



# ARMSTRONG PISTON VALVES THE IDEAL ISOLATION VALVE





### Description

Armstrong Piston Valves are full port forged steel isolation valves with a maximum operating pressure of 1973 psig/136 Barg and a maximum operating temperature of 800°F/427°C. The burnished piston and metal reinforced graphite rings provide leak-proof shut off and allow Armstrong Piston Valves to be operated at higher temperatures, while also extending operating life.

Armstrong Piston Valves are available in Socket Weld, BSPT, and NPT end connections. Flanged ends can be supplied upon request.

Armstrong Piston Valves are ideal for saturated and superheated steam, and hot water applications.

#### Armstrong Piston Valves Feature:

- · Leak-proof isolation
- Sizes from 1/2"/15mm to 1-1/2"/40mm
- · Choice of socket weld or threaded connections
- · Compatible with ASME, IBR, and DIN standards
- Resistant to cavitation
- · All sealing valve components may be easily replaced in-line
- Long-term operation. Piston valve design ensures actuation even after many years without operation
- Fire-proof performance





Armstrong International

## **Armstrong Piston Valves**





Forged Piston Valves ANSI Class 800												
Size		Body Material	L		Н		D		CV	Bolting Type	Approximate Weight	
in	mm	-	in	mm	in	mm	in	mm			lbs	kg
1/2"	15	A105/LF2	3.9	100	5.3	134	3.7	93	2.8	4B - SE/SW	4.2	1.9
3/4"	20	A105/LF2	4.7	120	5.5	138.5	3.7	93	4.9	4B - SE/SW	7.5	3.4
1"	25	A105/LF2	5.3	135	7.2	183	4.4	112	8.7	4B - SE/SW	10.6	4.8
1-1/2"	40	A105/LF2	7.3	185	8.9	226	4.4	112	21.1	4B - SE/SW	25.4	11.5

### Design Features Forged Steel Piston Valves Class 800

End Connections *	Maximu	n Pressure	at Tempe	rature	Maxir	num Temper	Hydro Test Pressure at Ambient Temperature			
	psig	barg	°F	°C	°F	°C	psig	barg	psig	barg
Socketweld ends	1973	136	100	38	800	427	1100	75.8	2962	204.3

\* Other end connections may have restricted pressure and temperature ratings due to applicable standards.

### **Design features of Armstrong Piston Valves:**

Materials of Construction					
Body and Bonnet	ASTM A105N / A350 LF2 Forged Steel				
Spindle	SS T304				
Ring Valve	SS T3016 + Graphite				
Piston	SS 17-4 PH				
Spacer	CA 40				
Belleville Washer	ASTM A231				
Name Plate	SS 304				

### **Design Standards**

- ASME (B16.34, B16.5)
- IBR 1950
- DIN (3202, 10226-1)
- Inspection and testing (API 598)
- Leak test (ANSI/FCI 70-2)
- Fire test (API SPEC 6FA : 1999)



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