

FABRYKA ARMATUR "SWARZĘDZ" sp. z o.o.

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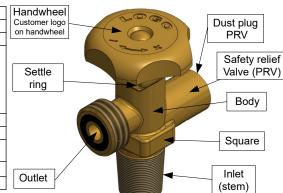
Z6MB - LPG gas cylinder valve with safety relief- manually operated

Don't use Z6MB gas valve in applications different than described in this instruction.

1. Application

Z6MB valve is an equipment of gas cylinder (from 0,5L up to 150L water capacity) for liquid petroleum gases: technical propane-butane, technical propane, technical butane. Valve can be used to fill or emptying gas cylinder. Valve is manually operated and the directions of opening and closing are marked on the handwheel by arrows with plus (Open) and minus (Close) sign. Valve is manufactured and checked on compatibility with international standard and its polish equivalent *PN-EN ISO 15995*. The valve structure is designed for use in a cylinder fitted with a shroud, protection cap or other valve cover against impacts. This valve is equipped in pressure relief valve emptying the cylinder of excess gas when the pressure in the cylinder reaches the nominal set pressure. Safety relief valve was made according to *PN-EN 13953*.

Test pressure	4,5 [MPa]
Work temp. scope	from -20°C to +65°C
Valve inlet	17E acc. PN-EN ISO 11363-1:2010
Valve outlet	- standard - type G.12 (acc. PN-EN 15202:2012) formerly type E - W21.8L (with gasket in outlet) - alternative - type G.5 (acc. PN-EN 15202:2012) formerly type B - W21.8 (without gasket in outlet) - alternative - type G.4 (acc. PN-EN 15202:2012) - alternative - type G.2 (acc. PN-EN 15202:2012)
Valve versions	standard
Optional equipment	- outlet nut
Lifetime	13000 openings/closings Given value is correct for storage and using in room temperature and conditions
Safety relief valve	Nominal set pressure: 3,5 [MPa]
	Nominal discharge capacity: 1,2 [m3/min.]



Assembly

Before assembly in gas cylinder you have to check the valve is not damaged or dirty outside or inside and the condition of the threads dimensions. Do not install the valve without the dust plug PRV, dirty inside or outside and with a damaged thread.

Each manufactured valve is checked for tightness and marked with the KJ mark after successfully passing the tightness check.

Before assembly valve in gas cylinder you should seal stem threat of the valve with PTFE tape or other equivalent, which guarantee tightness and correct valve thread engagement. For the assembly, use only this suitable tools such as torque spanner or valving machine with torque regulation, which must be calibrated according to tools producer requirements.

Grip of the tools is only allowed on valve body square 24mm.

3. Torque values

- Maximal endurance guarantee of the handwheel on closing torque 20Nm and opening torque 22Nm (it's not recommended to apply torque grater than 3Nm in normal work)
- Maximal guarantee torque to assembly valve in steel gas cylinder neck 130Nm (it's not recommended to apply this value in assembly)

 Note the torque valve quoted are for use with PTFE tape thread sealant; for other sealants this torque can be different to make a tight connection and correct valve engagement in gas cylinder neck
- Valve should be closing with torque not exceeding 3Nm with grip on handwheel
- It's not allowed to exceed torques described in this instruction

4. Testing

Valve on each assembly must be checked for tightness test in the work pressure. To check presence of leaks it's not allowed to use the substances with ammonia. You should check all valve connections. Especially you should check the connections: cylinder-valve, body-settle ring, body-handwheel and valve outlet

It is forbidden to repair the leakage spots of valve. If valve have leaks, any thread it's damaged or in valve is some dirt, which affected some leaks, the valve must be replaced for a new one.

5. Usage and maintenance

The condition of the valve depends on the environment, in which it worked. In each gas cylinder filling you should make sure that valve is not damaged. If the cylinder has been exposed to flames, the valve must be replaced. Valves, in which safety relief valve had worked (overpressure exceed maximum level), must be replaced.

Reconditioning or making valve incomplete is forbidden (inseparable construction) and is forbidden to grind down any identification marks or text (such as customer logo on handwheel) from the valve.

It's recommended to change outlet gasket on each filling of cylinder or on every damage of gasket (type and specification of gasket acc. PN-EN 15202:2012). Caps and spare parts can be obtained from suppliers of gas equipment.

6. Transport

Valve mounted in gas cylinder can be transported only on conditions of European directive ADR/RID.

Outlet of valve mounted in gas cylinder (independently of level of the gas inside the cylinder) must be protected by the outlet nut during the transport (it protects against gas leakage on unintentional opening of valve and protects against dirt).

It's not allowed to use handwheel as grip to transport the gas cylinder.

7. Identification

	Manufacturer's logo - FAS
1 1017	ADR conformity mark and number of notified body
YY MM	Date code of manufacture,where: YY-year, MM-month
17E	Identification of cylinder connection
K1 X	Quality Contol Mark where: X is employee number
3.5MPa	Nominal set pressure
1.2	Nominal discharge capacity [m3/min.]

NOTICE!

