REMS Multi-Push

Powerful, compact, electronic flushing and pressure testing unit with oil-free compressor. For flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems, for pressure testing of pipe systems and vessels with compressed air or water, as a pneumatic pump for controlled filling of all types of vessels with compressed air and for operation of pneumatic tools.

Flushes
Water pressure pipe network  p ≤ 1 MPa/10 bar/145 psi
Pipe diameter installation ≤ DN 50, 2"

Disinfection of drinking water installations
Cleaning and preservation of heating systems
Water temperature 5 – 35°C
Water flow ≤ 5 m³/h

Pressure test
with compressed air  p ≤ 0.4 MPa/4 bar/58 psi
Pressure test with water  p ≤ 1.8 MPa/18 bar/261 psi

Pneumatic pump for controlled filling of all types of vessels with compressed air  p ≤ 0.8 MPa/8 bar/116 psi

Operating pressure  p ≤ 0.8 MPa/8 bar/116 psi
Suction rate ≤ 230 Nl/min

REMS Multi-Push – just one device with more than 10 automatically running flushing and pressure testing programs. Permanent process monitoring. Logging, USB interface.

Universal use
Only one device for flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems, for pressure testing of pipe systems and vessels with compressed air or water, e.g. drinking water installations, radiators or area heating systems, for pressure testing of gas installations with compressed air, as a pneumatic pump for controlled filling of all types of vessels with compressed air, e.g. for pumping up expansion vessels or tyres and for operating pneumatic tools. (Patent EP 2 816 231 pending).

Design
Powerful, compact, electronic flushing and pressure testing unit with oil-free compressor. Handy, easily portable, REMS Multi-Push SL only 37 kg, REMS Multi-Push SLW only 39 kg. Measuring and control devices for automatically running the flushing and test programs and for documenting the results. Safety devices for avoiding contamination of the pipe network by flow-back. Overpressure valves for pressure limiting. 5 μm condensation and particle filters. Large tubular steel frame as a compressed air tank. Two practical handles for easy carrying. Space-saving, folding handle grip for easy movement. Mobile tubular steel frame with two rubber-tyred wheels for easy transport and 2 rubber feet for firm standing. Connecting cable with integrated personal protection switch (PRCD). Captive seals for inputs and outputs of the REMS Multi-Push to avoid contamination during transport and storage.

REMS Multi-Push SLW additionally with hydro-pneumatic water pump for generating the necessary water pressure for hydrostatic pressure testing of pipe systems and vessels with water.

Compressor
Proven, powerful, oil-free piston compressor with crank drive, with capacitor motor 230V, 1500W. Pressure gauge for displaying the air pressure in the compressed air tank. Emergency stop button.

Hoses
Transparent Ø 1” suction/pressure hose, with fabric inlay, 1.5 m long, with 1" hose screw fittings, with caps, for flushing, disinfection, cleaning, preservation and pressure testing with water. High-pressure hose Ø ½”, with fabric inlay, 1.5 m long, with ½” hose screw fittings, with caps, for pressure testing with water with REMS Multi-Push SLW. Captive caps for the inputs and outputs of the hoses to avoid contamination during transport and storage. Compressed air hose Ø 8 mm, 1.5 m long, with quick coupling DN 5 and ½” hose screw fitting, for pressure testing with compressed air. Compressed air hose Ø 8 mm, 1.5 m long, with quick coupling DN 5 (plug, socket) for gas testing with compressed air. Connecting hose compressor/water connections, 0.6 m long, with quick coupling DN 7/2 and 1” hose screw fitting, 1” double nipple, for blowing out water remains from REMS Multi-Push and suction/pressure hoses at the end of work.
Input and control unit
Easy to operate. Menu-guided input and menu-guided control of more than 10 flushing and test programs in 26 languages with edit option for the user to adapt the factory-set test criteria (test sequences, pressures and times) or defaults to the respective national safety provisions, rules and regulations valid for the application site. Format selection for date and time and selection of the different units. Input and control unit with 3” display with modern LCD technology, 76 mm screen diagonal, 128 x 64 pixels. Permanent process monitoring during the program sequences. USB port for USB stick or printer. The respective latest version software for the input and control unit is available via USB stick as a download under www.rems.de -> Downloads -> Software.

