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COMPLIANCE IS MANDATORY

John C. Stennis Space Center
INDEX OF THE STANDARDS FOR FACILITY PIPING SYSTEMS

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Document History Log

Change/ Revision	Change Date	Originator/ Phone	Description
Basic	12/01/2014	D. Dike 8-2803	Initial release. Supersedes SSC-47-000. New document number and format per SPR 1400.1. Updated 5.0, "Index of the Standards for Facility Piping Systems", adding designator codes. In 5.0, "Max. Operating Pressure" changed to "Max. Design Pressure", and "Tube Material" changed to "Pipe, Tube, Fitting Material."
A	8/3/2016	Benny McGrath 8-2969	Revised cover sheet to require approval from NASA SSC Center Operations Design & Construction Project Management Division, with concurrence from NASA SSC Engineering and Test Directorate, NASA SSC Center Operations Directorate Operations and Maintenance Division, and NASA SSC Safety and Mission Assurance. Updated references and acronyms. 1.0: Expanded to identify each of the specifications provided within the Index of the Standards for Facility Piping Systems: designators, fluid service media, maximum design pressure, and operating temperature range. Also added: "The pressure boundary material type of pipe and fittings for each piping system is also provided." 5.0: Updated Index of the Standards for Facility Piping Systems, adding general requirement notes; expanding the index to include a column for Service Media Designator; and incorporating provisions for use of gaseous methane and liquid methane to specified piping systems.
A-1	4/20/2020	C. Wolfram 8-1620	Administrative change. Added SSTD-8070-0092-FLUIDS to Index of Standards for Facility Piping Systems.

B	9/3/2021	Benny McGrath 8-2969	Five-year review. Updated references and acronyms. Revised cover sheet and content to reflect Center Operations organizational changes from Design and Construction Project Management Division to Facilities Engineering Services and Operations and Maintenance to Facility Services Branch. Updated Critical Pressure (psig) values within 5.0-b. Added 5.0-f. Modifications to Index: SSTD-8070-0074-PIPE references changed to ASME B31.5. Added Water, Potable, (PVC and HDPE), reference SSTD-8070-0070-PIPE. Added SSTD-8070-0092-FLUIDS for Natural Gas service. Revised “Pipe, Tube Fitting Material” entry to read “Copper” for “Natural Gas” service in row corresponding to SSTD-8070-0092-FLUIDS. Added “NCK3” and “B” Piping Designators for air (HA) service. Added “Y” Piping Designator for HA, IPA, JP4, JP5, JP7, JP8, GM, GN and RP-1 services. Corrected “Pipe, Tube Fittings Material” entry and cited SSTD for “Z” Piping Designator in air (HA) service. Corrected, as necessary, “Temperature Range of Piping” entries for Piping Designators “AA” and “Z”. Corrected “Maximum Design Pressure” and “Temperature Range of Piping” entries for Piping Designator “BCK1” in HA service. Revised “Maximum Design Pressure” and selected “Temperature Range of Piping” entries for Piping Designator “E” in GH, LH, GN, LN, GO, and LO services.

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1.0 PURPOSE

This John C. Stennis Space Center (SSC) standard (SSTD) provides an index of SSC facility piping systems with their designators, fluid service media, maximum design pressures, and operating temperature ranges. The pressure boundary material type of pipe and fittings for each piping system is also provided.

2.0 APPLICABILITY

This SSTD applies to all National Aeronautics and Space Administration (NASA) contractor and subcontractor personnel at SSC.

3.0 REFERENCES

All references are assumed to be the latest version unless otherwise indicated.

