Ural (Урал) - Dnepr (Днепр) Russian Motorcycle Fuel Tanks
Part XXIX-3: Petcocks (Fuel Taps)

(See Also Part XXIX: Fuel Tank Evolution, Part XXIX-1: Knee Grips, and Part XXIX-3: Fuel Tank Removal)

Ernie Franke
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02 / 2018
What is a Fuel Petcock? (wikipedia)

• Ural and Dnepr Motorcycles Have Manual-Selection Fuel Petcock Valves, Mounted on the Fuel Tanks to Control Supply of Gasoline
  – Manual Petcock Has Three Positions: On, Off and Reserve
    • Reserve Position Accesses Bottom Portion of Fuel in Tank
    • Especially Useful on Russian Motorcycles, which Don’t Have a Fuel Gauge
• Fuel Management Process
  – Petcock Set to “OFF” Position when Motorcycle Is Not Operated
    • Eliminate Fuel Overflow and Leakage via Carburetor
  – Before Starting, Petcock Turned to “ON” Position to Provide Fuel to System
  – When Fuel Consumption Falls below Main Tube:
    • Continued Operation Maintained by Rotating Petcock Valve to “Reserve” Position
• Modern Ural Motorcycles Now Have Automatic, Vacuum-Operated Petcocks
  – “On” and “Reserve,” as Well as “Prime” Position
  – “Prime” Bypasses Vacuum Operation to Allows Fuel Flow to Carburetor without Engine Turning Over
  – Early Vacuum Petcocks Used Adapter Nut (Bifurcated) to Adapt to KP-33 Connection to External Threads of Gas Tank
• Directly-Mounted Ural Vacuum Petcock
  – Mounted Directly on Bottom of Gas tank
  – Introduced Late 2006 or Early 2007
  – No Adapter Nut Needed
Petcock (cont.)

• **Manual Main/Reserve Fuel Valve**
  – Select between Two Tubes to Get Fuel from Fuel Tank
  – One Tube Near the Bottom of Tank (Reserve Inlet Pipe)
  – Other Tube about an Inch Higher (Main Inlet Pipe)
  – Normal 'ON' Position Gets Fuel from Tube with Higher Opening
  – When It Runs Dry, Manually Switch to 'Reserve'
  • Yields Enough Range to Make It to Next Gas Station
• Modern Vacuum Petcocks Have No “OFF” Position
  – Vacuum Valve Automatically Shuts Off Fuel when Engine Stops
  – Three Positions of Vacuum Petcock Lever:
    • Prime: Overrides Vacuum System to Allow Dry Carburetors To Be Refilled
      – Never Leave Petcock in “PRI” Position after Carbs Are Full
      – Carbs Can Flood, Engine Might Not Shut-Off if You Drop the Bike
    • “On” and “Reserve” Held Open by Vacuum from Intake Manifold
• Tips:
  – Fill Tank and Zero Trip-Odometer
  – Check the Range of a Full Tank, without the Reserve
  – When Trip-Odometer Reads 90% of Range, Refill the Tank
  – Eliminates Use of Reserve, and Days Spent Getting Crud Out of the Carb

KP-15A Manual Petcock
(mates with gas tank with internal threads)

KP-33 Manual Petcock
(with adapter to mate with gas tank with external threads)

Vacuum Petcock
(mates with gas tank with external threads)

Vacuum Petcock
(mounts directly on bottom of gas tank)
Main Types of Petcocks for Russian Motorcycles

• Manual Fuel Petcock: KP-15A ('6310030) 72103-A
  – 750/650 cc Engines
  – Used on Gas Tank with Internal Threads
  – Widely Available on Internet
  – Petcock KP-15A Replacement: '01Z3254190B
• Manual Fuel Petcock: KP-33 ('IMZ-8.103-10030)
  – 750/650 cc Engines
  – Used on Gas Tank with External Threads
  – No Longer Available
  – Petcock KP-33 Replacement: 'VIC15 and Yamaha 4WM-24500-02-00
• Vacuum (under-pressure) Fuel Petcock, with Adapter
  – 650 cc: IMZ-8.103-10030
  – 750/650 cc: IMZ-8.1037-10064
  – Flat Plat, plus Adapter, on Gas Tank with External Threads
  – Yamaha 4WM-24500-02-00 for non-Automatic Operation
• Vacuum (under-pressure) Fuel Petcock: IMZ-8.1037-10022
  – 750 cc, Urals, Late 2006 and Beyond
  – Mounts Directly to Flat Plate on Bottom of Gas Tank
  – Yamaha 4WM-24500-02-00 for non-Automatic Operation
• Standard Flow Rate
  – Measure Flow Rate for a Minute with Both Lines Flowing at the Same Time
  – Dividing by 128 oz in a Gallon, that Yields in excess of 10 gal/hr

