

MECHANICAL SYMBOLS		PIPING LINE TYPES	
PIPING ABBREVIATIONS		PIPING SYMBOLS	
GENERAL: (NAME)E		SHUT-OFF VALVE	
FIRE PROTECTION EXISTING		TWO WAY CONTROL VALVE	
MPS MEDIUM-PRESSURE STEAM		THREE WAY CONTROL VALVE	
LPS LOW-PRESSURE STEAM		CHECK VALVE	
HPC HIGH-PRESSURE CONDENSATE		CIRCUIT SETTER BALANCING VALVE	
MPR MEDIUM-PRESSURE CONDENSATE		BALANCING VALVE	
LPR LOW-PRESSURE CONDENSATE		PLUG VALVE	
PCND PUMPED CONDENSATE		TRIPLE DUTY VALVE WITH PRESSURE PORTS	
FOC FUEL OIL GAGE		STRAINER	
FOS FUEL OIL SUCTON		STRAINER WITH BLOWOFF	
FOR FUEL OIL RETURN		AUTOMATIC SHUT-OFF	
FOV FUEL OIL TANK VENT		RELIEF (R) OR SAFETY (S) VALVE	
AIR CONDITIONING AND REFRIGERATION:		PRESSURE REDUCING VALVE	
SPS CT SPRAY SUPPLY		PRESSURE REGULATING VALVE	
SPR CT SPRAY RETURN		REDUCED PRESSURE BACKFLOW PREVENTER	
EXP EXPANSION PIPING		VACUUM BREAKER	
CWS CONDENSER WATER SUPPLY		PRESSURE RELIEF VALVE	
CR CONDENSER WATER RETURN		GAS COOK	
CHW CHILLED WATER SUPPLY		SIGHT GLASS	
CHWR CHILLED WATER RETURN		WATER HAMMER ARRESTOR	
H HUMIDIFICATION LINE		DIRECTION OF FLOW IN PIPING	
D DRAIN		PIPING REDUCER (WITH DIRECTION OF FLOW SHOWN)	
CHWS CHILLED/HOT WATER SUPPLY		PIPING INCREASER (WITH DIRECTION OF FLOW SHOWN)	
CHWR CHILLED/HOT WATER RETURN		FIRE HYDRANT	
HPC HIGH-PRESSURE CONDENSATE		MANHOLE	
HPR MEDIUM-PRESSURE CONDENSATE		OXYGEN OUTLET	
HPS HIGH-PRESSURE CONDENSATE		NITROUS OXIDE OUTLET	
HWS HIGH-PRESSURE CONDENSATE		MEDICAL AIR OUTLET	
HWR HIGH-PRESSURE CONDENSATE		NITROGEN OUTLET	
G NATURAL GAS		MEDICAL VACUUM OUTLET	
A MEDICAL AIR		WALL FIRE DEPT. CONNECTION	
N NITROGEN		SIDEWALK FIRE DEPT. CONNECTION	
NO NITROUS OXIDE		SPRINKLER HEAD (PENDANT)	
OX OXYGEN		SPRINKLER HEAD (SIDEWALL)	
ACD ACID WASTE OR VENT		SPRINKLER HEAD (UPRIGHT)	
WAG WASTE ANESTHESIA GAS DISPOSAL		PIPE ANCHOR	
CW HARD COLD WATER		ELBOW UP/DN	
GW GREASY WASTE		TEE UP/DN	
		ELBOW UP/DN WITH SHUT-OFF VALVE	
		TEE UP/DN WITH SHUT-OFF VALVE	
		TEE / 90° ELBOW	
		CAP	
		UNION	
		FLANGE CONNECTION	
		SPOOL PIECE, FLANGED	
		AIR VENT, AUTOMATIC	
		AIR VENT, MANUAL	
		AIR SEPARATOR	
		FLEXIBLE CONNECTOR	
		EXPANSION JOINT	
		PIPE GUIDE	
		FLOW METER, ORIFICE	
		FLOW METER, VENTURI	
		PITCH OF PIPE, RISE (R) OR DROP (D)	
		PUMP	
		PUMP SUCTION DIFFUSER	
		STRAINER, DUPLEX	
		PRESSURE/TEMPERATURE TEST PORT	
		RUNNING TRAP	
		THERMOSTATIC STEAM TRAP	
		F&T STEAM TRAP	
		PRESSURE GAUGE	
		PRESSURE GAUGE AND COCK	
		THERMOMETER	
		FLOW SWITCH	
		3"TS-1 FLOOR SINK, SIZE AND TYPE	
		3"TD-1 FLOOR DRAIN, SIZE AND TYPE	
		3"SHD-1 SHOWER DRAIN, SIZE AND TYPE	
		3"RD-1 ROOF DRAIN, SIZE AND TYPE	
		3"ORD-1 OVERFLOW ROOF DRAIN, SIZE AND TYPE	
		H HB HOSE BIBB	
		H WH WALL HYDRANT	
		H V.T.R. MANUAL AIR VENT	
		H V.T.R. VENT THRU ROOF	
		H CO CLEAN OUT	
		H FCO (OR GCO) FLOOR CLEAN OUT (OR GRADE CLEAN OUT)	
		H WCO WALL CLEAN OUT	