Title (en)

VARIABLE FLOW REDUCING VALVE AND GRADUAL CONTROL VALVE DISTRIBUTION SYSTEM FOR A COMPRESSED AIR INJECTION ENGINE OPERATING ON MONO OR MULTI ENERGY AND OTHER ENGINES OR COMPRESSORS

Title (de)

EXPANSIONSVORRICHTUNG MIT VARIABLER ABNAHME UND PROGRESSIVE VENTILSTEUERUNG FÜR DRUCKLUFTMOTOREN

Title (fr)

DETENDEUR A DEBIT VARIABLE ET DISTRIBUTION PAR SOUPAPE A COMMANDE PROGRESSIVE POUR MOTEUR A INJECTION D AIR COMPRIME FONCTION NANT EN MONO ET PLURI ENERGIE ET AUTRES MOTEURS OU COMPRESSEURS

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Application

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Abstract (en)

[origin: WO03089764A1] The invention relates to a variable flow reducing valve and distribution system for compressed air injection engines, comprising a high-pressure compressed air tank and a buffer capacity and operating on mono or dual energy with dual or triple supply mode. Said invention also comprises a system for controlling the stroke of the piston which can be used to stop said piston at the dead centre. Moreover, the air supply in the final use buffer capacity and the supply to the cylinders are ensured by pilot valves. The cams of the aforementioned pilot valves, which are used to control the rocker arm rods, are positioned directly on the flanges of the crankshaft (14) and each rocker arm pivots around a mobile shaft (21) that can move between the two ends thereof, thereby enabling the changing of the lever arm ratio which determines the lifting of the valve according to the movement of the rocker arm rod. The invention is suitable for use as a gas reducing valve or for engine or compressor distribution systems.

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