

# TESTING, FILLING, FLUSHING

## PIPETOOLS CATALOGUE



# Pressure testing









## Cleaning

## Disinfecting

## Preserving

## Flushing

## Filling

	<b>Hand pressure testing pump</b>	<b>114</b>
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Proven, reliable testing pump for pressure and tightness tests of piping systems and receptacles.	
Testing and pressure range	≤ 6 MPa/60 bar/870 psi
Water, oil, glycol	
pH-value of liquids	7 – 12
Temperature of liquids	≤ 60°C
Viscosity of liquids	≤ 1.5 mPa s

REMS Push – reliable pressure hold.

Universal use

For plumbing, heating, solar system and sprinkler installations, for compressed air, steam and cooling systems, oil installations, for boiler and pressure vessel building.

Design

Robust, job-site proven metal design for tough use. REMS Push with corrosion-resistant, powder-coated 12 ltr steel tank. Distortion resistant lever with ergonomic handle, doubles as carrying handle when locked. Wear resistant pressure piston in brass, Ø 30 mm. High-pressure hose with 1/2"-connection. Fine scale pressure gauge (accessory), p ≤ 1.6 MPa/16 bar/232 psi, for reading a pressure change of 0.01 MPa/0.1 bar/1.45 psi for tightness testing according to DIN 1988, as accessory.

Stainless steel tank

REMS Push INOX with 12 ltr stainless steel tank. For extremely long life.

Functioning

Pressure and tightness test with water or oil. Double valve system for reliable pressure built-up, with rust-proof steel balls. High pumping capacity with long stroke, fine pressure adjustment at short pushes. High pressure hose with fabric ply prevents measurement errors.



Info

Supply format

**REMS Push.** Hand pressure testing pump with pressure gauge, p ≤ 6 MPa/60 bar/870 psi, for pressure and tightness testing of piping systems and receptacles up to 6 MPa/60 bar/870 psi, Corrosion-resistant, powder-coated 12 ltr steel tank. 1.5 m high-pressure hose with 1/2"-connection. In a carton.

	Art.-No.	
	115000	



Supply format

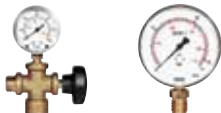
**REMS Push INOX.** Hand pressure testing pump with pressure gauge, p ≤ 6 MPa/60 bar/870 psi, for pressure and tightness testing of piping systems and receptacles up to 6 MPa/60 bar/870 psi. 12 ltr stainless steel tank. 1.5 m high-pressure hose with 1/2"-connection. In a carton.

	Art.-No.	
	115001	



Accessories

Description	Pressure p ≤ MPa/bar/psi	Art.-No.	
Connecting piece with pressure gauge and shut off valve	6/60/870	115110	
Fine scale pressure gauge	1.6/16/232	115045	



Powerful, electric pressure testing pump for pressure and tightness tests of piping systems and receptacles.	
Testing and pressure range	≤ 6 MPa/60 bar/870 psi
Pumping capacity	6.5 l/min
Water, hydrous solutions, emulsions	
pH-value of liquids	7 – 10
Temperature of liquids	≤ 60°C
Viscosity of liquids	≤ 1.5 mPa s

**REMS E-Push 2 – electric charging and testing.**  
**Up to 60 bar. With adjustable pressure limiting.**  
**1300 W. Self sucking.**

**Universal use**

In sanitary, heating, solar and sprinkler installation, for compressed air, steam and cooling systems, oil installations, in boiler and pressurised vessel construction.

**Design**

Robust, compact, light. Weighs only 10 kg. Easy to carry. Wear reduced high power piston pump. Pressure gauge, damped by filling with glycerine,  $p \leq 6 \text{ MPa}/60 \text{ bar}/870 \text{ psi}$ . High-pressure hose with fabric ply prevents measurement errors. Suction hose with suction filter. Non-return valve in the suction hose prevents the suction hose from running empty in standstill times; therefore shorter suction times. Suction hose and high pressure hose with  $\frac{1}{2}$ "-connection. Connecting piece with pressure gauge,  $p \leq 6 \text{ MPa}/60 \text{ bar}/870 \text{ psi}$ , and shut off valve for pressure and tightness testing also after removal of the high pressure pump, e.g. theft protection or for use at several testing points, as accessory. Fine scale pressure gauge,  $p \leq 1.6 \text{ MPa}/16 \text{ bar}/232 \text{ psi}$ , for reading a pressure change of  $0.01 \text{ MPa}/0.1 \text{ bar}/1.45 \text{ psi}$  for tightness testing according to DIN 1988, as accessory.