The evolution of the gas petcock from manual to automatic (vacuum) is further divided into gas tank interfaces (internal or external threads) and adapter or direct-mount.
<table>
<thead>
<tr>
<th>Mfr</th>
<th>Model</th>
<th>Year</th>
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<th>Gas Tank</th>
<th>Tank Size (liters)</th>
<th>Petcock</th>
<th>Petcock Washer (Gasket)</th>
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</table>
Early M-72’s used the KP-12 petcock, with a single outlet nozzle, later replaced by the KP-15A with two outlet nozzles.

H = 98 mm
B = 73 mm
D = 3 mm
D1 = 8 mm
Thread = M14x1.5 (Metric fine, not a normal M14 thread)
Fuel Flow in KP-12 Manual Petcock

• Settler Bowl (8) with Mesh Filter (7) at Bottom of Valve
• Fuel Enters Inlet Pipe (3) or Reserve Port (4)
• Petcock Has Three Working Positions
  – In "3" Position, Valve Is Closed, Handle Turned Down
  – In "O" Position, Primary Fuel Path thru Long Tube (3), Knob Turned Left
  – In "P" Position, Reserve Fed thru Short Tube (4), Handle Faucet Turned Right
• Strainer Bowl (8) Cleans Fuel and Deposits Impurities in the Sump
  – Strainer in Sump Should Be Periodically Cleaned
KP-15 with Single-Sided “flag” Lever
(www.ural-dnepr.net and moto-boxer.com)

- KP-15 with Single-Sided Lever (Flag) Found on Early (M-72 / K-750) Bikes
- Later Replaced with Double-Side Lever
- Probe Extends at Least 5 mm (2”) above Surrounding Sheet Metal

(KP-15A without Screen Filter)

(www.ural-dnepr.net)  (moto-boxer.com)
The KP-15A was designed to filter sediment and shut-off fuel from the gas tank with two outlet nozzles.
72103-A / KP-15A Fuel Petcock for Ural/Dnepr

PP3-1

(with Filter Screen)

without Filter Screen

(cgi.ebay.com and RussianGarage.com)

(cgi.ebay.com)

without Filter Screen

RRussianGarage.com

www.rosopt.com
More Views of Кран Мопливный KP-15A w/o Filter Screen

The M-72 staged the KP-12, then KP-15 and KP-15A petcocks.
Even More Views of Petcock 72103-A / KP-15A

- Used on Ural M-72 and Dnepr K-750
- Uses 7 mm Rubber Fuel Hose
  - Rubber Pipe Set *002.389*
    - Diameter: d= 7mm
    - Lengths: L1= 430 mm, L2= 280 mm, L3= 150 mm
  - Length of Rubber Hose *002.390*
    - Diameter: d= 7 mm
    - Length: L= 1 meter

Look for the cyrillic (Russian) ΠΠ3-1 on the side

Chrome-Plated Versions of the KP-15A
KP-15A (M-72, MT-16, M-72 (1954))

1. Housing
2. Slidegate valve
3. Hand Lever
4. Bowl
5. Filter Cup
6. Bowl Sealing Gasket
7. Filter Screen
8. Filter Feather/Spring
9. Main Gasoline Pipe
10. Reserve Gasoline Pipe
11. Sealing Disk of Slidegate Valve
12. Sealing Disk of Gasoline Housing
13. Threaded Bushing
Petcock (Fuel Valve) Operation

