

Title (en)  
FOUR-VALVE HIGH PRESSURE PUMP

Title (de)  
VIER-VENTIL-HOCHDRUCKPUMPE

Title (fr)  
POMPE HAUTE PRESSION À QUATRE SOUPAPES

Publication  
**EP 2890896 B1 20160928 (DE)**

Application  
**EP 13747971 A 20130801**

Priority  
• DE 102012017046 A 20120829  
• EP 2013002281 W 20130801

Abstract (en)  
[origin: WO2014032758A1] A four-valve high pressure pump (1) comprises in the known fashion a drive (2) and a pump part (3) with a piston (6) capable of moving in a cylinder (9). Two cylinder blocks (10, 11) are arranged on the ends of the cylinder (9), through which blocks a transition duct (12, 13) runs. The inlet (24) for the medium to be pumped is provided on an inlet casing part (17). A medium duct (22) communicating with the inlet (24) extends through the inlet casing part (17), in which duct a non-return valve (25, 26) is arranged either side of the opening for the inlet (24) and which communicates at each opposing end with the interior of the cylinder (9) via a transition duct (12, 13) of a cylinder block (10, 11). An outlet casing part (18) is constructed in a similar fashion, but has an outlet (27) for the medium to be pumped instead of the inlet (24). The inlet casing part (17) and/or the outlet casing part (18) is detachably fastened to the cylinder blocks (10, 11) at the side in such a manner that it can be removed without further dismantling the pump part (3). This allows the four-valve high pressure pump (1) to be broken down into smaller, lighter units for transport purposes. Additionally, this makes servicing the non-return valves (25, 26, 28, 29) easier.

IPC 8 full level  
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