**High power piston pump**

Self-sucking high power piston pump running in a sealed oil bath with wear reduced pressure piston in stainless steel. Proven, powerful capacitor motor, 1300 W, very powerful and fast. High pumping capacity of 6.5 l/min. Pressure and tightness testing up to 6 MPa/60 bar/870 psi.

**Adjustable pressure limiting**

Pressure limiting in 6 stages,  $1 - 6 \text{ MPa}/10 - 60 \text{ bar}/145 - 870 \text{ psi}$ , adjustable to the necessary pressure in the pipe system/tank.



Info



**Supply format**

**REMS E-Push 2.** Electric pressure testing pump with pressure gauge,  $p \leq 6 \text{ MPa}/60 \text{ bar}/870 \text{ psi}$ , for pressure and leak testing of pipe systems and tanks up to 6 MPa/60 bar/870 psi, with adjustable pressure limiting. Pump unit with capacitor motor 230 V, 50 Hz, 1300 W. 1.5 m suction hose with  $\frac{1}{2}$ " connection and gaskets, suction filter with non-return valve. 1.5 m high-pressure hose with  $\frac{1}{2}$ " connection and gaskets. In a carton.

	Art.-No.	
	115500	

**Accessories**

Description	Pressure $p \leq \text{MPa}/\text{bar}/\text{psi}$	Art.-No.	
<b>Connecting piece with pressure gauge and shut off valve</b>	6/60/870	115110	
<b>Fine scale pressure gauge</b>	1.6/16/232	115045	





Powerful, electric decalcifying pump for effective decalcifying of pipes and containers, e.g. flow heaters, boilers, hot water tanks, cold water tanks, heat exchangers, heating and cooling systems.

Useful container volume	21 l
Displacement	≤ 30 l/min
Displacement pressure	≤ 0.1 MPa/1.0 bar/15 psi
Transport height	≤ 10 m
Temperature of decalcifying solution	≤ 50°C

**REMS Calc-Push – effective electric decalcifying.**  
**High displacement. 3-way lever for reversal of flow direction, with zero setting.**

**Universal use**  
For effective decalcifying of pipes and containers, e.g. flow heaters, boilers, hot water tanks, cold water tanks, heat exchangers, heating and cooling systems.

**Design**  
Robust, compact, light, weights just 9.2 kg. Impact-proof plastic container for the decalcifying solution, useful container volume 21 l, with practical screw-on cap for closing the plastic container during transport. Flexible ½", 2.3 m long flexible PVC fabric hoses, with hose screw fittings with Rp ½" female thread and caps. 3-way lever for reversing the flow direction to remove even heavy lime deposits from both sides, with zero setting to interrupt the flow. Easy to carry due to centrally arranged handle with practical hose holders.

**Unscrewable pump unit**  
Compact pump unit, consisting of a centrifugal pump and condenser motor, unscrewable, for easy cleaning of the pump unit and the plastic container after the decalcifying process. Self-sucking centrifugal pump, suitable for different decalcifying solutions of acetic acid, sulphuric acid, citric acid, formic acid, phosphoric acid, sulfamic acid. With proven, powerful condenser motor with quiet running, 165 W, on/off switch. High displacement ≤ 30 l/min for effective decalcifying.



Info

<b>Supply format</b>		
<b>REMS Calc-Push.</b> Electric decalcifying pump for effective decalcifying of pipes and containers, e.g. flow heaters, boilers, hot water tanks, cold water tanks, heat exchangers, heating and cooling systems. Displacement ≤ 30 l/min, useful container volume 21 l. Pump unit with condenser motor 230 V, 50 Hz, 165 W. Displacement pressure ≤ 0.1 MPa/1.0 bar/15 psi. Transport height ≤ 10 m. Flexible ½", 2.3 m long flexible PVC fabric hoses, with hose screw fittings with Rp ½" female thread and caps. 2 double nipples ¾" – ½", 2 double nipples ½" – ¾". In a carton.		
	Art.-No.	
	115900	

Other voltages on request.



