Qualival Factory and Refurbishment Plant Advantages to Recover "Scrap" Cylinders

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1. Qualival Unit

2. Refurbishing Process

3. Manufacturing Process

4. Recovery Process

5. Advantages to Recovery



Qualival Unit

Estabilished: 1992 Valve refurbishing

I. F. Constant

Self Regulation Code 1996

1997 Cylinder refurbishing start

2012 New plant

2014 Cylinder manufacturing

2015 Qualival acquired by Supergasbras

2016 a 2022 Business remodeling, focusing on the core business Facility area: 45 thousand m²

Contraction of the second s

Brazil's largest refurbishing plant

Production Volume: 1.7 MM per year.

1.350 days without accidents







P13 Cylinder manufacturing

ABNT NBR 8460 - Cylinder Manufacturing ABNT NBR ISO 9001 - Quality Management System ABNT NBR 17025 - Evaluation of testing laboratories

Cylinders Refurbishing, Recovery and Maintenance

- ABNT NBR 8865 Cylinders Requalification
- ABNT NBR 14909 Cylinders Maintenance
- ABNT NBR ISO 9001 Quality Management System

Cylinders Scrapping

ANP - Inutilization Agent







SUPERGASBRAS



Hydrostatic Test

Products and Process laboratory analysis













TensileTest Machine





Shell Thickness Check Volumetric Capacity Check





Embossing Height

Manufacturing Process





"Scrap" Recovery Process



Advantages to Recovery Process

- Cost Reduction;
- Consuptiom Reduction;
- Environmental Friendly;
- 50 to 70% of Scrap Reduction;
- Capex Avoidance







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