

Tamed by Technology, Driven by Pressure & Powered by Values



About Us

"Engineering without imagination is just 'Calculation'. Welcome to K.Mass, where we Engineer Art."

At K.Mass, we manufacture a wide range of Standard as well as custom-built Test Equipment for all types of Industrial Valves. Built-in with Liquid, Gas & Vacuum Test Systems; these Test Benches are versatile and can simulate testing requirements of Valve Manufacturers, End-Users as well as the Service Industry.

OUR PRODUCTS

Valve Test Bench (Standard & Custom-built)

- → Safety Relief Valve Test Bench
- ⇒Breather Valve Test Bench
- → Control & Shut Off Valve Test Bench (Vertical/Horizontal)
- → Control & Shut Off Valve Test Bench (Tilting)
- → Combination Valve Test Bench
- → Multi-Port Test Benches (for Manufacturers)

Test System Accessories

- → Test Media Prefilling & Recirculation System
- → API Digital Laser Bubble Counter
- → PC based Data Acquisition System
- → HP Utility Air Supply System
- → Air Operated Liquid Power Packs
- → Air Operated Gas Power Packs
- → Containerized Onshore Valve Test & Repair Workshops (10 ft / 20ft / 40 ft)
- → Containerized Offshore Valve Test & Repair Workshops (10 ft / 20ft)

OUR SERVICES

Training Programmes

- →Installation & Commissioning Training in works & Supervision at site
- →Operation, Scheduled Maintainence & Troubleshooting Training in works & at site





Safety & Relief Valve Test Bench - Single Port

CLAMPING SYSTEM (2 OPTIONS)

A 3-Jaw, Spring Energized, Piston type, Mechanical Manual Auto Clamping System

SIZE RANGE

Flanged Valves 1/2" to 16" Screwed Valves 1/4" to 2-1/2"

STAINLESS STEEL FLUID DRIP TRAY

Below Clamping System to collect Liquid spillage & route to drain or recirculate

ALL WETTED PARTS IN STAINLESS STEEL

For System Durability and a corrosion free Test Environment.

RIGID CARBON STEEL BASE SKID

With Aluminium Chequered Plate Flooring for Modular Integration of Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.

LIQUID TEST SYSTEM

Up to 100 / 200 / 400 / 689 bar

GAS TEST SYSTEM

Up to 10 / 100 / 200 / 345 / 400 bar

ERGONOMICALLY DESIGNED CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level & Controls at Shoulder Level



A 3-Jaw, Unilateral, Proportional

Hydraulic Clamping System

with Safety Interlock

For cleaning of Valves & Test Equipment during & after Liquid Testing.

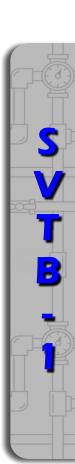






With Transparent Lexan Polycarbonate (Unbreakable) Shield For Safety against Accidents







Safety & Relief Valve Test Bench - Double Port

CLAMPING SYSTEM (2 CLAMPING STATIONS WITH 2 OPTIONS)

A 3-Jaw, Spring Energized, Piston type, Mechanical **Manual Auto Clamping System** A 3-Jaw, Unilateral, Proportional **Hydraulic Clamping System** with Safety Interlock

ERGONOMICALLY DESIGNED CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level & Controls at Shoulder Level

SIZE RANGE

Flanged Valves 1/2" to 16" Screwed Valves 1/4" to 2-1/2"



circulate

ALL WETTED PARTS IN STAINLESS STEEL

For System Durability and a corrosion free Test Environment.

RIGID CARBON STEEL BASE SKID

With Aluminium Chequered Plate Flooring for Modular Integration of Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.



Below Clamping System to collect Liquid spillage & route to drain or re-

LIQUID TEST SYSTEM

Up to 100 / 200 / 400 / 689 bar

GAS TEST SYSTEM

Up to 10 / 100 / 200 / 345 / 400 bar

SAFETY SCREENS

AIR GUN

For cleaning of

Valves & Test Equipment during & after Liquid Testing.

