

## Our Missions.

### Algeria

- Hassi Messaoud. Start-up Gas Over Oil Actuators. Gas Service.

### Angola

- Luanda. Onshore & Offshore. Maintenance on Ball Valves from 3" to 24" 2500.

### Australia

- Timor Sea. Offshore. Maintenance on a Top Entry Ball Valve 28" 1500.
- Darwin. Inspection on a Top Entry Ball Valve 28" 1500.

### Brasil

- Macaé - Offshore. Maintenance on Control Valves. Oil Service.
- Macaé - Onshore. Supervision on Installation and Start-Up on Subsea Module. Oil Service.
- Aracaju - Offshore. Maintenance on Gate and Check Valves from 4" to 12". Oil Service.



### Canada

- Edmonton. Maintenance on Metal Seats Ball Valves 6" 1500, 12" & 16" 300. Oil Service.

### Chile

- Antofagasta. Supervision on a Welding and Installation Job of Cryogenic Ball Valves from 1 1/2" to 12". Methanol Service.

### China

- Haiyuan. Inspection and Refurbishment on Ball Valve 48" 900. Oil Service.

### Indonesia

- Batam. Maintenance on Ball Valves 16" 900. Oil Service.

### Iraq

- Kurdistan. Start-up of Gas Over Oil Actuators. Oil Service.

### Italy

- Milan. Italian Operation Office & Workshop.

### Korea

- Ulsan. Maintenance on Ball Valve 16" 600. Oil Service.
- Daegu. Refurbishing on Ball Valves from 2" to 36" Different Classes. Gas Service.

### Kuwait

- Mina Al Ahmadi Refinery. Maintenance on 8" 900. Cryogenic Valve.

### Malaysia

- Port Klang. Maintenance on Subsea Ball Valve 10" 5000 psi. Oil Service.

### Mexico

- Ciudad del Carm. Offshore. Installation of SDV Actuator on Ball Valve 36" 900 and Testing. Oil Service.

### Netherland

- Rotterdam. Maintenance and Welding Service on Gate Valves from 3" to 16". Oil Service.
- Platform F3-FA Offshore. Maintenance on Ball Valves from 1" to 4". Oil Service.

### Nigeria

- Lagos - Onshore. Refurbishing on Ball Valve 20" 1500. Oil Service.

### Norway

- Tranby. Refurbishment of Subsea Ball Valve 10" 1500. Oil Service.

### Oman

- Sohar. Maintenance on High Temperature Gate Valve 20" 1500. Steam Service.

### Qatar

- WH-10 Platform - Offshore. Maintenance on Electrical Actuator on 28" 5000 psi. Gas Service.
- Ras Laffan. Maintenance on Hydraulic Actuators assembled on Ball Valves from 6" to 24". Gas Service.

### Russia

- Surgut. Refurbishing on Ball Valve 24" 150. Oil Service.
- Sakhalin. Maintenance on Top Entry Ball Valve 24" 1500. Oil Service.

### Saudi Arabia

- Dammam. Maintenance on Ball Valves 24" 1500, 30" 600. Oil Service.

### Singapore

- Maintenance on Ball Valve 8" 1500. Gas Service.

### Thailand

- Rayong. Installation & Testing of a Ball Valve 30" 600. Oil Service.

### Tunisia

- Sfax. Start Up on Gas Over Oil Actuator on Ball Valve 30" 900. Gas Service.

### UAE

- **Abu Dhabi.** Modification on Gas Over Oil Actuator and Control Panel on Ball Valve 30", 36", 42" 900, on Pipeline and Gas Station. Gas Service.

### EMDAD Valves & Wellheads Service Workshop.



### Care-O-Valve LLC

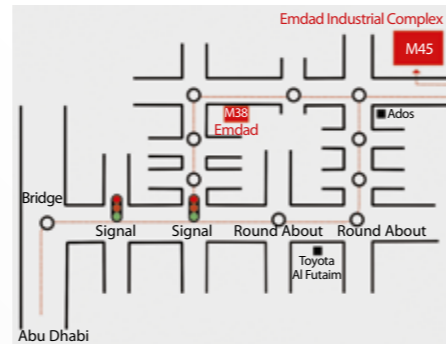
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CARE-O-VALVE®

Where Really Needs.

24 Hours a Day,  
7 Days a Week  
to Handle Your On-Site  
Service Needs.



## CARE-O-VALVE

Our premises are in Piantedo, in the northern part of Italy, near the lake of Como, in a brand new construction situated in the middle of the area where many valve manufacturers have already established their business.

