

Additive Manufacturing

Overcenter valve

- Optimized flow paths for improved performances
- Extreme stability on full working range
- Absence of auxiliary plugs

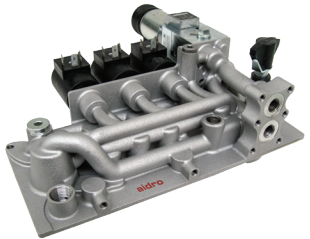


Lightweight Hydraulic Manifold

- Optimized flow paths thanks to curved channels
- Performances optimization
- Ability to combine multiple parts into one

High pressure Hydraulic Manifold

- Good mechanical properties
- Performances optimization
- Absence of auxiliary plugs
- Optimized flow paths thanks to curved channels



Traditional production



60% weight reduction



Metal 3D printing



**FLUID
POWER**



**INDUSTRIAL
HYDRAULICS**



**ENERGY
OIL&GAS**



AEROSPACE

Activities

Design

allows complex geometries, lightweight solutions, space saving, integration of multiple parts into one.

Production

with metal 3D printers laser powder bed fusion and binder jetting. Materials: stainless steel, aluminium, Inconel, maraging steel

Testing

on material properties, pressure resistance, mechanical and micro-structural properties, functional test, NDT and dimensional control with 3D scan.

Process Qualification

quality Management System EN/AS 9100 and Process Qualification in accord to API20S, DNV ST-B203 and customers specifications.

Research & Development

of new products and fast prototypes, saving time.

CNC Finishing

machining of cavities, surfaces finishing and other post-processing are available for 3D printed parts.

Post Treatments

heat treatment of 3D metal printed parts, surface finishing, coating.



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