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Product Manual

BMW E36
Fuel Pump Hanger

170-02-101

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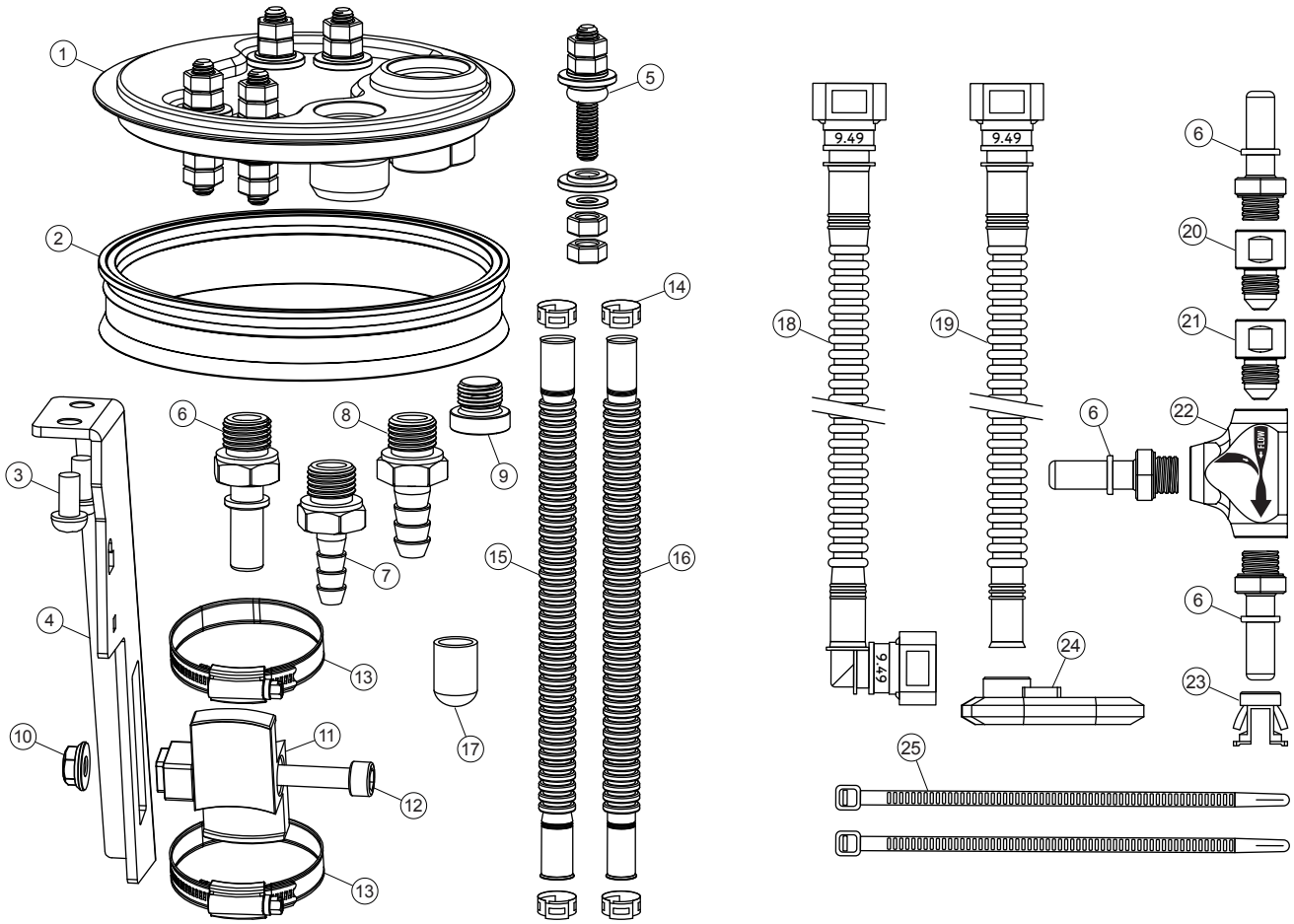
BMW E36 Fuel Pump Hanger