- Fuel Valve Has Same Structure in All Models
- Screwed Fittings in Bottom of Fuel Tank
- Consists of a Body with Spool and Handle (3 and 2), Two Tubes (12 and 13), Fuel Bottom Sump (5)
- Settler Has a Filter, Consisting of a Frame (6) and Grid Mesh (8) Located Inside the Frame
- Three-Position, Rotating Spool (3) with Handle (2) Is Mounted in the Horizontal Bore of the Valve Body, with One Axial and Two Radial Holes
  - One Hole Is Aligned with the Benzo-Wire Tube (13)
  - Other Hole Aligned with Lower (Reserve Channel Tube (12)
  - First Hole Is About 2 Liters Higher than Second Hole, Forming the “Reserve”
  - Reserve Fuel Available When Handle Is in “P” (Резерв: Reserve) Position
- Opposite the Handle on the Valve Body Are Two Fitting for Connection via Rubber Hoses to Feed Fuel to the Carburetor
- When Knob Is in the “O” (Открыть: Open) Position, Fuel Is Supplied to the Carburetor thru Tube (13)
- In Position “P” (Резерв: Reserve) Reserve Fuel Travels thru Tube (12)
- When 3-Position Valve Is Closed (Закрыто: Closed), Fuel Does Not Go to the Carburetor
KP-15A Petcock Operation
(M-72, K-750 and M-63 Maintenance Manual)

1. Nut
2. Packing
3. Main Inlet Pipe
4. Reserve Inlet Pipe
5. Slide Valve
6. Petcock Body
7. Pipe Union
8. Packing
9. Spring
10. Settling Bowl
11. Nut
12. Filter Frame with Screen
13. Handle
KP-15A Petcock on Ural M-66
**Petcock KP-15A Replacements**

**Petcock KP-33 Replacement**  
Vendor ID: 4262  
List Price: €50.20  
(www.ural-shop.com)

**Petcock KP-15A**  
Vendor ID: 1722  
List Price: 1.40 €  
(www.ural-shop.com)

**Petcock KP 15A Replacement**  
Vendor ID: 4369  
List Price: €50.20  
(www.ural-shop.com)

**72103-A /Kp15-APetrol cock**  
Vendor ID: 4369  
List Price: €15  
(www.henriksson.ee)

**Crane (Petcock) KR-15A, Russia**  
List Price: 130.00 rubles  
(www.rosopt.com)

**Crane (Petcock) KR-15A with Mesh, Import**  
List Price: 120.00 rubles  
(www.rosopt.com)
Petcock KP-15A Replacements (cont.)

Fuel Petcock
Ural, Dnepr, K-750, M-72
Vendor ID: 141351612892
List Price: 8.90€
(www.ebay.com)

Fuel Petcock
Ural, Dnepr, K-750, M-72
Vendor ID: 141351611185
List Price: 8.90€
(www.ebay.com)

Crane (Petcock) KR-15A (CR-15A) (ППЗ-1-0)
Ural, Dnepr M14x1.5 mm
Part #: 6310030
List Price: 160 rubles
(www.mazepper.ru)

Fuel Petcock
Ural, Dnepr, K-750, M-72
M14 x 1.5 mm
List Price: 39.50€
(www.ural-hamburg.de)

Fuel Petcock
Ural, Dnepr, K-750, M-72
M14 x 1.5 mm
List Price: 16.00€
(www.ural-hamburg.de)

Fuel Shut-Off, Two-Headed
(KP15A-1305010)
Dnepr Parts
List Price: 18.10€
(www.intermoto.ee)
More PP3-1 (ППЗ-1) Petcocks

Fuel Tap PP3-1
List Price: €13.41
(moto-boxer.com)

Fuel Tap PP3-1 w/filter
List Price: €13.41
(moto-boxer.com)

Fuel Tap PP3 w/filter
List Price: €12.18
(moto-boxer.com)
Benzokran KP-33 (moto.z16.ru)

- New Petcock (crane) More Reliability than Earlier KP-15
- Introduced to Ural and Dneprs in 1994 and Beyond
- Dissolved Sediment and Gasoline in the Filter Tube Goes thru Filter Element from the Wire Mesh, which Retains Debris and Partial Water

1. Filter Element
2. Threaded Coupling for Connection to Fuel Tank
3. Housing
4. Reserve Fuel Channel
5. Main Fuel Channel
6. Pawl
7. Rubber O-Ring Seal
8. Handle
9. Fuel Fittings

The KP-33 valve has a fixed ring nut, allowing orientation of the handle in the correct direction.
An adapter nut is used to transition from the external threads to a modern vacuum petcock.
• Manual Petcock
• Gasoline Petcock Positions:

