42.01-1999	formerly ANSI/ISA- S77.42.01-1999	Fossil Fuel Power Plant Feedwater Control System - Drum Type
ANSI/ISA-77.43-1994	formerly ANSI/ISA- S77.43-1994	Fossil Fuel Power Plant Unit/Plant Demand Development (Drum Type)
ANSI/ISA-77.44-1995	formerly ANSI/ISA- S77.44-1995	Fossil Fuel Plant Steam Temperature Control System (Drum-Type)
ISA-TR77.60.04-1996		Fossil Fuel Power Plant Human-Machine Interface-CRT Displays
ANSI/ISA-77.70-1994	formerly ANSI/ISA- S77.70-1994	Fossil Fuel Power Plant Instrument Piping Installation
ANSI/ISA-TR77.81.05- 1995		Standard Software Interfaces for CEMS Relative Accuracy Test Audit Data
ANSI/ISA-82.02.01-1999	formerly ANSI/ISA- S82.02.01-1999	Safety Standard for Electrical and Electronic Test, Measuring, Controlling, and Related Equipment - General Requirements (Harmonized Standard to IEC Publication 1010-1)
ANSI/ISA-82.02.01-1999	formerly ANSI/ISA- S82.02.01-1999	Safety Standard for Electrical and Electronic Test, Measuring, Controlling, and Related Equipment - General Requirements (Harmonized Standard to IEC Publication 1010-1)
ANSI/ISA-82.02.02-1996	formerly ANSI/ISA- S82.02.02-1996	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
ANSI/ISA-82.02.04-1996	formerly ANSI/ISA- S82.02.04-1996	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
ISA-82.03-1988	formerly ISA-S82.03- 1988	Safety Standard for Electrical and Electronic Test, Measuring, Controlling, and Related Equipment (Electrical and Electronic Process Measurement and Control Equipment)
ANSI/ISA-84.01-1996	formerly ANSI/ISA- S84.01-1996	Application of Safety Instrumented Systems for the Process Industries
ISA-TR88.0.03-1996		Possible Recipe Procedure Presentation Formats
ANSI/ISA-88.01-1995	formerly ANSI/ISA- S88.01-1995	Batch Control Part 1: Models and Terminology
ANSI/ISA-91.01-1995	formerly ANSI/ISA- S91.01-1995	Identification of Emergency Shutdown Systems and Controls that are Critical to Maintaining Safety in Process Industries
ISA-92.0.01, Part I-1998	formerly ISA-S92.0.01, Part I-1998	Performance Requirements for Toxic Gas-Detection Instruments: Hydrogen Sulfide (Replaces ISA-S12.15, Part I-1990)
ISA-RP92.0.02, Part II- 1998)		Installation, Operation, and Maintenance of Toxic Gas-Detection Instruments: Hydrogen Sulfide (Replaces ISA RP12.15, Part II-1990)
ANSI/ISA-92.02.01, Part I-1998	formerly ANSI/ISA- S92.02.01, Part 1-1998	Performance Requirements for Carbon Monoxide Detection Instruments (50-1000 ppm Full Scale)
ISA-RP92.02.02, Part II- 1998		Installation, Operation, and Maintenance of Carbon Monoxide Detection Instruments (50-1000 ppm Full Scale)
ISA-92.03.01-1998	formerly ISA-S92.03.01- 1998	Performance Requirements for Ammonia Detection Instruments (25-500 ppm)
ISA-RP92.03.02-1999		Installation, Operation, and Maintenance of Ammonia Detection Instruments (25-500 ppm - Full Scale)



ANSI/ISA-92.04.01, Part I-1996	formerly ANSI/ISA- S92.04.01, Part I-1996	Performance Requirements for Instruments Used to Detect Oxygen-Deficient/Oxygen- Enriched Atmospheres
ISA-RP92.04.02, Part II- 1996		Installation, Operation, and Maintenance of Instruments Used to Detect Oxygen- Deficient/Oxygen Enriched Atmospheres
ISA-92.06.01-1998	formerly ISA-S92.06.01- 1998	Performance Requirements for Chlorine Detection Instruments (0.5-30 ppm Full Scale)
ISA-RP92.06.02-1999		Installation, Operation, and Maintenance of Chlorine Detection Instruments (0.5-30 ppm - Full Scale)
