

BASIC PLUMBING PIPING

SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION
	STORM DRAIN	SD		2-WAY MOTORIZED VALVE	2WMV
	SANITARY SEWER	SS		3-WAY MOTORIZED VALVE	3WMV
	VENT	V		3-WAY VALVE	3WV
	COMBINATION WASTE AND VENT	CWV		ANGLE VALVE	AV
	GREASE WASTE	GW		BALL VALVE	BV
	ACID DRAIN	AD		BUTTERFLY VALVE	BFV
	ACID VENT	AV		CHECK VALVE	CV
	DRAIN	D		CIRCUIT SETTER	CS
	VENTS FOR TANKS OR EQUIPMENT	EV		FIXED FLOW ORIFICE	FFO
	COLD WATER	CW		GAS COCK	GC
	HOT WATER	HW		GATE VALVE	GV
	HOT WATER RETURN	HWR		GLOBE VALVE	GBV
	DOMESTIC HOT WATER SUPPLY (140° F)			NEEDLE VALVE	NV
	(180° F) SANITIZING HOT WATER	180° S		PLUG VALVE	PV
	(180° F) SANITIZING HOT WATER RETURN	180° R		PRESSURE REDUCING VALVE	PRV
	CHILLED DRINKING WATER SUPPLY	DWS		SOLENOID VALVE	SD
	DISTILLED WATER	DWR		SWING CHECK VALVE	SCV
	CHILLED DRINKING WATER RETURN	DI		UNION	UN
	SUMP PUMP DISCHARGE	SPD		FLOW - IN DIRECTION OF ARROW	
	PITCH DOWN IN DIRECTION OF ARROW			CONCENTRIC REDUCER	
	ROOF DRAIN	RD		90° ELBOW	
	AUXILIARY ROOF DRAIN	ARD		45° ELBOW	
	BACKFLOW PREVENTOR	BFP		BRANCH CONNECTION OUT OF SIDE	
	PIPE ANCHOR	AN		BRANCH CONNECTION OUT OF TWO SIDES	
	PIPE GUIDE	GJ		RISER DOWN (ELBOW)	
	EXPANSION JOINT	EJ		RISER UP (ELBOW)	
	FLEXIBLE CONNECTOR (FLEX. CONN.)	FC		RISER UP (ELBOW)	
	STRAINER-WYE TYPE	STR		BRANCH CONNECTION OUT OF TOP	
	STRAINER-VERTICAL BASKET TYPE	STR		BRANCH CONNECTION OUT OF BOTTOM	
	WATER HAMMER ARRESTOR	WHA		BRANCH CONNECTION OUT OF TOP TO 90° ELBOW	
	PRESSURE GAUGE WITH GAUGE COCK	PG		BRANCH CONNECTION OUT OF BOTTOM TO 90° ELBOW	
	THERMOMETER (STRAIGHT SCALE)	TH		RISER DOWN TO 90° ELBOW	
	AUTOMATIC AIR VENT	AAV		CAP ON END OF PIPE	
	AIR CHAMBER	ACH		PLUMBING RISER NUMBER	
	HOSE BIB	HB			
	VALVE IN CAST IRON BOX				
	VACUUM BREAKER (ELEVATION)	VB			
	TRAP, STEAM OR MOISTURE	T			
	SIGHT GLASS	SG			
	TEST PLUG	TP			