Part # 170-02-101 EAN # 7340209512601

BMW E36 Fuel Pump Hanger, Assembly / Spare parts list



NO.	Spare part #	Description
1	N/A	**1x** Fuel pump hanger lid BMW E36, LH
2	N/A	**2x** Top lid rubber gasket - for both LH and RH lid
3	100-10-209	**2x** K6S M6x12 stainless steel bolts
4	N/A	**1x** Stainless steel bracket BMW E36, LH
5	150-10-105	**5x** M6 Bolt electrical connector
6	150-20-424	**4x** AN-6 ORB to SAE 9.49 Male fittings
7	300-10-110	**2x** 1/4 BSPP to Barb 8mm Male fittings *
8	300-10-139	**2x** 1/4 BSPP to Barb 10mm Male fittings *
9	700-01-106	**1x** 1/4 BSPP Plug
10	100-10-223	**1x** LM6MF M6 stainless steel flanged lock nut
11	1700-10-004	**1x** Aluminum dual OD 39mm fuel pump bracket
12	150-10-102	**1x** MC6S M6x35 stainless steel bolt
13	N/A	**2x** Stainless steel hose clamps, 44-56mm

NO.	Spare part #	Description
14	1500-20-101	**4x** Single ear hose clamp
15	150-20-318	**2x** SAE in-tank fuel hose Ø10mm 250mm *
16	150-20-317	**2x** SAE in-tank fuel hose Ø8mm 250mm *
17	150-21-403	**1x** Silicon protective cap for barb fitting
18	150-20-315	**1x** SAE in-tank fuel hose assembly 9.49 400mm
19	150-20-316	**1x** SAE in-tank fuel hose assembly 9.49 1000mm
20	1700-20-102	**1x** Venturi adapter, return line standard flow **
21	1700-20-103	**1x** Venturi adapter, return line high flow **
22	1700-20-001	**1x** Venturi jet pump adapter, AN-6
23	150-21-402	**1x** SAE 9.49 plastic insert
24	9-900-105	**1x** Fuel filter, for venturi pick up
25	N/A	**2x** Zip tie 150x3.5mm

* Hose and fittings for both 8 mm and 10 mm outlet fuel pumps are included. Simply use the components required for your specific fuel pump setup.
** Use the correct orifice adapter as specified in the installation manual. The required adapter depends on your fuel pump setup and ensures optimal venturi performance.

BMW E36 Fuel Pump Hanger specifications

For more information about specifications, visit our product page on our website.
Nuke Performance : www.nukeperformance.com

Compatibility	BMW E36 1990 - 1999	**Fuel pump compatibility**	1 or 2 x 39mm outer diameter fuel pumps
Electrical connectors	x 5 (max 125 ampere / each)	**Venturi/saddle tank function**	YES, includes upgraded venturi jet pump
Level sender compatibility	Reuses OEM LH / RH level senders	**Outlet port, thread**	AN-10 ORB (no fitting included)
Vent port / Filler hose	Uses OEM fuel tank vent / filler function	**Return port, thread**	AN-8 ORB (no fitting included)
For motorsports use	YES, for motorsports use only	**Part # / EAN**	170-02-101 / 7340209512601

Information:
Design combined with top quality performance.
For more information about the products and retailers visit
www.nukeperformance.com

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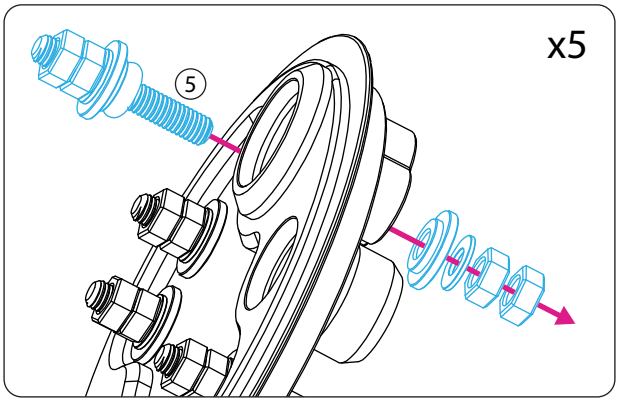
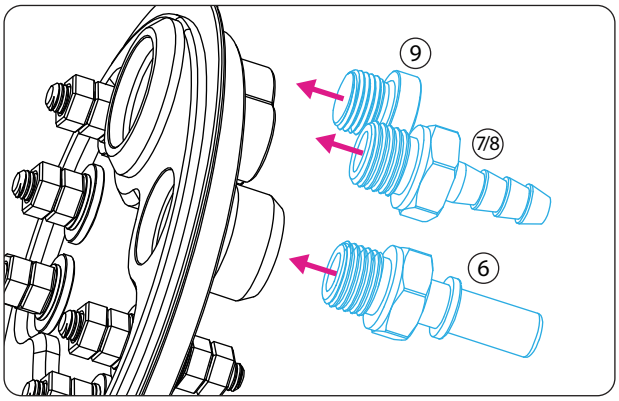
Fuel Pump Hanger Assembly



1. Electrical connector assembly

Install the five electrical connectors (5) and tighten from both sides to 6 Nm (4.42 ft-lb), keeping the O-rings centered.

