

Title (en)
LIGHTWEIGHT LINEAR HYDRAULIC ACTUATOR

Publication
EP 0258712 B1 19920129 (EN)

Application
EP 87111802 A 19870814

Priority
US 90253386 A 19860902

Abstract (en)
[origin: EP0258712A2] A lightweight linear hydraulic actuator (10) includes a cylindrical barrel (12) of metal tubing material, a head end gland (14) and a rod end gland (22) fastened to the barrel, a piston (28) and a rod (26) in the barrel with the rod extending through the rod end gland, ports in the sidewall of the barrel on opposite sides of the piston and fitting members having channels in registry with the ports, the fitting members (50,56) including hoop type attachments around the exterior surface of the barrel and a curved surface mating with the curvature of the barrel. A circular groove (66,68) is formed in the surface of the barrel around each of the ports and an O-ring seal is located in the grooves sealing against the curved surface of the fitting member. An axial extension forming part of each of the fittings includes a boss (58,60) receiving a threaded fastener for fastening the fittings to the barrel.

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