



PV CARES

valves and actuators

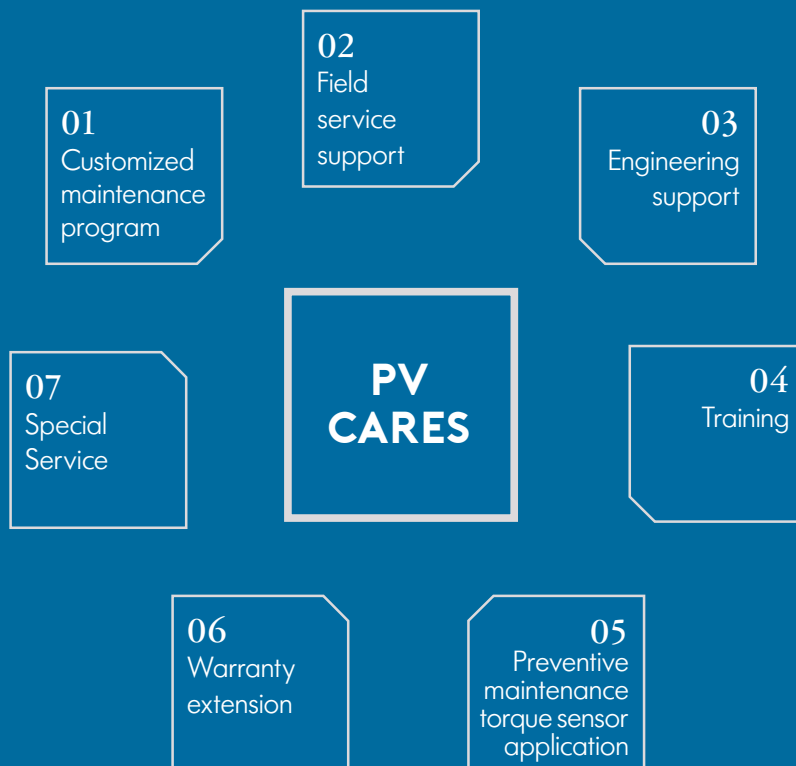
after sales & SERVICES

PETROLVALVES has developed its production capabilities extensively into numerous specialty categories in the Oil and Gas sector. As our custom engineered Valves and Actuators incorporate exotic materials and advanced design features, we have developed an After Sales and Service capability to respond to operators demand, as well as providing assistance throughout the product life cycle.

PV has developed a world wide network of **PV** owned and operated facilities and a network of **PV** alliance facilities with trained personnel and subject to audit processes to ensure QA/QC and HSE procedures compliance.

PV is able to perform standard and emergency interventions wherever our valves are installed, regardless of their current conditions.

We have established an autonomous After Sales Department and support network within **PV**, focused on the following targets:



customized
MAINTENANCE PROGRAM

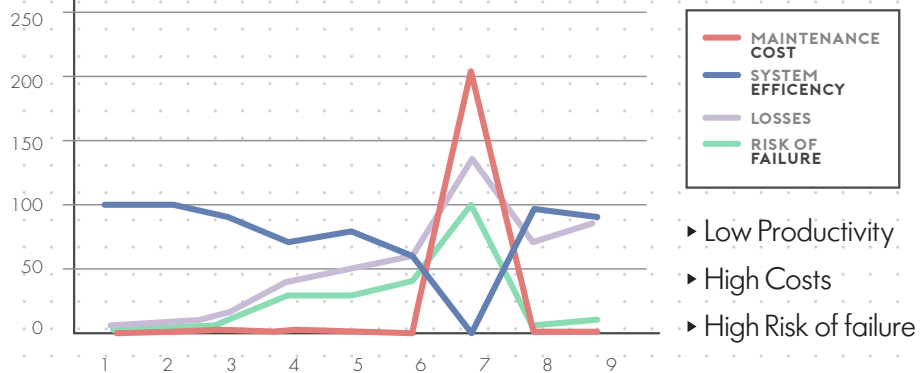
FEEL FREE TO ASK US FOR YOUR SPECIFIC MAINTENANCE PROGRAM

01

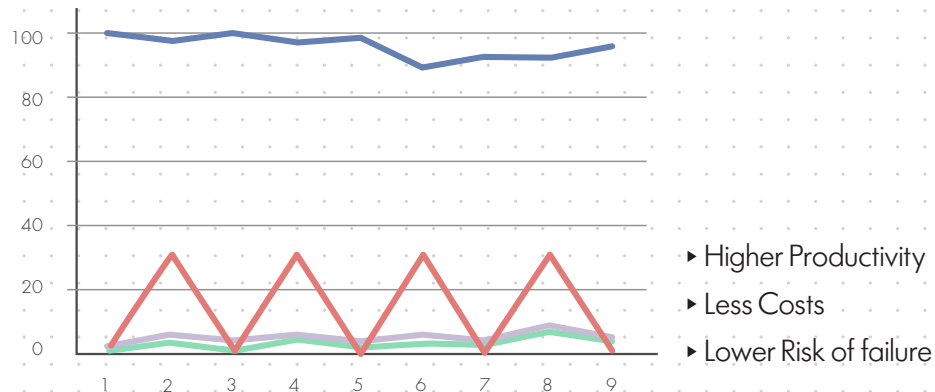
Based on our experience of more than 60 years in valves manufacturing, with over 2 million units provided and installed all around the world, and analysis of related data, we have developed for each type of valve and each type of operating environment, an innovative and Client-tailored maintenance program to ensure productivity, profitability and safety over the full life cycle of a valve. **PETROLVALVES** valves maintenance program aims to maximize productivity, reducing risk of failure, loss and optimising related maintenance costs. A preventive maintenance program will help maintain the products efficiency at a higher level and securing the necessary spare parts stock inclusive. As an important note, the use of OEM spare parts and qualified personnel will maintain API compliance and original product warranty.

01

REACTIVE MODE - EXAMPLE



PROACTIVE MODE - EXAMPLE



field service
SUPPORT WORLDWIDE

02

A long-term service agreement over the complete valve life cycle will ensure :

- ▶ Higher Valve reliability
- ▶ Higher Valve performance



WE TAKE CARE FROM SHIPPING TILL THE END

COSTS

Risks
Failure
Unexpected shut-down

PROFIT

Safety
Profitability
Productivity



engineering support TO CUSTOMERS

03

With its well trained and experienced engineers, **PV** is able to provide engineering support to Customers covering many activities:

- ▶ Valve library build-up
- ▶ Front end engineering & design review on **PV** installed base
- ▶ Asset management
- ▶ Product upgrade programs
- ▶ Valve replacement programs
- ▶ Data acquisition & data entry
- ▶ Valve data sheet and spec evaluations

03



training
PROGRAM

04

On Customer request, **PV** is able to organize both training on site or in a **PETROLVALVES** classroom. The training is aimed at operators, maintenance personnel and other staff.



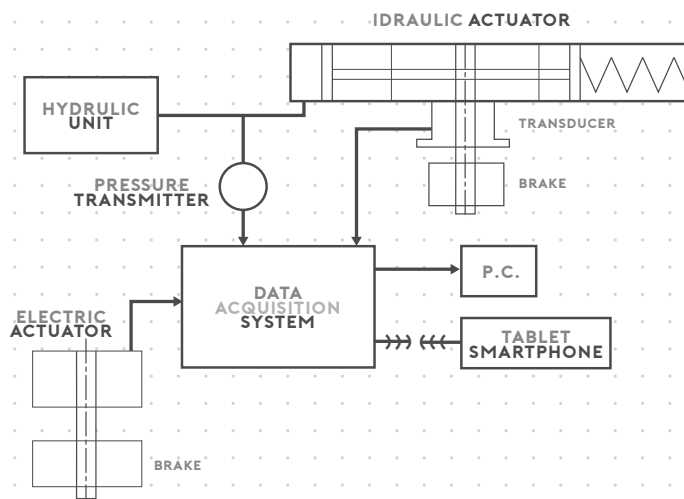
04

preventive maintenance
TORQUE SENSOR APPLICATION

INVEST TODAY TO REDUCE
RISK TOMORROW

05

PETROLVALVES has developed a tool to monitor a valve behavior throughout its operating life with automatic alert signals calibrated on torque and hydraulic pressure values. The system works through remote data analysis sent to the PV analyzing center. This feature can be retrofitted to products while in service and on new products.



05

Life torque monitoring removes the risk of unpleasant and unexpected failure situations.



warranty
EXTENSION PACKAGE

**WE TRUST OUR
PRODUCTS**

06

We can grant you an extended warranty on our products for longer than you may have expected.

Confident of our products reliability, we offer clients the possibility to extend the product warranty ensuring longer warranty assistance to our customers at limited extra cost.

special
SERVICES

**CUSTOMER SATISFACTION
IS OUR GOAL**

06

07

PV offers a wide range of different services focused on providing support to Customers in terms of:

- ▶ Fugitive emission campaign
- ▶ Waterjet technique
- ▶ Torqueing-bolting-tensioning activity
- ▶ Valve in service diagnostic
- ▶ Mobile workshop
- ▶ Others