ASME B31.5, *Refrigeration Piping and Transfer Components*

IPC, *International Plumbing Code*

SPR 1440.1, *SSC Records Management Program Requirements*

SSTD-8070-0005-CONFIG, *SSC Preparation, Review, Approval, and Release of SSC Standards*

SSTD-8070-0044-PIPE, *Standard for Carbon Steel Piping Systems A, CC, D, J, J1, K1, K2, L, M, M1, N, Q, S, SS, V and W*

SSTD-8070-0047-PIPE, *Standard for Stainless Steel Piping Systems AA, ACK1, ACK4, ACK6, B, BCK1, BCK3, BCK4, BCK6, BCK10, C, EE, G, H, JJ, K3, L1, L2, NCK1, NCK2, NCK3, NCK10, NCK11, NCK12, P, R, T and Z*

SSTD-8070-0059-PIPE, *Low Pressure Aluminum Pipe Systems with Piping Designator "E"*

SSTD-8070-0063-PIPE, *Pipe System 3-1/2% Nickel for High Pressure Service "Y"*

SSTD-8070-0067-PIPE, *High Pressure Industrial Water Piping "AG"*

SSTD-8070-0069-PIPE, *Low Pressure Vacuum Jacketed Pipe*

SSTD-8070-0070-PIPE, *PVC and HDPE Piping for Potable Water Service Underground*

SSTD-8070-0075-PIPE, *Plumbing and Ordinary Service Copper Tubing*

SSTD-8070-0092-FLUIDS, *Design, Installation and Maintenance of Sitewide Natural Gas Distribution System*

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4.0 RESPONSIBILITIES

a. Users of this SSTD shall comply with its requirements, ensure use of the correct version of this SSTD and the documents it references, and inform the appropriate organization of needed changes in accordance with SSTD-8070-0005-CONFIG.

b. Responsibilities for the use and control of this SSTD and for the review and approval of revisions or cancellation of this SSTD shall be as specified in SSTD-8070-0005-CONFIG and the applicable documents referenced therein.

5.0 GENERAL

a. For each of the entry blocks within the Index of the Standards for Facility Piping Systems with more than one maximum design pressure, consult the corresponding SSTD for information about which design pressure applies and associated requirements and conditions for each design pressure.

b. When pressures are supercritical, there is no longer a distinct boundary between liquid and gas phases. For purposes of this SSTD and the listed SSC standards in the table, when the pressure is supercritical and the temperature is nominally below critical temperature, the service media is considered a liquid. When the pressure is supercritical and the temperature is nominally above critical temperature, the service media is considered a gas. For reference, the critical pressures and temperatures of fluids where maximum design pressure and temperature range of piping enables supercritical pressures and temperatures are as follows:

Service Media	Critical Pressure (psig)	Critical Temp. (ºF)
Air	534.42	-221.11
(para-)Hydrogen	171.79	-400.38
Methane	652.36	-116.65
Nitrogen	477.82	-232.52
Oxygen	716.73	-181.42

c. For liquid service media, the listed temperature ranges of piping may (and often will) have minimum temperatures that are below the fusion line (freezing point). For these cases, the minimum allowed service temperature is the freezing point corresponding to the operating pressure of the fluid media.

d. For liquid service media, the listed temperature ranges of piping may have maximum temperatures that are above the vaporization line (boiling point). For these cases, the

maximum allowed service temperature is the boiling point corresponding to the operating pressure of the fluid media.

e. For gaseous service media, the listed temperature ranges of piping may have minimum temperatures that are below the vaporization (or condensation) line (boiling point). For these cases, the minimum allowed service temperature is the boiling point corresponding to the operating pressure of the fluid media.

f. Where more than one (1) maximum design pressure value is listed, refer to the corresponding standard cited in the last row for details about which value applies.

