

VENT-LESS[®]



Helping operators
achieve Net Zero



ASSENTECH IS PROUD TO INTRODUCE THE WORLD'S FIRST FULLY AUTOMATED TEST BENCH TO PROVIDE INDEPENDENT AND ACCURATE VALVE CALIBRATION FOR ATMOSPHERIC AND LOW PRESSURE VALVES.



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Assentech Sales Limited is accredited by a UKAS certified body to ISO 9001:2015, 14001:2015 and ISO 45001:2018

Company Registration Number: 6746170

PUBLICATIONS/REFERENCE

ISO 28300 - INTERNATIONAL STANDARD . PETROLEUM, PETROCHEMICAL AND NATURAL GAS INDUSTRIES - VENTING OF ATMOSPHERIC AND LOW - PRESSURE STORAGE TANKS. 2008
API 2000 - VENTING ATMOSPHERIC AND LOW-PRESSURE STORAGE TANKS. SEVENTH EDITION 2014 (LEAK TESTING INTRODUCED IN SIXTH EDITION 2008)
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EEMUA231 CO-BRANDED SAFED PUBLICATION IMG 1 THE MECHANICAL INTEGRITY OF PLANT CONTAINING HAZARDOUS SUBSTANCES. A GUIDE TO PERIODIC INSPECTION AND TESTING.

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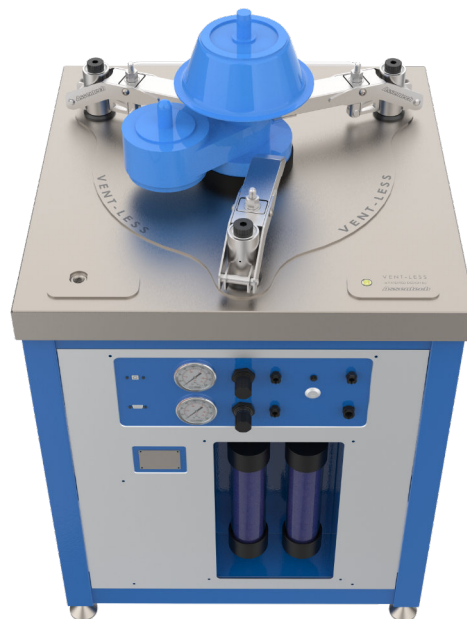
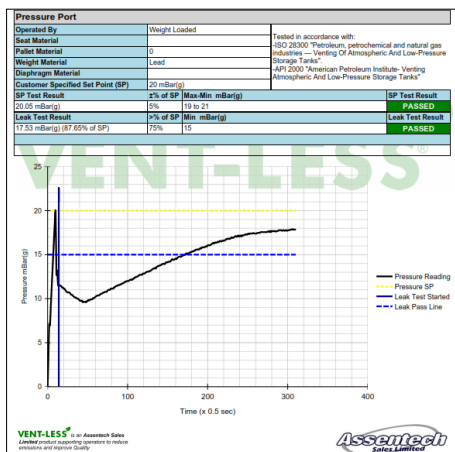


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ACCURATE VALVE CALIBRATION FOR ATMOSPHERIC AND LOW PRESSURE VALVES

USER BENEFITS:

- REDUCES FUGITIVE EMISSIONS
- YOUR 'INDEPENDENT ASSESSOR'
- IDENTIFIES INEFFICIENT AND NON-COMPLIANT EQUIPMENT
- EVIDENCES TANK VENTING DUE DILIGENCE
- INSTANT FUNCTIONAL TEST CERTIFICATE FOR EACH VALVE
- EMPOWERS THE OPERATOR TO PROVE BEST PRACTICE IN ACCORDANCE WITH THE STANDARDS
- ENSURES COMPLIANCE TO INDUSTRY STANDARDS/ RECOMMENDATIONS, IE API2000, ISO28300 AND EEMUA231
- PROVES GOOD CORPORATE GOVERNANCE
- SUPPORTS ETHICAL INVESTOR CONFIDENCE
- ENVIRONMENTAL AND FINANCIAL BENEFITS
- IMPROVES PRODUCTION EFFICIENCY AND QUALITY OF MEDIA
- CONTRIBUTES TOWARDS ISO14001 ENVIRONMENTAL FOR CONTINUAL IMPROVEMENT



KEY FEATURES:

- TESTS FOR VALVES OPERATING -300/+1000mbarg
- TESTING CAPABILITY FOR ALL VALVE TYPES - PRESSURE VACUUM RELIEF VALVES, PILOT OPERATED RELIEF VALVES, BLANKETING GAS REGULATORS (ADDITIONAL ACCESSORIES MAY BE REQUIRED)
- ALIGNS TO INTERNATIONAL STANDARDS API2000 AND ISO28300
- AUTOMATIC AND ACCURATE MOBILE TEST BENCH 'FOOLPROOF' SIMPLE 'ONE TOUCH' SET POINT AND LEAKAGE RATE TESTING
- SINGLE USER OPERATION
- PRESSURE AND FLOW DEVICES ARE CALIBRATED AND TRACEABLE
- DIGITAL READOUTS AVOIDS MISINTERPRETATION
- LIVE ON-SCREEN PERFORMANCE STATS INCLUDING REAL TIME PRESSURE AND PERFORMANCE FLOWCURVES
- AUTOMATIC CERTIFICATE GENERATION
- UNIQUE USER ID ACCESS TAILORED TO CUSTOMER REQUIREMENTS
- CLOUD ASSET MANAGEMENT CAPABILITY
- FULLY COMPLIANT AND FUTURE PROOFED
- ACCESS TO OFFSITE TECHNICAL SUPPORT SPECIALISTS
- BASE UNIT TESTS FOR VENTS 2"-12" (UP TO 24" IS POSSIBLE WITH ADDITIONAL MOUNT)
- BUILT IN SHOCK AND WET SENSORS

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SPECIFICATION

COMPACT SIZE: W700 X D700 X H800

LIGHTWEIGHT ALUMINIUM FRAME: 80KG TOTAL WEIGHT CAN BE LIFTED INTO THE BACK OF A VEHICLE BY TWO PEOPLE
AUTOMATIC: PROGRAMMED TO TEST FOR SET POINT AND LEAKAGE IN ACCORDANCE WITH INTERNATIONAL STANDARDS. A RANGE OF TOLERANCES ARE AVAILABLE.

PRESSURE RANGE: -300MBARG < +1000MBARG

SIZE RANGE: 2" (DNSO) <24" (DN600). EXTENDABLE PLATE AND ADDITIONAL CLAMP IS FITTED FOR 16" (DN400) <24" (DN600). WE COULD ALSO INVESTIGATE A 30" VERSION.

CALIBRATED: FLOW AND PRESSURE ARE CONTROLLED AND MEASURED BY ACCURATE AND PRECISE INSTRUMENTATION.

SELF-CALIBRATING: THE BASE PACKAGE INCLUDES A PLUG IN SELF CALIBRATION MODULE. THE TEST BENCH AUTOMATICALLY DETECTS WHEN IT IS CONNECTED. THIS UNIT COMPARES FLOW AND PRESSURE DATA FROM THE BENCH WITH INTERNAL CALIBRATED INSTRUMENTATION. THIS COMPACT UNIT CAN BE RETURNED TO ASSENTech FOR PERIODIC CALIBRATION CHECKS. THERE IS NO NEED TO RETURN THE BENCH FOR CALIBRATION.

PRESSURE LIMITING CLAMPS: UNIQUE PATENTED FORCE LIMITING CLAMPS PREVENT FLANGE DAMAGE TO ALUMINIUM, FIBREGLASS AND PVC VALVES.

LEVELLING TOP PLATE: OUR PATENTED LEVELLING TOP PLATE ALLOWS BALANCING OF THE PALLET ON A CUSHION OF AIR FROM AN ERGONOMIC STANDING POSITION. FAST AND EASY SET-UP IS AN ESSENTIAL FEATURE OF A MOBILE TEST BENCH WHICH COULD BE SET UP ON UNEVEN GROUND. AFTER THE FEET ARE ADJUSTED TO STOP THE UNIT ROCKING, FINAL BALANCING OF THE PALLET CAN BE DONE FROM A STANDING POSITION WHICH IS FAST AND SAFE.

FAST AND EASY OPERATION: NO MORE BOUNCING ROTAMETERS TO READ. JUST ENTER THE VALVE DATA AT THE PROMPTS AND HIT GO! THE RESULTS ARE PRODUCED IN A FRACTION OF THE TIME TAKEN ON A MANUAL DEVICE. BECAUSE THIS BENCH IS AUTOMATIC THE OPERATOR HAS NO OPPORTUNITY TO INFLUENCE THE RESULTS. BEST PRACTICE DICTATES THAT THE ENGINEER WHO SERVICES A VALVE CANNOT TEST IT ON A MANUAL TEST BENCH. BECAUSE THIS BENCH IS AUTOMATIC THE SAME ENGINEER CAN TEST AFTER SERVICING. A SIGNIFICANT SAVING FOR VALVE SERVICE COMPANIES AND TIME SAVING FOR THE OPERATOR.

FUTURE PROOF INTELLIGENCE: EMBRACES GROUND BREAKING AI FUNCTIONALITY. FULL INTERNET CONNECTIVITY ENABLES OUR TEAM TO SUPPORT THE SERVICE TECHNICIAN FROM A REMOTE LOCATION ANYWHERE IN THE WORLD.

UPGRADEABLE: AS TIME GOES BY, STANDARDS EVOLVE. A KEY BENEFIT OF THIS TEST BENCH IS THAT WE CAN OFFER UPGRADES TO KEEP YOUR BENCH UP TO DATE.

