



# AXILINE VBT 8000

DIGITAL VALVE BODY TESTER



## COMPACT DESIGN

Provides portability and saves floor space



## FINE-TUNE TESTING

Adjust duty cycles and frequency ranges of each individual solenoid

# THE INDUSTRY STANDARD

The innovative Axiline® VBT 8000 by Power Test sets the standard for testing today's advanced valve bodies. Its revolutionary design and industry leading software and data acquisition packages also give it the ability to test individual solenoids or solenoid packs, an industry first. By simulating the toughest driving conditions using the same regulated pressure and heated oil as seen under normal operating conditions, the Axiline® VBT 8000 accurately and efficiently confirms your rebuild. It also allows you to fine tune the valve body to your specifications by adjusting the duty cycles and frequency ranges of each individual solenoid. This ensures fewer come backs and reduced testing time once the valve body is installed in the transmission, saving you time and money. Equipped with PowerNet Ax Data Acquisition

and Control system the VBT 8000 meets the demands and budgets of the single bay transmission repair shop and high-volume OEM contractors alike. The available adapter plates (116 in total) give the VBT 8000 a staggering 45 more applications than its closest competitor, plus, we're constantly designing new plates to meet current demand. Additionally, Answermatic and Hydratest plates can be used on the VBT 8000. Its compact size (nearly half that of some competing models) and easy portability coupled with Axiline's® legendary reputation for transmission testing excellence has made the Axiline® VBT 8000 the only choice among professional transmission rebuilders all over the world.

## STANDARD FEATURES

- Tests electronic and hydraulic valve bodies and solenoids
- 1,000 psi at 8 gpm available test pressure
- PID Control loops control tests to system Pressure or Flow
- PowerNet AX software system standard for advanced testing capabilities
- Fully digital display
- Articulating operator station adjusts for different users – also slides well out of the way during valve body install
- Clear, hinged lid with easy access panels ensure operator can visually monitor testing process
- Uses the same regulated pressure and heated oil found under normal operating conditions
- Exposes problems caused by small cracks, imperfections and excessive valve wear
- Removable sides for easy access and maintenance
- Automated solenoid resistance tests and auto-cycle feature to ramp solenoids to user defined duty cycles
- Compact, portable design saves valuable floor space
- Over 116 adapter plates available – new plates developed frequently

# FEATURES THAT MATTER

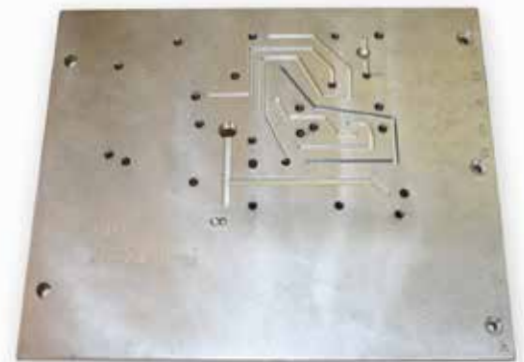


## Built To Last

The Axiline VBT 8000 was built to provide years of service under the toughest conditions. The fully welded powder coated frame protects the 7.5 HP, 8GPM pump that give the VBT 8000 a pressure capacity of 1,000 PSI at 8 GPM ensuring you can fully test the largest valve bodies. The stainless steel tank won't rust and the fully enclosed, heated oil reservoir has a sight gauge for monitoring fluid levels in the system. On/off and e-stop are located within arms reach in front of the operators console. Quick access panels make for easy maintenance.

## Precision Machined Plates

Power Test offers 116 precision machined valve body plates to ensure you can test modern late model valve bodies. Development is ongoing to release new applications to keep our customers at the forefront of valve body and transmission remanufacturing. If our plate list on pages 10-11 does not show the plate you are looking for, give us a call at (262) 252-4301, we may already be developing what you are looking for and if not we will add it to our development list.

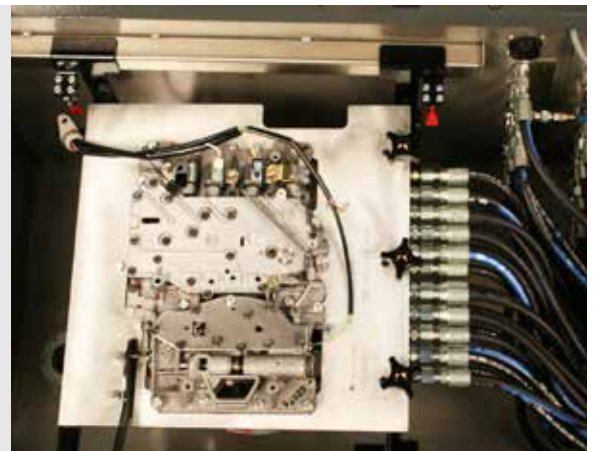


## Built-In Safety Features

The Axiline VBT8000 tank is topped with a clear lexan cover so the operator can see what is happening in the cabinet while testing. A gas shock holds the lid open so your hands are free to work on the valve body. An interrupt switch automatically turns the oil supply off to the valve body whenever the lid is open preventing operators from being sprayed with hot oil. Sliding access panels in the lid allow for access to the cabinet when the lid is closed.

