

Title (en)

PROCESS AND DEVICE FOR CONTROLLING THE MOVEMENT OF A HYDRAULICALLY ACTUATED VALVE

Publication

EP 0399991 B1 19911211 (DE)

Application

EP 90890140 A 19900508

Priority

AT 126789 A 19890524

Abstract (en)

[origin: JPH0320104A] PURPOSE: To compensate for machining errors and temperature-based dimensional changes of a hydraulically operated valve, by pressing a flying setting plunger that divides the interior of a cylinder into a pressure chamber and an actuating chamber against a stop during a maximum valve lift such that the starting positions of all operation cycles are reset. CONSTITUTION: Within a cylinder 6 integrated with a cage 5, a flying setting plunger 7 and a stopper 8 are installed to divide an actuating chamber 9 and a pressure chamber 10. The pressure chamber 10 is connected to a pressure-generating unit 13 via a high-pressure line 18 controlled by a valve 19, while the actuating chamber 9 is to the pressure-generating unit 13 via a low-pressure line 21 controlled by another valve 22. When a valve element 2 biased by a spring 11 in a closing direction reaches its maximum lift by the action of another plunger 4, the setting plunger 7 is pressed against the stopper 8. The setting plunger 7 therefore resets its starting position for all operation cycles to compensate for machining errors and temperature-based dimensional changes.

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F01L 9/02

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

EP 0328602 A1 19890823 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

Cited by

DE19604455A1; DE19604455B4; US5590635A; AT408138B; US7010829B2; US11272819B2; US8479353B2

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