With Transparent Lexan Polycarbonate (Unbreakable) Shield For Safety against Accidents







Breather Valve Test Bench

ERGONOMICALLY DESIGNED CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level &

Controls at Shoulder Level

VALVE TEST BENCH

®K.MASS

LP AIR CONTROLS

CLAMPING SYSTEM

A 6-Jaw (2 Sets of 3 Jaws),
Manual Mechanical Clamping System



For Precision Read-Outs

DIGITAL MANOMETER

For Digital Output

LOW PRESSURE
GAS TEST SYSTEM

Up to 5 / 7 / 10 bar

VACUUM TEST SYSTEM
Up to -5 / -7 / -9 psi



RIGID CARBON STEEL BASE SKID

With Aluminium Chequered Plate Flooring for Modular Integration of Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.



SAFETY SCREEN

With Transparent Lexan Polycarbonate (Unbreakable) Shield For Safety against Accidents





Control, Shut Off & Safety Valve Test Bench - Vertical

CLAMPING SYSTEM (DUAL CLAMPING SYSTEM)

A 3-Jaw, Unilateral, Proportional Hydraulic Clamping System with Safety Interlock

SIZE RANGE

Flanged Valves 1/2" to 16" Screwed Valves 1/4" to 2-1/2"



AIR GUN

For cleaning of Valves & Test Equipment during & after Liquid Testing.

STAINLESS STEEL FLUID DRIP TRAY

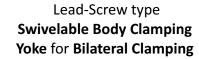
Below Clamping System to collect Liquid spillage & route to drain or recirculate

ALL WETTED PARTS IN STAINLESS STEEL

For System Durability and a corrosion free Test Environment.

SAFETY VALVE TESTING

The Swivelable Body Clamping Yoke enables testing of Safety Relief Valves which require clearance on the top



ERGONOMICALLY DESIGNED CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level & Controls at Shoulder Level



LIQUID TEST SYSTEM

Up to 100 / 200 / 400 bar

GAS TEST SYSTEM

Up to 10 / 200 / 400 bar



With Transparent Lexan Polycarbonate (Unbreakable) Shield For Safety against Accidents

RIGID CARBON STEEL BASE SKID

With Aluminium Chequered Plate Flooring for Modular Integration of Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.





Control & Shut Off Valve Test Bench - Horizontal

<u>CLAMPING SYSTEM</u>
A Compression Type,

Bilateral Hydraulic

Proportional Clamping System

ERGONOMICALLY DESIGNED CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level & Controls at Shoulder Level

LIQUID TEST SYSTEM Up to

100 / 200 / 400 bar

GAS TEST SYSTEM

Up to 10 / 200 / 400 bar

RIGID CARBON STEEL BASE SKID

With Aluminium Chequered Plate Flooring for Modular Integration of Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.

SAFETY SCREEN

With Transparent Lexan
Polycarbonate (Unbreakable) Shield
For Safety against Accidents

SIZE RANGE

Flanged Valves 2" to 16"

DEDICATED STANDALONE HYDRAULIC POWER PACK

With PLC Controlled Motor, Dual Gear Pump System & Pressure Control Switching Module - for a reliable & trouble-free Clamping arrangement.



AIR GUN

For cleaning of Valves & Test Equipment during & after Liquid Testing.

CLOSED LOOP LIQUID PRE-FILLING & RE-CIRCULATION SYSTEM

For quick pressurization, air removal & reuse of the Liquid Test media.