## Room To Work

The large test cabinet provides plenty of room to install plates and connect the TCM harness. Once the plate and valve body are installed, PowerNet AX allows users to set each solenoids duty cycle and time then it ramps each solenoid to their preset duty cycle in the number of seconds defined in the cycle. During the auto cycle system pressure and flow are displayed in the gauges on screen.





# OPTIONAL EQUIPMENT



## Allison Governor Option

Allison governor control option is available for the Allison AT, MT & HT valve bodies for independent RPM control of the governor speed. The VBT 8000 feeds the governor transmission fluid allowing it to synchronize the shift points on the valve body.

## Hydromatic Governor Option

The governor control option shown here with the red and blue knobs adds to the versatility of the VBT 8000 allowing it to still test older Turbo Hydromatic transmissions.



## Auto-Shift Actuator

Auto shift option includes linear actuator and software controls for automatic shifting of valve body.

## More Options Available:

- Profiler (Solenoid Calibration)
- Hydraulic clamping for bolt free valve body installation in high-volume test environments
- Vacuum Pull Device

*Machines equipped with PowerNetAX include second 32in. LED monitor and full data acquisition and analysis features for automated testing and reporting.*



## SPECIFICATIONS

Stainless Steel

|                     |  |
|---------------------|--|
| Tank Construction   | Max: 17.5 gal (66 liters) Usable: 8.8 gal (33 liters)  |
| Tank Capacity       | 52" L x 60" H x 66" W (132 cm x 152 cm x 168 cm)   |
| Dimensions          | Dry: 600 lbs. (272 kg) Wet: 700 lbs. (318 kg)  |
| Weight              | 7.5 hp (5.6 kW)  |
| Motor               | 8 GPM (30.3 LPM)   |
| Pump                | 1,000 psi (6895 kPa)   |
| Max System Pressure | 129 micron suction filter, 10 micron pressure side filter  |
| Filtration          | 3 kW   |
| Heater              | Option 1: 480 volt 3-phase, 20 amps<br>Option 2: 240 volt 3-phase, 35 amps<br>Option 3: 380 volt 3-phase, 25 amps<br>Option 4*: 220 volt 1-phase, 50 amps<br>*Option 4 requires 5 HP motor |
| Power Requirements  |  |

## WE MAKE IT BETTER

The Axiline line of valve body test stands offer transmission remanufacturers unmatched features. The Axiline VBT-8000 accomodates more transmission applications than the next closest competitors combined and cover the range of light, medium, heavy and extreme duty transmissions like the X-1100. Plus, in the rare event you have an application that we don't, we'll develop it at your request. Don't chance your quality reputation with whoever remanufactures your valve bodies, put Axiline test stands in your shop and take control of your quality and bottom line.



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# POWERNET AX DATA ACQUISITION SOFTWARE

PowerNet, the trusted name for reliable data acquisition and control systems, is now offering a comprehensive product for automotive transmission testing systems. With full shifting capabilities without the need for an accessory shift cart, this software dramatically improves your testing capabilities in an easy-to-use, modern, software profile.

PowerNet AX utilizes a Windows-based computerized data acquisition system to monitor and record speeds, torque, pressures, temperatures, flow rates and shift events. Beyond these advanced monitoring and recording capabilities, this system allows users to run automated test procedures guaranteed consistent repeatability over time and providing a record of performance parameters over time. The interface is easily configurable with customizable set-points, high/low limits, and generated reports.

What sets PowerNet AX apart, though, is its advanced ASC Controller add-on designed to control electronically shifted transmission or valve bodies. What previously required an auxiliary shift console, can now be accomplished through your system-mounted data acquisition console eliminating costs, floor-space, and promoting ease of use for your operating technicians.

## SYSTEM OVERVIEW

### Main Display

Contains the readings for all available visible sensors. Sensor parameters and configurations can be modified from this window and it is used to open and save Templates, DataSpaces, and exit the program.

### TD Controller Interface

Provides essential control functions for the dyno. This window identifies active load control mode and the current set-point. Allows users control using the mode buttons and the input box directly from the interface.

### Pattern Runner Interface Window

This program interface allows the user to create, load, save, and execute Patterns. Patterns are tests that are designed to run in a specific order.

### ASC Controller Interface

This add-on program is designed to control electronically shifted transmissions or valve bodies independent of auxiliary shift consoles or control software.

