

Title (en)
LIGHTWEIGHT VALVE

Title (de)
LEICHTBAUVENTIL

Title (fr)
SOUPAPE LEGERE

Publication
EP 1485582 A1 20041215 (DE)

Application
EP 03743371 A 20030304

Priority
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• EP 0302178 W 20030304

Abstract (en)
[origin: WO03074843A1] The invention relates to a lightweight valve that consists of a valve base, the latter comprising a valve stem and a hollow valve cone, and a valve head cover, whereby the valve base is linked with the valve head cover by means of a material-displacing welding method. A weight-reducing cavity is defined between the valve cone and the valve head cover in the assembled state of the valve, said cavity being provided with a stability-enhancing support structure. Suitable welding methods are projection welding, capacitor discharge welding and friction welding.

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