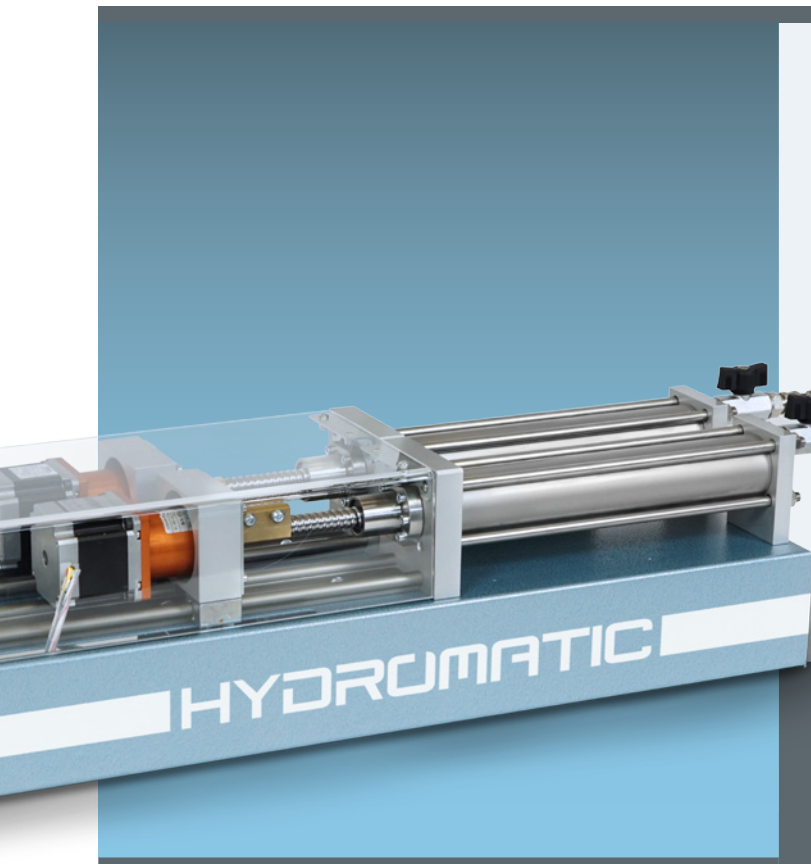


HYDROMATIC

Pressure/volume controllers



HYDROMATIC

- Four models are available depending on:
 - Max. pressure capacity: 3500 kPa or 1700 kPa
 - Number of pressure lines: one or two
- Generates water pressure regulated under closed-loop control up to 3500 kPa or 1700 kPa
- Powers up to two hydraulic pressure lines and measures both the associated volume changes
 - Measure pressure and volume change with high-resolution, respectively 0.1 kPa and 0.001 cc
 - High volume capacity 250 cc
 - Easily installed vertically or horizontally
 - No air compressor required

AUTOTRIAX2

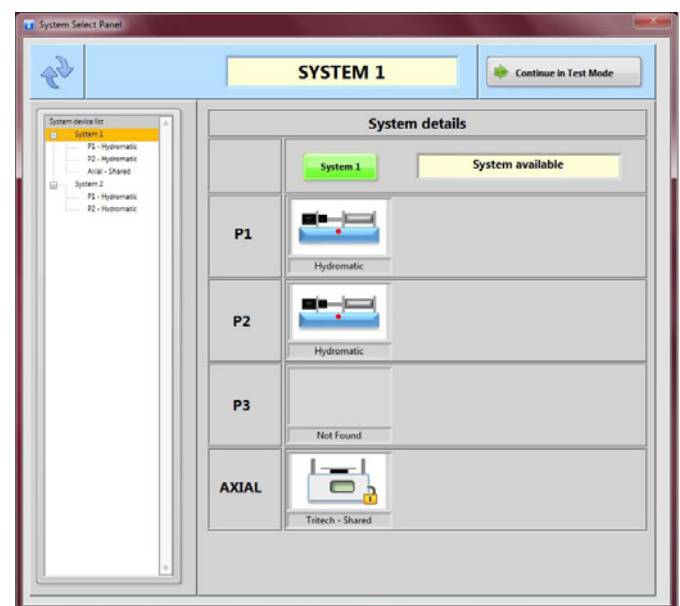
The Hydromatic is used to generate water pressure in and around the test specimen. It is driven by a high precision stepper motor, which enables the volume change measurement. The unit consists of a hydraulic piston, driven by a ball-screw and gearbox, mounted on a low friction-slide, and works accurately under closed-loop control.

Four models are available depending on:

- Max. pressure capacity: 3500 kPa or 1700 kPa
- Number of pressure lines: one or two.

For a standard effective stress system, one Double line Hydromatic units is required - one line is used for the cell pressure and the other for the back pressure.

A typical use of a single line Hydromatic is as additional line for permeability test in triaxial cell. Pressure transducer and de airing block are included. The status of the unit is continuously monitored by the AUTOTRIAX 2 software and safety switches prevent the over-travel and/or over capacity. All the Hydromatic models also include the ON/OFF solenoid valve(s) which shall be fitted on the triaxial cell for opening and closing the line.



System configuration with two pressure/volume controller Hydromatic 2

Code	29-WF43SA	29-WF43DA	29-WF45SA	29-WF45DA
N of pressure line	One	Two	One	Two
Max pressure [kPa]	1700		3500	
Pressure res. [kPa]	0.1			
Volume capacity [cc]	250			
Volume res. [cc]	0.001			
Dimension (l x h x w) [mm]	860x200x150	860x200x200	860x200x150	860x200x200
Weight approx. [kg]	10	18	10	18



Hydromatic on/off valve de-airing block with pressure transducer, mod. 29-WF4502/B

Ordering information

29-WF43SA

HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers one hydraulic pressure line and measures the associated volume change.

- max pressure: 1700 kPa
- pressure resolution: 0.1 kPa
- volume capacity: 250cc
- volume resolution: 0.001cc
- LAN connection

Supplied with on/off valve, pressure transducer and de-airing block.
110-240V, 50-60Hz, 1 ph

29-WF43DA

HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers two hydraulic pressure lines and measures the associated volume changes.

- max pressure: 1700 kPa
- pressure resolution: 0.1 kPa
- volume capacity: 250cc each
- volume resolution: 0.001cc
- LAN connection

Supplied with two on/off valves, two pressure transducers and de-airing blocks.

110-240V, 50-60Hz, 1 ph

29-WF45DA

HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers two hydraulic pressure lines and measures the associated volume changes.

- max pressure: 3500 kPa
- pressure resolution: 0.1 kPa
- volume capacity: 250cc each
- volume resolution: 0.001cc
- LAN connection

Supplied with two on/off valves, two pressure transducers and de-airing blocks.

110-240V, 50-60Hz, 1 ph

29-WF45SA

HYDROMATIC pressure/volume controller for AUTOTRIAX 2 system. Powers one hydraulic pressure line and measures the associated volume change.

- max pressure: 3500 kPa
- pressure resolution: 0.1 kPa
- volume capacity: 250cc
- volume resolution: 0.001cc
- LAN connection

Supplied with on/off valve, pressure transducer and de-airing block.
110-240V, 50-60Hz, 1 ph

Accessories

29-WF4334

Water distribution panel for automatic triaxial testing

29-WF4191

Nylon tubing 6 mm bore x 8 mm outside diameter, 10 meter length

29-WF6302/A

Pressure transducer 3500 kPa capacity for pore water pressure

29-WF6301/A

Pressure transducer 2000 kPa capacity for pore water pressure

Hydromatic are used as pressure/volume controller in the AUTOTRIAX 2 automatic triaxial systems

