

Service	Commodity Abbreviation	Nominal Size(s) (mm)	Exposure <sup>2</sup>	Piping Material <sup>2</sup>	Specification Section	Test Type and Pressure (kPa) <sup>1</sup>	Remarks
<b><u>ONSITE SODIUM HYPOCHLORITE SYSTEM</u></b>							
Overflow	OF	100, 150	EXP	PVC	15200-10	N/A	
Vent	VTA	100, 300	EXP	PVC	15200-10	N/A	
Drain	DRN	25, 40, 150	EXP	PVC	15200-10	N/A	
Sodium Hypochlorite	HYP	25, 40, 50, 75, 100	EXP	PVC	15200-10	H, 600	
12% Sodium Hypochlorite	HST	12, 40	EXP	PVC	15200-10	H, 600	
Brine Solution	BS	20, 25, 50	EXP	PVC	15200-10	H, 600	
Softened Water	WS	6, 12, 40, 50	EXP	PVC	15200-10	H, 600	
Stand Pipe	STP	600	EXP	FRP-2	15200-12	H, 150	
Salt Fill Line	STD	100	EXP	SST	15200-08	N/A	
Dust Bag Vent Line	UE	200	EXP	N/A	N/A	N/A	Supplied in Vendor Package
Hydrogen Dilution Blower Air Supply Line	BLWAS	150, 250, 300, 400, 500	EXP	SST	15200-08	N/A	Added in addendum 4.
<b><u>FERRIC CHLORIDE SYSTEM</u></b>							
Overflow	OF	100	EXP	PVC	15200-10	N/A	
Vent	VTA	200	EXP	PVC	15200-10	N/A	
Ferric Chloride	FC	25, 40, 50, 75, 100	EXP	PVC	15200-10	H, 1050	
Ferric Chloride Waste	FCW	100, 200	BUR	TSTL	15200-03	H, 150	Epoxy Coated / Teflon Lined Steel
Compressed Air	CA	20	EXP	TSTL	15200-03	H, 600	Epoxy Coated / Teflon Lined Steel for purge piping only.
<b><u>SODIUM HYDROXIDE SYSTEM</u></b>							
Overflow	OF	100	EXP	PVC	15200-10	N/A	
Vent	VTA	200	EXP	PVC	15200-10	N/A	
Sodium Hydroxide	CS	25, 40, 50, 75, 100	EXP	Expoxy coated / lined Steel	15200-03	H, 1050	
Caustic Waste	CSW	100, 200	BUR	TSTL	15200-03	H, 150	Epoxy Coated / Teflon Lined Steel
Compressed Air	CA	20	EXP	TSTL	15200-03	H, 600	Epoxy Coated / Teflon Lined Steel for purge piping only.
<b><u>SULPHURIC ACID SYSTEM</u></b>							
Overflow	OF	100	EXP	SST	15200-09	N/A	
Vent	VTA	200	EXP	PVC	15200-10	N/A	
Sulphuric Acid	SCA	25, 40, 50, 75, 100	EXP	SST	15200-09	H, 1050	
Acid Waste	AW	100,200	BUR	TSTL	15200-03	H, 150	Epoxy Coated / Teflon Lined Steel
Compressed Air	CA	20	EXP	TSTL	15200-03	H, 600	Epoxy Coated / Teflon Lined Steel for purge piping only.
<b><u>AQUA AMMONIA SYSTEM</u></b>							
Overflow	OF	100	EXP	SST	15200-09	N/A	
Vent	VTA	150	EXP	PVC	15200-10	N/A	
Aqua Ammonia	AA	25, 40, 50, 75, 100	EXP	SST	15200-09	H, 1050	
Compressed Air	CA	20	EXP	TSTL	15200-03	H, 600	Epoxy Coated / Teflon Lined Steel for purge piping only.

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<b>BUILDING SERVICES</b>							
Domestic Hot/Cold/Recirculating Water	DHW/DCW/DHWR	15, 20, 25, 30, 40, 50, 75	EXP	COP	15200-13	H, 1050	
Plant Service Cold/Tempered Water	PW/PSW	15, 20, 25, 30, 40, 50, 75	EXP	COP	15200-13	H, 1050	
Sanitary Drainage & Vent	SAN	40, 50, 65, 75, 100, 150	EXP/BUR	PVC	15100-01	to NPC	
Stormwater Drainage	SWD	65, 75, 100, 150, 200	EXP/BUR	PVC	15100-01	to NPC	
Hydronic Heating Supply/Return	GHS/GHR	25, 30, 40, 50, 65, 75, 100, 150	EXP	CS	15200-03	H, 1050	
Refrigerant Suction/Discharge	RS/RDIS	6, 10, 15, 20	EXP	COP	15200-13	to CSA-B52	
Low Pressure Steam/Condensate	LPS/LPC	20, 25, 30, 40, 50, 65, 75, 100, 150, 200	EXP	CS	15160	H, 690	
Natural Gas, Exposed	NG	25, 30, 40, 50, 65, 75	EXP	CS	15200-21	to CAN/CSA-B149.1	
Compressed Air	CA	15, 20, 25, 30, 40, 50	EXP	CS	15200-03	H/P, 1050	Pneumatic pressure testing to be used if hydraulic pressure testing is impractical.

**Notes**

- 1) H-Hydraulic; P-Pneumatic
- 2) For pipe material and service exposure abbreviations, refer to Section 15200-00L.
- 3) Buried natural gas pipes shall be wrapped with corrosion protection material in accordance with Canadian Gas Code.