Air-Driven Hydrogen Booster Configuration



Base-type appearance; medium-specific configuration is confirmed for the application.

A selection entry for gaseous hydrogen boosting using DGA, DGD or DGT base types. Select the structure and hydrogen-contact parts for hydrogen purity, inlet pressure and flow at the target pressure.

- DGA single-acting, DGD single-stage and DGT two-stage base types
- Select by inlet-pressure range and target duty point
- Confirm hydrogen-contact parts and seals for the operating conditions

Base Types and Configuration Selection

Base type	Structure and drive data	Selection points
DGA	Single acting; 160 mm drive piston	Select the specific model by inlet pressure and flow at target pressure
DGD	Single-stage structure	Confirm inlet-pressure range, hydrogen-contact materials and seals
DGT	Two-stage structure; maximum drive-air pressure 0.8 MPa	Evaluate low inlet-pressure duties; confirm inlet range for the specific model

Selection and Operating Notes

- Check the base type, inlet-pressure range, flow at target pressure and medium-side configuration together.
- Provide hydrogen purity, minimum and maximum inlet pressures, temperature, target outlet pressure, required flow and available drive-air pressure.
- Confirm pump head, valves, seals and leakage requirements for the operating conditions. Define pump and packaged-system supply separately.

气动氢气增压泵配置



氢气增压配置面向气态氢气的压力提升，可在 DGA、DGD、DGT 基型中选择。按氢气纯度、入口压力、目标压力及供流需求匹配结构与接氢部件。

- DGA 单作用、DGD 单级、DGT 两级基型可选
- 按入口压力范围与目标工作点选型
- 接氢部件与密封按使用条件确认

基型外观参考；介质专用配置按工况确认。

基型与配置选型

基型	结构与驱动参数	选型要点
DGA	单作用；驱动活塞直径 160 mm	按入口压力及目标压力下流量选择具体型号
DGD	单级结构	确认入口压力范围、接氢材料与密封
DGT	两级结构；驱动气压上限 0.8 MPa	低入口压力工况可评估；适用入口范围按具体型号确认

选型与工况注记

- 气态氢气选型需同时核对基型、入口压力范围、目标压力下的流量及介质侧配置。
- 选型提供氢气纯度、最低及最高入口压力、温度、目标出口压力、该压力下的流量和可用驱动气压。
- 泵头、阀件、密封及泄漏要求按具体使用条件确认；泵本体与成套系统的供货边界分别确定。