ANSI/ISA-TR92.06.03- 1999		Feasibility of Chlorine Detection Instrument Testing
ANSI/ISA-93.00.01-1999	formerly ANSI/ISA- S93.00.01-1999	Standard Method for the Evaluation of External Leakage of Manual and Automated On-Off Valves
ANSI/ISA-95.00.01-2000	formerly ANSI/ISA- S95.00.01-2000	Enterprise-Control System Integration Part 1: Models and Terminology
IEC 60079-14-1996		Electrical Apparatus for Explosive Gas Atmospheres: Part 14 - Electrical Installations in Hazardous Areas (Other than Mines)
IEC 60079-19-1993		Electrical Apparatus for Explosive Gas Atmospheres, Part 19: Repair and Overhaul for Apparatus Used in Explosive Atmospheres (Other than Mines or Explosives)
IEC 60079-3-1990		Electrical Apparatus for Explosive Gas Atmosphere, Part 3: Spark-Test Apparatus for Intrinsically Safe Circuits
IEC 60534-4-1982		Industrial Process Control Valves, Part 4: Inspection and Routine Testing
IEC 60534-5-1982		Industrial Process Control Valves, Part 5: Marking
IEC 60534-8-2-1991		Industrial-Process Control Valve, Part 8: Noise Generations, Section 2: Laboratory Measurement of Noise Generated by Hydrodynamic Flow Through Control Valves
IEC 60534-8-4-1994		Industrial Process Control Valves, Part 8: Noise
IEC 60546-1-1987		Controllers with Analog Signals for Use in Industrial-Process Control Systems, Part 1: Methods of Evaluating the Performance
IEC 60546-2-1987		Controllers with Analog Signals for Use in Industrial-Process Control Systems, Part 2: Guidance for Inspection and Routine Testing
IEC 60746-1-1982		Expression of Performance of Electrochemical Analyzers, Part 1: General
IEC 60746-2-1982		Expression of Performance of Electrochemical Analyzers, Part 2: pH Value IEC 61131-1-1992 Programmable Controllers, Part 1: General Information
IEC 61131-2-1992		Programmable Controllers, Part 2: Equipment Requirements and Tests
IEC 61131-3-1993		Programmable Controllers, Part 3: Programming Languages
IEC 61131-4-1995		Programmable Controllers, Part 4: User Guidelines
ISA-MC96.1-1982		Temperature Measurement Thermocouples



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FCI	55-1	Standard Classification and Terminology for Power Actuated Valves.
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FCI	58-2	Stansdards for Measurement Produre for Determining Control Valve Flow Capacity.
FCI	62-1	Standard Formulas for Sizing Control Valves.
FCI	65-1	Guide to Material Selection for Industrial Regulators.
FCI	65-2	Standards for face to face Dimensions of Control Valves.
FCI	65-3	Standards for Determining Industrial Steam Trap Capacity Rating.
FCI	68-1	Procedure in Rating Flow and Pressure Characteristics of Solenoid valves for Gas Service.
FCI	68-2	Procedure in Rating Flow and Pressure Characteristics of Solenoid valves for Liquid Service.
FCI	68-4	Nomenclature and Definitions for Space Heating Manual Supply Valves.
FCI	68-5	Standard for Pipe Line Strainer Mesh and Perforation Size.
FCI	69-1	Pressure rating Standard for Steam Traps.
FCI	70-1	Standard Terminology and Definion for Filled Thermal Systems for Remote Sensing Temperaure Regulators.
FCI	70-2	Quality Control Standard for Control Valve Seat Leakage.
FCI	71-1	Standard Terminology for Regulators
FCI	73-1	Pressure Rating standard for "Y" type Strainers.
FCI	74-1	Silent Check Valve standard
FCI	75-1	Test Conditions and Procedures for Measuring Electrical Characteristics of Solenoid Valves.

