

HVAC ABBREVIATIONS

This diagram illustrates various HVAC duct symbols used in piping and ductwork systems.

- ACCESS DOOR:** A rectangular duct with a horizontal handle at the top labeled "AD".
- FLEXIBLE CONNECTOR:** A duct section with a wavy, flexible joint labeled "FC".
- BREAK-IN ROUND DUCT:** A duct section with a circular opening labeled "AD".
- BREAK-IN RECTANGULAR DUCT:** A duct section with a rectangular opening labeled "AD".
- SUPPLY AIR DUCT:** A duct section with an arrow pointing right labeled "AD".
- SUPPLY AIR DUCT PER PENETRATION:** A duct section with an arrow pointing right labeled "AD".
- SUPPLY AIR DUCT OR RETURN AIR DUCT:** A duct section with an arrow pointing right labeled "AD".
- RETURN EXHAUST OR OUTLET AIR DUCT:** A duct section with an arrow pointing left labeled "AD".
- RETURN EXHAUST OR ROOF PENETRATION:** A duct section with an arrow pointing left labeled "AD".
- RETURN EXHAUST OR OUTLET AIR DUCT:** A duct section with an arrow pointing left labeled "AD".
- VOLUME DAMPER:** A duct section with a square valve labeled "VOL".
- SMOKE/FLUE DAMPER:** A duct section with a square valve labeled "S/F".
- DUCT SMOKE DEFECT:** A duct section with a hole labeled "S/D".
- ATC CONTROL DAMP:** A duct section with a square valve labeled "ATC".
- BAC/RAFT DRAFT DAMPER:** A duct section with a square valve labeled "B/R".
- PIPE DAMPER:** A duct section with a square valve labeled "PD".
- PIPE DAMPER FOR EXHAUST DOOR:** A duct section with a square valve labeled "ED".
- TRANSITION:** A duct section with a curved transition labeled "TRANSITION".
- BRANCH DUCT WITH TOP TANDEM AND VOLUME DAMPER:** A duct section with a top branch and a volume damper labeled "1212T".
- RECTANGULAR DUCT SITE (FIRST FIGURE = WIDTH):** A duct section with a width dimension labeled "1212".
- ROUND DUCT SITE:** A duct section with a diameter dimension labeled "1212".
- ACOUSTICAL LINING:** A duct section with a thick wall labeled "AL".
- EMBODIED DUCT:** A duct section with a thick wall labeled "ED".
- EASING DUCT TO BE REMOVED (DEHC):** A duct section with a thick wall labeled "ED".
- SUPPLY DUCT HUBER:** A duct section with a huber connection labeled "SDH".
- RETURN OR EXHAUST DIFFUSER:** A duct section with a diffuser connection labeled "RD".
- SLOT DIFFUSER:** A duct section with a slot diffuser connection labeled "SD".
- SPARE WALL DIFFUSER:** A duct section with a diffuser connection labeled "SWD".
- 90° RADIUS ELBOW:** A 90-degree elbow duct symbol labeled "90° RE".
- 45° RADIUS ELBOW:** A 45-degree elbow duct symbol labeled "45° RE".
- 90° BOWWORTH TURNING PLATES:** A duct section with two turn plates labeled "90° BB".
- BRANCH DUCT WITH VOLUME DAMPER:** A duct section with a branch and a volume damper labeled "90° BD".
- BRANCH DUCT WITH TURNING PLATES:** A duct section with a branch and turning plates labeled "90° BTP".
- FLEXIBLE DUCT:** A duct section with a flexible joint labeled "FD".

HVAC SYMBOLS - PIPING

This diagram illustrates various HVAC piping symbols, each labeled with its corresponding name:

- TOP TANG-SOFF:** A horizontal pipe segment ending in a vertical T-junction.
- BOTTOM TAKE-OFF:** A horizontal pipe segment ending in a vertical T-junction.
- P-FLOW (FLOW UP):** A horizontal pipe segment with an upward-pointing arrow.
- P-FLOW (FLOW DOWN):** A horizontal pipe segment with a downward-pointing arrow.
- REDUCER:** A symbol showing two pipes of different diameters joined together.
- FLOW DIRECTION:** An arrow indicating the direction of flow.
- S-T:** A symbol representing a supply or return connection point.
- RETURN PIPE:** A horizontal pipe segment with a downward-pointing arrow.
- EXHAUST PIPE (SUPPLY):** A horizontal pipe segment with an upward-pointing arrow.
- EXHAUST PIPE (RETURN):** A horizontal pipe segment with a downward-pointing arrow.
- GAS:** A horizontal pipe segment with a small circle at one end.
- CONDENSATE DRAIN:** A horizontal pipe segment with a downward-pointing arrow.
- REFERRANT HOT GAS:** A horizontal pipe segment with an upward-pointing arrow.
- REFERRANT SIGHT GLASS:** A horizontal pipe segment with a vertical glass tube attached.
- REFERRANT LIQUID:** A horizontal pipe segment with a downward-pointing arrow.
- COLD WATER RETURN SUPPLY:** A horizontal pipe segment with a downward-pointing arrow.
- COLD WATER RETURN:** A horizontal pipe segment with a downward-pointing arrow.
- CONDENSER WATER SUPPLY:** A horizontal pipe segment with an upward-pointing arrow.
- CONDENSER WATER RETURN:** A horizontal pipe segment with a downward-pointing arrow.
- HOT WATER SUPPLY:** A horizontal pipe segment with an upward-pointing arrow.
- HOT WATER RETURN:** A horizontal pipe segment with a downward-pointing arrow.
- LOW PRESSURE STEAM:** A horizontal pipe segment with an upward-pointing arrow.
- VEN (VOLUME PILOT CHARGE):** A horizontal pipe segment with a vertical vessel attached.
- EXPANSION TANK (PILOT CHARGE):** A horizontal pipe segment with a vertical vessel attached.
- 1/2 IN. DRAINE GAS:** A horizontal pipe segment with a vertical vessel attached.
- MAGNA WATER:** A horizontal pipe segment with a vertical vessel attached.
- THERMOMETER:** A horizontal pipe segment with a vertical thermometer bulb attached.
- PRESSURE GAUGE:** A horizontal pipe segment with a vertical pressure gauge attached.
- PRESSURE GAUGE WITH SNABER & GAGE COCK:** A horizontal pipe segment with a vertical pressure gauge and a valve attached.
- PRESSURE GAUGE WITH THERMOCOUPLE:** A horizontal pipe segment with a vertical pressure gauge and a thermocouple probe attached.
- AN VENT WITH SHUT-OFF COCK:** A horizontal pipe segment with a vertical valve and a vent pipe attached.
- GATE VALVE:** A valve symbol with a handle.
- SHUTTER:** A valve symbol with a handle.
- RELIEF VALVE:** A valve symbol with a handle.
- FLUSH VALVE:** A valve symbol with a handle.
- 3-WAY ATCVALE:** A valve symbol with three ports.
- 2-WAY ATCVALE:** A valve symbol with two ports.
- CHECK VALVE:** A valve symbol with a check arrow.
- PRESSURE REGULATING VALVE:** A valve symbol with a handle.
- DRAIN VALVE WITH HOSE:** A valve symbol with a hose attached.
- RELIEF VALVE:** A valve symbol with a handle.
- PIPE DUTY LINE:** A horizontal pipe segment with a vertical line above it.
- BACKFLOW PREVENTER:** A valve symbol with a handle.
- BALANCING VALVE:** A valve symbol with a handle.
- VALVE MEMORY STOP:** A valve symbol with a handle.
- OAS SHUTOFF VALVE:** A valve symbol with a handle.
- STEAM TRAP:** A valve symbol with a handle.
- STRAIGHT:** A horizontal pipe segment.
- STRAIGHT WITH BLOCC-OFF:** A horizontal pipe segment with a堵头 (blocker) symbol at one end.
- WALL END:** A pipe segment ending in a wall symbol.
- FLEXIBLE CONNECTION:** A pipe segment with a flexible joint symbol.
- UP:** An upward-pointing arrow.
- SUPPORT CURB:** A pipe segment with a curb support symbol.
- ANCHOR:** A pipe segment with an anchor symbol.
- SUPPORT CURE WITH:** A pipe segment with a support cure symbol.

COMMON ABBREVIATIONS

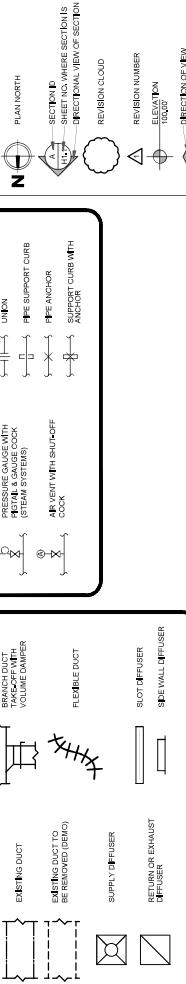
HVAC EQUIPMENT



HVAC SYMBOLS - CONTROLS



COMMON SYMBOLS



DRAWING LIST