- With gas installations can work only trained personnel
- It's necessary to check condition of gas installation regularly

If you smell gas:

- Don't use phone or other electrical devices
- Open windows and doors, extinguish all flames, don't smoke cigarettes

Close the valves of the cylinders and valves on gas equipment

- Immediately contact with your gas supplier from neighbour phone
- If you can't contact with your supplier and gas leak is enough to make an explosion, contact Fire Brigade!



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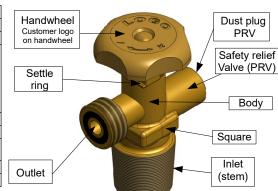
Z6DB - LPG gas cylinder valve with safety relief- manually operated

Don't use Z6DB gas valve in applications different than described in this instruction.

Application

Z6DB valve is an equipment of gas cylinder (from 0,5L up to 150L water capacity) for liquid petroleum gases: technical propane, technical propane, technical butane. Valve can be used to fill or emptying gas cylinder. Valve is manually operated and the directions of opening and closing are marked on the handwheel by arrows with plus (Open) and minus (Close) sign. Valve is manufactured and checked on compatibility with international standard and its polish equivalent *PN-EN ISO 15995*. The valve structure is designed for use in a cylinder fitted with a shroud, protection cap or other valve cover against impacts. This valve is equipped in pressure relief valve emptying the cylinder of excess gas when the pressure in the cylinder reaches the nominal set pressure. Safety relief valve was made according to *PN-EN 13953*.

mer valve was made according to 174 E14 10000.		
Test pressure	4,5 [MPa]	
Work temp. scope	from -20°C to +65°C	
Valve inlet	25E acc. PN-EN ISO 11363-1:2010	
Valve outlet	 standard - type G.12 (acc. PN-EN 15202:2012) formerly type E - W21.8L (with gasket in outlet) alternative - type G.5 (acc. PN-EN 15202:2012) formerly type B - W21.8 (without gasket in outlet) alternative - type G.4 (acc. PN-EN 15202:2012) alternative - type G.2 (acc. PN-EN 15202:2012) 	
Valve versions	standard	
Optional equipment	- outlet nut	
Lifetime	13000 openings/closings Given value is correct for storage and using in room temperature and conditions	
Safety relief valve	Nominal set pressure: 3,5 [MPa]	
	Nominal discharge capacity: 1,2 [m3/min.]	



2. Assembly

Before assembly in gas cylinder you have to check the valve is not damaged or dirty outside or inside and the condition of the threads dimensions. Do not install the valve without the dust plug PRV, dirty inside or outside and with a damaged thread.

Each manufactured valve is checked for tightness and marked with the KJ mark after successfully passing the tightness check.

Before assembly valve in gas cylinder you should seal stem threat of the valve with PTFE tape or other equivalent, which guarantee tightness and correct valve thread engagement. For the assembly, use only this suitable tools such as torque spanner or valving machine with torque regulation, which must be calibrated according to tools producer requirements.

Grip of the tools is only allowed on valve body square 24mm.

3. Torque values

- Maximal endurance guarantee of the handwheel on closing torque 20Nm and opening torque 22Nm (it's not recommended to apply torque grater than 3Nm in normal work)
 - Maximal guarantee torque to assembly valve in steel gas cylinder neck 250Nm (it's not recommended to apply this value in assembly)
 - Note the torque valve quoted are for use with PTFE tape thread sealant; for other sealants this torque can be different to make a tight connection and correct valve engagement in gas cylinder neck
- Valve should be closing with torque not exceeding 3Nm with grip on handwheel

It's not allowed to exceed torques described in this instruction

4. Testing

Valve on each assembly must be checked for tightness test in the work pressure. To check presence of leaks it's not allowed to use the substances with ammonia. You should check all valve connections. Especially you should check the connections: cylinder-valve, body-settle ring, body-handwheel and valve outlet.

It is forbidden to repair the leakage spots of valve. If valve have leaks, any thread it's damaged or in valve is some dirt, which affected some leaks, the valve must be replaced for a new one.

5. Usage and maintenance

The condition of the valve depends on the environment, in which it worked. In each gas cylinder filling you should make sure that valve is not damaged. If the cylinder has been exposed to flames, the valve must be replaced. Valves, in which safety relief valve had worked (overpressure exceed maximum level), must be replaced.

Reconditioning or making valve incomplete is forbidden (inseparable construction) and is forbidden to grind down any identification marks or text (such as customer logo on handwheel) from the valve.

It's recommended to change outlet gasket on each filling of cylinder or on every damage of gasket (type and specification of gasket acc. PN-EN 15202:2012). Caps and spare parts can be obtained from suppliers of gas equipment.

6. Transport

Valve mounted in gas cylinder can be transported only on conditions of European directive ADR/RID.

Outlet of valve mounted in gas cylinder (independently of level of the gas inside the cylinder) must be protected by the outlet nut during the transport (it protects against gas leakage on unintentional opening of valve and protects against dirt).

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K1 X	Quality Contol Mark where: X is employee number
3.5MPa	Nominal set pressure
1.2	Nominal discharge capacity [m3/min.]

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