

PZ4 A & R2Z A series CARBON STEEL SOLUTION



Applications

- "cold" applications: ammonia, chilly water, glycol water mixt... (temp mini -10°C)
- "Hot" applications : steam, steam condensate, super heated water, thermal oils...
- "Flow control & monitoring" applications : steam, steam condensate, chilly water...

MECA-INOX Solution

The carbon steel valves, (Body precision castings: 1.0619, A 216WCB) are available in 2 or 3-piece ball valve, they are designed, machined, assembled & tested in Europe.

They are guaranteed 2 years, spare parts are available for at least 10 years.
The MECA-INOX quality brand is worldwide renowned for 40 years.

Offered from DN 08 to DN 200, PN 16 to PN 100 (according diameter), the seats material set the max operating temperature.

Connections

These valves can be delivered with various connections type such: Socket Welding, Butt Welding, Thread BSP or NPT.

Other specific connections (Double Male Female / Double Female Female, male threaded, ...) can be machined on request.

In order to save site installation time, connections can be delivered prior to valves body.



Coating operation



Fire safety

MECA-INOX 2-piece ball valves, R2 series, in carbon steel and stainless steel are qualified "Fire Safe" according to the new standard EN ISO 10497_2010. EN ISO 10497 cancels and replaces full BS6755 part II, and incorporates the API 607 5th edition (June 2005) & API 6FA 3rd edition (June 1998) requisitions.

This new standard requires a cooling spray directly onto the valve, dropping temperature from 1000°C to 100°C in 10 min and causing a thermal shock. This major modification of the "Fire safe" standard has evolved to more realistic fire conditions, based on the firefighters water jet.

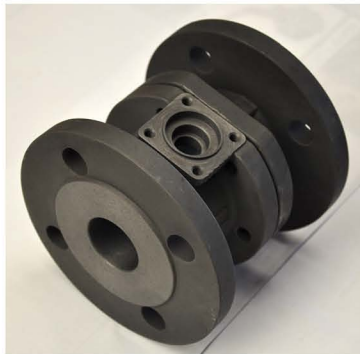
MECA-INOX Solution

Surface protection:

The manufacturing process of our carbon steel ball valves, includes a double coating surface protection. After phosphating, valves are painted with 2 layers of Suncorite (Henkel). We guarantee a 400 hours salt fog test resistance according ASTM B 117 standard, and 500 hours humidity test 100% under 40°C (DIN 50-017 S standard).

On request, we can apply coating according to customers specifications

- ➔ Type (Epoxy, polyamides, ...)
- ➔ Thickness (various layers)
- ➔ Color (RAL, Cyan Magenta Yellow black)



Ex: 2-piece ball valve phosphated



Ex: coated body of 3-piece ball valve

Sealing

upstream / downstream:

20% PEEK PTFE seats (8) provide a high temperature resistance up to 300°C (PZ4 & R2Z series). This material has an excellent long life time under wear and rolling condition.

inside / outside done by:

- ➔ Enclosed body seal (14)
- ➔ Gland packing with double set of chevron (6)
- ➔ Spring washer (wear compensation) (7)
- ➔ Primary sealing with thrust seal 20%PEEK PTFE (4)