Flushing
Flushing of drinking water installations with water or with a water/air mixture with intermittent compressed air in accordance with EN 806-4:2010 and information leaflet "Flushing, Disinfection and Commissioning of Drinking Water Installations" (August 2014) of the German Central Association for Sanitary, Heating and Air Conditioning (ZVSHK) and for flushing of radiators and area heating systems.

Disinfection
REMS V-Jet TW disinfection unit for disinfection of drinking water installations in accordance with EN 806-4:2010 and information leaflet "Flushing, Disinfection and Commissioning of Drinking Water Installations" (August 2014) of the German Central Association for Sanitary, Heating and Air Conditioning (ZVSHK) and other pipe systems, as an accessory. REMS Peroxi Color, consisting of a 1l bottle of REMS Peroxi dosing solution for disinfection of approx. 100 l volume and 20 ml bottle of red REMS Color dye for dyeing the dosing solution for filling and wash-out check, pipette for checking the effectiveness of the dosing solution (page 113). Feeding of the disinfectant solution without additional dosing pump (Patent EP 2 954 960 pending).

Cleaning and preservation
REMS V-Jet H cleaning and preservation unit for cleaning and preserving heating systems, as an accessory. Cleaner, dyed green for filling and wash-out check and corrosion protection, dyed blue for filling check, for approx. 100 l volume respectively (page 113). Feeding of cleaner and corrosion protection without additional dosing pump (Patent EP 2 954 960 pending).

Pressure testing with compressed air
- Leak testing of drinking water installations with compressed air according to information leaflet "Leak Testing of Drinking Water Installations with Compressed Air, Inert Gas or Water" (January 2011) of the German Central Association for Sanitary, Heating and Air Conditioning (ZVSHK), in testing of gas installations with compressed air according to the technical rule "DVGW-TRGI 2008, Technical Rules for Gas Installations - DVGW Worksheet G 600" of the German Gas and Water Association (DVGW) and leak testing of other pipe systems and vessels with compressed air.
- Load testing of drinking water installations with compressed air according to information leaflet "Leak Testing of Drinking Water Installations with Compressed Air, Inert Gas or Water" (January 2011) of the German Central Association for Sanitary, Heating and Air Conditioning (ZVSHK), load testing of gas installations with compressed air according to the technical rule "DVGW-TRGI 2008, Technical Rules for Gas Installations - DVGW Worksheet G 600" of the German Gas and Water Association (DVGW) and load testing of other pipe systems and vessels with compressed air.

Pressure testing with water
REMS Multi-Push SLW with hydro-pneumatic water pump for hydrostatic pressure testing of drinking water installations with water in accordance with EN 806-4:2010, test method A, B or C or test method B, modified in accordance with information leaflet "Leak Testing of Drinking Water Installations with Compressed Air, Inert Gas or Water" (January 2011) of the German Central Association for Sanitary, Heating and Air Conditioning (ZVSHK) and for pressure testing of other pipe systems and vessels.

Pneumatic pump
Pneumatic pump for controlled filling of all types of vessels with compressed air ≤ 0.8 MPa/8 bar/116 psi, with automatic switch-off on reaching the preset air pressure, e.g. for pumping up expansion vessels or tyres.

Operation of pneumatic tools
Connection for pneumatic tools up to an air requirement ≤ 230 Nl/min, adjustable, for adaptation to the pneumatic tool being used. Pressure gauge for controlling the air pressure supplied by the compressed air tank. Pneumatic hose with quick coupling DN 7.2, as an accessory.

Logging
Results of the flushing and test programs are saved with date, time and log number in the selected language and can be transferred to USB stick or printer for documentation. Printer as an accessory. Additions to saved data, e.g. customer name, project number, tester, are possible on external devices (e.g. PC, laptop, tablet-PC, Smartphone).
REMS Multi-Push

Supply format
REMS Multi-Push SL Set. Electronic flushing and pressure testing unit with oil-free compressor. For flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems, for pressure testing of pipe systems and vessels with compressed air, as a pneumatic pump for controlled filling of all types of vessels with compressed air $p \leq 0.8$ MPa/8 bar/116 psi, and for operation of pneumatic tools $\leq 230$ Nl/min. Input and control unit: Piston compressor with crank drive, capacitor motor 230V: 50 Hz, 1,500 W, person circuit breaker (PRCD). Mobile tubular steel frame. Fastenings for water inputs and outputs of the REMS Multi-Push. Two $\Omega$1" suction/pressure hoses, with fabric inlay, 1.5m long, with 1" hose screw fittings, with caps. One $\Omega$8 mm compressed air hose, 1.5m long, with quick coupling DN 5 and G ½" hose screw fitting, for pressure testing with compressed air. Connecting hose compressor/water connections, 0.6 m long, with quick coupling DN 7.2 and 1" hose screw fitting, 1" double nipple, for blowing out water remains from REMS Multi-Push and suction/ pressure hoses at the end of work. Without disinfection unit, without cleaning and preservation unit. In a carton.

