



# REVALVE

BY PKTBA SINCE 1962

## TECHNICAL SPECIFICATION

Workstation for disassembling & assembling of pipeline valves  
PKTBA-RMR-5

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## Disassembling & Assembling equipment

### Workstation for disassembling & assembling of pressure safety valves

1	Name	Workstation for disassembling & assembling of pressure safety valves <b>PKTBA-RMR-PSV</b>
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2	Purpose	Workstation is designed for disassembling and assembling of pressure safety valves DN 15 – 300 (NPS ½ - 12)
3	Composition	<p>Workstation consists of:</p> <ul style="list-style-type: none"> <li>• Workbench with safety screen</li> <li>• Stand with swinging zigzag boom, pneumatic screwdriver and air preparation unit</li> <li>• Stand for pressure safety valve disassembling / assembling</li> </ul>
4	Disassembled and assembled valves	Pressure safety valves NPS 1/2-12"
5	Workbench with safety screen	

## Disassembling & Assembling equipment

### Description



Workbench is designed for disassembling and assembling of the valves and storing of the tools and accessories necessary for the operations.

Workbench tabletop is made from 24 mm thick plywood with table facing made of 3 mm thick steel sheet.

Bench mounted drill and vice clamps are mounted on the table, along with the fastening plate of the vice clamps, to provide reliable fastening. Perforated screen with hinged shelves for tools and accessories is installed on the table. Led lamp and switchbox are also located at the perforated screen.

Electric cable (included in the scope of supply) PVS 3x0,75 is designed for connection of the bench and lamp to the workshop electric mains. The workbench is supplied with a cabinet that has lockable drawers and shelves and swing door.


Max. drilling diameter, mm	16
Max. vice clamp width, mm	180
Evenly distributed load on the tabletop, kg	1000
Power supply, V/Hz/kW	230 / 50 / 0,45
Overall dimensions (LxWxH), mm, not exceeding	2000 x 700 x 2055

## Disassembling & Assembling equipment

	Weight, kg, not exceeding	305
	Stand with swinging zigzag boom, pneumatic screwdriver and air preparation unit	
6	Description	<p>Stand with swinging arm is used for holding of interchangeable air screwdriver and advancing it to the assembled or disassembled valves. Balance beam lifting capacity is up to 14 kg. The balance beam is supplied with stop block to prevent item falling in case of the spring failure.</p> <p>Air screwdriver is mounted on the balance beam and serves for threaded connections screwing and unscrewing. Air screwdriver rotates for 360° around stand axis as well as beam axis with radiuses 1500 and 900 mm. Air screwdrivers are supplied with interchangeable heads with internal hexes from S10 up to S55. Wrenches ½" and ¾" – 1" are included in the scope of supply for manual tightening of the threaded connections.</p> <p>Air pressure supply to the air screwdriver from the workshop network is performed by quick release connection that allows to replace the air screwdriver easily. The air from the workshop network is supplied to the air screwdriver through the air preparation unit.</p> <p>The air screwdriver is supplied in assembly with the pressure hose and fittings.</p>
	Max. torque, Nm	Pneumatic impact screwdriver with shank end 1": 2439 Pneumatic impact screwdriver with shank end 1/2": 813
	Air consumption, l/min	Pneumatic impact screwdriver with shank end 1": 708 Pneumatic impact screwdriver with shank end 1/2": 480
	Supplied air pressure, bar	Pneumatic impact screwdriver with shank end 1": 6 Pneumatic impact screwdriver with shank end 1/2": 6
	Balance beam capacity, kg	14
	Cable traverse, m	2
	Air pressure supplied to the air preparation unit, bar	6