Powerful, compact, electronic flushing unit with oil-free compressor. For flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems and for operation of pneumatic tools.

Flushing and desilting

Water pressure pipe network  $p \leq 1 \text{ MPa}/10 \text{ bar}/145 \text{ psi}$

Pipe diameter installation  $\leq \text{DN } 50, 2''$

Disinfection of drinking water installations

Cleaning and preservation of radiators and area heating systems

Water temperature  $5 - 35^\circ\text{C}$

Water flow  $\leq 5 \text{ m}^3/\text{h}$

Operation of pneumatic tools

Operating pressure  $p \leq 0.8 \text{ MPa}/8 \text{ bar}/116 \text{ psi}$

Suction rate  $\leq 230 \text{ NI}/\text{min}$

**REMS Multi-Push S – Flushing with water or a water/air mixture. Easy switching of the air supply during the flushing process when desilting. 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, e.g. for desilting, cleaning and preservation of radiators and area heating systems, flushing and disinfection of drinking water installations in accordance with EN 806-4:2010 and for operating pneumatic tools.

## Design

Powerful, compact, electronic flushing unit with oil-free compressor. Handy, easily portable, only 32 kg. Measuring and control devices for automatically running the flushing programs and for documenting the results. Safety devices for avoiding contamination of the pipe network by flow-back. Overpressure valve for pressure limiting. 5  $\mu\text{m}$  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). 2 hooks for winding up the power cable. Captive seals for input and output of the REMS Multi-Push S to avoid contamination during transport and storage. Practical hood for protecting the machine during transport and storage as an accessory.

## Compressor

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

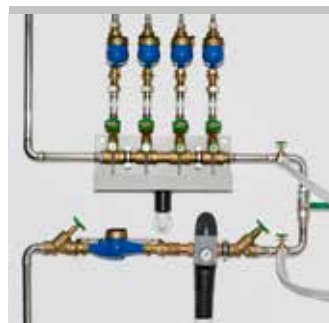
## Hoses

Transparent  $\varnothing 1''$  suction/pressure hose, with fabric inlay, 1.5 m long, with 1" hose screw fittings, with caps, for flushing, disinfection, cleaning, preservation. Captive caps for the inputs and outputs of the hoses to avoid contamination during transport and storage. 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 S and suction/pressure hoses at the end of work.

## Input and control unit

Easy desilting operation by buttons to switch over the air supply during the flushing process. Menu-guided input and menu-guided control for flushing drinking water installations according to EN 806-4:2010 with the possibility for the user to change the factory-set default values for adaptation to the applicable national safety provisions, rules and regulations 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,  $128 \times 64$  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](http://www.rems.de) > Downloads > Software.

Patent EP 2 954 960



German Quality Product



Info

Desilting and flushing

Buttons for easy switching of the air supply during the flushing process when desilting radiator and flat heater systems with the following possibilities: (1) without compressed air, (2) intermittent compressed air, (3) constant compressed air.

Flushing according to EN 806-4

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).

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 1 l bottle of REMS Peroxi dosing solution for disinfection of approx. 100 l line 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, as an accessory. Feeding of the disinfectant solution without additional dosing pump (Patent EP 2 954 960).

Cleaning and preservation

REMS V-Jet H cleaning and preservation unit for cleaning and preserving radiators and area 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 line volume respectively, as an accessory. Feeding of cleaner and corrosion protection without additional dosing pump (Patent EP 2 954 960).

Operation of pneumatic tools

Connection for pneumatic tools up to an air requirement ≤ 230 NI/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 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).