<table>
<thead>
<tr>
<th>Art.-No.</th>
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<tbody>
<tr>
<td>115610</td>
<td>Supply format REMS Multi-Push SL Set. Electronic flushing and pressure testing unit with oil-free compressor. For flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems, for pressure testing of pipe systems and vessels with compressed air, as a pneumatic pump for controlled filling of all types of vessels with compressed air $p \leq 0.8$ MPa/8 bar/116 psi, and for operation of pneumatic tools $\leq 230$ Nl/min. Input and control unit: Piston compressor with crank drive, capacitor motor 230V: 50 Hz, 1,500 W, person circuit breaker (PRCD). Mobile tubular steel frame. Fastenings for water inputs and outputs of the REMS Multi-Push. Two $\Omega$1&quot; suction/pressure hoses, with fabric inlay, 1.5m long, with 1&quot; hose screw fittings, with caps. One $\Omega$8 mm compressed air hose, 1.5m long, with quick coupling DN 5 and G ½&quot; hose screw fitting, for pressure testing with compressed air. Connecting hose compressor/water connections, 0.6 m long, with quick coupling DN 7.2 and 1&quot; hose screw fitting, 1&quot; double nipple, for blowing out water remains from REMS Multi-Push and suction/pressure hoses at the end of work. Without disinfection unit, without cleaning and preservation unit. In a carton.</td>
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Other voltages on request.

- Fine filter with fine filter cartridge 90 μm, washable, with large dirt collection vessel
- Fine filter cartridge 90 μm, for fine filter with fine filter cartridge 90 μm
- Pressure gauge, $p \leq 6$ MPa/60 bar/870 psi, for pressure and leak testing of pipe systems and vessels up to 6 MPa/60 bar/870 psi.
- Fine scaled pressure gauge, $p \leq 1.6$ MPa/16 bar/232 psi, for pressure and leak testing of pipe systems and vessels up to 1.6 MPa/16 bar/232 psi. CL 1.0.
- Fine scaled pressure gauge, $p \leq 250$ hPa/250 mbar/3.6 psi, for pressure and leak testing of pipe systems and vessels up to 250 hPa/250 mbar/3.6 psi. CL 1.6.
- Compressed air hose Ø 14 mm, 1.5m long, with quick couplings DN 7.2 (plug, socket), for connecting pneumatic tools
- Compressed air hose Ø 8 mm, 7 m long, with quick coupling DN 5 (plug) and G ½" hose screw fitting, for pressure testing with compressed air.
- Compressed air hose Ø 8 mm, 1.5m long, with quick coupling DN 5 (plug, socket) for gas testing with compressed air.
- High-pressure hose Ø ½", 7 m long, with G ½" hose screw fittings, with caps, for pressure testing of pipe systems and vessels with water with REMS Multi-Push SLW.
- Ø 1" suction/pressure hose, with fabric inlay, 1.5m long, with G 1" screw fittings for flushing, disinfection, cleaning, preservation and pressure testing with water.
- Double nipple 1", for connecting 2 suction/pressure hoses and blowing out the suction/pressure hoses

Other voltages on request.

Supply format
REMS Multi-Push SLW Set. Same as REMS Multi-Push SL Set, Art. No. 115610, additionally with hydro-pneumatic water pump and one high-pressure hose Ø ½", 1.5m long, with ½" hose screw fittings, with caps, for pressure testing of pipe systems and vessels with water. In a carton.

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<tr>
<td>115611</td>
<td>Supply format REMS Multi-Push SLW Set. Same as REMS Multi-Push SL Set, Art. No. 115610, additionally with hydro-pneumatic water pump and one high-pressure hose Ø ½&quot;, 1.5m long, with ½&quot; hose screw fittings, with caps, for pressure testing of pipe systems and vessels with water. In a carton.</td>
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Other voltages on request.