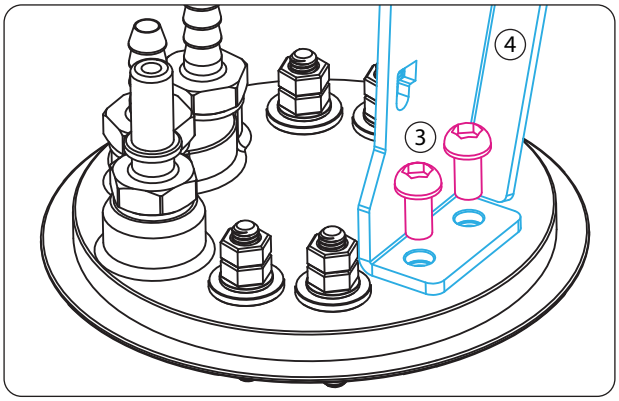
Use two connectors for the level sender and the three opposite connectors for the fuel pumps.



2. Fitting and adapter assembly

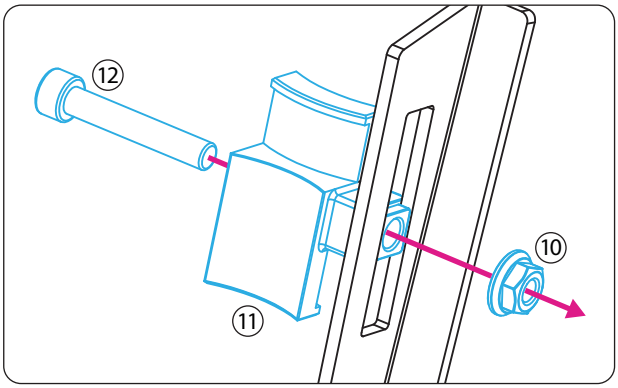
The FPH includes 8 mm (7) and 10 mm (8) hose barb fittings. Match the hose and fitting to the pump outlet: 8 mm outlet uses hose (16) and fitting (7); 10 mm outlet uses hose (15) and fitting (8).

For a single pump setup, plug (9) the unused port. Install the SAE adapter (6) underneath the return port.



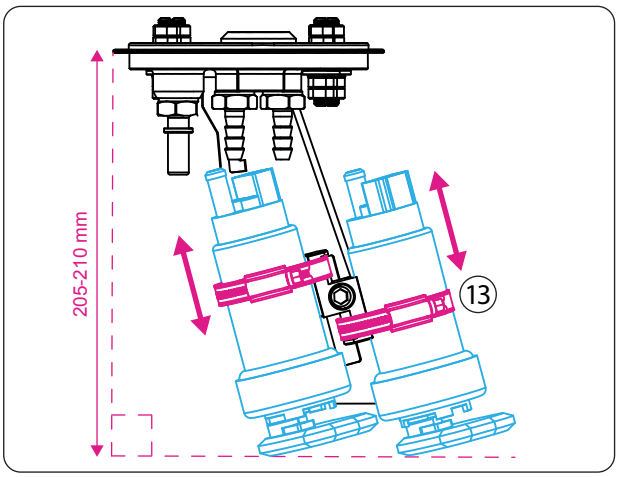
3. Mount the stainless steel bracket

Mount the stainless steel bracket (4) using the included K6S M6x12 bolts (3). Tighten to 6 Nm (4.42 ft-lb).