The choice of basing the activity here is a strategic decision due to the presence of the main valves and actuators manufacturers of the world, granting in this way a full availability and a quick response for every need they might require.

The company is formed by a young, skilled and motivated team, whose members are now available 24 Hours a Day, 7 Days a Week in every location of the world. All the personnel, with engineering background, is coming from previous experience in the Valves or Actuators manufacturing or Oil&Gas operations, to provide only first choice personnel at site.



**Care-O-Valve's** team is spread all around the world wherever there are Valve's users and whatever are the Valve's applications. Independence from all Valves and Actuators Manufacturers enables **Care-O-Valve's** clients to benefit from impartial support. The Company is mainly committed to contract valves and actuators maintenance and on-site integrated service management and provides a full scale of after sales support, including start up, on-site training and spare parts.



All these activities are supported by our technical department located in Italy.

Our personnel is highly trained and qualified to operate onshore and offshore (OPITO certification, offshore safety induction and emergency training included HUET and EBS (5700)).

**Care-O-Valve** can provide Service Engineers ready to operate in every location of the world. We have operated in more than 30 different countries, facing different challenges every day. We are ready to fully dedicate ourselves for your needs, striving for excellence and safety.

Our team working propensity and team building capabilities help us in every kind of situation, and give us the possibility to be the best in our job.

Our success proves our reliability, and our customers satisfaction is the goal we are always looking for.



**Care-O-Valve** is ISO 9001:2008 certified and its personnel is certified NDT level 2 for MT and PT. All personnel is trained on the use of fugitive emission equipment on-site, so that we can provide this kind of test everywhere in the world, if needed. Our control quality department is steadily committed in following and assisting any internal process to guarantee the maximum quality level to our customers.



We worked in very different environment conditions and different kind of projects, following commissioning activities, start up and installation of land pipelines, subsea manifolds, and oil and gas plants (refinery, power plant, condensation plant).

Our strength is facing different challenges every day, adapting ourselves in every situation and environment, taking quick time critical decisions avoiding waste of time and aiming to money saving.



**Emdad** and its technical partner **Care-O-Valve** are serving the Oil and Gas Industry with a whole range of Valve and Wellhead related services.

This alliance was initiated in response to the major expansion in the region's Oil & Gas Facilities and drilling activities which increased the demand for Valves and Wellhead services across the Upstream and Downstream Industries.

**Emdad** established 1500 sqm. Valves Testing & Maintenance Workshop located in Musaffah M45, that brings the latest technologies in the Valves Industry.

The workshop is fully designed, automated and capable to offers full range of refurbishment services for all types of valves and actuators up to 52".

#### Our Services Include:

- Valves & Actuators Testing and Maintenance
- Wellheads Testing and Maintenance



- Onsite Integrated Service Management
- Online testing Services
- Acoustic Leak Detection
- After Sales Support

Our workshop is authorized by international valves manufactures whereby the workshop was nominated as their local service center.

## Workshop differentiators:

- Emdad Workshop is highly equipped and automated for Valves Testing.
- It is connected to a fully sized sandblasting and Painting Booth, existing on the same location and independently run by Prezioso EMDAD LLC.
- The workshop is connected to a Machining Shop being developed by EMDAD LLC and its partner separately for Threading capabilities, which gives the Valves repair workshop access for advanced CNC machining.
- Emdad workshop will grant a quick access to spare parts through our direct link to Care-O-Valve supply chain in Italy - in the heart of Valves Manufactures. As well as providing rapid response through our highly equipped Mobile Workshops.



## Our Workshop is currently authorized by:



## Certifications

**EMDAD** is a 9001, 14001 and OHSAS certified company and have updated its Integrated Management System to comply



with API SPEC Q1 Standard and ISO/TS 29001/2010 certification by API. Currently **EMDAD**

is holding the following certificates:  
• ISO 9001:2008 • ISO 14001:2004  
• OHSAS 18001:2007  
• ISO TS/29001  
• API Specification Q1



**PWS Manufacturing & Care-O-Valve** are specialized in a whole range of Valve and Actuator related services for the Oil & Gas Industry. These services are provided in **PWS Manufacturing** Workshop situated at Lot 19, Jalan Anggerik Mokara 31/47 Kota Kemuning, Seksyen 31, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia.

The location is easily accessible by road from Kuala Lumpur via the modern Kesas Highway and Federal Highway. Both the KLIA International Airport and Port of Klang are within 45 minutes drive from the plant:

- Close to the Airport
- Close to Port Klang
- Close to Kuala Lumpur

**PWS Manufacturing & Care-O-Valve** workshop is provided with the following test bench machines:  
- HTS-1100: testing capability from 6" 2500 to 42" 600, pneumatic testing pressure up to 7 bar and hydraulic testing pressure up to 700 bar.