Supply format

**REMS Multi-Push S Set.** Electronic flushing unit with oil-free compressor. For flushing with water or a water/air mixture, disinfection, cleaning, preservation of pipe systems, e.g. for desilting, cleaning and preservation of radiators and area heating systems, flushing and disinfection of drinking water installations and for operation of pneumatic tools ≤ 230 NI/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 input and output of the REMS Multi-Push S. Two Ø1" suction/pressure hoses, with fabric inlay, 1.5 m long, with 1" hose screw fittings, with caps. 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 S and suction/pressure hoses at the end of work. Without disinfection unit, without cleaning and preservation unit. In a carton

	Art.-No.	
	115810	

Other voltages on request.



Description	Art.-No.	
<b>Fine filter with fine filter cartridge 90 µm</b> , washable, with large dirt collection vessel	115609	
<b>Fine filter cartridge 90 µm</b> , for fine filter with fine filter cartridge 90 µm	043054	
<b>Compressed air hose Ø 14 mm</b> , 1.5 m long, with quick couplings DN 7.2 (plug, socket), for connecting pneumatic tools	115621	
<b>Ø 1" suction/pressure hose</b> , with fabric inlay, 1.5 m long, with G 1" screw fittings for flushing, disinfection, cleaning, preservation and pressure testing with water.	115633	
<b>Double nipple 1"</b> , for connecting 2 suction/pressure hoses and blowing out the suction/pressure hoses	045159	
<b>Printer</b> for printing the stored results of the flushing and test programs, 1 roll of paper, USB connecting cable, power supply/charger Ni-Mh 100–240 V, 50–60 Hz, 3 W	115604	
<b>Paper roll</b> , pack of 5 for printer	090015	
<b>Case</b> with inlays for printer, paper rolls and other accessories	115703	
<b>REMS V-Jet TW</b> , disinfection unit for drinking water installations, for feeding dosing solution for disinfection	115602	
<b>REMS Peroxi Color</b> , 1 l bottle of REMS Peroxi dosing solution for disinfection of approx. 100 l line volume, 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.	115605	
<b>Test strips H<sub>2</sub>O<sub>2</sub> 0–1,000 mg/l</b> , pack of 100, for checking the concentration of the disinfection solution	091072	
<b>Test strips H<sub>2</sub>O<sub>2</sub> 0–50 mg/l</b> , pack of 100, for checking the complete flushing out of the disinfection solution after disinfection	091073	
<b>REMS V-Jet H</b> , cleaning and preservation unit for radiators and area heating systems, for feeding cleaner and corrosion protection.	115612	
<b>REMS CleanH</b> 1 l bottle of cleaner for radiators and area heating systems, dyed green for filling and wash-out check, for approx. 100 l line volume.	115607	
<b>REMS NoCor</b> 1 l bottle of corrosion protection for preservation of radiators and area heating systems, dyed blue for filling check, for approx. 100 l line volume.	115608	
<b>Hood</b> for protecting the machine during transport and storage	115677	
<b>XL-Boxx system case</b> for hoses	579600	





# REMS Multi-Push SL/SLW

Electronic flushing and pressure testing unit with compressor

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.

Flushing and desilting

Water pressure pipe network  $p \leq 1 \text{ MPa}/10 \text{ bar}/145 \text{ psi}$

Pipe diameter installation  $\leq \text{DN } 50, 2''$

Disinfection of drinking water installations

Cleaning and preservation of radiators and area heating systems

Water temperature  $5 - 35^\circ\text{C}$

Water flow  $\leq 5 \text{ m}^3/\text{h}$

Pressure test

with compressed air  $p \leq 0.4 \text{ MPa}/4 \text{ bar}/58 \text{ psi}$

Pressure test with water  $p \leq 1.8 \text{ MPa}/18 \text{ bar}/261 \text{ psi}$

Pneumatic pump for controlled filling of all types of vessels with compressed air  $p \leq 0.8 \text{ MPa}/8 \text{ bar}/116 \text{ psi}$

Operation of pneumatic tools

Operating pressure  $p \leq 0.8 \text{ MPa}/8 \text{ bar}/116 \text{ psi}$

Suction rate  $\leq 230 \text{ NI}/\text{min}$

**REMS Multi-Push SL/SLW – 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).

## 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  $\mu\text{m}$  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). 2 hooks for winding up the power cable. Captive seals for inputs and outputs of the REMS Multi-Push SL/SLW to avoid contamination during transport and storage. Practical hood for protecting the machine during transport and storage as an accessory.