Off

On

Reserve

Note that the lever actually points in the direction of the correct position. The “flag is opposite the desired position.
**KP-33 Petcock Replacement** (www.crawfordsales.info)

- Manual Fuel Petcock KP-33 No Longer Available
- Fuel Valve with Adapter Can Be Bolted to any Ural Gas Tank that Has External Threads
- Fuel Valve Can Also Be Used to replace Vacuum Petcock on Newer Gas Tanks that Have the Flat Mount (Late 2006 / Early 2007)
- On, Off and Reserve Positions

![Manual Petcock with Adapter for Gas Tank with External Threads (Thread-On)](image1)

![Manual Petcock for Direct-Mount (Bolt-On) for Gas Tanks Late 2006 / Early 2007](image2)

- Filter Element
- Adapter Nut to Gas Tank’s External Threads
- Selector Knob
- Plastic “T” Fitting
Vacuum -Operated Petcock with Adapter Nut

- Adapter Nut Required to Transition from External Threads of Gas Tank
- Adapter Nut Not Required after Late 2006/ Early 2007
  - Gas Tanks Have Flat Plate Under Tanks
  - Vacuum Petcock Mounted Directly to Gas Tank Flat Plate
Vacuum Petcock Disassembled

• Photos of Vacuum Petcock and “Working" Part of that Assembly
  – Block Mounted to Back of Petcock, with Vacuum Chamber, Spring, Piston and Seal
  – Body of Petcock Contains Plumbing for On, Prime, and Reserve and Seat and Mating Piston and Seal
  – Vacuum Pulls Piston and Seal Out of Seat, Letting Gasoline Flow from whichever "On" or "Reserve" Setting to the Outlet
  – Spring, Mounted under Vacuum Block Cover, Forces Piston and Seal Back into Seat, and Blocks Flow when There Is a Loss of Vacuum
  – “Prime” Function Works by “Bypassing" the Piston/Seat Assembly
  • Black “Smiley" Thing Is Front Seal, Just behind Selector Disc (Lever), that Selects Which Inlet (reserve or main) Is Used
  • Obviously Whenever Dealing with a Piston and Seal, Fitting into a Seat, There Is the Possibility of Foreign Interference Preventing Full Closure
    – Smallest Bit of Debris at the Seat Will Allow Gasoline to Leak by the Vacuum Control Function of the Petcock and Supply Fuel to the Carburetors
Fuel Flow in Vacuum Petcock

Smiley Face Front Seal

“ON” position

“PRI” position

“RES” position

27
Ditching the Vacuum-Operated Petcock on '06 & '07 Models

(John Grocke (a.k.a. JohnBG)) (www.russianiron.com)

- Replace Automatic (Vacuum) Petcock with Manual Petcock with "OFF" Position!
  - Vacuum Petcock Present on Late '06 and Early '07 Models
  - Petcock Valve Mounts Directly to Bottom of Tank with Two Bolts
- When Using TwinMax Carb Balancer
  - Must Disconnect the Vacuum Line and Turn Petcock to Prime
  - Must Balance and Then Reconnect Vacuum Line and Turn Valve to "ON" and Then Idle Will Be Lower
  - Wanted to Tweek with the Twinmax Carb Balancer without All of the Hassle
- 2000 Yamaha Road Star (Part No. 4WM-24500-02-00) has regular ON/OFF/RESERVE valve with that same mount for $24
- Switch Valve to Prime and Drain Gas from Ural Tank into 5-Gallon Can thru Left Carb Fuel Line
- Replacing Vacuum Petcock with Yamaha Petcock
  - Yamaha's Main Siphon Tube Longer and Needs to Be Trimmed
    - Use Common Copper Tubing Cutter
    - Mark Cut-Point on Yamaha Petcock
    - Replace Flat Head Screws Securing Valve to Tank with 6mm x 12mm Allen-Head Stainless Bolts
  - Gently Pull Screen Off End of Yamaha Siphon
    - Extremely Fine Mesh
    - IMWA Discontinued Fuel Filters for '07
  - Trim Tube to Correct Length Using Tubing Cutter
  - Mount the New Yamaha Valve
    - Use New Allen-Head Bolts with a Drop of Blue Permatex on the Threads
    - Pop the Valve in Place and Snug Tight
    - Reconnect Fuel Lines (without the vacuum line)
    - Add Rubber Cap that Goes on Top of Keihin Carb (where vacuum line was)
      - Holopaw Gene Stocks the Little Rubber Caps
    - Must Plug that Port, unless You Want to Join the Holey Pistons Club
    - Pore 2 gallons of Gas in Tank
    - Check for Leaks at Petcock Valve Mating Surfaces
    - Alternately Pull Carb Fuel Lines and Divert to Catch Pan
    - Turn New Valve to "ON" to Test Out
    - Check Reserve Setting for Equal Flow

model '06's and all '07 have fuel valve bolted directly to the tank.

