

Title (en)  
EXPANSION VALVE

Title (de)  
EXPANSIONSVENTIL

Title (fr)  
SOUPAPE DE DETENTE

Publication  
**EP 1844270 A1 20071017 (DE)**

Application  
**EP 05824153 A 20051222**

Priority  
• EP 2005013892 W 20051222  
• DE 102005003967 A 20050127

Abstract (en)  
[origin: DE102005003967A1] An expansion valve (16) for a cooling system, especially using carbon dioxide, comprises a housing with supply inlet (34) and outlet (37) fluidly coupled by an expansion pipe (46), or that has a fluid connection to inlet or outlet. A by-pass valve (36) is in parallel with the expansion pipe and the pipe has an opening cross-section ( $A_f$ ) of between 0.06 and 0.5 mm<sup>2</sup>.

IPC 8 full level  
**F25B 41/06** (2006.01)

CPC (source: EP US)  
**F25B 41/37** (2021.01 - EP US); **F25B 9/008** (2013.01 - EP); **F25B 2309/061** (2013.01 - EP); **F25B 2341/063** (2013.01 - EP); **F25B 2400/0411** (2013.01 - EP); **F25B 2500/01** (2013.01 - EP)

Citation (search report)  
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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**DE 102005003967 A 20050127**; EP 05824153 A 20051222; EP 2005013892 W 20051222