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  $\varnothing 1''$  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  $\varnothing \frac{1}{2}''$ , with fabric inlay, 1.5 m long, with  $\frac{1}{2}''$  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  $\varnothing 8 \text{ mm}$ , 1.5 m long, with quick coupling DN 5 and  $\frac{1}{2}''$  hose screw fitting, for pressure testing with compressed air. Compressed air hose  $\varnothing 8 \text{ mm}$ , 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 SL/SLW and suction/pressure hoses at the end of work.

Patent EP 2 816 231

Patent EP 2 954 960



German Quality Product

### Input and control unit

More than 10 flushing and test programs in 26 languages. Easy desilting operation by buttons to switch over the air supply during the flushing process. Menu-guided input and menu-guided control for flushing drinking water installations according to EN 806-4:2010 with the possibility for the user to change the factory-set default values for adaptation to the applicable national safety provisions, rules and regulations 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 × 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](http://www.rems.de) > Downloads > Software.

### Desilting and flushing

Buttons for easy switching of the air supply during the flushing process when desilting radiator and flat heater systems with the following possibilities: (1) without compressed air, (2) intermittent compressed air, (3) constant compressed air.

### Flushing according to EN 806-4

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).

### 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 1 l bottle of REMS Peroxi dosing solution for disinfection of approx. 100 l line 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 123). Feeding of the disinfectant solution without additional dosing pump (**Patent EP 2 954 960**).

### Cleaning and preservation

REMS V-Jet H cleaning and preservation unit for cleaning and preserving radiators and area 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 line volume respectively (page 123). 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), leak testing of gas installations with compressed air according to the technical rule "DVGW-TRGI 2018, 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 2018, 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 NI/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 SL/SLW

Electronic flushing and pressure testing unit with compressor

## 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, e.g. for desilting, cleaning and preservation of radiators and area heating systems, flushing and disinfection of drinking water installations, 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  $p \leq 0.8 \text{ MPa}/8 \text{ bar}/116 \text{ psi}$ , and for operation of pneumatic tools  $\leq 230 \text{ NL/min}$ . 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  $\varnothing 1"$  suction/pressure hoses, with fabric inlay, 1.5 m long, with 1" hose screw fittings, with caps. One  $\varnothing 8 \text{ mm}$  compressed air hose, 1.5 m long, with quick coupling DN 5 and G  $\frac{1}{2}"$  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

Art.-No.	
115610	

Other voltages on request.



Info

## Supply format

**REMS Multi-Push SLW Set.** Same as REMS Multi-Push SL Set, Art. No. 115610, additionally 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 and for pressure testing of other pipe systems and vessels. One high-pressure hose  $\varnothing \frac{1}{2}"$ , 1.5 m long, with  $\frac{1}{2}"$  hose screw fittings, with caps. In a carton.

Art.-No.	
115611	

Other voltages on request.



