



HIGH PERFORMANCE BALL VALVES FOR EXTREME SERVICES

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Made in Italy

penta s.r.l.



a company of
ALFA VALVOLE s.r.l.
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Colori compositi

a company of
ALFA VALVOLE s.r.l.

Ball valves for extreme temperature
Kugelhähne für extremen Temperatur Einsatz
Vannes à boisseaux sphériques pour températures élevées
Kogelkranen voor extreme temperaturen
Kogelkranen voor extreme temperaturen

Kulventiler för extremt höga temperaturer
Valvole a sfera per temperature estreme
Válvulas de esfera para temperaturas extremas
ΣΦΑΙΡΙΚΟΙ ΚΡΟΥΝΟΙ ΓΙΑ ΣΥΝΘΗΚΕΣ ΥΨΗΛΩΝ ΘΕΡΜΟΚΡΑΣΙΑΣ
耐高温球閥





P40

design ANSI B16.34



-100 °C

+400 °C

SAT crio

design ANSI B16.34/API 6D/ISO 14313
ISO 17292/ASME VIII Div.1

-196 °C

+200 °C

3W

design ANSI B16.34/API 608
ISO 17292/ASME VIII Div.1

-100 °C

+400 °C

"Y" - "L" or "T" configuration

AP

design ANSI B16.34/API 608/BS5351
ISO 17292/ASME VIII Div.1

-46 °C

+400 °C

AP10N - AP10HP - AP20P - AP60 - AP64 - AP68 - AP606 - AP609 - AP615 - AP50 - AP54 - APT2

SAT

design ANSI B16.34/API 608/API 6D
ISO 14313/ISO 17292/ASME VIII Div.1

-100 °C

+720 °C

Special Designs



-196°C

+720 °C

INTRODUCTION

Since 1977 Penta is involved in the design and production of

- Metal seated ball valves for high temperature services
- Metal seated ball valves for abrasive services (with solids)
- Spring Loaded PTFE seated cryogenic ball valves
- Ball valves with special designs arrangements



During its activity the Company has developed proprietary technologies for

- Self lubricated metallic seat material PENTAFITE
- Special expanded graphite gaskets to meet very high pressures and temperatures
- Long lasting designs

More than twenty years of worldwide experience on critical services is now available in a wide range of valve sizes and pressure classes.

All our production is 100% pressure tested to meet NO VISIBLE leakage both in seat hydrotesting and low pressure gas seat testing.

Since 1995 Penta has been part of the ALFA VALVOLE group, one of leading Italian manufacturers of soft seated ball valves.

Safety and reliability together with full satisfaction of customer's expectations are the main criteria on which design and manufacture of Penta valves is based.

PENTAFITE UNIQUE TECHNOLOGY

This advanced exclusive seat material shows together:

- **Metallic properties**, specially for which compressive strength refers
- **Low friction factors**, to reduce valve torque
- **Self lubricating properties**, to eliminate galling experienced with other solid metals
- **High elasticity**, to eliminate lapping of seat to a specific side of the ball and to allow quick and easy interchangeability
- **High corrosion resistance**

a company of