Control & Shut Off Valve Test Bench - Tilting

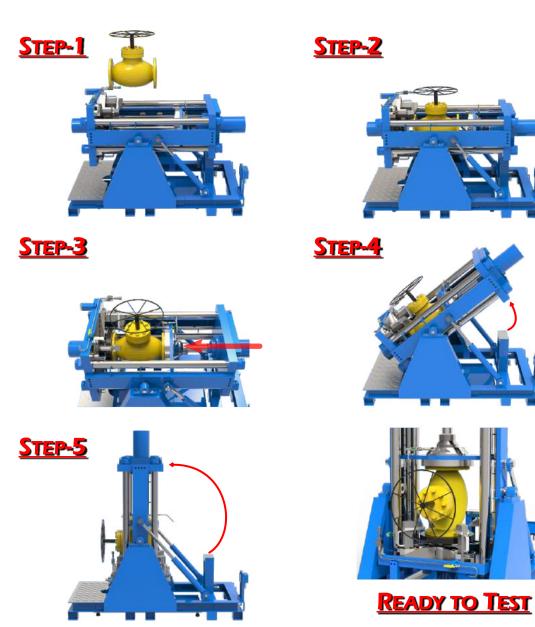


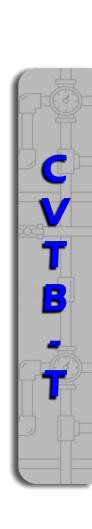


Control & Shut Off Valve Test Bench - Tilting

Valve Clamping Procedure on the Tilting System









Combination Valve Test Bench (Type-1)



AIR GUN

For cleaning of Valves & Test Equipment during & after Liquid Testing.

SAFETY VALVE TEST PORT



ERGONOMICALLY DESIGNED COMMON

INDEPENDENT CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-Outs at Eye level & Controls at

Shoulder Level

CONTROL & SHUT OFF VALVE TEST PORT

SIZE RANGE

Flanged Valves 1" to 16"

CLAMPING SYSTEM

(DUAL CLAMPING SYSTEM)

A Compression Type, **Bilateral Hydraulic Proportional Clamping** System

A 3-Jaw, Unilateral, Proportional Hydraulic **Clamping System** with Safety Interlock



A 3-Jaw, Unilateral, Proportional Hydraulic **Clamping System** with Safety Interlock

LIQUID TEST SYSTEM

Up to 100 / 200 / 400 bar

GAS TEST SYSTEM

Up to 10 / 200 / 400 bar



DUAL SAFETY SCREENS

With Transparent Lexan Polycarbonate (Unbreakable) Shield For Safety against Accidents



ALL WETTED PARTS IN STAINLESS STEEL

90° Tilting (Rotating)

Clamping System

with Precision

Controls, for easy

Loading & Unloading

of Valves

For System Durability and a corrosion free Test Environment.

CLAMPING SYSTEM (2 OPTIONS)

MODULAR CARBON STEEL BASE SKIDS

With Aluminium Chequered Plate Flooring for Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.





Combination Valve Test Bench (Type-2)

ERGONOMICALLY DESIGNED COMMON

INDEPENDENT CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read-

Outs at Eve level & Controls at Shoulder Level

BREATHER VALVE TEST PORT

CLAMPING SYSTEM SIZE RANGE A 6-Jaw (2 Sets of 3 Jaws),

Manual Mechanical Clamping System

Flanged Valves 2" to 24"

LOW PRESSURE GAS TEST SYSTEM

Up to 5 / 7 / 10 bar

VACUUM TEST SYSTEM

Up to -5 / -7 / -9 psi

LIQUID TEST SYSTEM Up to 100 / 200 / 400 bar

> **HIGH PRESSURE GAS TEST SYSTEM**

Up to 100 / 200 / 400 bar

DUAL SAFETY SCREENS

Polycarbonate (Unbreakable) Shield For Safety against Accidents

With Transparent Lexan

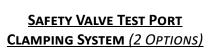
MODULAR CARBON STEEL BASE SKIDS With Aluminium Chequered Plate Flooring

For System Durability for Clamping System & Control Panel, and to allow easy movement for Installation & Relocation.