Info

## Accessories

Description	Art.-No.	
<b>Fine filter with fine filter cartridge 90 <math>\mu\text{m}</math></b> , washable, with large dirt collection vessel	115609	
<b>Fine filter cartridge 90 <math>\mu\text{m}</math></b> , for fine filter with fine filter cartridge 90 $\mu\text{m}$	043054	
<b>Pressure gauge, <math>p \leq 6 \text{ MPa}/60 \text{ bar}/870 \text{ psi}</math></b> , for pressure and leak testing of pipe systems and vessels up to 6 MPa/60 bar/870 psi.	115140	
<b>Fine scaled pressure gauge, <math>p \leq 1.6 \text{ MPa}/16 \text{ bar}/232 \text{ psi}</math></b> , for pressure and leak testing of pipe systems and vessels up to 1.6 MPa/16 bar/232 psi. CL 1.0.	115045	
<b>Fine scaled pressure gauge, <math>p \leq 250 \text{ hPa}/250 \text{ mbar}/3.6 \text{ psi}</math></b> , for pressure and leak testing of pipe systems and vessels up to 250 hPa/250 mbar/3.6 psi. CL 1.6.	047069	
<b>Compressed air hose <math>\varnothing 14 \text{ mm}</math></b> , 1.5 m long, with quick couplings DN 7.2 (plug, socket), for connecting pneumatic tools	115621	
<b>Compressed air hose <math>\varnothing 8 \text{ mm}</math></b> , 7 m long, with quick coupling DN 5 (plug) and G $\frac{1}{2}"$ hose screw fitting, for pressure testing with compressed air.	115667	
<b>Compressed air hose <math>\varnothing 8 \text{ mm}</math></b> , 1.5 m long, with quick coupling DN 5 (plug, socket) for gas testing with compressed air.	115747	
<b>High-pressure hose <math>\varnothing \frac{1}{2}"</math></b> , 7 m long, with G $\frac{1}{2}"$ hose screw fittings, with caps, for pressure testing of pipe systems and vessels with water with REMS Multi-Push SLW.	115661	
<b><math>\varnothing 1"</math> suction/pressure hose</b> , with fabric inlay, 1.5 m long, with G $1"$ screw fittings for flushing, disinfection, cleaning, preservation and pressure testing with water.	115633	
<b>Double nipple 1"</b> , for connecting 2 suction/pressure hoses and blowing out the suction/pressure hoses	045159	





# REMS Multi-Push SL/SLW

Electronic flushing and pressure testing unit with compressor

Description	Art.-No.	
<b>Printer</b> for printing the stored results of the flushing and test programs, 1 roll of paper, USB connecting cable, power supply/charger Ni-Mh 100–240 V, 50–60 Hz, 3 W	115604	
<b>Paper roll</b> , pack of 5 for printer	090015	
<b>Case</b> with inlays for printer, paper rolls and other accessories	115703	
<b>REMS V-Jet TW</b> , disinfection unit for drinking water installations, for feeding dosing solution for disinfection	115602	
<b>REMS Peroxi Color</b> , 1 l bottle of REMS Peroxi dosing solution for disinfection of approx. 100 l line volume, 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.	115605	
<b>Test strips H<sub>2</sub>O<sub>2</sub> 0–1,000 mg/l, pack of 100</b> , for checking the concentration of the disinfection solution	091072	
<b>Test strips H<sub>2</sub>O<sub>2</sub> 0–50 mg/l, pack of 100</b> , for checking the complete flushing out of the disinfection solution after disinfection	091073	
<b>REMS V-Jet H</b> , cleaning and preservation unit for radiators and area heating systems, for feeding cleaner and corrosion protection.	115612	
<b>REMS CleanH</b> 1 l bottle of cleaner for radiators and area heating systems, dyed green for filling and wash-out check, for approx. 100 l line volume.	115607	
<b>REMS NoCor</b> 1 l bottle of corrosion protection for preservation of radiators and area heating systems, dyed blue for filling check, for approx. 100 l line volume.	115608	
<b>Hood</b> for protecting the machine during transport and storage	115677	
<b>XL-Boxx system case</b> for hoses	579600	



## REMS CleanM

Machine cleaner

Highly effective machine cleaner for fast, reliable removal of oily and greasy soiling of all kinds. For cleaning and degreasing machines, tools etc. For trade and industry.

**REMS CleanM – you can't get cleaner than that. Very high cleaning effect.**

Especially for fast, reliable removal of oily and greasy soiling of all kinds. Easily biodegradable according to OECD 302 B. Free from substances classified as harmful to the environment. Universal cleaner for trade and industry. For cleaning and degreasing machines and tools. Can also be used for removing lime scale. REMS CleanM spray bottle without propellant.



German Quality Product



Info

### Supply format

**REMS CleanM.** Highly effective machine cleaner for fast and reliable removal of oily and greasy soiling. For cleaning and degreasing machines, tools etc.

Packing	Art.-No.	
500 ml spray bottle	140119	





Powerful electric filling and flushing unit for fast, easy filling, flushing and venting of closed systems. Ideal for solar power systems, ground heat systems and underfloor/wall heating.