- MTS 3-240C: multiple testing capability (up to 3 pieces) from 2" 2500 to 10" 300, pneumatic testing pressure up to 7 bar & hydraulic testing pressure up to 700 bar.

We can than provide blind flange testing on request for different class and size of valves if needed.

The Workshop is provided with the following equipment:  
- Puma 280LM Turning and Milling Centre  
- Puma 400LMB Turning Centres  
- Lynx 220LM Lathes and Turning Centers  
- Puma 700M Turning Centres  
- Mynx NM510 Vertical Machining Centres  
- Metal Cutting Saw  
- Coordinate Measuring Machine.

Possibility to rectify ball up to 16" and availability of Manual milling machine and other manual equipment to perform any kind of machining request.

Mechanical Services include Field Machining, Technical Bolting, Valve Repairs, NDT and Inspections, Turnaround Shutdown and outage Services, Fugitive Emissions Control, Energy Management.

The company can also offer the following services:

- Process Manual Valve Repair Program for Refineries, Chemical Plants, Power Generation, and Pipelines
- Actuators Repairing, Troubleshooting and Testing for Hydraulic, Pneumatic, Electrical & Manual Operators
- Performing Emergency Valve Sealing
- Flushing & Lubricating
- Verify & Ensure Valve Integrity
- Routine Valve Maintenance

- Identifying and Analysing Causes of Failures
- Establishing preventative and predictive maintenance procedures
- Complete valve inspection, machining, repair, repacking, testing and documentation
- Trained technicians, and specialty equipment onsite around the clock
- Complete repair, testing, & documentation services for all kinds of Valves and actuators, irrespective of type, size and class
- Flange re-facing, in-line, valve seat restoration, pressure seal restoration, machining services
- Installation, commissioning, supervision
- Diagnosis and on-site repair
- Valve modifications:
  - Conversion from Soft Seal to Metal Seat
  - Modification from Manual-gearbox Operation to Actuation
  - Seal Technology Upgrading
- On-Site Testing and Calibration
- Spare parts supply
- Training programs on operation & safety
- Documentation and Record Keeping
- Choke Valves Inspection, Testing and Repair
- Weld Overlay - Inconel, Stellite and CrMo
- Welding capabilities TIG, MIG & ARC through Carbon Steels to High Alloys
- Certified specialist pressure welding
- Shut down and project management
  - Preventative systems - inline testing
- PSV test rigs - onshore/offshore
- Sealant & Lubrication injection services
- Control Valve diagnostics & services.

## Quality

**PWS Manufacturing & Care-O-Valve** is ISO9001:2008 certified and can provide personnel certified NDT level 2 for MT and PT. Personnel is also trained on the use of fugitive emission equipment on-site, so that we can provide this kind of test wherever in the world, if needed.

Our control quality department is steadily committed in following and assisting any internal process to guarantee the maximum quality level to our customers.

## Manufacturing

**PWS Manufacturing's** Machining and Welding Capabilities exceed international standards and in are accordance with manufacturer's instructions to ensure compliance to their specifications.  
• CNC Machining



- Engineering
- Turning
- Milling
- Welding
- PTA/Hardfacing
- Assembly
- Grinding
- Testing
- Inspection
- Manufacture, repair and re-build of valve part
- Fabrication

**PWS Manufacturing** can work with an extensive range of materials. We can advise you on the cost implementations when considering a variety of materials for a particular application. In addition to the common materials used in Oil and Gas Engineering, we also have experience of the following materials:

- Carbon Steels • Chrome Molybdenum
- Stainless steels • Duplex grades
- Corrosion resistant
- Nonferrous

**PWS Manufacturing** has manufactured and supplied precision components for Oil&Gas Projects globally:

- AVE Australia**
  - PSN/Eso Australia • Technip OAG
  - DBNGP Western Australia
  - Fujian Project • Teko Kosice Power Plant
  - North Rankin - Woodside • Tanker Pacific
  - Irong Barat - Esso • Exxon Pioneer
  - Woodside Petrol • Chevron Platong Gas
  - Saudi Kavan Project
  - Huizhou Refinery Plant.

With experience in a very broad spectrum of customer markets, **PWS Manufacturing** has developed the skills and techniques required to deal with just about every material used in modern Manufacturing.

As an international supplier of engineering solutions such as CNC Machining, Precision Engineering and specialist solutions **PWS Manufacturing** can offer a highly skilled and motivated workforce who are dedicated to continuous improvement in both processes and manufacturing technology.