AIR GUN

For cleaning of Valves & Test Equipment during & after Liquid Testing.





A 3-Jaw, Spring Energized, Piston type, Mechanical Manual **Auto Clamping System**

A 3-Jaw, Unilateral, Proportional **Hydraulic Clamping System** with Safety Interlock

SIZE RANGE

Flanged Valves 1/2" to 16" **Screwed Valves** 1/4" to 2-1/2"



ALL WETTED PARTS IN STAINLESS STEEL

and a corrosion free Test Environment.



Multi Port Valve Test Bench (for Manufacturers)

MULTIPLE TEST PORTS



With Test Result Analysis & Data Acquisition System

AIR GUN

For cleaning of Valves & Test Equipment during & after Liquid Testing.

ALL WETTED PARTS IN STAINLESS STEEL

For System Durability and a corrosion free Test Environment.



Hose Test Rig

AIR ACTUATED FRONT ACCESS DOOR WITH TRANSPARENT LEXAN (UNBREAKABLE) POLYCARBONATE WINDOW SHEILDS

For clear visibility of Test Specimen & to protect the operator from exposure to any accidental outburst.

HOSTATIC - 10000

ERGONOMICALLY

INTEGRATED ADJACENT CONTROL PANEL

For Operator Safety & Optimal Performance with Instrument Read

Outs at Eye level and Controls at Shoulder Level



PLC SYSTEM WITH CUSTOM PROGRAM

For Pump Control & Electronic Over Pressure Protection



Inside the Test Chamber for clear visibility of the test article while testing.

ALL STAINLESS STEEL TEST CHAMBER

For rust prevention, durability and integrity of the system.

STAINLESS STEEL WATER RESERVOIR

With Filler Cap, Level Gauge, Suction Strainer, Discharge Strainer & Drain Valve



HOSE TEST RIG

For quick filling of Test Hoses with water and removal of Air Pockets before pressurization.

AIR OPERATED RECIPROCATING HIGH PRESSURE PUMP

For easy, safe, trouble-free & precise pressurization of Multiple Test Hoses.



SIMULTANEOUS TEST ENABLED

For 4 to 6 Nos Hoses with Individual Isolation & Pressure Read-Out





Containerized Valve Test & Repair Workshops

CERTIFIED TRANSPORTABLE CONTAINERS

Custom fitted with Valve Test & Repair **Equipment along with Standard** workshop Tooling & Utilities



With Single Point Utility Supply inlets, these Workshop Containers are completely piped, wired & assembled for easy operation & maintenance.



10 FT WORKSHOP CONTAINERS With Single Port Test Units



20 & 40 FT WORKSHOP CONTAINERS With Double & Multi-Port Test Units



Containerized Valve Test & Repair Workshops



Lifting arrangement in the four upper corners & Fork-lift pockets at the



Work Benches for streamed workflow & Storage Cabinets for Documents.



Shock Resistant ~ Anti Skid - Rubber
Flooring for a safe work environment



Swivelable Hoists for easy Valve Lifting & Handling



Lexan Polycarbonate Safety Screens for Operator Safety from Accidents.



Separate Instrument & Electrical Control Panels for Safety



Custom designed Tool Rack with CNC Precision cut Foam Inserts for Tools.



Built-in racks for Accessories like Flanges, Adaptors, Clamps & Hoses



Installed with workshop equipment like Table Vice & Chuck Vice





Containerized Tool-Room Workshops



Tool Room Workshops, with all necessary Hand Tools, Measuring Instruments & Power Tools.



Cast Iron Surface Plates for Precision Measurements.



Heavy Duty, Lockable, Overhead Storage Compartments.



5 & 7 Drawer Customized, Heavy Duty, Lockable Tool Racks.



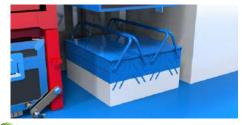
CNC Precision Cut Inserts for all types of Hand Tools.