EASY TO READ CERTIFICATE: A COMPREHENSIVE FUNCTIONAL TEST CERTIFICATE WITH VISUAL PERFORMANCE PROFILE SHOWING THE VENT PERFORMANCE AGAINST TARGET WITH HIGHLIGHTED TOLERANCES.

PHOTOGRAPHIC RECORD: THE PROGRAM ACCESSES THE LAPTOP CAMERA AND FACILITATES TITLED PHOTOGRAPHIC RECORD OF THE DEVICE AND ANY ASPECTS THAT NEED VISUALLY RECORDING.

CORPORATE BRANDING: WE UNDERSTAND THE IMPORTANCE OF YOUR BRAND SO WE HAVE INCLUDED AN OPTION TO UPLOAD A BRAND ONTO THE CERTIFICATE TEMPLATE.

SERVICE DATABASE: EVERY ASSET IS SAVED TO THE DATABASE WITH A FULL HISTORY OF ALL TEST ACTIVITY.

TRACEABILITY: THE TEST TECHNICIAN LOGS IN TO OPERATE THE BENCH. THIS GIVES FULL TRACEABILITY OF ALL TESTS MADE BY THAT PERSON. THIS REGISTRATION PROCESS ALSO RECORDS TECHNICIAN COMPETENCE AND CREATES A GATEWAY TO REFRESHER TRAINING.

DE-MOUNTABLE CONTROL BOX: IN THE EVENT THAT THE INSTRUMENTATION NEEDS REFURBISHMENT OR REPAIR THE CONTROL BOX CAN BE DE-MOUNTED IN LESS THAN 5 MINUTES AND RETURNED COMPLETE TO THE FACTORY WITHOUT THE NEED TO TRANSPORT THE WHOLE BENCH.

REPLACEABLE DESICCANT FILTERS: IN ORDER TO MAKE THIS UNIT AS FLEXIBLE AND RELIABLE AS POSSIBLE, IT IS FITTED WITH TWO HIGH CAPACITY QUICK RELEASE DESICCANT FILTERS WHICH ENABLES THE TEST BENCH TO BE CONNECTED TO ANY PROCESS AIR CONNECTION. THE FILTERS ARE MOUNTED ON FRONT OF THE CONTROL BOX AND CHANGE COLOUR WHEN SATURATED. CHANGE OVER TAKES 10 SECONDS.

ERGONOMIC MANOEUVRABILITY: LIGHTWEIGHT WHEELS WITH FOAM FILLED TYRES WIND DOWN ON A SWING ARM FITTED WITH POLYBUSHES TO FACILITATE SMOOTH RATTLE FREE MANOEUVRABILITY. ON ARRIVAL AT SITE LOCATION, JUST WIND UP THE WHEELS AND THE BENCH SITS ON FOUR STEEL ADJUSTABLE FEET.

RETRACTABLE HANDLEBAR: IN ORDER TO MAKE THE UNIT BOTH COMPACT FOR TRANSPORTATION AND ERGONOMICALLY COMFORTABLE TO STEER AND MANOEUVRE, WE HAVE INCORPORATED LOCKING HANDLEBAR THAT LATCHES IN EITHER EXTENDED OR PACK-AWAY MODE.

BLANKETING VALVE CALIBRATION: WE HAVE UTILISED OUR MANY YEARS' EXPERIENCE OF TESTING TANK BLANKETING VALVES TO BUILD IN A FULL VALVE CALIBRATION FUNCTION. THIS OPTION INCLUDES AN EXTERNAL HIGH PRESSURE FEED AND FLOW-METER SO THE POINT OF ACTUATION CAN BE ACCURATELY DETECTED.

PILOT VALVE CALIBRATION: PILOT VALVES ARE TESTED IN THE SAME WAY AS WEIGHT OR SPRING LOADED VENTS WHEN THEY ARE SET UP. HOWEVER, FOLLOWING A FULL STRIP DOWN THE PILOT VALVE NEEDS TO BE SET SEPARATELY FROM THE MAIN VALVE. AGAIN, WE HAVE USED OUR MANY YEARS' EXPERIENCE TO DEVELOP THE SOFTWARE ASSIST WITH THE PILOT SET FINDING FUNCTION.

EXTERNAL GAUGE CALIBRATION CONNECTIONS: THE TEST BENCH CAN BE FITTED WITH UP TO TWO AIR SUPPLY CONTROL REGULATORS. THESE ARE MANUALLY CONTROLLED WITH ANALOGUE PRESSURE INDICATION. THIS IS A BASIC FUNCTION THAT IS REMOTE FROM VENT FUNCTIONAL TEST PROCEDURES, HOWEVER ALL GAUGES NEED TO BE INSPECTED SO WE HAVE INTEGRATED AN EXTERNAL QUICK RELEASE CONNECTIONS FOR EACH GAUGE SO THEY CAN BE PERIODICALLY CHECKED FOR ACCURACY.

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