4. Fuel pump bracket assembly

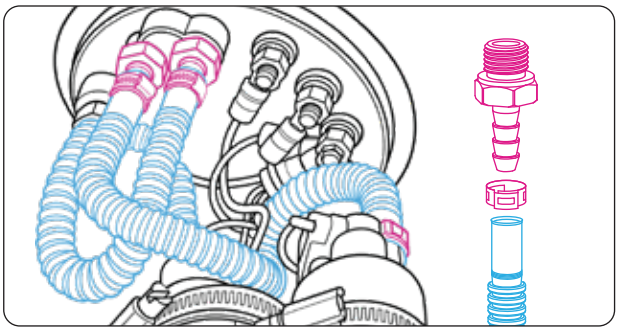
Mount the aluminum fuel pump bracket (11) to the stainless steel bracket (4) using the MC6S M6x35 bolt (12) and M6 lock nut (10). Leave loose for adjustment after the fuel pumps are installed.



5. Fuel pump installation

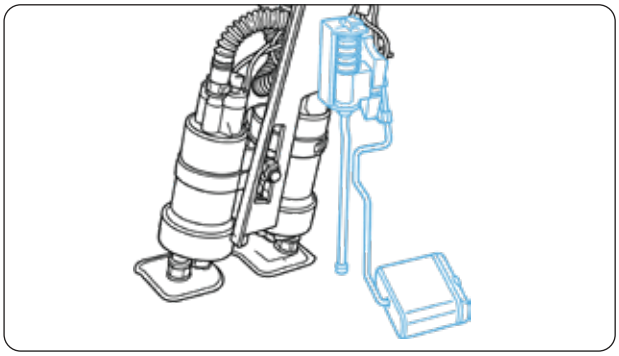
Secure the single or dual fuel pumps to the bracket (11) using the stainless steel hose clamps (13). For dual pumps, position both pumps at equal height and aligned with the top lid.

Adjust the bracket to position the pump filters 205–210 mm (8.07–8.27 in) from the top lid flange, as shown. Then tighten (12, 10) to 7 Nm (5.16 ft-lb).



6. Fuel pump hose routing

Fit hose clamps (14) to both ends of each fuel hose (15/16) and connect to the barb fittings (7/8) and pump outlets. Gently heat the hose if needed to ease installation, without deforming it. Secure all clamps using hose clamp pliers.



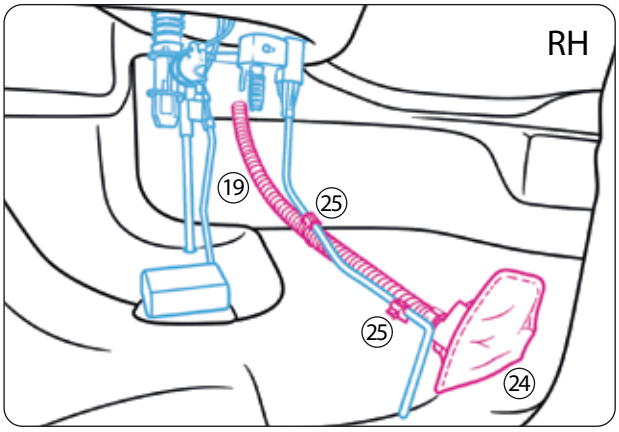
7. Fuel level sender repositioning

Remove the OEM fuel level sender from the LH tank lid and clip it directly onto the FPH stainless steel bracket. No additional hardware is required. Reconnect the wiring to the two dedicated level sender connectors on the FPH.

8. Remove RH tank lid and OEM venturi

Remove the RH tank lid and OEM venturi unit underneath. Leave the steel mounting wire and OEM level sender installed.

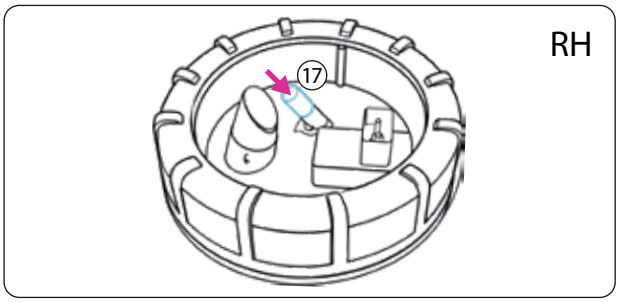
Remove the OEM venturi tube running from RH to LH. Carefully pull it free from the OEM surge tank bucket.