ABBREVIATIONS

DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION
ABOVE FINISH FLOOR	AFF	EXHAUST	EXH	MOUNTED	MTD
AIR FILTER	AF	EXHAUST FAN	EF	OPOSED BLADE DAMPER	OBD
AIR COMPRESSOR	AC	FEET PER MINUTE	FPM	OUTSIDE AIR	OSA
AIR COOLED CONDENSER	ACC	FLOOR CLEANOUT	FCO	PACKAGE TERMINAL AIR CONDITIONER	PTAC
AIR HANDLING UNIT	AHU	FLOOR DRAIN	FD	PLUMBING	PLBG
AMBIENT	AMB	FAN	F	POUNDS PER SQUARE INCH	PSI
AREA DRAIN	AD	FAN COIL UNIT	FCU	PLUMBING FIXTURE	P
AUTOMATIC DAMPER	ADPR	FINISHED TUBE	FT	POWER ROOF VENTILATION	PRV
AUXILIARY ROOF DRAIN	ARD	FIRE DAMPER	F.DPR	PRESSURE DROP	PD
BACK DRAFT DAMPER	BD	FIRE/SMOKE DAMPER (COMBINATION)	FS.DPR	REGISTER	REG
BOILER	B	FLEXIBLE CONNECTION	FLEX CONN	RELATIVE HUMIDITY	RH
BOILER FEED UNIT	BFU	FLOOR	FLR	RETURN AIR	RA
BRITISH THERMAL UNITS	BTU	FLY FAN	FF	RETURN AIR GRILLE	RAG
CAPACITY	CAP	FREEZE PROOF WALL HYDRANT	FPWH	REVOLUTIONS PER MINUTE	RPM
CATCH BASIN	CB	FREEZE PROOF BOX HYDRANT	FPBH	ROOM AIR CONDITIONING UNIT	RAC
CAST IRON	CI	FORWARD CURVE	FC	ROOF DRAIN	RD
CEILING DIFFUSER	CD	FURNACE	FU	SATURATED CONDENSING TEMPERATURE	SCT
CHILLER	CH	GALLON	GAL	SATURATED SUCTION TEMPERATURE	SST
CIRCULATING PUMP	CP	GALLONS PER HOUR	GPH	SMOKE DAMPER	S.DPR
CLEAN OUT	CO	GALLONS PER MINUTE	GPM	SPLITTER DAMPER	SD
CLEAN OUT TO GRADE	COTG	GRAVITY ROOF VENTILATOR	GRV	STAINLESS STEEL	SS
CONVERTOR	C	GREASE TRAP	GT	STATIC PRESSURE	SP
CONDENSING UNIT	CU	HEAT RECLAIM WATER HEATER	HRWH	STEAM	STM
CONNECT	CONN	HEATING COIL	HC	SUPPLY AIR	SA
COOLING COIL	CC	HEATING AND VENTILATING UNIT	HV	SUPPLY FAN	SF
COOLING TOWER	CT	HEATING, VENTILATING & COOLING	HVAC	TEMPERATURE	TEMP
CARBON DIOXIDE	CO ₂	HORSE POWER	HP	THERMOSTAT	TSTAT
CUBIC FEET PER MINUTE	CFM	HOT WATER GENERATOR	HWG	THOUSAND BTU/PER HOUR	MBH
COMB. FIRE, SMOKE DAMPER	FSDPR	HOT WATER STORAGE TANK	HWT	THREE WAY MODULATING VALVE	TWMV
CONDENSATE RETURN	CR	HOSE BIB	HB	TOTAL STATIC PRESSURE	TSP
DAMPER	DPR	HOSE STATION	HS	TOTAL DYNAMIC HEAD	TDH
DESICCANT DEHUMIDIFIER	DD	HUMIDIFIER	H	UNIT COOLER	UC
DETAIL	DTL	INTAKE VENTILATOR	IV	UNIT HEATER	UH
DOOR GRILLE	DG	INVERT	INV	UNIT VENTILATOR	UV
DOWN SPOUT	DS	KILOWATTS	KW	URINAL	UR
DRY BULB	DB	LEAVING AIR TEMPERATURE	LAT	VENT THROUGH ROOF	VTR
DRINKING FOUNTAIN	DF	LEAVING DRY BULB	LDB	WATER HEATER	WH
DUCT HEATING COIL	DHC	LEAVING WATER TEMPERATURE	LWT	WALL CLEANOUT	WCO
EFFICIENT	EFF	LEAVING WET BULB	LWB	WATER CLOSET	WC
ELECTRIC HEATING COIL	EHC	LAVATORY	LAV	WATER PRESSURE DROP	WPD
ELECTRIC WATER HEATER	EWH	LINEAR DIFFUSER	LD	WATER TEMPERATURE DIFFERENCE	WTD
ENERGY EFFICIENCY RATIO	EER	MANHOLE	MH	WATER TEMPERING VALVE	WTV
ENTERING AIR TEMPERATURE	EAT	MAKE-UP AIR UNIT	MAU	WET BULB	WB
ENTERING DRY BULB	EDB	MANUAL DAMPER	MD		
ENTERING WATER TEMPERATURE	EWT	MAXIMUM	MAX		
ENTERING WET BULB	EWB	MINIMUM	MIN		
EXTERNAL STATIC PRESSURE	ESP	MOTOR OPERATED DAMPER	MOD		

