

Title (en)  
Unit type expansion valve

Title (de)  
Einheitliches Entspannungsventil

Title (fr)  
Vanne de détente unitaire

Publication  
**EP 0691517 A1 19960110 (EN)**

Application  
**EP 95110177 A 19950629**

Priority  
JP 14757894 A 19940629

Abstract (en)  
In a unit-type expansion valve (10) a barrel-shaped valve casing (11) is provided to penetrate a high-pressure refrigerant passage (12) and a low-pressure refrigerant passage (13) sideways. The inside diameter of the low-pressure refrigerant passage (13) is not smaller than inside diameter of the high-pressure refrigerant passage (12). A unit (15) is inserted into the valve casing (12) from the side of the lower-pressure refrigerant passage (13). Said unit (15) is integrally composed of a thermo-sensitive chamber (20) and a valve mechanism (30). The thermal-sensitive chamber (20) is disposed in the opening at the inlet of the valve casing (11) so that this opening is closed by the thermo-sensitive member (20). The unit (15) as a whole can be pulled out from the valve casing by pulling the thermo-sensitive chamber (20) outwardly. <MATH>

IPC 1-7  
**F25B 41/06**

IPC 8 full level  
**F25B 39/02** (2006.01); **F25B 41/06** (2006.01); **G05D 23/12** (2006.01)

CPC (source: EP US)  
**F25B 41/335** (2021.01 - EP US); **F25B 2341/0683** (2013.01 - EP); **F25B 2500/01** (2013.01 - EP); **F25B 2500/21** (2013.01 - EP)

Citation (applicant)  
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Citation (search report)  
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