9. Assemble and route the new venturi hose

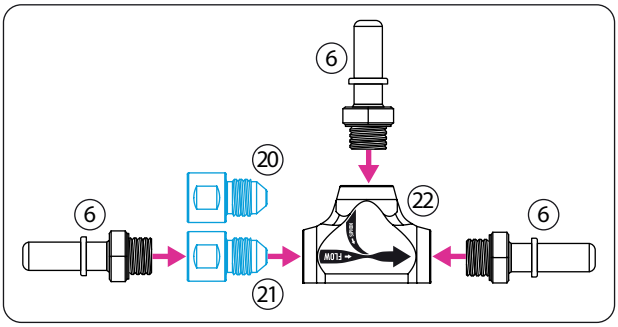
Attach the fuel filter sock (24) to the longest SAE fuel hose (19), then secure the hose to the RH lid mounting wire using the two zip ties (25), as illustrated.

Route the hose across the tank from RH to LH. Install the new gasket (2) and refit the RH tank lid.



10. Block off the OEM fuel return

Fit the included silicone protection cap (17) to the OEM fuel return barb on top of the RH tank lid.



11. Assemble the Venturi Jet Pump Unit

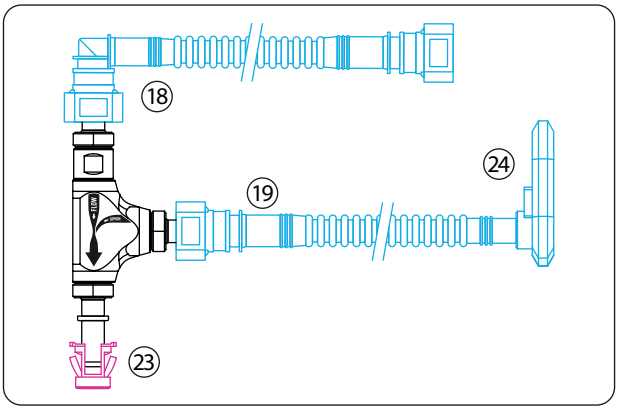
Assemble the Venturi Jet Pump Unit (22) with the three SAE fittings (6). Install the Standard Flow orifice fitting (20) at the inlet and make sure the engraved flow direction matches the fuel flow.

Orifice selection:

Standard Flow (20): Recommended as the default setup for optimized venturi performance.

High Flow (21): Use if Standard Flow restricts the return flow and prevents correct base fuel pressure.

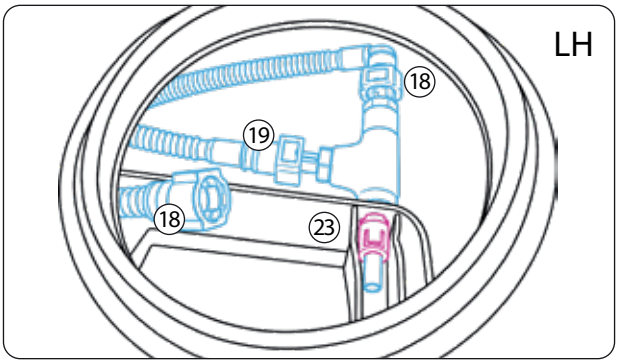
Always use the smallest orifice that allows stable base fuel pressure. If fuel pressure rises at idle, switch to the High Flow orifice.



12. Venturi hose routing

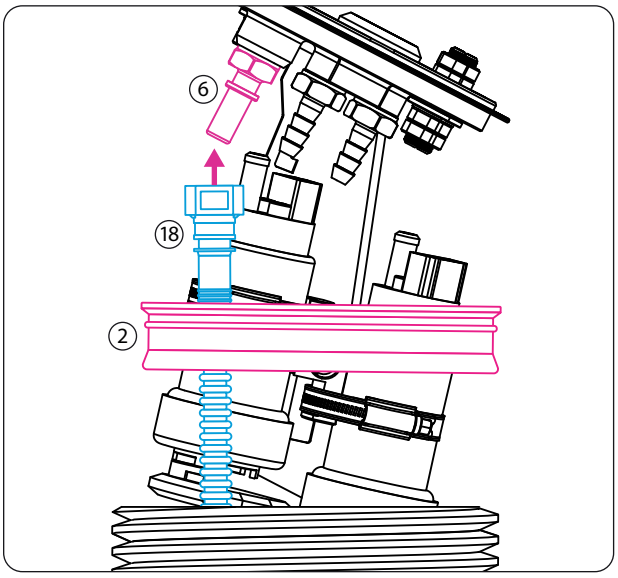
Connect the return hose (18) to the Venturi inlet through the orifice fitting. The other end will later connect to the FPH return port.

