

Dunn's Valve Testers Inc.

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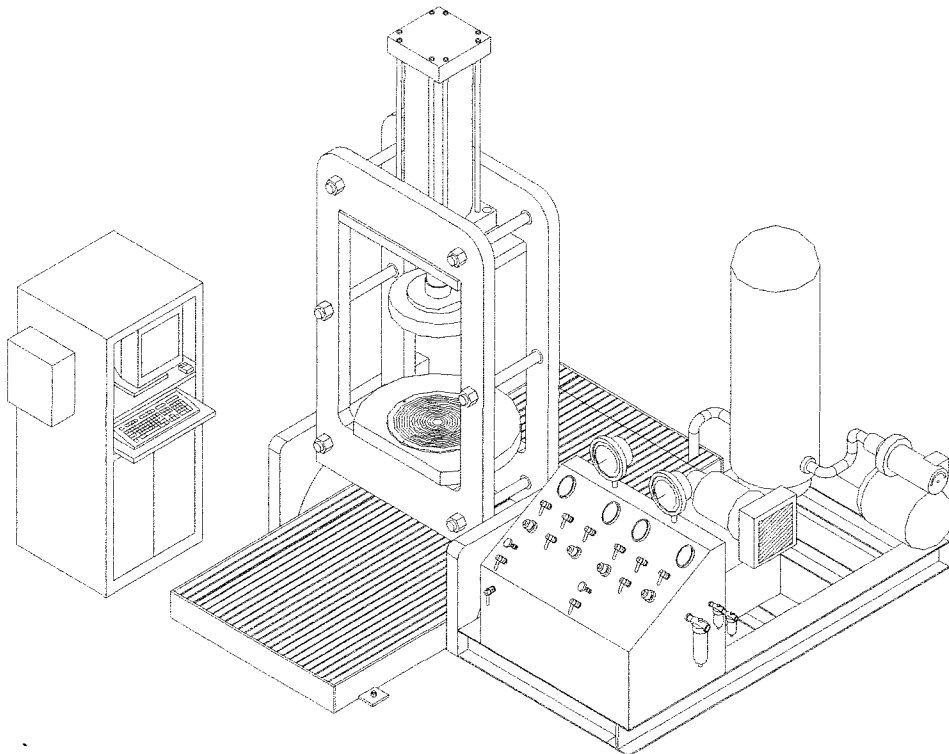
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Model 010-117/010-HD/009-75

Technical Specifications

Vertical Press Type Valve Testers with Dual
Test System and Optional Water Recycling



Theory of Operation

The 010/009/004 machines are Vertical Press type valve testers. They have the advantage of testing flanged valves in the very efficient *Press Mode*. These machines also have the added capability, when equipped with the optional adapters, of testing *Butt-Weld, Socket-Weld, or Threaded End* valves. The press system may be closely controlled to eliminate all excess end load, and all tests may be performed on either/both ports and the shell in one clamping step. This is a simple, efficient, versatile, safe and self-contained unit, which requires no additional equipment or adapters to test its entire range of capability safely.

Hydraulic System

The Hydraulic System includes the Clamp Cylinder, LP Hydraulic Power Unit, HP Pump System, and the Controls to operate the system. This system provides rapid advance/retract for the cylinder and produces the clamping force required to seal the valve under test.

❖ Hydraulic Press System

➤ Cylinder

- Heavy Duty, 150 Ton (010-HD), 117 Ton (010-117) or 75 Ton (009-75)
- 10,000 psi (150 Ton), or 3000 psi (117 Ton, 75 Ton)
- 32" Stroke (150 or 117 Ton) or 28" Stroke (75 Ton)

➤ Hydraulic Power Unit

- 5 HP, TEFC, 3 Ph., 220/440 Volt, 50/60 Hz, Electric Motor
- Pressure Compensated, 28 GPM, 1000 psi max, Pump, for LP rapid advance/retract
- 20 Gallon reservoir, return filter, cooler, relief valve, and sight glass
- Air driven 0-10,000 (010-HD) or 0-3000 (010-117/006P/005P) psi reciprocating pump

Dual Test System

The Dual Test System provides the capability to perform hydrostatic and/or air tests on either/or both ports and the shell in one clamping step. This standard system is 0-3000 psi. The optional 0-6000 psi system for 900 and 1500 psi class is available at no extra charge. For 2500 Class valves a 10000 psi system is available for an extra charge. Monitor gauges for the top, bottom and pump are mounted in the panel. The System includes gauge ports for both sides, with isolation valves. These ports are furnished with quick disconnects and a range of Test Gauges, depending on the maximum test pressure. This system also provides the capability to perform "Pressure Decay" leak detection. This procedure involves the pressurization of either port or the shell. Once the pressure is confined in the valve, it is monitored with the test gauge. When a non-compressible fluid is confined to a closed space under pressure, even very small leaks will be evident due to the corresponding large decrease in the monitored pressure.

Optional Water Recycling System

The water recycling system includes the Sump located beneath the clamp assembly and the Water Pump system. This system provides the ability to recycle the test fluid, which reduces plant effluent and allows the addition and re-use of fluid additives such as corrosion inhibitors and anti-freeze.

❖ Sump

- ½" Carbon steel plate construction 40 Gallon Maximum capacity
- 1" Galvanized grate walk-way for the operator

❖ Water Recycling System

- 42 Gallon epoxy lined suction tank
- ½ HP 125/220 1 Ph. 60 Hz Electric motor
- 615 GPH Max pump with 6 gallon pre-charged accumulator tank

Model 010-117 (117 Ton Press Capacity)

SIZE	ANSI PRESSURE CLASS						
	150	300	400	600	900	1500	2500
2	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*
6	*	*	*	*	*	*	
8	*	*	*	*	*		
10	*	*	*	*			
12	*	*					
14	*	*					
16	*						

010-HD (150 Ton Press Capacity)

SIZE	ANSI PRESSURE CLASS						
	150	300	400	600	900	1500	2500
2	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*
8	*	*	*	*	*	*	
10	*	*	*	*	*		
12	*	*	*	*			
14	*	*					
16	*	*					
18	*						
20	*						

Model 009-75 (75 Ton Press Capacity)

SIZE	ANSI PRESSURE CLASS						
	150	300	400	600	900	1500	2500
2	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*
4	*	*	*	*	*	*	
6	*	*	*	*	*		
8	*	*	*	*			
10	*	*					
12	*						
14*	*						

14" Option Available

DUNN'S VALVE TESTERS, INC.

CUSTOMER LIST

CUSTOMER	DATE	MODEL	SER.	CAPACITY	TYPE OF PLANT	CITY
Unicornio	10/13/00	V009	529	16"	Refinery	Tampico
Cadez	01/31/02	V009	550	16"	Refinery	Mexico
Cadez	01/31/02	V009	551	16"	Refinery	Mexico
Cadez	01/31/02	V009	552	16"	Refinery	Mexico
Cadez	01/31/02	V009	553	16"	Refinery	Mexico
Cadez	01/31/02	V009	568	16"	Refinery	Mexico
Cadez	01/31/02	V009	569	16"	Refinery	Mexico
Bambang	06/2007	V009	627	12"	Manufacturer	Singapore
Techo Corporation	01/26/93	V009-2	337	16"	Valve Manufacturer	Erie
Cooper Cameron	12/2006	V009-S	628	12"	Valve Rebuilder	Ponca City, Ok.
Zidell	07/25/90	V010	266	25 Ton	Valve Manufacturer	Houston
Foster Valve	09/11/98	V010	477	16"	Valve Manufacturer	Houston