


PI 2198

For technical personnel only!

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PRODUCT INFORMATION

EXPANSION VALVES FOR AIR CONDITIONING

Motorservice has added a new product group to its product range in the form of expansion valves for air conditioning. This means that Motorservice's aftermarket offering now covers a wide range of models from manufacturers such as Toyota, Volkswagen, BMW or Mercedes-Benz. These include vehicles with combustion technology as well as high-voltage vehicles.

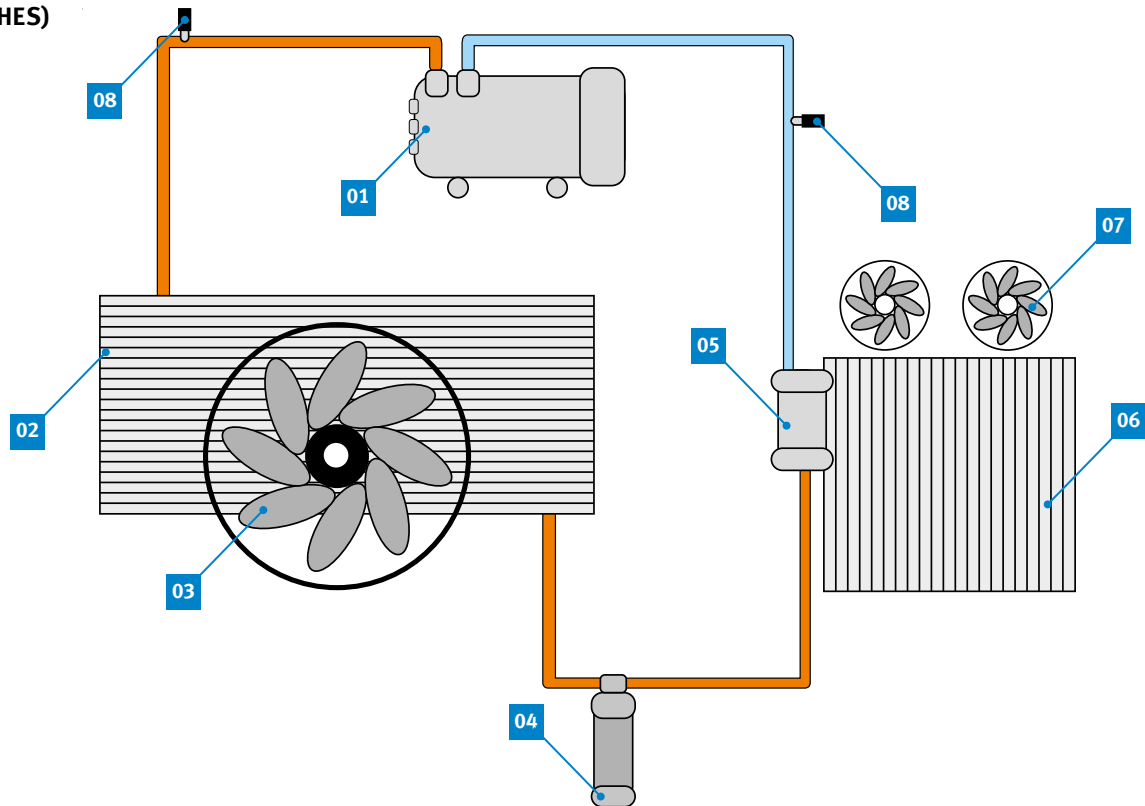
One of the key reasons for replacing an expansion valve is that, when replacing an air-conditioning compressor, all non-flushable parts should also be replaced – this includes the expansion valve. By doing this, impurities are removed from the refrigerant circuit.

With the new expansion valves in OEM quality, this replacement is possible in more than 46 million vehicles worldwide.

The expansion valve is an important component of the air-conditioning system and, together with the air-conditioning compressor, separates the high-pressure side from the low-pressure side. The expansion valve reduces the pressure on the high-pressure side to a constant pressure of approx. 2.5 bar. Because the expansion valve is located directly on the evaporator, the refrigerant expands in the evaporator and becomes gaseous. The refrigerant absorbs heat and the resulting cold air is released to the vehicle interior via the interior fan.



Motorservice is continuously expanding the product portfolio in the area of air-conditioning systems, both in combustion vehicles and in hybrid or high-voltage vehicles. The aim is to provide the spare parts for the entire refrigerant circuit in our usual OE quality.

**REFRIGERANT CIRCUIT IN AIR-CONDITIONING SYSTEMS (SCHEMATIC DIAGRAM FEATURING TWO PRESSURE SWITCHES)**

- 01 (Electric) compressor
02 Condenser
03 Condenser fan
04 Filter dryer

- 05 Expansion valve
06 Evaporator
07 Interior fan
08 Pressure switch

High-pressure side
Low-pressure side

Item no.	OEM	Ref. no.	Example applications
7.14279.01.0	Toyota	8851547040	Prius
7.14279.02.0	Toyota	8851520140	Prius
7.14279.13.0	Volkswagen	1S0820679B	up!
7.14279.03.0	Toyota	8851516060	Prius
7.14279.06.0	Toyota	88515F4020	C-HR
7.14279.15.0	Mercedes-Benz	2308300184	Sprinter
7.14279.08.0	Kia	97626G2000	Niro I
7.14279.00.0	Volkswagen	5Q0816679B	Passat
7.14279.10.0	BMW	64 50 3 452 759	X5
7.14279.07.0	Nissan	92200-EE00A	Leaf
7.14279.16.0	Mini (BMW)	64116845415	Cooper
7.14279.12.0	BMW	6 823 978	X3
7.14279.14.0	Mercedes-Benz	A1648300084	M-Class
7.14279.17.0	Mercedes-Benz	A2128300284	C-Class
7.14279.11.0	BMW	64 11 9 159 803	520 d