Tank volume 30 litres

## REMS Solar-Push K 60 with centrifugal pump

Transport capacity at 40 m pumping head 16 l/min

Transport volume ≤ 36 l/min

Transport pressure ≤ 0.55 MPa/5.5 bar/80 psi

Temperature of the transported media (constant load) ≤ 60°C

pH value of the transported media 6.5 – 9.5

## REMS Solar-Push I 80 with impeller pump

Transport capacity at 40 m pumping head 18 l/min

Transport volume ≤ 27 l/min

Transport pressure ≤ 0.65 MPa/6.5 bar/94 psi

Temperature of the transported media (constant load) ≤ 80°C

pH value of the transported media 6.5 – 9.5

Media transported: heat transfer liquids, antifreeze, water, aqueous solutions, emulsions

**REMS Solar-Push – filling, flushing and venting in one action. Self priming. High transport capacity.**

### System advantage

Filling, flushing and venting in one action. Ideal for solar power systems, ground heat systems and underfloor/wall heating. Also for filling tanks.

### Design

Powerful, electric filling and flushing unit on stable, mobile tubular steel frame for secure standing. 2 large, air-filled tyres for easy transport in rugged building site conditions. Practical hose holder. Low weight, REMS Solar-Push I only 19 kg, REMS Solar-Push K only 20 kg. Sturdy plastic tank to hold 30 litres, made of UV-stabilised PE, with filling level indicator, removable, for easy cleaning, with large opening for easy filling. Practical screw cap for fast opening and closing. Return connection ¾" with immersion pipe avoids foaming of the transport medium when it enters the plastic tank. Stop tap for easy cleaning and easy changing of the plastic tank when using different transport media. Two practical handles for easy carrying of the plastic tank. High temperature-resistant connecting hose between plastic tank and pump. Fine filter in the suction line with large viewing window for easy recognition of residue air in the circuit as well as emitted contamination, e.g. chips, solder and welding residue.

### REMS Solar-Push K 60

Self-suction centrifugal pump, suitable for different transport media, e.g. heat transfer liquids, antifreeze, water, aqueous solutions, emulsions. With proven, powerful condenser motor with quiet running, 940 W, on/off switch. High transport volume 36 l/min for fast filling, efficient flushing and venting of closed systems and for filling tanks. Pressure relief valve for simple pressure relief in the pressure hose at the end of operation, as an accessory. For continuous load ≤ 60°C. 2 pieces flexible, transparent PVC fabric hoses ½" T60, for pressure and return lines, each 3 m long, with ¾" hose screw fittings, temperature-resistant ≤ 60°C.

### REMS Solar-Push I 80

Dry self-suction impeller pump with special impeller, suitable for different transport media, e.g. heat transfer liquids, antifreeze, water, aqueous solutions, emulsions. With proven, powerful condenser motor with quiet running, 1000 W, on/off switch. High transport volume 27 l/min for fast filling, efficient flushing and venting of closed systems and for filling tanks. Pressure relief valve for simple pressure relief in the pressure hose at the end of operation. For continuous load ≤ 80°C. 2 flexible EPDM fabric hoses ½" T100 (synthetic rubber) for pressure and return lines, each 3 m long, with ¾" hose screw fittings, high temperature-resistant ≤ 100°C.

### Extensive accessories

Shut-off valve for closing the pressure or return line, e.g. during transport. Fine filter with fine filter bag 70 µm, consisting of a screw cap with return line connection for return line with ¾" union, adapter and fine filter bag 70 µm, or fine filter with fine filter cartridge 90 µm, washable, with large dirt collection vessel, for return line with ¾" connection for flushing underfloor heating/wall radiators and clearing sludge. Flow direction changeover valve complete with EPDM fabric hose ½" T100, for flushing underfloor heating/wall radiators and effective clearance of sludge by pressure surges when flow direction changes. Changeover valve for alternative suction of the transport medium from another tank, e.g. for larger volumes.



