

HPC500, System E

- EXX/0 to 700 bar (10,000 psi)

This system consists of an HPC calibrator together with a rugged, hydraulic, high pressure pump.



System E is an easy-to-use calibration system. The hydraulic pump makes it very easy to prime the system. The calibrator can be adjusted to fit the best viewing angle. The system includes a manifold for connection of two test devices and the fine adjustment volume adjuster is standard.

The System E comes in a carrying case with cut-outs for fittings and the complete assembled calibration unit - no time adder to assemble the unit before use. Easy and fast connection between pump and calibrator makes it easy to use the pressure calibrator separately for other pressure test jobs.

AMETEK high pressure hydraulic oil pump for system E

The hydraulic pump is designed for high pressure applications. The pump has a 4-connection output manifold and a fine adjustment volume adjuster.

Pressure range	0 to 700 bar (10,000 psi)
Type.....	Hydraulic
Test medium.....	Oil
Operation.....	Jack pump
Reservoir capacity.....	500 cl / 1 pint
“O”-rings	Buna-N
Wetted parts.....	Aluminum, brass, stainless steel
Connection to test object.....	4 x 1/4” BSP female
Size.....	36.5x20.0x14.2 cm / 14.4x7.9x5.6 in
Weight	5.3 kg / 11.6 lb

Included with System E delivery

- HPC standard delivery (see page 6)
- Hydraulic pump
- 10 x 1/4” bonded seals
- Allen key 6 mm
- 2 x 1/4” NPT female adapters
- 1 roll of Teflon tape
- Volume adjuster for fine adjustment
- Protective carrying case

Accessories

- Volume adjuster for fine adjustment
- 1.5 m Pressure hose, (Max. 700 bar/10,000 psi)¹
- 5 m Pressure hose, (Max. 700 bar/10,000 psi)¹
- Quick connector set, female 1/4”BSP to 1/4” BSP
- Connections for APM H/S pressure modules
- Fitting 1/4” BSP male x 1/4” BSP male for APM-S pressure module with system E
- Fitting 1/4” BSP male to 1/4” NPT female for APM-H pressure module with system E
- Fitting 1/8” NPT male to 1/4” NPT male for APM-H pressure module with system E
- Fitting 1/4” NPT male to 1/4” BSP female for APM-S pressure module with system E
- Fitting 1/8” NPT male to 1/4” BSP female for APM-H pressure module with Jack-pump alone

¹ 1/4” BSP female to 1/4” BSP male

HPC500, System F

- FOx/0 to 700 bar (10,000 psi) oil
- FWx/0 to 700 bar (10,000 psi) water



System F is an easy-to-use calibration system. The hydraulic pump makes it very easy to prime the system. The pump contains 1.23 l of liquid.

The system includes a manifold for connection of two test devices and the volume adjuster for fine adjustment is standard. System F comes in a protective carrying case with cut-outs for fittings. Easy and fast connection between pump and calibrator makes it easy to use the pressure calibrator separately for other pressure test jobs.

The pump is designed for high pressure applications up to 15,000 psi (1,000 bar). The pump and system may be ordered with either oil or a water/alcohol mixture as pressure medium. The pump is constructed of 300 series stainless steel and Monel allowing for the use of other hydraulic media. There are three available seal packages for the system: Buna-N, Viton®, and EPT.

Type T pump for system F

The Type T pump features a dual pressure output manifold, volume adjuster (up to 200 bar / 2,900 psi), relief valve, and dual volume control for rapid pressure increase at lower pressures and easier pumping at higher pressures.

Pressure range	0 to 1,000 bar (15,000 psi)
Type.....	Hydraulic
Test medium.....	Hydraulic oil, water
Operation.....	Jack pump
Reservoir capacity.....	1.23 l / 2.6 pint
“O”-rings	Buna-N (standard) or EPT/Viton (Optional)
Wetted parts.....	Stainless steel, Monel
Connection to test object....	1/4” and 1/2” BSP terminations 1/4” and 1/2” PT female terminations
Size.....	79.4x22.9x50.8 cm / 31.3x9x20 in
Weight	9.1 kg / 20 lbs

Included with System F delivery

- HPC standard delivery (see page 6)
- Hydraulic pump
- 2 x 1/4” bonded seals
- Allen key 6 mm
- 1 roll of Teflon tape
- Protective carrying case

Accessories

- 1.5 m Pressure hose (Max. 700 bar/10,000 psi)¹
- 5 m Pressure hose (Max. 700 bar/10,000 psi)¹
- Oil for T-620 & T-1 pump AAA OIL in 1-GALLON CAN
- Oil for T-620 & T-1 pump AAA OIL in 1-QUART CAN
- Connections for APM H/S pressure modules
- Union Body 1/4” NPT female for manifold pump T
- Fitting 1/8” NPT male to 1/4” NPT male for APM-H pressure module
- Fitting 1/4” NPT male to 1/4” NPT male for APM-S pressure module

¹ 1/4” BSP female to 1/4” BSP male