Ural stock (left) vs. Yamaha fuel valves - need to trim siphon

Used a cig & pen to transfer length of existing siphon to new valve

Put filter screen back on siphon and install the new valve.

use tubing cutter to make notch just below cut line for filter

then cut just above at mark and trim tube, now the same length.

Viola! It's done!

Put filter screen back on siphon and install the new valve.

Be sure to cap vacuum line port on top of left side carburetor!
Replacing Automatic (Vacuum) Petcock with Yamaha Manual Valve

(sovietsteeds.com)

• If You Have Late '06 or Newer Gas Tank, with Two Bolts that Hold the Petcock to the Tank, then Petcock Simply Bolts On
  – May Want to Shorten the Siphon Tube
  or

• If You Have the Vacuum-Operated Petcock with the Adapter that Goes on a Threaded Bung on Early '06 and Older Bikes, then Just Use the New Petcock (2000 Yamaha Road Star (Part No. 4WM-24500-02-00) on the Adapter that Came with the Vacuum Petcock and Don't Shorten the Siphon Tube
  or

• If You Have a threaded bung on his tank without an adapter (KP-15A or KP-33 Replacement), You'll Need the Adapter that Comes with the Vacuum Petcock
Replacing Automatic (Vacuum) Petcock with Yamaha Manual Valve

(sovietsteeds.com)

- Better Fuel Flow and Assurance of an "OFF" Position on the Valve
- Threaded Bung on Gas Tank with Adapter Fitting
- Do Not Need to Trim the Siphon Tube of Yamaha Petcock – 2000 Yamaha Road Star (Part No: 4WM-24500-02-00)
- Still Need to Cap Vacuum Port on Carburetor

• 750cc Engine
• Automatic (Vacuum) Petcock

– 1. When starting the engine after the motorcycle has been parked for an extended period of time, or after the fuel tank and/or carburetors have been completely emptied of gasoline (e.g. due to running out of fuel, evaporation, or installation of replacement parts), set the valve to the “PRI” position. This will allow gasoline to fill the float chambers of the carburetors and prepare the engine for starting.
– 2. Start the engine
– 3. After the engine starts, set the valve to the “ON” position and keep the valve in this position for regular use of the motorcycle. (When set to “ON”, the valve is automatically activated when the engine starts and stops, opening and shutting off the supply of fuel to the carburetors)
– 4. After using up the main volume of fuel (engines starts stalling due to lack of fuel), set the valve to the “RES” position and continue driving. After refueling, remember to set the valve back to “ON” to avoid running out of fuel completely.

• IMPORTANT: When parking the motorcycle for extended periods of time, the valve should remain in the “ON” position.
• WARNING: Never leave motorcycle with the engine turned off and valve set to “PRI” as this may result in a serious damage to the engine and will void warranty.
Fuel Switch Positions

ON - "Open": Used for fueling from the main tank. Vacuum control valve controls the fuel feed. After you have stopped the engine the fuel supply is stopped automatically.

RES - "Reserve": Used for fuel supply from the reserve tank. The vacuum control valve controls the fuel feed. After you have stopped the engine the fuel supply is stopped automatically.

