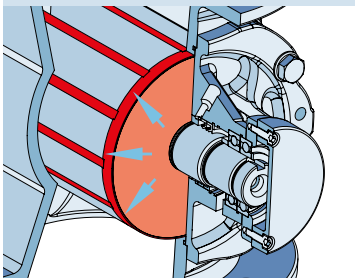


Rotary Valves | Wear Protection

ROTARY VALVE VERSIONS

- _ Design incorporates wear protection
- _ Wear-resistant materials - specific to your application
- _ For use especially in pneumatic conveying



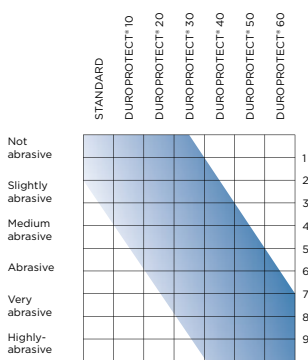
WEAR PROTECTION BY DESIGN

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

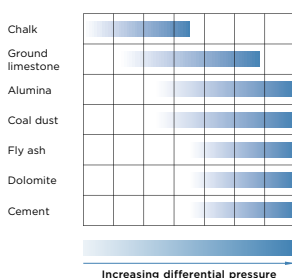
DUROPROTECT® PROTECTION CONCEPT

- _ Selection concept developed on basis of long-term studies at the Coperion Test Center and in the field
- _ Adapted to Mohs' hardness of bulk material relative to typical bulk materials' wear characteristics
- _ Optimized for product properties (particularly abrasiveness) and operating conditions (particularly pressure difference)


SELECTION ACCORDING TO MOHS HARDNESS



SELECTION ACCORDING TO PRODUCT



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

DUROPROTECT*	DP 10	DP 20	DP 30	DP 40	DP 50	DP 60
Housing	DUROCHROM*	DUROCHROM*	DUROCHROM*	DUROCHROM*	DUROCARB*	DUROCERA*
Side covers	DUROCHROM*	DUROCHROM*	DUROCHROM*	DUROCHROM*	DUROCARB*	DUROCARB* DUROCERA*
Rotor	D-rotor Steel	C-rotor Steel	C-rotor DUROCHROM*	C-rotor DUROCARB*	C-rotor DUROCARB*	C-rotor DUROCARB*
Abrasiveness / Pressure difference						
	Low					High

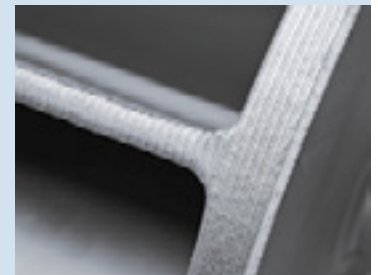
**DUROCHROM®
HOUSING + ROTOR**

- _ 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



**DUROCARB®
ROTOR**

- _ Tungsten carbide welded on tip ends of rotor and end blades. Front end of end plates coated with hard chrome.
- _ Tungsten carbide matrix is optimized to suit particle size of the bulk material (photo alongside shows tungsten carbide welding before machining)



**DUROCERA®
HOUSING**

- _ Monolithic or seamless, fitted solid ceramic lining on the housing for highest housing wear protection technically possible
- _ Maximum wear resistance ensures long-term low leakage gas rates