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INDEX OF THE STANDARDS FOR FACILITY PIPING SYSTEMS

SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Acetylene	(None)	275	-20 to +100	C.S.	W	SSTD-8070-0044-PIPE
Air (Breathable)	BA	20	20 to 150	S.S.	Z	SSTD-8070-0047-PIPE
Air (Compressed)	CA	150	20 to 150	S.S.	Z	SSTD-8070-0047-PIPE
Air	CA or HA	150	-20 to 150	C.S.	L	SSTD-8070-0044-PIPE
Air	HA	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Air	HA	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Air	HA	200	-20 to 100	C.S.	Q	SSTD-8070-0044-PIPE
Air (High Pressure)	HA	230	20 to 150	S.S.	Z	SSTD-8070-0047-PIPE
Air	HA	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Air, Gaseous	HA	230, 275	-423 to 130	S.S.	VJ	SSTD-8070-0069-PIPE
Air, Liquid	(None)	230, 275	-423 to 130	S.S.	VJ	SSTD-8070-0069-PIPE
Air	HA	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Air	HA	400, 450	32 to 600	C.S.	SS	SSTD-8070-0044-PIPE
Air	HA	570	32 to 600	C.S.	S	SSTD-8070-0044-PIPE
Air	HA	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Air	HA	810	-20 to 150	C.S.	M	SSTD-8070-0044-PIPE
Air	HA	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Air	HA	1500	-20 to 100	S.S.	L1	SSTD-8070-0047-PIPE
Air	HA	2500	-20 to 100	S.S.	L2	SSTD-8070-0047-PIPE
Air	HA	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Air	HA	3700	-20 to 150	C.S.	A	SSTD-8070-0044-PIPE
Air	HA	3700	-320 to 150	S.S.	B	SSTD-8070-0047-PIPE
Air	NA	3700	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Air	HA	4100, 4200	-320 to 150	S.S.	T	SSTD-8070-0047-PIPE
Air	HA	4550, 4840	-100 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Air	HA	6300	-320 to 150	S.S.	G	SSTD-8070-0047-PIPE
Air	HA	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Air	HA	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Air	HA	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Air	HA	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Air	HA	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Ethylene Glycol	(None)	125	-20 to 350	C.S.	Q	SSTD-8070-0044-PIPE
Helium	HE	150	-20 to 150	C.S.	L	SSTD-8070-0044-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Helium	HE	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Helium	HE	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Helium	HE	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Helium	HE	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Helium	HE	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Helium	HE	400, 450	32 to 600	C.S.	SS	SSTD-8070-0044-PIPE
Helium	HE	570	32 to 600	C.S.	S	SSTD-8070-0044-PIPE
Helium	HE	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Helium	HE	720	-20 to 150	C.S.	N	SSTD-8070-0044-PIPE
Helium	HE	810	-50 to 150	S.S.	P	SSTD-8070-0047-PIPE
Helium	HE	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Helium	HE	1500	-20 to 100	S.S.	L1	SSTD-8070-0047-PIPE
Helium	HE	2500	-20 to 100	S.S.	L2	SSTD-8070-0047-PIPE
Helium	HE	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Helium	HE	3700	-20 to 150	C.S.	A	SSTD-8070-0044-PIPE
Helium	HE	3700	-320 to 150	S.S.	B	SSTD-8070-0047-PIPE
Helium	HE	4100, 4200	-320 to 150	S.S.	T	SSTD-8070-0047-PIPE
Helium	HE	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Helium	HE	6300	-50 to 150	C.S.	J	SSTD-8070-0044-PIPE
Helium	HE	6300	-20 to 150	C.S.	D	SSTD-8070-0044-PIPE
Helium	HE	6300	-320 to 150	S.S.	G	SSTD-8070-0047-PIPE
Helium	HE	6300	-50 to 150	3-½% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Helium	HE	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Helium	HE	6600	-20 to 150	C.S.	V	SSTD-8070-0044-PIPE
Helium	HE	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Helium	HE	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Helium	HE	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Helium	HE	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Hydraulic Fluid	HD	1800	-20 to 100	S.S.	AN	SSTD-8070-0047-PIPE
Hydraulic Fluid	HD	3000	-20 to 200	S.S.	K3	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	20	-423 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	22	-423 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Hydrogen, Gaseous	GH	150	-20 to 150	C.S.	L	SSTD-8070-0044-PIPE
Hydrogen, Gaseous	GH	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Hydrogen, Gaseous	GH	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	175	-20 to 1400	S.S.	ACK6	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Hydrogen, Gaseous	GH	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	810	-20 to 150	C.S.	M	SSTD-8070-0044-PIPE
Hydrogen, Gaseous	GH	810	-50 to 150	S.S.	P	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	1500	-20 to 100	S.S.	L1	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	2500	-20 to 100	S.S.	L2	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	3700	-20 to 150	C.S.	A	SSTD-8070-0044-PIPE
Hydrogen, Gaseous	GH	3700	-320 to 150	S.S.	B	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	4100, 4200	-320 to 150	S.S.	T	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	6300	-50 to 150	C.S.	J	SSTD-8070-0044-PIPE
Hydrogen, Gaseous	GH	6300	-320 to 150	S.S.	G	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	6300	-50 to 150	3-½% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Hydrogen, Gaseous	GH	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	6600	-20 to 150	C.S.	V	SSTD-8070-0044-PIPE
Hydrogen, Gaseous	GH	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Hydrogen, Gaseous	GH	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	20	-423 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	22	-423 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Hydrogen, Liquid	LH	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Hydrogen, Liquid	LH	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE

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Hydrogen, Liquid	LH	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Hydrogen, Liquid	LH	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	6300	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Hydrogen Peroxide	H2O2	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Hydrogen Peroxide	H2O2	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Isopropyl Alcohol	IPA	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	6300	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
JP-4, 5, 7, and 8	JP4, JP5, JP7, JP8	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Methane, Gaseous	GM	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	400	-302 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	6300	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Methane, Gaseous	GM	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Methane, Gaseous	GM	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Methane, Liquid	LM	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Methane, Liquid	LM	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Methane, Liquid	LM	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Methane, Liquid	LM	230,275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Methane, Liquid	LM	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Methane, Liquid	LM	400	-302 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Methane, Liquid	LM	600,720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Methane, Liquid	LM	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Methane, Liquid	LM	4550,4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Methane, Liquid	LM	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Methane, Liquid	LM	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Methane, Liquid	LM	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Natural Gas	NG	90 (WP = 40)	0 to 150	Copper	(No Code)	SSTD-8070-0075-PIPE

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RELEASED - Printed documents may be obsolete; validate prior to use.

SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Natural Gas	NG	100	-20 to 120	Galvanized C.S., C.S. (with anodic corrosion protection) and PE	(No Code)	SSTD-8070-0092-FLUIDS
Natural Gas	NG	150	-20 to 200	Galvanized C.S.	AI	IPC
Natural Gas	NG	150	-20 to 150	C.S. Pipe & Galv. Iron Fittings	J1	SSTD-8070-0044-PIPE
Natural Gas	NG	230, 275	-423 to 130	S.S.	VJ	SSTD-8070-0069-PIPE
Natural Gas	NG	275	-20 to 100	C.S.	W	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	20	-320 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	22	-320 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Nitrogen, Gaseous	GN	150	-20 to 150	C.S.	L	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Nitrogen, Gaseous	GN	275	-320 to 100	S.S.	H	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	400	-320 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	400, 450	32 to 600	C.S.	SS	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	570	32 to 600	C.S.	S	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	720	-20 to 150	C.S.	N	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	810	-20 to 150	C.S.	M	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	810	-50 to 150	S.S.	P	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	1500	-20 to 100	S.S.	L1	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	1800	-320 to 100	S.S.	AN	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	2500	-20 to 100	S.S.	L2	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	3700	-20 to 150	C.S.	A	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	3700	-320 to 150	S.S.	B	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	4100, 4200	-320 to 150	S.S.	T	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	6300	-50 to 150	C.S.	J	SSTD-8070-0044-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Nitrogen, Gaseous	GN	6300	-20 to 150	C.S.	D	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	6300	-320 to 150	S.S.	G	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	6300	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
Nitrogen, Gaseous	GN	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	6600	-20 to 150	C.S.	V	SSTD-8070-0044-PIPE