Connect the crossover hose (19) from Step 9 to the Venturi siphon inlet.



Push the Venturi outlet fitting (6) through the opening in the OEM surge tank bucket where the original venturi

tube was located. Secure the fitting using the included plastic SAE locking insert (23).



13. Install the FPH into the fuel tank

Before installing the FPH assembly, place the new gasket (2) loosely around the assembly. Do not position it in the tank opening yet, as a dual fuel pump assembly will not fit through it in its final position.

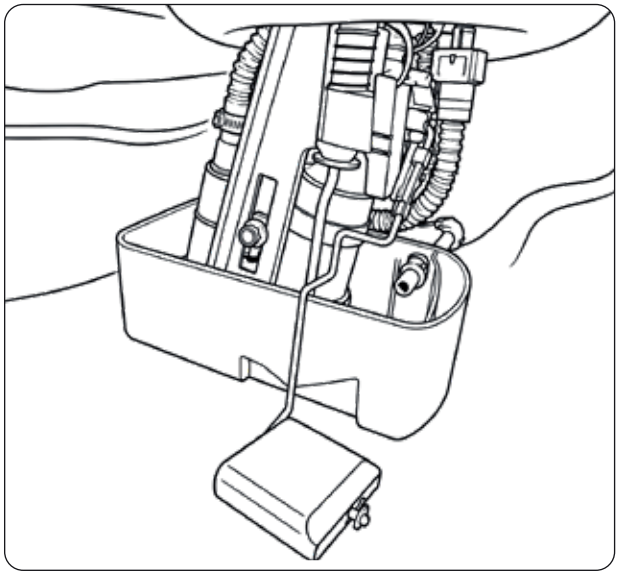
Lower the fuel pumps and level sender arm through the LH tank opening without forcing any components.

During this step, connect the Venturi return hose (18) to the SAE fitting (6) underneath the FPH return port.

Once the widest section has passed through, position the gasket (2) around the tank opening and continue lowering the assembly.

Position the FPH according to the direction arrow on the top lid and make sure the assembly sits freely inside the tank.

The fuel pump filters must not rest against the bottom of the OEM surge tank. A clearance of 5–10 mm (0.2–0.4 in) is recommended.



14. Finalize the fuel pump hanger installation

The installation is now complete. Connect the fuel lines using AN-converted lines. The outlet port is AN-10 ORB and the return port is AN-8 ORB.

Due to the limited space, low-profile banjo fittings are required. Nuke Performance offers several Full Flow Banjo options suitable for this installation.

Important: This setup requires an AN fuel line conversion and relocation of the fuel return to the LH-side top lid. The OEM return connection cannot be used, as the Venturi function has been relocated to the LH side as part of this setup.

15. Final system check

Prime the fuel system and carefully inspect all fuel lines, fittings, and connections for leaks. Verify that the base fuel pressure is correct and stable. If the fuel pressure rises due to restricted return flow, review the Venturi orifice selection before operating the vehicle.

Do not drive the vehicle until the complete fuel system has been checked and confirmed leak-free.

Specifications and compatibility

BMW E36 FUEL PUMP HANGER SPECIFICATIONS :

For more information about the product, vehicle and fuel pump compatibility, available fittings, and accessories, visit the official product page at www.nukeperformance.com.

Compatibility	BMW E36 1990 - 1999
Electrical connectors	x 5 M6 bolt connectors
Level sender compatibility	Reuses OEM LH / RH level senders
Vent port / Filler hose	Uses OEM fuel tank vent / filler function
For motorsports use	YES, for motorsports use only

Fuel pump compatibility	1 or 2 x 39mm outer diameter fuel pumps
Venturi/saddle tank function	YES, includes upgraded venturi jet pump
Outlet port, thread	AN-10 ORB (no fitting included)
Return port, thread	AN-8 ORB (no fitting included)
Part # / EAN	170-02-101 / 7340209512601

Legal and conditions

LEGAL INFORMATION & CONDITIONS :

By installing, using, or servicing this product, the user acknowledges and accepts the conditions set by the manufacturer. Nuke Performance assumes no liability for improper installation, misuse, vehicle damage, personal injury, or accidents resulting from the use of this product. This product is intended for motorsports and off-road use only.

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Information :

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