PRI - “Prime”: Used for feeding the carburetor permanently, while the vacuum control valve does not control the fuel feed. This position is used for the initial feeding of the fuel system, and for draining the tank fuel.
Vacuum Petcock Switch Positions

- Orientation of Valve Positions Is a Little Confusing
- Actual Position Is Indicated by the Large End of the Lever
  - Lever Can Only Swing Over Right Side of Face
- If Large End Is Erroneously Put in “ON” position (large end over RES)
  - Petcock Is Actually in RESERVE Position
  - When Fuel Is Out, It Is Totally Out
- If Large End Is Erroneously Put in “RES” Position (large end over On)
  - Petcock Is Actually in ON Position
  - When Fuel Is Out, Reserve Is Still Available

Orientation of the positions is somewhat confusing, compared to previous valves.
Late Model '06s and all '07s Have Fuel Valve Bolted Directly to the Gas Tank

(sovietsteeds.com)
Ural 750cc Vacuum Petcock Post-2006

- Vacuum Petcock
- Mounts Directly on Bottom of Gas Tank (No Adapter)

Late 2006 or early 2007, the vacuum (automatic) petcock was mounted directly to the gas tank.
Prior to the close of 2006 or beginning of 2007, the vacuum (automatic) petcock was adapted to the external threads of the gas tank.
Late model ’06 and early ’07 Urals used a direct-mount vacuum petcock.
Petcock (Chinese)
Ural Dnepr MT, K-750
List Price: 40 rubles
(motofan.in.ua)
Fitting diameter: 8 mm
Thread diameter: 14 mm
Pitch: 1.5

Chinese copies even include Russian lettering.
Fuel Tap – KP-15A
Original fitment for Ural 650 M63, M66, M67, Dnepr MT-9, MT-10, MT-10.36 and MT-11. 14mm male thread twin output. These taps have very weak threads. When fitting a replacement we advise coating the threads with a sealer and screwing the tap in by hand. Applying large forces with a spanner will snap the threaded part off the tap.
Part - F23004/KP15A
List Price: £34.00
(www.f2motorcycles.ltd.uk)

Fuel Tap – KP-33. Original fitment to the very last of the Ural 650s and the first of the Ural 750. The spigot sticking out of the tank is male and has 20 mm threads. The tap has both left and right hand threads so as the nut is tightened to draws the tap up to the tank forming a seal. Sorry these are no longer made. We are working on an alternative, and at the moment we have an adaptor to allow other taps to be used.
Part - F23004/KP33
List Price: N/A
(www.f2motorcycles.ltd.uk)

Fuel Tap – KP-15 Alternative
The KP15 tap is original fitment for Ural 650 M63, M66, M67. Also Dnepr MT-9, MT10/36 and MT-11. It is often impossible to obtain originals so we offer an alternative. The alternative has a single outlet so we supply it with a T-piece.
Part - F23004/KP15T
List Price: £25.00
(www.f2motorcycles.ltd.uk)
More Petcocks from f2motorcycles (cont.)

Fuel Tap - Vacuum. Standard fitment to most later 750 Urals. Attached to the tank with two M6 screws. Opened by vacuum from the carburetors when the engine is running.
Part - F23004/VAC
List Price: £82.00
(www.f2motorcycles.ltd.uk)

Fuel Tap - Alternative. Direct replacement for the vacuum tap and attached in the same way. Not opened by vacuum so you need to remember to turn fuel on and more importantly off again. Good quality lower cost alternative to the expensive vacuum tap. Note, this has two outlets so if you are converting from vacuum type tap you will require more fuel hose.
Part - F23004/ALT
List Price: £30.00
(www.f2motorcycles.ltd.uk)

Fuel Tap – KP-33 Adaptor
Original KP-33 tap is no longer produced and we have none left. This adaptor allows either F23004/VAC or F23004/ALT to be fitted to any tank that originally had the KP-33 tap.
Part - F23004/Adaptor
List Price: £22.00
(www.f2motorcycles.ltd.uk/dneprcarb.html)
Ural Three-Position Vacuum-Activated Fuel Petcock
IMZ-8.1037-10030

Vacuum fuel valve since 2007
IMZ-8.1037-10030-01
List Price: $69.00
(www.ebay.com)
Ural Three-Position Vacuum-Activated Fuel Petcock
IMZ-8.1037-10030

IMZ-8.1037-10030-01
Ural Fuel Tap Petcock
Three Positions with Primer
List Price: 86.40€
(ural-france.fr)

Ural Fuel Vacuum Petcock
IMZ-8.1037-10030
List Price: $44.95
(picclick.com)
Ural switched from petcocks to fuel filters in 2014, with the advent of EFI (electronic fuel injection).
Fuel Filter EFI
IMZ-8.1040-10041
List Price: 8.28€
(ural-france.fr)

Ural switched from petcocks to fuel filters in 2014, with the advent of EFI (electronic fuel injection.)