

PLARAD®

Torque & Tension Systems

Valve High Torque System

VALVETORQUE

PLARAD – THE SPECIALIST ON TORQUE AND TENSION



With more than 50 years of history and knowledge in the field of torque and tension tool, Plarad is the ideal partner to solve whatever tightening and torqueing application from 1 to 500.000Nm

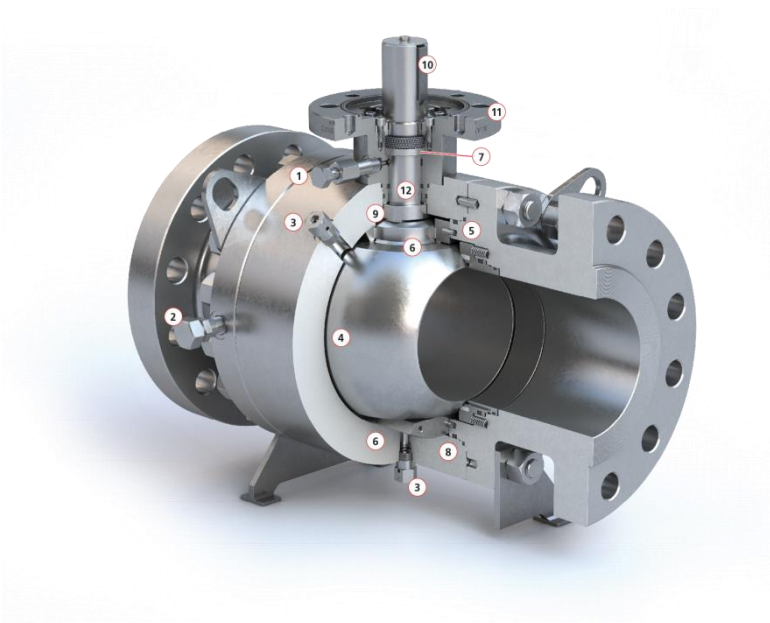
Thanks to innovative solutions and state of the art technology, we're able to provide the best solution for the most demanding applications

Our partner:

Italcontrol®
YOUR GATE TO THE WORLD OF TESTING

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VALVE ROTATION TEST



Valve rotation test is an essential procedure to guarantee the quality of ball valves. Checking and measure the torque while rotating the ball, allows to recognize defects and certify the proper ball functions

Rotation tests can be performed on the main valve shaft (Direct version) or on the actuator (Gear version)
Rotation test measures the torque, and optionally angle, values along all the turning process
Direct version systems can be supplied with torque till 500.000Nm

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TORQUEVALVE DIRECT – THE INNOVATION



TorqueValve is a state of the art system designed to test huge dimension ball valve.
It allows to perform the very high torque rotation and to measure and store the torque and angle values

Main features:

- Torque till 500.000Nm
- Multiturns system (system can turn continuosly, eg. for milling)
- High performances electrical motor
- Touchscreen control panel
- Remote access
- Wireless remote

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TORQUEVALVE DIRECT – TESTING SOFTWARE



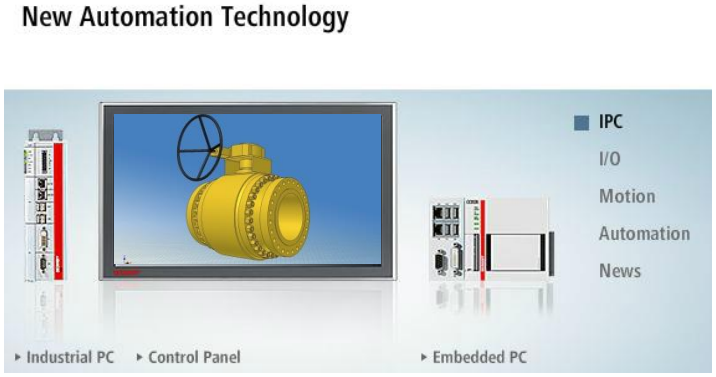
Control software has been specifically designed for valve testing. Some features:

- Real output torque and angle measuring
- Manual CW and CCW valve rotation
- Automatic cycle testing (till 999 cycles)
- Continuos rotation
- Automatic 0°degrees back home
- Variable rotation speed
- Automatic release system (parametric angle)
- Safety max torque limit
- Bar code reader
- Store of torque and angle data file
- Print test result certificate (with custom print fields)
- Light tower
- Ethernet connection and GMS connection for remote assistance
- USB output for data export

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TORQUEVALVE DIRECT – KEY FEATURES

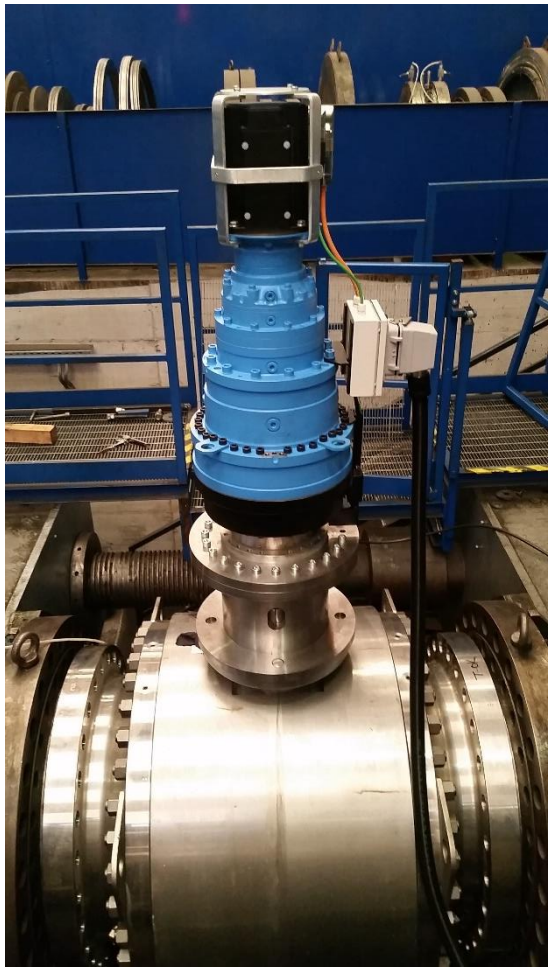
TorqueValve has been designed to provide the best performances and superior key features:



- Till 3 times faster than trasditional pneumatic systems
- Easy connections thanks to disconnectable cables and no pneumatic connections
- Cheaper total cost of ownership respect other systmes
- Low noise
- Continuos rotation 360° (feature can be used to mill the ball)
- Variable speed
- Remote assistance
- Torque and angle graph display
- Easy to operate thanks to wireless remote
- Industry 4.0 ready

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TORQUEVALVE DIRECT - MODELS



TorqueValve Direct is available in different sizes:

TQVD 50	2.000-20.000 Nm
TQVD 50	5.000-50.000 Nm
TQVD 100	10.000-100.000 Nm
TQVD 200	20.000-200.000 Nm
TQVD 300	30.000-300.000 Nm
TQVD 500	50.000-500.000 Nm

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TORQUEVALVE DIRECT - MOBILE



TorqueValve controller is protected in a industrial rolling unit:

- Protected against hits
- Protected against dust
- Easy to move
- Protection of printer
- Light tower
- Touchscreen 15inches
- Barcode reader
- Mouse and keyboard sliding frame

Safety wireless remote allows a great flexibility while keeping each actions safe (always on transmission)

- Manual commands (CW, CCW)
- Automatic commands
- Start/Stop/Pause

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TORQUEVALVE DIRECT – DETAILS

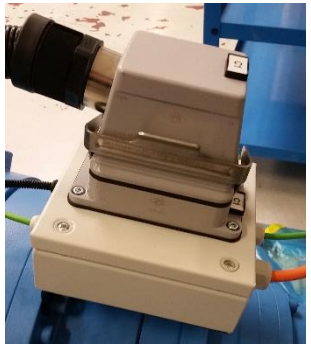
TorqueValve has been designed with high attention to details



