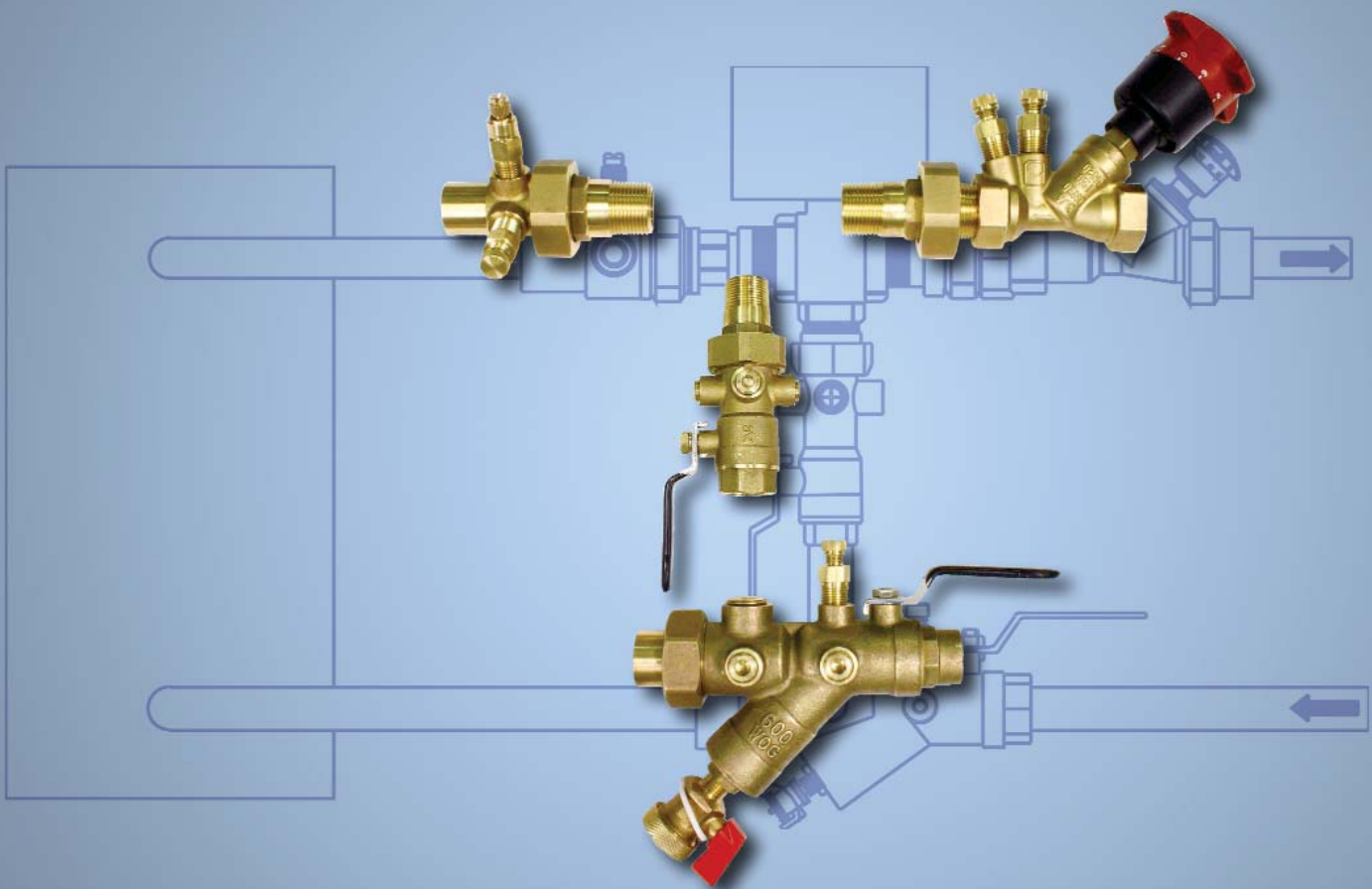


ARMSTRONG



Configured Hydronic Hook-Up Kits

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Traditional HVAC Device Connection

