



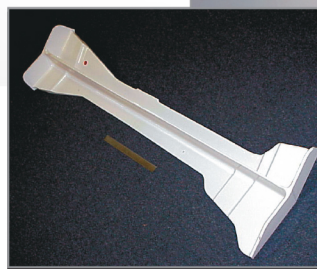
Closed Die Forgings

PRECISION & VALVE BODIES

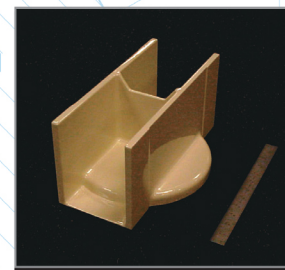
PRECISION FORGINGS

Precision forgings are characterized by 0 to 1 degree draft angles, thin sections, close tolerances, small radii, and excellent surface finishes. The advantages of precision forging over other methods of manufacturing include optimum grain structure and fatigue life, superior stress and intergranular corrosion resistance, and economic net and near-net configurations with capabilities up to 400 inches PVA. APP has built its reputation as a pioneer of precision forgings.

Landing Gear Door Beam Hinge



Terminal Fitting



Structural Component



Window Frame



Window Frame



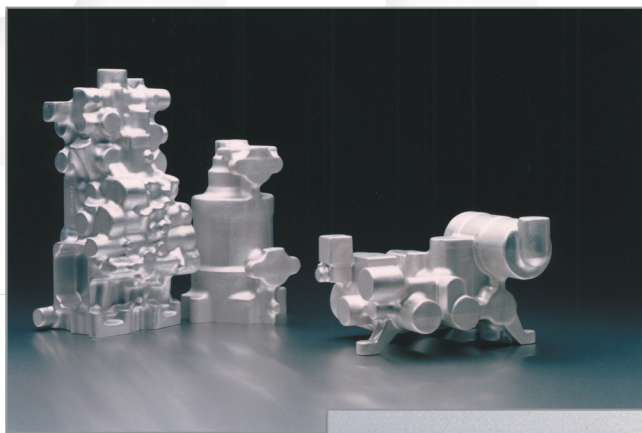
Structural Component

HYDRAULIC VALVE BODIES

The production of complex valve bodies is an important core competency at APP. Valve bodies, such as those used in aircraft hydraulic systems, operate at extremely high pressures and demand the highest structural integrity. Many hydraulic valve bodies are forged in wrap dies to minimize parting line end-grain and achieve extremely complex features, reducing the cost of expensive 4 and 5 axis machining.

APP also utilizes more economical conventional tooling and forging processes to produce hydraulic valve bodies. Such valve bodies have designs that allow for more pronounced parting lines, or have configurations and performance requirements that do not demand the strict parting line controls that the more expensive wrap dies achieve.

Whether forged with intricate wrap dies or conventional tooling, APP forged hydraulic valve bodies are universally known for the highest quality and performance.



Seamless, Precision Forging Hydraulic Valve Bodies



These Hydraulic Valve Bodies were fabricated using Conventional Forging Tooling

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