

Title (en)
HYDRAULICALLY OPERATED ACTUATOR

Title (de)
HYDRAULISCH BETRIEBENER ANTRIEB

Title (fr)
ACTUATEUR HYDRAULIQUE

Publication
EP 0804685 A2 19971105 (EN)

Application
EP 96900641 A 19960122

Priority
• GB 9600127 W 19960122
• GB 9501118 A 19950120

Abstract (en)
[origin: WO9622466A2] A hydraulic actuator (10) which controls the operation of a cylinder valve having a valve seat (11), and a valve element (12) which is linearly reciprocable between open and closed positions with respect to valve seat (11), a valve seal housed in the closing face of valve head (13), (or a part of the valve seat (11) engaged by head (13)), a valve operator connected to the valve element (12) and operable in a release mode to move the valve element away from its valve seat and in a valve-closing mode to move the valve element towards its valve seat, and a hydraulic actuator circuit (19, 22) communicating with the valve operator and operable to apply a closing motion to the valve element (12) via the valve operator which reduces in speed as the valve element (12) moves towards the valve seat (11) and engages with the valve seal. The hydraulic actuator is particularly suitable for controlling the operation of a cylinder valve of a positive displacement type compressor having "soft" seals, although it does have general application to hydraulic actuation of cylinder valves of other types of engine having valve controlled fluid pressure chambers which are filled, pressurised and then discharge pressure fluid in repeated cycles of operation.

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