Using traditional connection methods, up to 30 discrete piping components are required to connect each HVAC device to the system. Each component is sourced, evaluated, verified for compatibility, selected, and submitted by the mechanical contractor for engineering approval. The system designer reviews each component for functionality, performance, and system compatibility, duplicating much of the contractor's efforts. On approval, all of the individual components are ordered, possibly from various suppliers. Each component must be identified, labeled, sorted, and hand carried to ensure that it is installed at the intended terminal unit. Installing the discrete components requires as many as 54 on-site connections per HVAC device. Lastly, the system is pressurized and every component connection is checked for leakage.

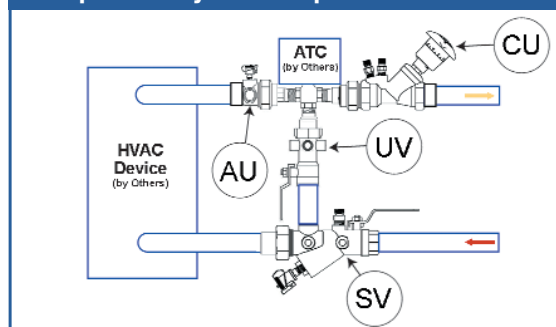
KNX Hydronic Hook-up Kit Solution

Armstrong KNX series Hydronic Hook-Up Kits integrate the components required to connect piping to hydronic heating or chiller system equipment. These kits are available in connection sizes from 1/2" to 2" and are configured to the system designer's specifications. Each kit is tested, bagged, tagged, boxed, and labelled at the factory prior to shipment to the building site.

Pre-engineered, pre-assembled, pre-tested KNX hydronic hook-up kits:

- ▶ Virtually eliminate engineering/compatibility verification effort and issues
- ▶ Reduce the component count per HVAC device by up to 80%
- ▶ Reduce on-site component connections from as many as 54 to as few as 4
- ▶ Ensure the correct components are installed at the correct location in the system
- ▶ Reduce the risk of leaks and post pressure test re-work
- ▶ Speed installation so the HVAC system is operational and the project is completed earlier

Component Layout Example



Component Technical Data

Max. Working Pressure	300 psi (20 bar)
Min. Working Pressure	-5 psi (-0.35 bar)
Max. Fluid Temperature	300°F (150°C) non-boiling
Min. Fluid Temperature	-4°F (-20°C) non-freezing

Component Construction Materials

Component Bodies	Brass
Elastomers	EPDM
Ball Valves	Chrome plated brass
Lever Handles	Chrome plated steel

Components

Model	Description	1/4" NPT Accessory Ports	Connections
SV	Isolation ball valve with integral 20 mesh strainer and union	5	FPT or Sweat
UV	Isolation ball valve with integral union	3	FPT or Sweat
AU	O-Ring style accessory union	2	MPT, FPT or Sweat
CU	ARMflo Circuit Balancing Valve with union adapter	2	FPT or Sweat
CA	ARMflo Circuit Balancing Valve with accessory union	4	FPT or Sweat

1/4" NPT Accessories (apply to components above)

Model	Description	Function
PT	PT Port	Temporary measuring instrument probe insertion
MV	Manual Air Vent	Entrapped air expulsion for start-up / servicing
DV	Drain Valve with hose connection and cap	System drainage or strainer blow-down
P0	1/4" Brass Plug	Seals any unused 1/4" NPT accessory ports

Options

Accessory Extensions	Brass 1/4" MPT x FPT extensions ease accessory access through pipe insulation
Handle Extensions	Enable SV or UV handle extension through pipe insulation
SS Flex Hoses	EPDM with stainless steel braided jacket, fire-rated Fixed MPT by swivel or union MPT connections 24" (61 cm) or 36" (91 cm) overall lengths Maximum working pressure up to 300 psi (20 bar)

Refer to Armstrong's ACE (web-based) software for engineering specifications, drawings and other details.

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