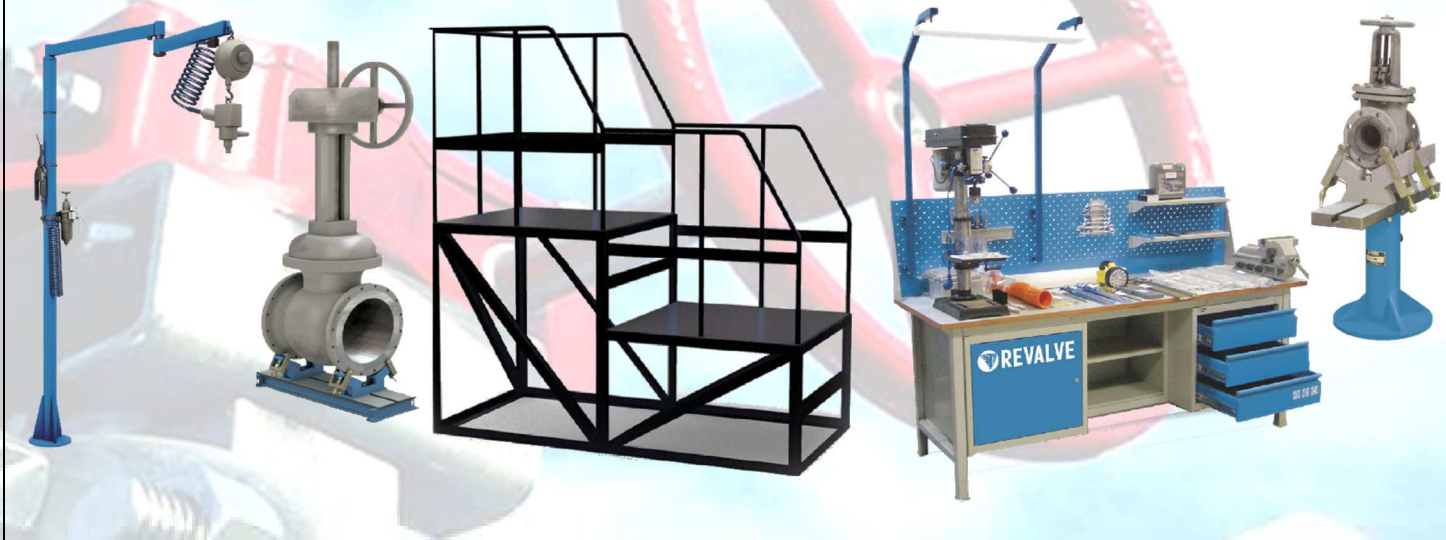


## Disassembling & Assembling equipment

	Air consumption at the pressure of 6 bar, nl/min	2380
	Max. servicing zone radius, mm	1500
	Stand height, mm, not exceeding:	2650
	Weight, kg, not exceeding	68
	<b>Stand for pressure safety valve disassembling / assembling</b>	
7	Description	<p>The stand is designed for disassembling / assembling of the pressure safety valve. Scope of supply includes set of accessories for mounting of the valves at the stand.</p> 
	Valve mounting method	At the stand table
	Valves fixture method	Clamps
	Overall dimensions (LxWxH), mm, not exceeding	809 x 730 x 400
	Weight, kg, not exceeding	93

## Disassembling & Assembling equipment

### Workstation for disassembling & assembling of pipeline valves

1	Name	Workstation for disassembling & assembling of pipeline valves <b>PKTBA-RMR-5</b>
 <p style="text-align: center;"><i>The workstation general view</i></p>		
2	Purpose	Workstation is designed for assembling and disassembling of the pipeline valves DN 15 – 600 (NPS ½ - 24)
3	Composition	<p>Workstation consists of:</p> <ul style="list-style-type: none"> <li>• Workbench with safety screen;</li> <li>• Stand for valve disassembling / assembling DN 15 – 300 (NPS ½ - 12)</li> <li>• Stand for valve disassembling / assembling DN 350 – 600 (NPS 14 – 24)</li> <li>• Stand with swinging zigzag boom, pneumatic screwdriver and air preparation unit</li> <li>• Ladder</li> </ul>
4	Assembled and disassembled valves	<ul style="list-style-type: none"> <li>• Wedge and parallel gate valves DN 50 – 600 (NPS 2 – 24)</li> <li>• Pressure safety valves DN 15 – 400 (NPS ½ - 6)</li> <li>• Shut-off valves DN 15 – 400 (NPS ½ - 16)</li> <li>• Ball valves and plug valves DN 15 – 300 (NPS ½ - 12)</li> <li>• Control valves DN 15 – 400 (NPS ½ - 16)</li> </ul>
5	Assembled and disassembled valves PN, bar	0 – 200
6	Workbench with safety screen	

## Disassembling & Assembling equipment

### Description



Workbench is designed for disassembling and assembling of the valves and storing of the tools and accessories necessary for the operations.

Workbench tabletop is made from 24 mm thick plywood with table facing made of 3 mm thick steel sheet.

Bench mounted drill and vice clamps are mounted on the table, along with the fastening plate of the vice clamps, to provide reliable fastening. Perforated screen with hinged shelves for tools and accessories is installed on the table. Led lamp and switchbox are also located at the perforated screen.