FUGITIVE EMISSION CAMPAIGN



WATERJET TECHNIQUE



TORQUEING - BOLTING - TENSIONING ACTIVITY



VALVE IN SERVICE DIAGNOSTIC

MOBILE WORKSHOP



special service RFID TAGGING TECHNOLOGY

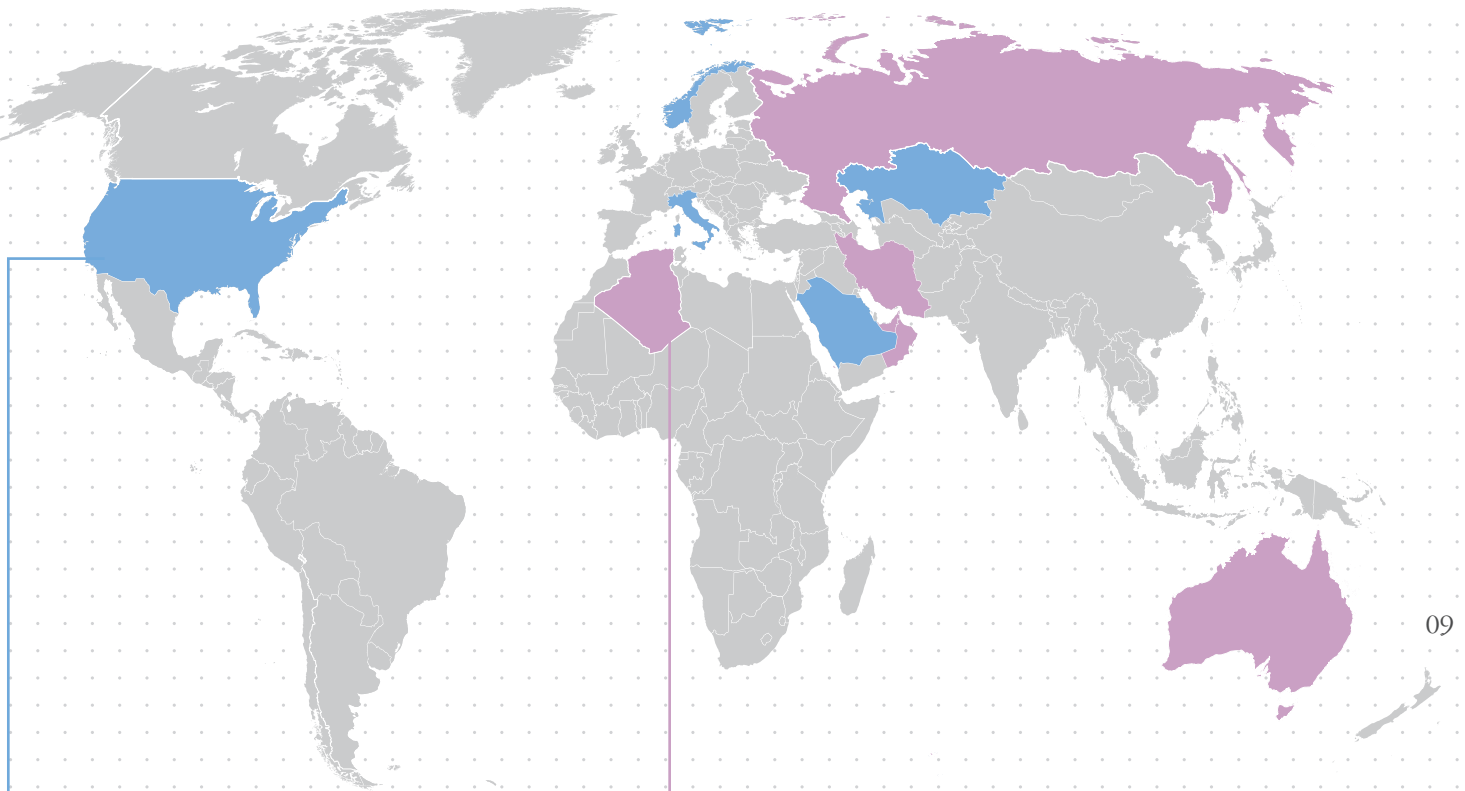
07

- Applicable either to valves or spare parts data information
- ▶ Summary of Product Data History.
 - ▶ Summary of Manufacturer Record Book.
 - ▶ Summary of Maintenance History.
 - ▶ Reading the list of applicable Spare Parts.
 - ▶ Smartphone, handheld or tablet apps for on-site usage, inspections, inventory and replenishment.
 - ▶ Easy reading throughout utilizing portable remote control technology.

08



AFTER SALES NETWORK



owned facilities

- ▶ Italy
- ▶ USA
- ▶ Norway
- ▶ Saudi Arabia
- ▶ Kazakhstan

authorized repair centers

- ▶ Scotland
- ▶ Oman
- ▶ United Arab Emirates
- ▶ Azerbaijan
- ▶ Brazil



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