CNC Precision Cut Inserts for all typesMesuringInstruments.



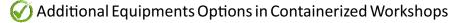
Custom Designed Cosanta Power Tool Boxes with Swivel Castors.



Portable Tool Boxes to collect Tool assortments for site.



Split Type HVAC System with secured Indoor & Outdoor Unit mounting.





AIR COMPRESSOR



WELDING MACHINE



SHOT BLASTING



MILLING MACHINE



MAGNETIC DRILL



LATHE MACHINE



Containerized Workshop - Compliances

OFFSHORE WORKSHOPS

- Available in 10 Feet & 20 Feet Versions
- Certified to DNV 2.7-1 for Offshore container Compliance.



Supplied with an option for ATEX (Explosion Proof) Electrical for Offshore Compliance.



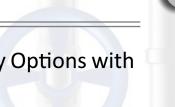
ONSHORE WORKSHOPS

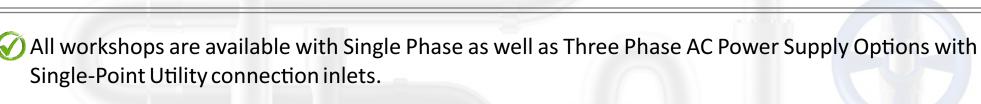
- Available in 10 Feet, 20 Feet & 40 Feet Versions
- Certified by American Bureau of Shipping for CSC Compliance.



Supplied with Standard (IP 65) Electrical for Weather proofing.



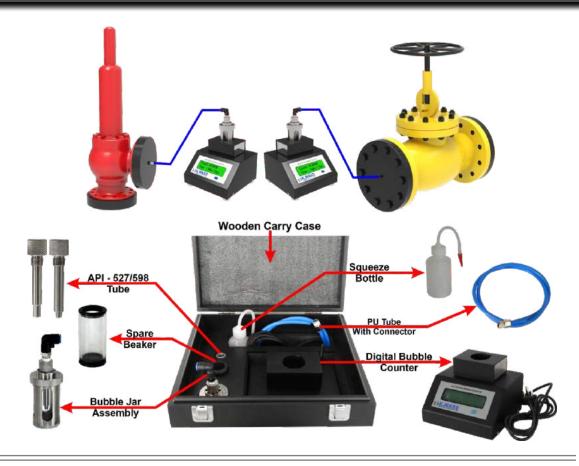






API Digital Bubble Counter (Test System Accessory)





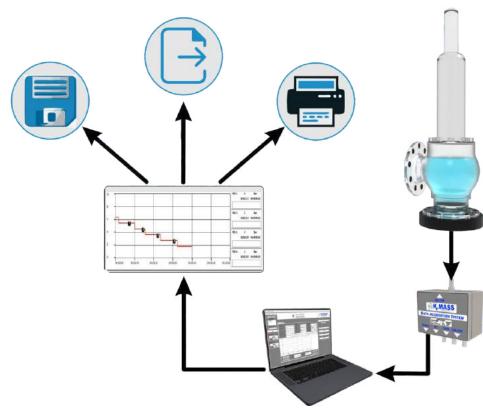
- Enables user to perform seat leak test accurately & with ease, without any tedious manual counting procedure. A standalone system which is connected to the discharge side of the valves by means of quick push type fittings and a PU tube.
- Complies with API-527 as well as API-598 Seat Leak Test procedure & sizing.

- No pre-set limits on the test duration or maximum bubble count.
- RS 485 Communication port with Modbus RTU for Remote switch & Data Acquisition.
- Supplied in a wooden carry case with all accessories as a ready to us package.