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NOTES:

HVAC PIPING

SYMBOL	DESCRIPTION	ABBREVIATION
	GAS - LOW PRESSURE	G
	GAS - MEDIUM PRESSURE	MPG
	GAS - HIGH PRESSURE	HPG
	GAS - LIQUIFIED PETROLEUM	LPG
	COMPRESSED AIR	A
	VACUUM	V
	OXYGEN	O
	HOT WATER SUPPLY, HEATING	HS
	HOT WATER RETURN, HEATING	HR
	CHILLED WATER SUPPLY	CHS
	CHILLED WATER RETURN	CHR
	HOT-CHILLED SUPPLY	HCS
	HOT CHILLED RETURN	HCR
	CONDENSER WATER SUPPLY	CWS
	CONDENSER WATER RETURN	CWR
	STEAM (NO. INDICATES PRESSURE)	S 100
	CONDENSATE RETURN (NO. INDICATES PRESSURE OF SUPPLY)	C 100
	CONDENSATE PUMP DISCHARGE	CPD
	BOILER FEED WATER	BFW
	BLOW DOWN	BD
	FUEL OIL SUPPLY	FOS
	FUEL OIL RETURN	FOR
	HEAT TRANSFER SUPPLY	HTS
	HEAT TRANSFER RETURN	HTR
	REFRIGERANT DISCHARGE	RD
	REFRIGERANT SUCTION	RS
	REFRIGERANT LIQUID	RL

HVAC DUCTWORK

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY UP		FIRE OR SMOKE DAMPER
	RETURN UP		SPLITTER DAMPER AT BRANCH OFF
	SUPPLY DOWN		SPLITTER DAMPER AT TEE
	RETURN DOWN		BULL HEAD TEE W/ TURNING VANES & DAMPERS
	ROUND UP		TAKE OFF W/ EXTRACTOR & MANUAL DAMPER
	ROUND DOWN		RECTANGULAR TRANSITION
	ROUND DUCT BREAK		90° BEND, ROUND DUCT
	RECTANGULAR DUCT BREAK		45° BEND, ROUND DUCT
	DOOR GRILLE		45° RECTANGULAR DUCT
	OPOSED BLADE DAMPER		90° ELBOW W/ TURNING VANE
	PARALLEL BLADE DAMPER		SUPPLY AIR DEVICE
	MANUAL DAMPER		RETURN OR EXHAUST AIR DEVICE
	FLEXIBLE CONNECTION		
	LINED DUCT		

HVAC CONTROLS

SYMBOL	DESCRIPTION	ABBREVIATION
	THERMOSTAT	---
	HUMIDISTAT	---
	CARBON DIOXIDE SENSOR	---

SYMBOL	DESCRIPTION	ABBREVIATION
	CONNECT TO EXISTING AT THIS POINT	---
	KEYED NOTE	---
	REVISION/ADDENDUM CALL-OUT	---
	DIFFUSER CALL-OUT (SEE SCHEDULE SHEET)	---
	DIFFUSER CALL-OUT (SEE SCHEDULE SHEET)	---
	VAV CALL-OUT (SEE SCHEDULE SHEET)	---
	FIRE DAMPER CALL-OUT	F.DPR
	SMOKE DAMPER CALL-OUT	S.DPR
	COMBINATION FIRE/SMOKE DAMPER CALL-OUT	FS.DPR

NOTE: ALL SYMBOLS MAY NOT BE USED.



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