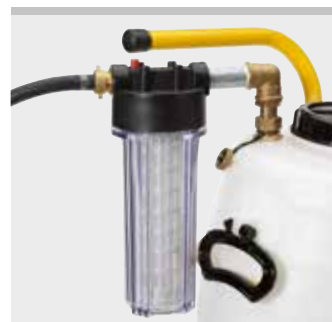
German Quality Product



K 60



I 80



## Supply format

**REMS Solar-Push K 60.** Electric filling and flushing unit for fast, easy filling, flushing and venting of closed systems. Transport volume  $\leq 36$  l/min, tank volume 30 l. With centrifugal pump, temperature-resistant for continuous load  $\leq 60^{\circ}\text{C}$ . Transport pressure  $\leq 0.55$  MPa/5.5 bar/80 psi. Condenser motor 230 V, 50 Hz, 940 W. 2 pieces flexible, transparent PVC fabric hoses  $\frac{1}{2}$ " T60, each 3 m long, temperature-resistant  $\leq 60^{\circ}\text{C}$ . On sturdy tubular steel frame with air-filled wheels. In box.

	Art.-No.	
	115312	

Other voltages on request.

## Supply format

**REMS Solar-Push I 80.** Electric filling and flushing unit for fast, easy filling, flushing and venting of closed systems. Transport volume  $\leq 27$  l/min, tank volume 30 l. With impeller pump, temperature-resistant for continuous load  $\leq 80^{\circ}\text{C}$ . Transport pressure  $\leq 0.65$  MPa/6.5 bar/94 psi. Transport capacity at 40 m transport height 10 l/min. Condenser motor 230 V, 50 Hz, 1000 W. Pressure relief valve. 2 pieces flexible, EPDM fabric hoses  $\frac{1}{2}$ " T100, each 3 m long, high temperature-resistant  $\leq 100^{\circ}\text{C}$ . On sturdy tubular steel frame with air-filled wheels. In box.

	Art.-No.	
	115311	

Other voltages on request.

## Accessories

Description	Art.-No.	
<b>PVC fabric hose <math>\frac{1}{2}</math>" T60</b> for pressure or return line, 3 m long, with $\frac{3}{4}$ " hose screw fittings, temperature-resistant $\leq 60^{\circ}\text{C}$ .	115314	
<b>EPDM fabric hose <math>\frac{1}{2}</math>" T100</b> for pressure or return line, 3 m long, with $\frac{3}{4}$ " hose screw fittings, high temperature-resistant $\leq 100^{\circ}\text{C}$	115315	
<b>EPDM fabric hose <math>\frac{1}{2}</math>" T165</b> for pressure or return line, 3 m long, with $\frac{3}{4}$ " hose screw fittings, high temperature-resistant $\leq 165^{\circ}\text{C}$	115319	
<b><math>\frac{3}{4}</math>" shut-off valve</b> for closing the pressure or return line, e.g. during transport.	115324	
<b>30 l plastic tank</b> made of UV-stabilised PE.	115375	
<b>Pressure relief valve</b> for Solar-Push K 60.	115217	
<b>Fine filter with fine filter bag 70 <math>\mu\text{m}</math>,</b> consisting of a screw cap with return line connection for return line with $\frac{3}{4}$ " union, adapter, 1 file filter bag 70 $\mu\text{m}$ , for flushing underfloor heating/wall radiators and clearing sludge	115220	
<b>Fine filter bag 70 <math>\mu\text{m}</math> (pack of 10),</b> fine file filter with fine filter bag 70 $\mu\text{m}$	115221	
<b>Fine filter with fine filter cartridge 90 <math>\mu\text{m}</math>,</b> washable, with large dirt collection vessel, for return line with $\frac{3}{4}$ " union, for flushing underfloor heating/wall radiators and clearing sludge	115323	
<b>Fine filter cartridge 90 <math>\mu\text{m}</math>,</b> for fine filter with fine filter cartridge 90 $\mu\text{m}$	043054	
<b>Flow direction changeover valve</b> complete with EPDM fabric hose $\frac{1}{2}$ " T100, for flushing underfloor heating/wall radiators and effective clearance of sludge by pressure surges when flow direction changes	115326	
<b>Changeover valve</b> for alternative suction of the transport medium from another tank, e.g. for larger volumes.	115325	



Info

