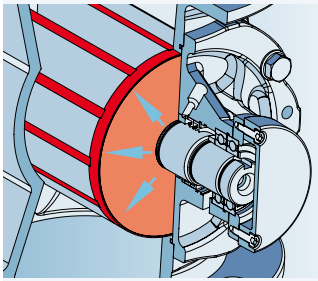


Rotary Valves | Wear Protection

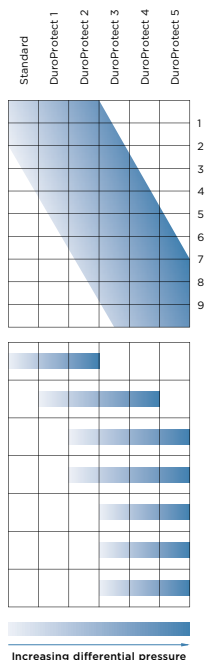
ROTARY VALVE EXECUTIONS

- _ Design incorporates erosive wear protection
- _ Wear resistant materials – adjusted to your application
- _ Particularly for applications within pneumatic conveying systems



WEAR PROTECTION BY DESIGN

- _ Closed end rotor with massive end plates
- _ Narrow gaps due to axially fitted rotor
- _ Seal purging protects sealing rings and hub from wear



DUROPROTECT® PROTECTION CONCEPT

- _ Development of protection concepts based on long-term studies in the Coperion test centre and out in the field
- _ Adapted to Mohs' hardness of bulk material resp. to wear characteristics of typical bulk materials
- _ Optimised for product properties (in particular abrasiveness) and operating conditions (particularly pressure difference)

SELECTION ACCORDING MOHS HARDNESS

SELECTION ACCORDING PRODUCT

WEAR RESISTANCE CONCEPT AVAILABLE IN 5 LEVELS FOR ROTARY VALVES FOR POWDERS

Wear resistance level	Standard	DUROPROTECT® 1	DUROPROTECT® 2	DUROPROTECT® 3	DUROPROTECT® 4	DUROPROTECT® 5
Housing	Cast iron	DUROCHROM®	DUROCHROM®	DUROCHROM®	DUROCHROM®	DUROCERA®
Rotor	D-rotor mild steel	D-rotor mild steel	C-rotor mild steel	C-rotor DUROCHROM®	C-rotor DUROCARB®	C-rotor DUROCARB®
Abrasiveness/ pressure difference						
	Low					High

DUROCHROM®
HOUSING + ROTOR

- _ Housing coated with hard chrome, coating thickness up to 400 µm
- _ Rotor end plates and circumference coated with hard chrome
- _ High wear resistance ensures long-term low leakage gas rates



DUROCARB®
ROTOR

- _ Tungsten carbide welded on tip ends of rotor blades and end blades. Front end of end plates coated with hard chrome
- _ Tungsten carbide matrix is optimised to suit the particle size of the bulk material. This ensures a long service life of the rotor (picture alongside shows tungsten carbide welding before machining)



DUROCERA®
HOUSING

- _ Ceramic reinforcement by seamless lining with fitted solid ceramics at the housing for the technically highest possible wear protection
- _ Maximum wear protection ensures long-term low leakage gas rates

