

Razor

High performance LPG / CNG injection system

Part no.: LWR.1

Precision made of stainless steel, combined with fluoropolymer / elastomer for excellent durability and ever-lasting cleanliness. Sophisticated but ingeniously simple internal design ensures parameters consistency and reliability you can always count on. Top-feed topology results in low pressure loss combined with high flow rates. Newly developed, highly optimized linear actuators provide razor-sharp injection timings and lightning fast operation.

Main features:

- Power supply: 10 - 28 V DC
- Maximum flow rate (without nozzle) **130 l / min**
- Gas compatibility: LPG / CNG
- Coil resistance: 1.9 Ω
- Maximum opening current: 4.5 A / duration 3 ms
- Maximum holding current: 1.5 A
- Working pressure range: 0.0 - 4.0 Bar
- Fluoropolymer coating: anti-stick, anti-freeze
- Proprietary FKM fluoroelastomer sealing
- Opening time: **1.85 ms**
- Closing time: **1.1 ms**
- Integrated 120 micron particle filter
- Nominal nozzles for selecting the injector flow
- Body length: 94.5 mm
- Maximum diameter: 28 mm
- Calibration nozzle nominal diameter: 1.5 mm
- Weight: 106 g



Top Feed



Fluoropolymer
Coating



Low-temperature
optimized



High-speed
operation



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AUTO GAS equipment

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■ Razor injector 1-cyl. LWR.1 KPL



■ Distributors 12/6 mm

(to connect LWR.1/LWR.1P+LWR.ADW6)

4-cylinder

6 mm R12/6/4CYL



3-cylinder

6 mm R12/6/3CYL



2-cylinder

6 mm R12/6/2CYL



■ Adapters (to connect LWR.1/LWR.1P)

L-adapter 12 mm
LWR.AK



T-adapter 12 mm
LWR.AT



■ Injector metal mounts (to connect LWR.1/LWR.1P)

2-cylinder: LWR.S2

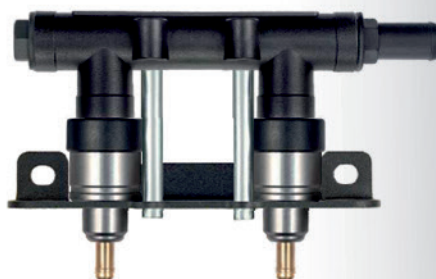
3-cylinder: LWR.S3

4-cylinder: LWR.S4



■ Injector sets (LWR.S2/3/4+LWR.1/LWR.1P)

Razor injector 2-cyl.: LWR.2 KPL



Razor injector 3-cyl.: LWR.3 KPL



Razor injector 4-cyl.: LWR.4 KPL



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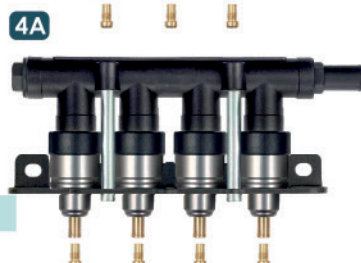
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For Customer's convenience we propose mounting set examples, suitable for 3,4,6 and 8-cyl. engines.

3-cylinder injection sets

Set	Part name	Part number	Qty
3A	Razor injector 3-cyl.	LWR.3 KPL	1
3B	Razor injector 1-cyl.	LWR.1 KPL	3
	Distributor 12/6 mm 3-cyl.	R12/6/3CYL	1
3C	Razor injector body	LWR.1B	3
	Inlet nozzle securing clip	LWR.WSU	3
	T-adapter 12 mm	LWR.AT	2
	L-adapter 12 mm	LWR.AK	1



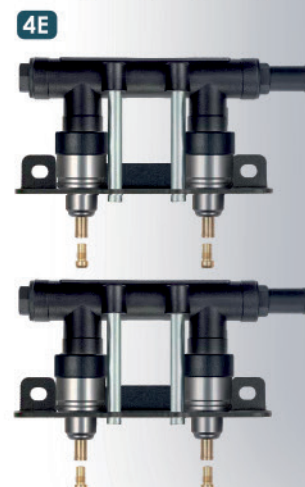
Inline 4-cylinder injection sets

4A	Razor injector 4-cyl.	LWR.4 KPL	1
4B	Razor injector 1-cyl.	LWR.1 KPL	4
	Distributor 12/6 mm 4-cyl.	R12/6/4CYL	1
4C	Razor injector body	LWR.1B	4
	Inlet nozzle securing clip	LWR.WSU	4
	T-adapter 12 mm	LWR.AT	3
	L-adapter 12 mm	LWR.AK	1
4D	Razor injector body	LWR.1B	4
	Inlet nozzle securing clip	LWR.WSU	4
	T-adapter 12 mm	LWR.AT	4



Boxer 4-cylinder injection sets

4E	Razor injector 2-cyl.	LWR.2 KPL	2
4F	Razor injector 1-cyl.	LWR.1 KPL	4
	Distributor 12/6 mm 2-cyl.	R12/6/2CYL	2
4G	Razor injector body	LWR.1B	4
	Inlet nozzle securing clip	LWR.WSU	4
	T-adapter 12 mm	LWR.AT	2
	L-adapter 12 mm	LWR.AK	2



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6-cylinder injection sets

Set	Part name	Part number	Qty
6A	Razor injector 3-cyl.	LWR.3 KPL	2
6B	Razor injector 1-cyl.	LWR.1 KPL	6
	Distributor 12/6 mm 3-cyl.	R12/6/3CYL	2
6C	Razor injector body	LWR.1B	6
	Inlet nozzle securing clip	LWR.WSU	6
	T-adapter 12 mm	LWR.AT	4
	L-adapter 12 mm	LWR.AK	2
6D	Razor injector body	LWR.1B	6
	Inlet nozzle securing clip	LWR.WSU	6
	T-adapter 12 mm	LWR.AT	5
	L-adapter 12 mm	LWR.AK	1
6E	Razor injector body	LWR.1B	6
	Inlet nozzle securing clip	LWR.WSU	6
	T-adapter 12 mm	LWR.AT	6

8-cylinder injection sets

8A	Razor injector 4-cyl.	LWR.4 KPL	2
8B	Razor injector 1-cyl.	LWR.1 KPL	8
	Distributor 12/6 mm 4-cyl.	R12/6/4CYL	2
8C	Razor injector body	LWR.1B	8
	Inlet nozzle securing clip	LWR.WSU	8
	T-adapter 12 mm	LWR.AT	6
	L-adapter 12 mm	LWR.AK	2

6A



6B



8A



8B



6C



8C



6D



6E



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