Data Acquisition System (Test System Accessory)



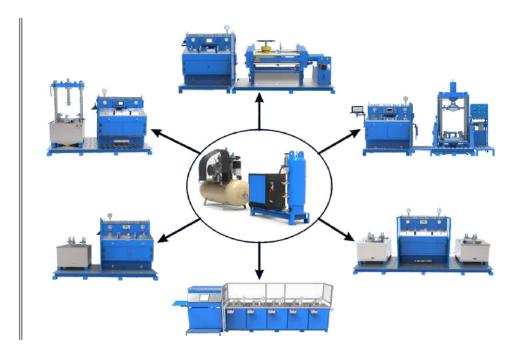


- A PC based recording system which operates thru windows based Custom designed software that displays a real time online Pressure Vs Time Graph & predefined Data Input fields.
- Records the entire test and generates certificates for tests executed with any high pressure or Vacuum system.
- Dedicated Data Logger Hardware Unit in accordance with IP 65/67 & Capable of Logging Test Data from up to four input channels, either simultaneously or one at a time.
- Available in both Laptop as well as Industrial Touch Panel PC based variants, to facilitate on site as well as workshop testing.



HP Utility Air Supply System (Test System Accessory)





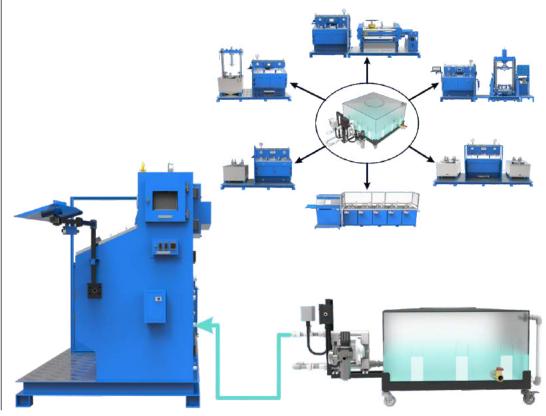
- Oesigned to cater to the Drive Air & Pre-charged Air requirement of the Liquid & Gas Boosters installed in all K.Mass Valve Test Equipment.
- Makes the Test Bench Systems self-sufficient and independent, requiring just a Power & Liquid source to ensure a trouble free operation.
- A Ready to use System with in-built Controls with no site assembly required besides Interconnection of Hoses & Utility Power Connections.

- Multiple Utility Outlets for Various Utility requirements of different Test Units.
- Installed with a Refrigerant Air Dryer to provide Cool & Dry Air to Boosters.
- Automatic On/Off function with a dedicated Pressure Switch.
- Supplied as a complete package with all Interconnecting Valves & Hoses



Portable Liquid Pre-Filling System (Test System Accessory)





- Configured with a High Output Pump, to enable the user to Pre-Fill the Test Valves with Liquid Test Media & Remove Air Pockets prior to Testing, thus reducing the total pressurization time to a great extent.
- Carbon Steel Trolley Frame with a rigid structure, installed with Swivel type Castor Wheels to ensure portability & easy movement of the System.
- Y-Type Strainers at suction and discharge ends of the Reservoir to remove any contaminations.
- Option to recirculate the depressurizing discharge and the drain Liquid back to the reservoir.
- Option to recirculate the depressurizing discharge and the drain Liquid back to the reservoir.



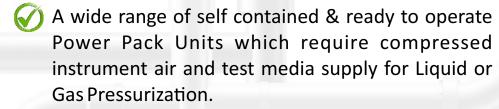
Portable Power Pack Units - Liquid & Gas(Test System Accessory)

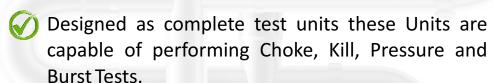












Suitable for both; Onshore and Offshore environments which require a remote pressure source these Power packs are tailored in various configurations depending on the users selection criteria.

With a Pressure Range of up to 20Kpsi these power units are also offered with dual pumps.



Contact Information

OUT CONTACT DETAILS FOR MORE INFORMATION ON OUR PRODUCTS, OR FOR ANY PRODUCT SPECIFIC ENQUIRY, ARE AS BELOW:-



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