

Title (en)
Dual check valve.

Title (de)
Zweifaches Rückflussverhinderungsventil.

Title (fr)
Double clapet de non retour.

Publication
EP 0418580 A1 19910327 (EN)

Application
EP 90116113 A 19900822

Priority
US 40957089 A 19890919

Abstract (en)
A dual check valve backflow preventer (10) includes a valve body (12) defining a volume (28) and an inlet (14) and an outlet (16) for flow of liquid through the valve. Disposed within the valve body (34) are first and second valve seats, and first and second check valve assemblies. Each valve assembly includes a valve element (30,32), a seal (72,46) mounted upon the valve element and, e.g., springs (55,74) that urge the seal into engagement with the valve seat (34). The first valve element (30) is mounted for movement within the valve body (44) along a valve axis, between a closed position and an open position for flow of fluid from the inlet toward the outlet. The second valve element (32) is mounted for movement independent of the first valve element (30), along the same valve axis, also between a closed position and an open position for flow of fluid from the inlet toward the outlet. The first valve element (30), at least in closed position, overlaps the position of the second valve element (32) in open position.

IPC 1-7
E03C 1/10

IPC 8 full level
E03C 1/02 (2006.01); **E03C 1/10** (2006.01); **F16K 15/02** (2006.01)

CPC (source: EP)
E03C 1/106 (2013.01)

Citation (search report)
• [A] US 4284097 A 19810818 - BECKER BERNARD B, et al
• [A] US 4172469 A 19791030 - BOEHRINGER WILFRED E [US]
• [A] AT 366803 B 19820510 - C H ZIKESCH GES MIT BESCHRAENK [DE]

Cited by
US5754275A; US2022098014A1; US11814272B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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