Nitrogen, Gaseous	GN	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Nitrogen, Gaseous	GN	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	20	-320 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	22	-320 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Nitrogen, Liquid	LN	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Nitrogen, Liquid	LN	275	-320 to 100	S.S.	H	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	400	-320 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	1800	-320 to 100	S.S.	AN	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Nitrogen, Liquid	LN	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	20	-297 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	22	-320 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Oxygen, Gaseous	GO	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Oxygen, Gaseous	GO	275	-320 to 100	S.S.	H	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Oxygen, Gaseous	GO	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	400	-320 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	1800	-320 to 100	S.S.	AN	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Oxygen, Gaseous	GO	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	20	-297 to 100	S.S.	Z	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	22	-320 to 100	Aluminum	E	SSTD-8070-0059-PIPE
Oxygen, Liquid	LO	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	230, 275	-423 to 100	S.S.	VJ	SSTD-8070-0069-PIPE
Oxygen, Liquid	LO	275	-320 to 100	S.S.	H	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	275	-423 to 100	S.S.	C	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	400	-320 to 100	S.S.	AA	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	1800	-320 to 100	S.S.	AN	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	6600	-320 to 150	S.S.	R	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Oxygen, Liquid	LO	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Refrigerant R-12	R12	300	-85 to 150	Copper	FR	ASME B31.5
Refrigerant R-22	R22	300	-85 to 150	Copper	FR	ASME B31.5
RP-1	RP	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
RP-1	RP	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
RP-1	RP	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
RP-1	RP	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
RP-1	RP	275	-20 to 100	C.S.	W	SSTD-8070-0044-PIPE
RP-1	RP	275	-20 to 100	S.S.	JJ	SSTD-8070-0047-PIPE
RP-1	RP	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
RP-1	RP	440	-20 to 100	S.S.	EE	SSTD-8070-0047-PIPE
RP-1	RP	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
RP-1	RP	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
RP-1	RP	1800	-320 to 100	S.S.	AN	SSTD-8070-0047-PIPE
RP-1	RP	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
RP-1	RP	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
RP-1	RP	6300	-50 to 150	3-1/2% Nickel C.S.	Y	SSTD-8070-0063-PIPE
RP-1	RP	4550, 4840	-423 to 100	S.S.	BCK4	SSTD-8070-0047-PIPE
RP-1	RP	6500	-423 to 100	S.S.	BCK1	SSTD-8070-0047-PIPE
RP-1	RP	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
RP-1	RP	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
RP-1	RP	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE
Steam	S	150	-20 to 200	Galvanized C.S.	AI	IPC
Steam	S	400, 450	32 to 600	C.S.	SS	SSTD-8070-0044-PIPE
Steam	S	570	32 to 600	C.S.	S	SSTD-8070-0044-PIPE
Vacuum	VAC	20	-20 to 150	C.S.	CC	SSTD-8070-0044-PIPE
Vacuum	VAC	20	-20 to 150	C.S.	M1	SSTD-8070-0044-PIPE
Water, Potable	PW	150 (MOP = 80)	35 to 120	HDPE and PVC	(No Code)	SSTD-8070-0070-PIPE
Water, Potable	PW	90 (WP = 65 or 78)	0 to 200	Copper	(No Code)	SSTD-8070-0075-PIPE
Water, Hot	HW	125	32 to 350	C.S.	Q	SSTD-8070-0044-PIPE
Water, Chilled	CW	150	-20 to 150	C.S. Pipe, C.S. and Malleable Iron Fittings	K1	SSTD-8070-0044-PIPE
Water, Potable	PW	150	-20 to 150	C.S. Pipe, C.S. and Malleable Iron Fittings	K1	SSTD-8070-0044-PIPE
Water, Industrial (non-potable)	IW	150	-20 to 150	C.S. Pipe, C.S. and Malleable Iron Fittings	K1	SSTD-8070-0044-PIPE
Water, Industrial (non-potable)	IW	150	-423 to 100	S.S.	NCK3	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	150	-423 to 100	S.S.	NCK11	SSTD-8070-0047-PIPE
Water, Potable	PW	150	-20 to 200	Galvanized C.S.	AI	IPC
Water, Industrial (non-potable)	IW	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE

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SERVICE	SERVICE MEDIA DESIGNATOR	MAX. DESIGN PRESSURE (psig)	TEMP. RANGE OF PIPING (FAHRENHEIT)	PIPE, TUBE, FITTING MATERIAL	PIPING DESIGNATOR	STANDARD NUMBER
Water, Industrial (non-potable)	IW	230	-423 to 100	S.S.	NCK1	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	300	32 to 200	C.S.	AG	SSTD-8070-0067-PIPE
Water, Industrial (non-potable)	IW	350	-423 to 100	S.S.	NCK2	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	400, 450	32 to 600	C.S.	SS	SSTD-8070-0044-PIPE
Water, Industrial or Hot (non-potable)	HW or IW	570	32 to 600	C.S.	S	SSTD-8070-0044-PIPE
Water, Industrial (non-potable)	IW	600, 720	-423 to 100	S.S.	NCK10	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	720	-20 to 100	C.S.	K2	SSTD-8070-0044-PIPE
Water, Industrial (non-potable)	IW	1200	-423 to 100	S.S.	NCK12	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	3300	-100 to 100	S.S.	BCK3	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	6600	-320 to 100	S.S.	BCK10	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	8500	-423 to 100	S.S.	ACK4	SSTD-8070-0047-PIPE
Water, Industrial (non-potable)	IW	15,000	-100 to 100	S.S.	ACK1	SSTD-8070-0047-PIPE

6.0 RECORDS AND FORMS

Records and forms required by the procedures of this SSTD shall be maintained in accordance with SPR 1440.1. All records and forms are assumed to be the latest edition unless otherwise indicated. Forms may be obtained from the SSC Electronic Forms repository or from the NASA SSC Forms Management Officer. Quality Records are identified in the SSC Master Records Index.

7.0 ACRONYMS AND ABBREVIATIONS

ASME American Society of Mechanical Engineers
BA Breathable Air
CA Compressed Air
C.S. Carbon Steel
COD Center Operations Directorate
CW Chilled Water
GH Gaseous Hydrogen
GM Gaseous Methane
GN Gaseous Nitrogen
GO Gaseous Oxygen
H202 Hydrogen Peroxide

HA	High Pressure Air
HD	Hydraulic Fluid
HDPE	High-Density Polyethylene
HE	Helium
HW	Hot Water
IPA	Isopropyl Alcohol
IPC	International Plumbing Code
IW	Industrial Water
JP	Jet Propellant
JP4 (JP-4)	Jet Propellant No. 4
JP5 (JP-5)	Jet Propellant No. 5
JP7 (JP-7)	Jet Propellant No. 7
JP8 (JP-8)	Jet Propellant No. 8
LH	Liquid Hydrogen
LO	Liquid Oxygen
LM	Liquid Methane
LN	Liquid Nitrogen
MOP	Maximum Operating Pressure
NASA	National Aeronautics and Space Administration
NG	Natural Gas
PE	Polyethylene
psig	pounds per square inch gage
PVC	Polyvinyl Chloride
PW	Potable Water
RP	Rocket Propellant
RP1 (RP-1)	Rocket Propellant No. 1
S	Steam
S.S.	Stainless Steel
SSC	John C. Stennis Space Center
SSTD	John C. Stennis Space Center Standard
SPR	Stennis Procedural Requirements
VAC	Vacuum
WP	Working Pressure

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