### Equipped to Monitor & Record:

- ▶ Speeds
- ▶ Torque
- ▶ Pressures
- ▶ Temperatures
- ▶ Flow Rates
- ▶ Shift Events



# AXILINE VBT 8000 PLATE LIST



|             |             |
|-------------|-------------|
| 125-C/3T40  | POWER GLIDE |
| 200-4R      | 4L30-E      |
| 440-T4/4T60 | TAAT SATURN |
| 700-R4/4L60 | 4T80-E      |
| 325 4L      | 4T40-E      |
| 200C        | 4T65-E      |
| 400         | Saturn CVT  |
| 180         | 5L40E       |
| 4T60-E      | 6T40/45     |
| 4L80-E      | 4F50N       |
| 350         | 6L80        |
| 4L60-E      | 6T70/75     |



|                 |                 |
|-----------------|-----------------|
| ATX             | 4R44E/4R55E     |
| FIOD/AOD        | AX4N            |
| C6              | CTX             |
| AXOD '87 UP     | AX4S '98 & UP   |
| A4LD            | 5R55N           |
| C3              | 5R55W, 5R55S    |
| E40D            | 4F27E           |
| AXOD-E          | 5R110W          |
| AOD-E           | AS68RC          |
| F4EAT / F4E-III | 4F50N           |
| C4              | 4F20-E VILLAGER |
| CD4E            |                 |



|                     |
|---------------------|
| 404/413/470         |
| 904/727/A-500/A-518 |
| A-604/40TE          |
| A617                |
| A-606/42LE          |
| AS68RC              |
| 45RFE               |
| 62TE                |



|            |                 |
|------------|-----------------|
| AW 55-50SN | 371             |
| 50/40      | AW 14/20 AW 50- |
| 60/40      | 42LE            |



|            |        |
|------------|--------|
| VW 010     | 09D    |
| PASSAT 096 | TF81SC |
| 09G/K/M    | TF80SC |
| VW 01M     |        |



|              |                  |
|--------------|------------------|
| ZF 4HP-22EH  | ZF4HP-18         |
| ZF 4HP-14/18 | ZF5HP-30         |
| ZF 4HP20     | ZF 5HP19-FL Audi |
| ZF 4HP24     | ZF 5HP24         |
| ZF5HP-18     | ZF 6HP26         |



|               |           |
|---------------|-----------|
| KM 170 SERIES | RL402A    |
| ALPHA A4AF1   | F4A 41/51 |
| SCOUPE        |           |



|             |              |
|-------------|--------------|
| A-40 SERIES | A-540        |
| A-340E      | U140/240/241 |
| A-130/140   | U340/341     |



|               |             |
|---------------|-------------|
| 654CR         | WT/MD/HD    |
| LTC 1000/2000 | Military    |
| VR 731RH      | Off-Road    |
| 3000 Series   | 4000 Series |
| AT/MT/HT      |             |



|       |       |
|-------|-------|
| 722.3 | 722.5 |
| 722.4 | 722.6 |
| 720.5 | 722.7 |



|                    |        |
|--------------------|--------|
| RL3F01A            | JF403E |
| JATCO O/D (N4A-EL) | JF404E |
| RL4F02A/RE4F02A    | 506E   |



RENAULT

|             |      |
|-------------|------|
| Renault DPO | 4141 |
| MB / MJ     | AR4  |



|             |                  |
|-------------|------------------|
| RE4R03A/01A | RE4F04 A/V QUEST |
| RL4F03A     |                  |

## AVAILABLE MECHATRONIC APPLICATIONS

### General Motors

- 6L50
- 6L80
- 6L90
- 6T40
- 6T45

### General Motors / Ford

- 6T70

### Nissan

- RE50R5A

# We Make It Better

## Who We Are

Power Test, Inc. is an industry leader in the design, manufacture and sale of dynamometers, heavy equipment testing systems and related data acquisition and control systems. For nearly 40 years, Power Test has provided specialized test equipment to manufacturers, rebuild facilities and distributors in the mining, oil & gas, power generation, marine, trucking, construction, rail and military markets in over 80 countries on 6 continents. Our headquarters and manufacturing operations are located in Sussex, WI with sales representatives worldwide.

## How We Work

The Power Test team of innovative engineers, designers, software developers and sales consultants will SOLVE YOUR CHALLENGES with logical solutions. Our skilled machinists, fabricators, electronic technicians and assemblers build products to meet your unique needs. Our technical service experts are dedicated to working with you, anywhere and anytime. They travel the globe to ensure your equipment is running right and your staff is trained to operate it. Our exceptional product life and manufacturing expertise made us an industry-leading dynamometer manufacturer, as evidenced by our first machine sold, which is still in active use today!



**Power Test Incorporated**

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