



Disassembly Instructions. Increase special knowledge.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

Aim of this presentation is to show how to disassemble the Pop Action Pilot Valve.





Disassembly Instructions. Removing the seal.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps – Descriptions

Cut wire with combination pliers

Pull out seal

2. Supplies

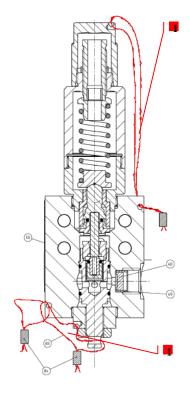
None

3. Tools

Combination pliers

4. Appliance

None





Disassembly Instructions. Remove the cap and bug-screen.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

- Loosen cap [40] and screw off While loosening cap [40] counter bonnet [9]
- Unscrew and remove bug-screen [64] Option Test Gag:
- Unscrew screw in the cap [40] While loosening test gag counter bonnet [9]

2. Supplies

None

3. Tools

Open-end wrench acc. to LID

4. Appliance



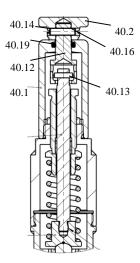


Disassembly Instructions. Disassembly of Pilot Lifting Device (optional only).

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

- Remove securing ring [40.14]Dismount roll pin [40.16]Dismount lifting button [40.2]
- Loosen cap [40.1]
 Dismount parallel pin [40.13]
 Dismount space coupling [40.12]
- Remove o-ring [40.19]











Disassembly Instructions. Disassembly of Pilot Lifting Device (optional only).

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

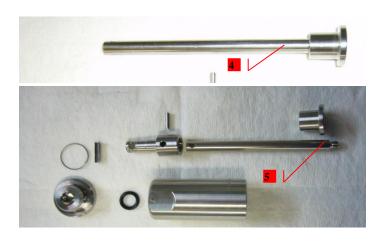
2. Supplies

None

3. Tools

- Open-end wrench acc. to LID
- Drift pin

4. Appliance





Disassembly Instructions. Disassembly of the bonnet and spindle unit.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps – Descriptions

- Loosen lock nut [19] Apply an open-end wrench in a counterclockwise direction on adjusting screw [18] until no more pressure can be felt from spring.
- Loosen bonnet [9] with open-end wrench and screw it off
- Remove (upper) spring plate [16], spring and (lower) spring plate [17]







Disassembly Instructions. Disassembly of the bonnet and spindle unit.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

2. Supplies

None

3. Tools

Open-end wrench acc. to LID

4. Appliance





Disassembly Instructions Disassembly of the bonnet.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

- Screw adjusting screw unit out of bonnet [9]
- Screw off lock nut [19]
- Detach PTFE-bushing out of adjusting screw [18]

2. Supplies

None

3. Tools

 If necessary, in case of sluggishness an openend wrench

4. Appliance







Disassembly Instructions Disassembly of the body.

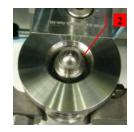
1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

- Screw off bonnet, base part [10] with open-end wrench
- Remove piston guide [11] and guide [2]
- Remove plunger [15]
- Remove (upper) seat, exhaust [13] and (lower) seat, exhaust [14]















Disassembly Instructions Disassembly of the body.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

Remove gasket [35]

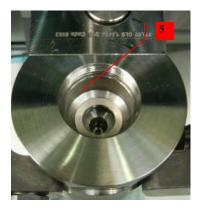
2. Supplies

None

3. Tools

Open-end wrench acc. to LID

4. Appliance









Disassembly Instructions Disassembly of the seat.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

Separate seat by pulling (upper) seat, exhaust [13] and (lower) seat, exhaust [14] apart

2. Supplies

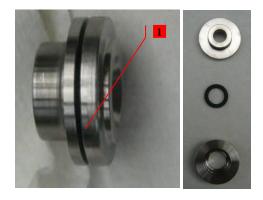
None

3. Tools

None

4. Appliance

None





Disassembly Instructions Removing the adjusting screw.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps – Descriptions

- Measure adjustment of adjusting screw [12] to establish same adjustment after refinishing pilot valve
- Loosen and remove counter nut [21]
- Loosen nut [20] of adjusting screw [12]
- Pull out adjusting screw [12]

2. Supplies

None









Disassembly Instructions Removing the adjusting screw.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

3. Tools

- Hook tool for O-rings
- Open-end wrench acc. to LID

4. Appliance









Disassembly Instructions Disassembly of the adjusting screw.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps - Descriptions

- Unscrew nut [20] of adjusting screw[12] with open-end wrench
- Remove O-rings with hook tool
- Place adjusting screw [12] in assembling aid pilot (optional: parallel vice with aluminium jaws).
 - Unscrew seat, feeding [5] and screw it off the adjusting screw [12] with openend wrench











Disassembly Instructions Disassembly of the adjusting screw.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

Pull (upper) disc feeding [7] and (lower) disc feeding [8] out of adjusting screw [12]

Pull (upper) disc, feeding [7] out of (lower) seat feeding [8]

Remove O-Ring 6,07x1,78 [30] from (upper) disc feeding [7]

2. Supplies

None

3. Tools

- Open-end wrench acc. to LID
- Hook tool for O-ring
- Drift pin





Disassembly Instructions Disassembly of the adjusting screw.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

4. Appliance

 Parallel vice with aluminium jaws or as recommended with Assembling aid (60S.2512.4012)





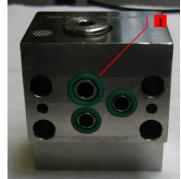
Disassembly Instructions Disassembly of the manifold block.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

1. Steps – Descriptions

- Remove piston [24.3], bushing [24.2] and O-rings
- Remove O-rings of piston [24.3]
- Remove O-rings of bushing [24.2]
- Screw off lock screw [24.7] and take out gasket [24.8]











Disassembly Instructions Disassembly of the manifold block.

1. Objectives | 2. Seal | 3. Cap and bug-screen | 4. Pilot Lifting Device | 5. Bonnet and pindle unit | 6. Body | 7. Seat | 8. Adjusting screw | 9. Manifold block

2. Supplies

None

3. Tools

- Allen key acc. to LID
- Hook tool for O-rings

4. Appliance

- Parallel vice with aluminium jaws
- Test bench