Electric cable (included in the scope of supply) PVS 3x0,75 is designed for connection of the bench and lamp to the workshop electric mains. The workbench is supplied with a cabinet that has lockable drawers and shelves and swing door.

Max. drilling diameter, mm

16

Max. vice clamp width, mm

180

Evenly distributed load on the tabletop, kg

1000


Power supply, V/Hz/kW

230 / 50 / 0,45

Overall dimensions (LxWxH), mm, not exceeding

2000 x 700 x 2055

## Disassembling & Assembling equipment

	Weight, kg, not exceeding	305
	Stand for valve disassembling / assembling	
	Description	<p>The stand is designed for assembling/disassembling of the pipeline valves DN 15 – 300 (NPS 1/2-12). Scope of supply includes set of accessories for mounting of the valves at the stand.</p> 
7	Assembled and disassembled valves nominal diameters, mm	15 – 300 (NPS ½ - 12)
	Valve mounting method	By movable valve holding devices
	Flanged valves fixture method	Through the flange bolting holes
	Flangeless valves fixture method	By clamps
	Overall dimensions (LxWxH), mm, not exceeding	730 x 400 x 892
	Weight, kg, not exceeding	103
	Stand with swinging zigzag boom, pneumatic screwdriver and air preparation unit	
8	Description	<p>Stand with swinging arm is used for holding of interchangeable air screwdriver and advancing it to the assembled or disassembled valves. Balance beam lifting capacity is up to 14 kg. The balance beam is supplied with stop block to prevent item falling in case of the spring failure.</p>

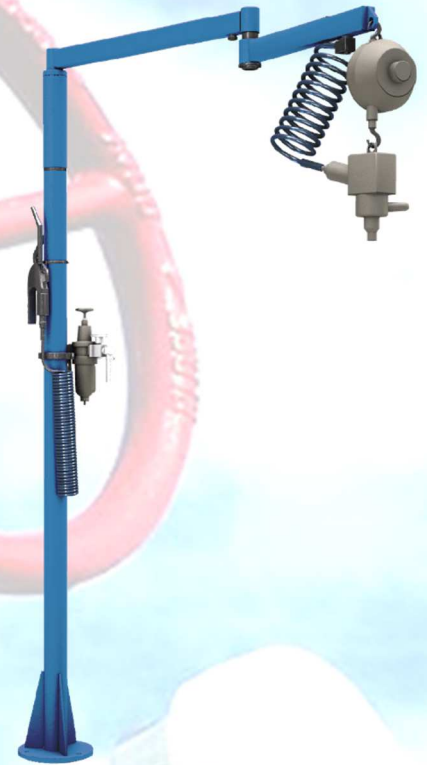


## Disassembling & Assembling equipment

Air screwdriver is mounted on the balance beam and serves for threaded connections screwing and unscrewing. Air screwdriver rotates for 360° around stand axis as well as beam axis with radiuses 1500 and 900 mm. Air screwdrivers are supplied with interchangeable heads with internal hexes from S10 up to S55. Wrenches ½" and ¾" – 1" are included in the scope of supply for manual tightening of the threaded connections.


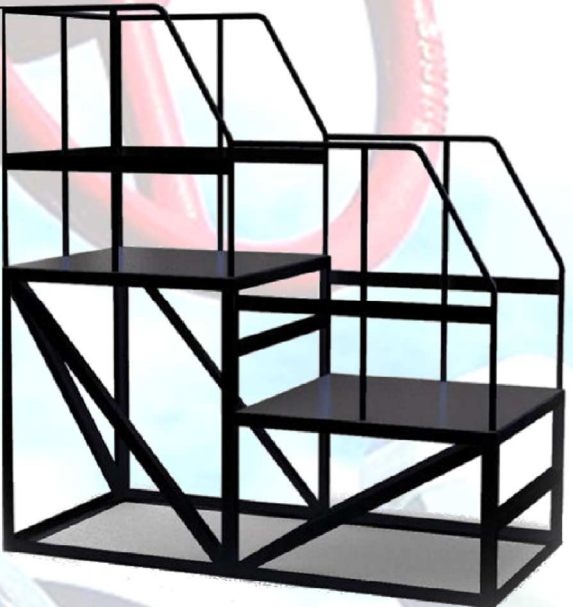
Air pressure supply to the air screwdriver from the workshop network is performed by quick release connection that allows to replace the air screwdriver easily. The air from the workshop network is supplied to the air screwdriver through the air preparation unit.