Cable hanger



Barcode reader



Disconnectable power connection



External ports for communications



Remote selection



Laser printer



Magnetic encoder

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TORQUEVALVE DIRECT - AIR



TorqueValve is also available in pneumatic version
Touchscreen panel allows to display torque and angle values and store all acquired data



Air flow can be controlled with manual or electric valves

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TORQUEVALVE DIRECT – BRUSHLESS OPTIONS

Model	Torque measure	Angle measure	Graphs	Certificate prints	Cycles	Motor	Wireless remote
TQVD-BM I	✓	✗	✗	✗	✗	Electric	✗
TQVD-BM II	✓	✓	✓	✓	✓	Brushless	✗
TQVD-BM III	✓	✓	✓	✓	✓	Brushless	✓

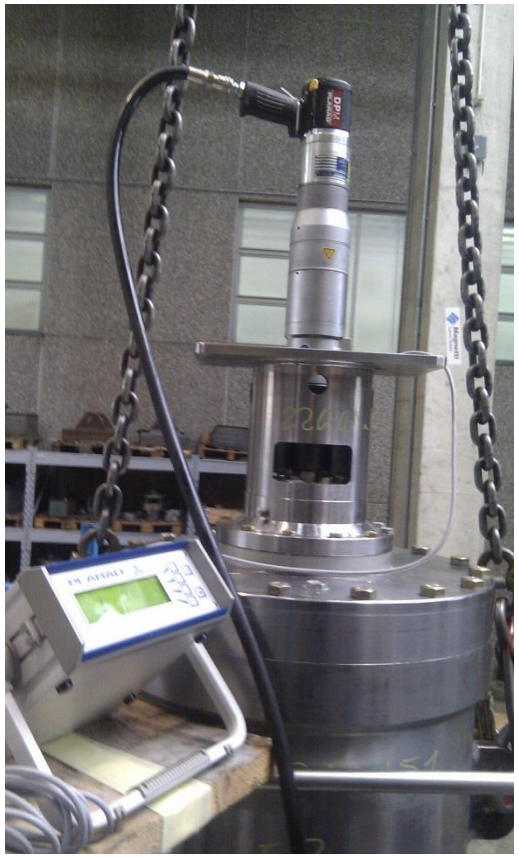
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TORQUEVALVE DIRECT – AIR OPTIONS

Modello	Torque masure	Angle measure	Data display	Electric valves	Cycles	Control Valves	
						Manual	Electric
TQVD-I	✓	✗	✓	✗	✗	✓	✗
TQVD-II	✓	✓	✓	✗	✗	✓	✗
TQVD-III	✓	✗	✓	✓	✗	✗	✓
TQVD-IV	✓	✓	✓	✓	✗	✗	✓
TQVD-V	✓	✗	✓	✓	✓	✗	✓
TQVD-VI	✓	✓	✓	✓	✓	✗	✓

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TORQUEVALVE GEAR- MODELS



TorqueValve is available in different models to perform rotation on actuator:

TQVG 1	100-1.000 Nm
TQVG 5	500-5.000 Nm
TQVG 10	1.000-10.000 Nm
TQVG 15	1.500-15.000 Nm

Custom adaptors or ROV units are available on request

Drives can be electric, pneumatic or battery

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SOME CUSTOMERS



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SFEROVA
PETROLVALVES
DAFRAM
VALVOLE A SFERA - BALL VALVES
Specializes in Ball Valves
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mangiarotti
CAMERON
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CIMOLAI
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CIFA
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TEREX
KOMATSU
Atlas Copco
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TRENITALIA
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ALFA LAVAL
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... a successful connection!

PLARAD ITALY
via Vecchia Chimica
10 20070 Cerro al Lambro (MI)

Tel.: +39 02 9832954
italia@plarad.com

www.plarad.it · www.plaraditaly.it

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