

## Time for hard resistance

Wear attacks and service life of metal-seated ball valves.

Wear parts are the weak points in ball valve technology. In particular, the ball and ball seats must withstand extreme loads. The spectrum of dynamic wear forces is very extensive and results from the loads of high temperatures, high pressures, high switching frequency, aggressive media, abrasive solid particles, abrasion, erosion, vibration, cavitation and flow velocity.

Tailored and application-specific selection of surface coatings of the ball and ball seats based on hard metal (such as chromium carbide, tungsten carbide, chromium oxide, Tribaloy etc.) improve wear resistance, leakage in the port and the service life.



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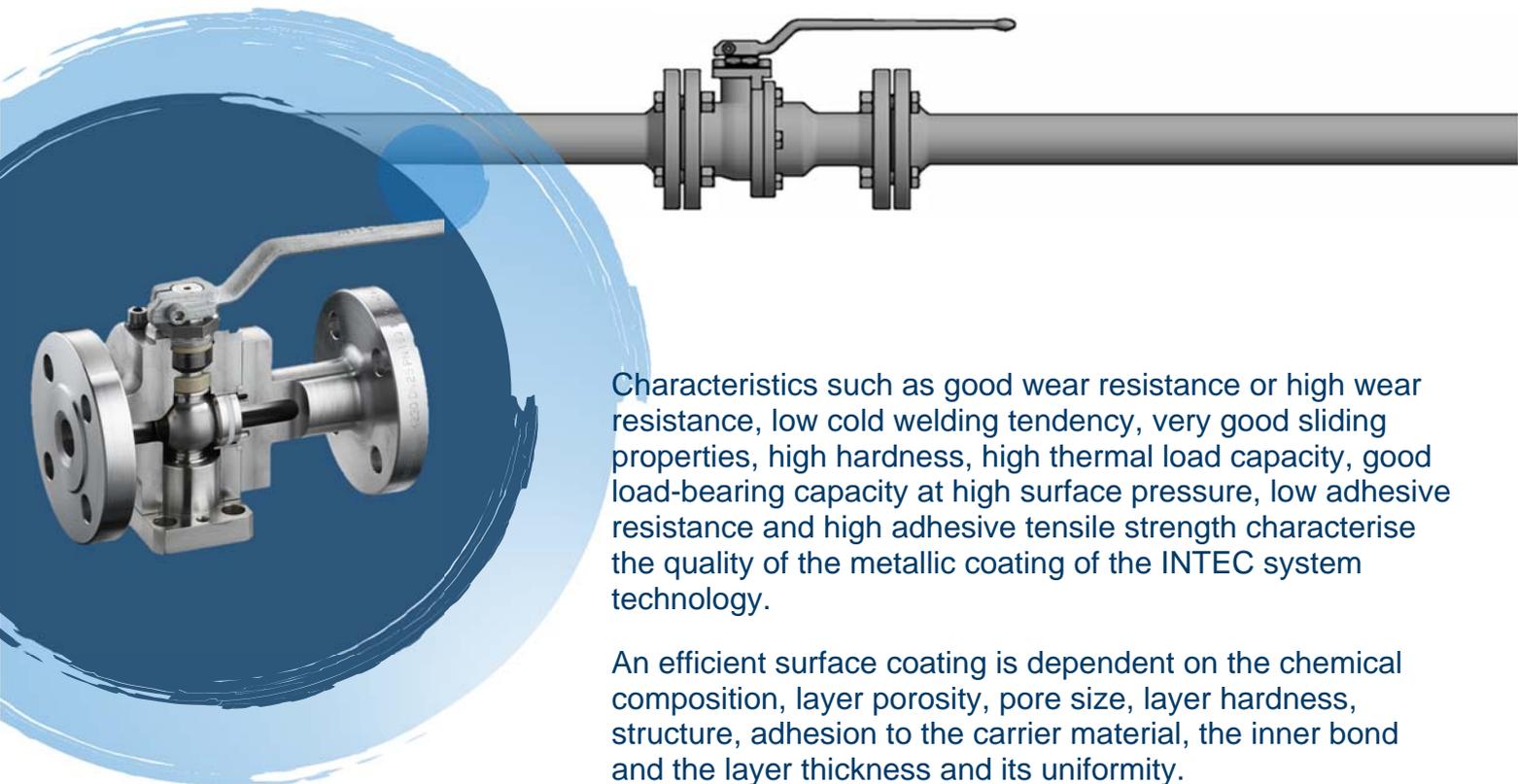
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Characteristics such as good wear resistance or high wear resistance, low cold welding tendency, very good sliding properties, high hardness, high thermal load capacity, good load-bearing capacity at high surface pressure, low adhesive resistance and high adhesive tensile strength characterise the quality of the metallic coating of the INTEC system technology.

An efficient surface coating is dependent on the chemical composition, layer porosity, pore size, layer hardness, structure, adhesion to the carrier material, the inner bond and the layer thickness and its uniformity.

- » Metallic sealing system (floating or mounted ball valve version).
- » Paired ball and ball seats, lapped onto each other.
- » Surface hardness of the coating from 60 up to 70 HRC.
- » Leakage rate A - absolutely gas-tight - continuity tightness  $1 \times 10^{-4}$  mbar helium.
- » Temperature resistance up to 800°C.
- » More than 12 up to 15 different hard material coatings for the optimal solution.

## Get the maximum service life out of technical possibilities!

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