The air screwdriver is supplied in assembly with the pressure hose and fittings.



Max. torque, Nm		Pneumatic impact screwdriver with shank end 1": 2439 Pneumatic impact screwdriver with shank end 1/2": 813
Air consumption, l/min		Pneumatic impact screwdriver with shank end 1": 708 Pneumatic impact screwdriver with shank end 1/2": 480
Supplied air pressure, bar		Pneumatic impact screwdriver with shank end 1": 6 Pneumatic impact screwdriver with shank end 1/2": 6
Balance beam capacity, kg	14	
Cable traverse, m	2	
Air pressure supplied to the air preparation unit, bar	6	
Air consumption at the pressure of 6 bar, nl/min	2380	
Max. servicing zone radius, mm	1500	
Stand height, mm, not exceeding:	2650	

## Disassembling & Assembling equipment

	Weight, kg, not exceeding	68
9	Stand for valve disassembling / assembling with ladder	
	Description	<p>The stand is designed for assembling/disassembling of the flanged pipeline valves DN 350 – 600 (NPS 14 – 24). Scope of supply includes set of accessories for mounting of the valves at the stand. The ladder is designed to simplify the process of the valves of large valve size.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
	Assembled and disassembled valves nominal diameters, mm	350 – 600 (NPS 14 – 24)
	Valve fixing method	By movable valve holding devices
	Flanged valves mounting	Through the flange bolting holes
	Overall dimensions (LxWxH), mm, not exceeding	Stand: 1438 x 650 x 406 Ladder: 1600 x 800 x 1704
	Weight, kg, not exceeding	Stand: 221 Ladder: 90

## Disassembling & Assembling equipment

### Spare parts, consumables, additional services:

#### 1. Set of spare parts and consumables for 2 years of operation.

Set of spare parts includes all necessary consumables for two years of normal operation of the equipment. Spare parts kit is included to the scope of supply and will be supplied along with equipment.

#### 2. Factory acceptance, testing and supervision during installation and start-up. Training on customer site. Warranty and after sales service.

In accordance with internal QMS system (certified and based on ISO 9001-2015 requirements), our Quality Department will provide FAT program and corresponding agenda upon customer's request for participation in factory acceptance testing of the manufactured equipment before it's dispatch.

**All the equipment stated above is certified in accordance with EN 60204-1, EN ISO12100:2010, EN 2006/42/EC, EN 2014/35/EC requirements, supplied with the EU Declaration of Conformity and has the CE Marking.**

Upon request, qualified and experienced engineers of REVALVE can perform control over the installation and commissioning of the equipment.

#### Installation period should begin only after receiving the following confirmation:

- All the equipment is received at the installation site;
- All the installation requirements (procedures, equipment, accessories, qualified personnel etc.) are fulfilled (the list of requirements will be prepared in advance by REVALVE service team).

#### Under request, our qualified engineers can:

- Supervise the installation of the equipment and its launch;
- Perform the final preparation of the equipment assisting customer personnel.

#### Personnel training on customer's site:

We assign the utmost value to appropriate customer personnel user-training to ensure safe and efficient running and maintenance of the equipment. We consider that personnel user-training is sufficiently required, especially in cases where the personnel have no experience operating our precise equipment.

The proper study of equipment design features, safe operation requirements and maintenance methods increases the performance of the equipment, and prolongs its service life.

Training can be conducted both in Russian and in English languages.

The expected time period required for start-up supervision, commissioning and training will be determined in a due time upon request.

#### Warranty and after sales service.

REVALVE provides 18-month warranty after the equipment dispatch and 12-month warranty after the launch date of the equipment at customer site or 18 months since the date of dispatch. The assumed service life of our equipment is 8 years, at least.

REVALVE is a customer-centric company and our assistance policy is based on a long-term partnership with our customers.

#### We have a full-cycle in-house manufacturing:

- Designing.
- Raw materials preparation treatment;
- All types of machining procedures using high-duty CNC centers (our production facilities; account more than 200 machining units);
- Spare parts supplied by the approved world-famous manufacturers;
- Full-cycle paint coating;
- Assembling and testing of manufactured equipment with load 1,5 times exceeding nominal;
- Installation and start-up supervision;
- Comprehensive user-training.

Our customer-centric approach to the support policy ensures a due time spare parts supply and support through all service life of the products.