

**Dunn's Valve Testers Inc.**

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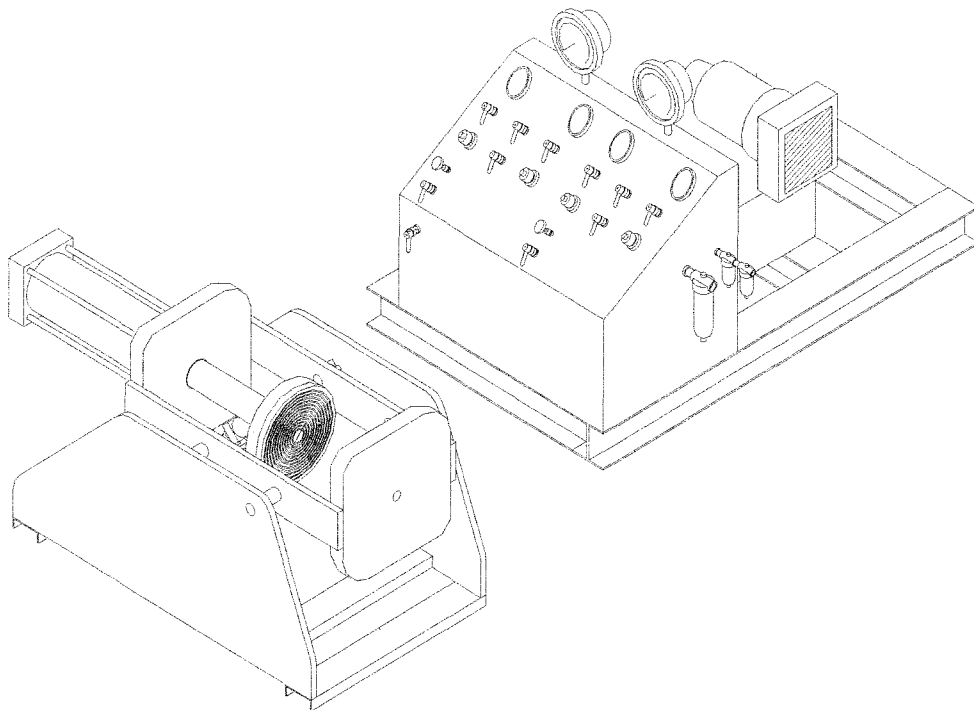
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# **Model CV 005/011/011HD Technical Specifications**

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Tilting Press Type Valve Testers with Optional  
Dual Test System



## Hydraulic System

The Hydraulic System includes the Clamp Cylinders, Hydraulic Pump System, and the Controls to operate the system. This system provides rapid advance for the cylinders and produces the clamping force required to seal the valve under test.

### ❖ Hydraulic Press System

#### ➤ Cylinder

- Heavy Duty, 150 Ton (CV 011HD), 117 Ton (CV 011) or 75 Ton (CV 006)
- 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 (CV 011HD) or 0-3000 (CV 006/CV 011) psi reciprocating pump

### ❖ Hydraulic Tilt System

#### ➤ Cylinder

- Heavy Duty, 2" Clevis Mounted
- 3000 psi
- 20" Stroke

## Standard Control Valve Test System

The standard test system is configured for control valves. This system allows for performing hydro-shell and seat tests on one side with water as well as the standard allowable leak-rate tests on the closure with air. The tester is designed to be loaded in the horizontal position and tilted to the vertical position for efficient filling with water for the shell and/or seat tests. The machine then is returned to the horizontal position for air seat/allowable leak tests with air. This system also includes a range of flow meters.

## Optional Dual Test System

The Optional 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 Pump 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

# Capacity

Model CV 011 (117 Ton Press Capacity)

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

Model CV 011HD (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 CV 005 (75 Ton Press Capacity)

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

# DUNN'S VALVE TESTERS, INC.

## CUSTOMER LIST

CUSTOMER	DATE	MODEL	SER.	CAPACITY	TYPE OF PLANT	CITY
Shell Oil Company	07/19/88	CV005	200	12"	Refinery	Deer Park
Zoltek	06/13/94	CV005	361	12"	Valve Manufacturer	St. Louis
September	12/31/96	CV005	444	12"	Valve Distributor	Houston
Clif Mock Dresser	08/27/98	CV005	480	12"	Valve Rebuilder	Bakersfield
PML	02/16/00	CV005	522	12"	Valve Rebuilder	San Fernando
Team Industrial Service	01/23/06	CV005	609	12"	Valve Rebuilder	Pearland, Tx.
Cajun Valve	01/2007	CV005	623	14"	Manufacturer	Lake Charles, La
Waskita USA, Inc.	02/2007	CV005	624A	12"	Manufacturer	India