



Series ACV and ASCV Control Valves

For Steam or Water Service

1/2", 3/4", 1" and 1-1/2"

Installation and Maintenance

IB-58-A

These installation, operation and technical instructions should be used by experienced personnel as a guide to ensure that Armstrong's Control Valves function in a correct manner. Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact your local representative or Armstrong if further information is required.

For Steam Service

For best operation, maximum service life and simplified maintenance, Armstrong suggests the following steps. Install a shut-off valve, a strainer and a trap upstream of the control valve. Use a full-ported type valve to avoid restricting flow of the unit. One preferred method is to use an inverted bucket steam trap connected to the blowdown of the strainer.

Before installing the control valve, blowdown the piping that leads to the valve using full line pressure.

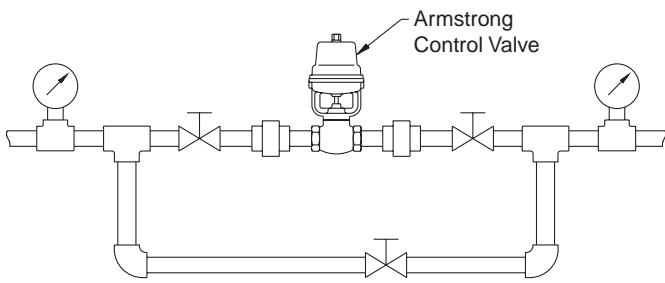
Install a union downstream of the control valve.

Maintenance

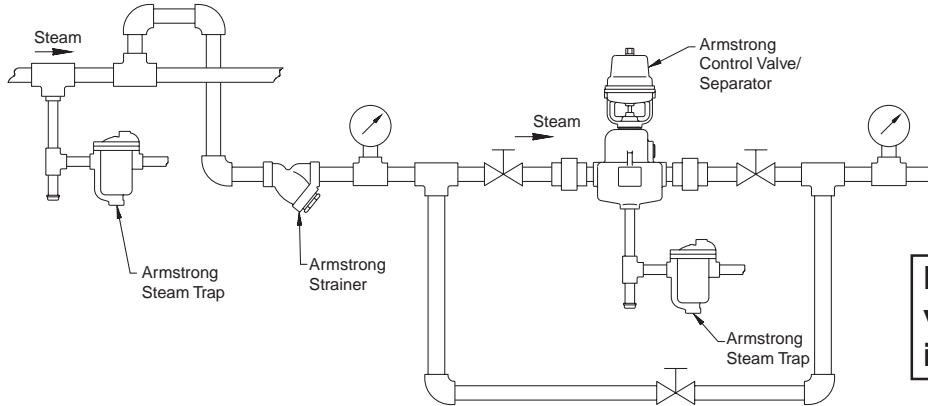
Armstrong control valves are designed for easy maintenance. They can be serviced without removing the body from the line. The repair of control valves may require the replacement of valves and seats, the reconditioning of the operator, or both. To minimize downtime, you may wish to maintain a spare operator.

Physical Data	
Model Number	Pipe Size (in)
Control Valve	
ACV-02	1/2"
ACV-03	3/4"
ACV-04	1"
ACV-06	1-1/2"
ECV-02	1/2"
ECV-03	3/4"
Control Valve/Separator	
ASCV-02	1/2"
ASCV-03	3/4"

Installation Bulletins for Operators and Valve and Stem Assemblies	
Operator	IB No.
Armstrong C-1801	IB-53-A
Honeywell MP953 D/F	IB-52
Sauter AV42P10	IB-63
Honeywell M9182A	Form 63-2191
Belimo NVF-24-MF-USE	E20222
Belimo AF24SR	D20230



Note: The Armstrong ECV and ACV control valves are suitable for a variety of fluid control services. When installing the control valve be certain that the direction of flow conforms to the direction of the arrow stamped into the casting and that the maximum operating pressure (MOP) of the valve is adequate for the installation.



For water service, the valve must be piped in reverse.

Control Valve Rangeability (Normally Closed Valves)																	
Control Valve Model	Valve		Rangeability		Standard Operators												
	Equivalent Diameter		Ratio of Flow Max:Min	Flow Coefficient CV	AM C-1801	INAM MK4411 & MK4421		HAM MP953D		HAM MP953F		BNVEM NVF24		HEM M9182A		BLEM AF24SR	
	in	mm			Maximum Operating Pressure, psig (bar)												
			psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	
CV-06	1-1/2	38	63:1	27	N/A	N/A	25	1.7	150	10.3	N/A	100	6.8	100	6.8		
	1-1/4	32	69:1	21													
	1-1/8	28	61:1	19.5													
	1	25	53:1	18													
	7/8	22	44:1	16													
CV-04	3/4	20	33:1	13	N/A	N/A	70	4.8	150	10.3	60	4.1	150	10.3	150	10.3	
	1	25	53:1	13													
	5/8	16	25:1	8.5													
	9/16	14	105:1	7													
	1/2	15	97:1	6													
CV-03	7/16	11	75:1	5	80	5.5	80	5.5	80	5.5	150	10.3	60	4.1	150	10.3	
	3/4	20	118:1	7.5													
	5/8	16	123:1	6.5													
	9/16	14	105:1	6													
CV-02	1/2	15	97:1	4	150	10.3	150	10.3	150	10.3	150	10.3	60	4.1	150	10.3	
	7/16	11	75:1	3.5													
	3/8	10	70:1	3													
	5/16	8	49:1	2.5													
	1/4	6	31:1	1.7													
	3/16	5	18:1	0.9													
	1/8	3	37:1	0.45													
1/16	1.5	10:1	0.09														