

Mechanical Quick Start Guide

Important! Read this first!

The manuals (IOM's) supplied with all Armstrong products contain important installation and operating instructions. Adhere to ALL the product specifications, safety tips, cautions and warnings appearing throughout the manual. Failure to do so may result in reduced product performance. More seriously, it may cause property damage, personal injury, production down-time and other losses. All valves and actuators are shipped factory set to the customers requirements specified at time of purchase. Shipping notes attached to valve and actuator assemblies describe port configuration and valve zero positions. Warranty registration offers many benefits to the end customer, please visit: armstronginternational.com for more information.

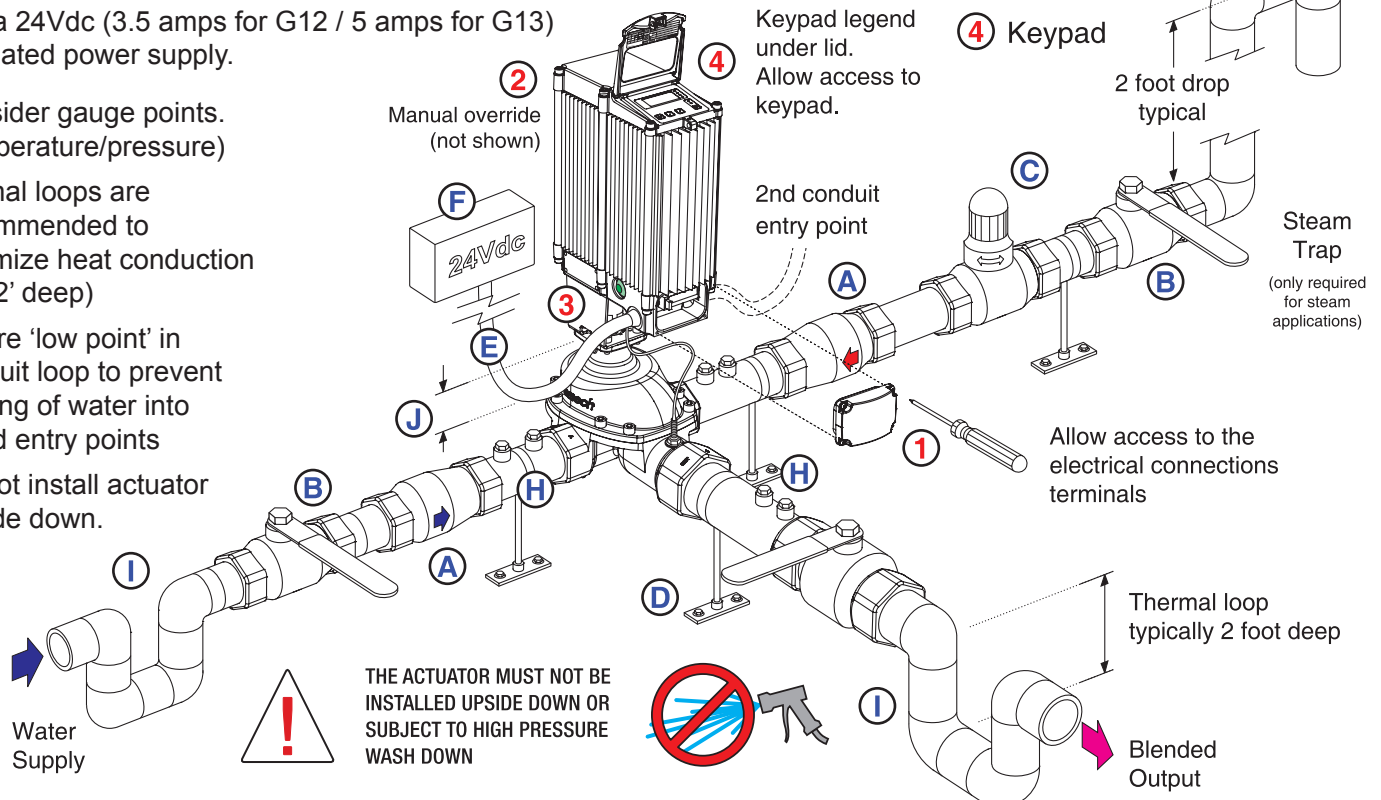
Step 1: Location Considerations

Ensure the installation location offers suitable access to (1) the electrical connection terminals, (2) manual override handle, (3) actuator power switch, (4) display and keypad.

Do not install the actuator near or in high pressure wash down areas. The units must NOT be installed upside down.

Step 2: Recommended Installation

- (A) Check valves (poppet style for steam, swing style for water) MUST be fitted upstream of the valve inlet ports.
- (B) Isolation valves are RECOMMENDED on the supply lines.
- (C) Armstrong recommends a pressure regulating valve to reduce excessive supply pressures (a throttle valve may suffice). See IOM for commissioning details.
- (D) Ensure pipe work is adequately supported.
- (E) Ensure mechanical protection of the wiring to the unit. It is RECOMMENDED to use screened conduit or cables.
- (F) Use a 24Vdc (3.5 amps for G12 / 5 amps for G13) regulated power supply.
- (H) Consider gauge points. (temperature/pressure)
- (I) Thermal loops are recommended to minimize heat conduction (typ 2' deep)
- (J) Ensure 'low point' in conduit loop to prevent leading of water into gland entry points
- (K) Do not install actuator upside down.



Step 3: Operation

DO NOT EXCEED THE RATED VALVE BODY PRESSURE or TEMPERATURE LIMITS:

Valve	Temperature		Pressure (g)	
	° C	° F	Bar	psi
F2, F3	-25* to 125*	-13* to 257*	10	145
F5	-29* to 232*	-20* to 450*	10	145
F4	-25*	-13*	19	276
	93	200	16.2	235
F8T	125*	257*	15.4	223
	-25* to 38	-13* to 100	15.9	230
	93	200	13.4	195
	125*	257*	12.7	183

(See IOMs for specific trim limitations)

(* is standard trim temperature limits)

Start Up Procedure	
1	Ensure all supplies are isolated
2	Turn ON unit
3	Open COLD isolation valve
4	Open STEAM / HOT isolation valve
5	Open OUTLET isolation valve
NOTE: Reverse procedure to Shut Down	



④ Keypad