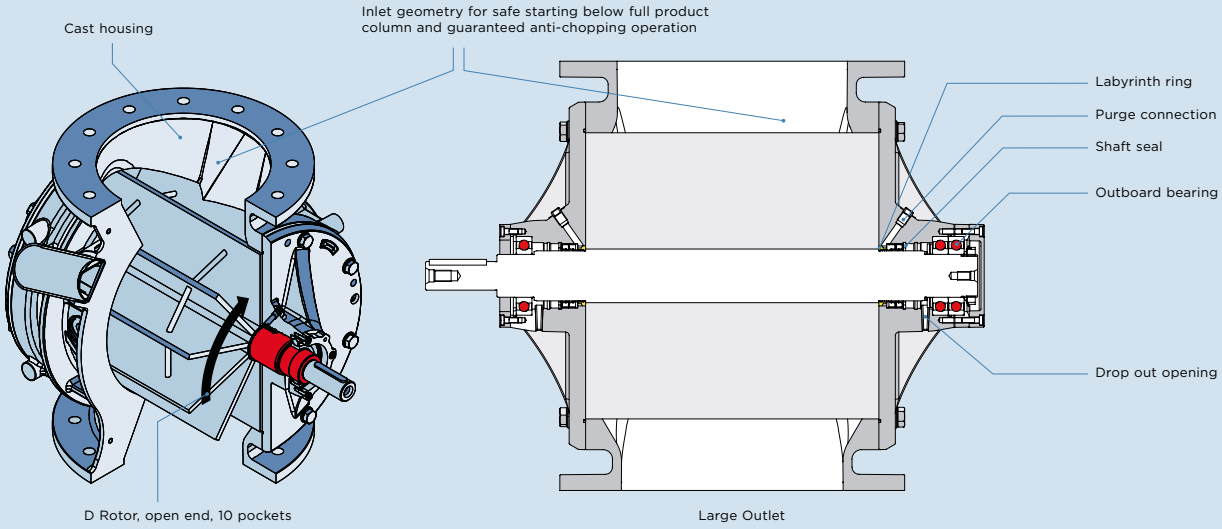
coperion
confidence through partnership

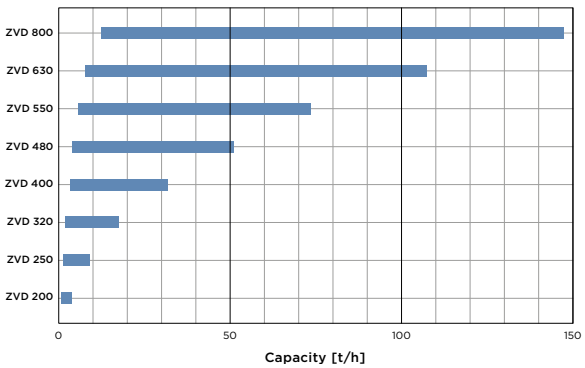
Rotary Valve ZVD

DISCHARGING VALVE FOR FINE- TO COARSE-GRAINED PRODUCTS

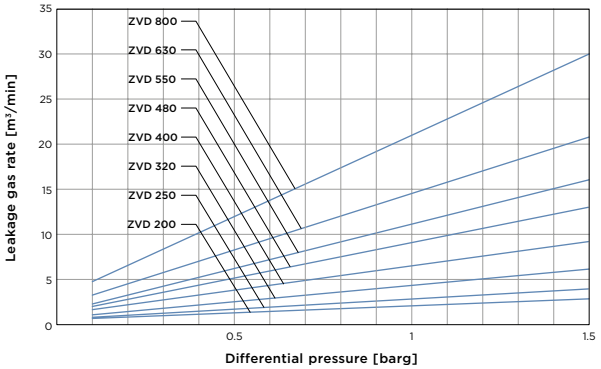
_ Ideal ratio of rotor volume to inlet cross section creates maximum capacity
_ With special inlet geometry for gentle product handling
_ With feeding shoe also suitable for feeding bulk materials into pneumatic conveying systems at up to 1.5 barg (21 psi)



Performance diagram
PE/PP pellets with bulk density 520 kg/m³ and 3.0 mm particle size, Δp = 0.8 barg



Leakage gas diagram
(New, standard clearance 60 °C, max. speed)

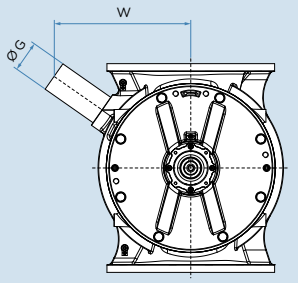


coperion
confidence through partnership

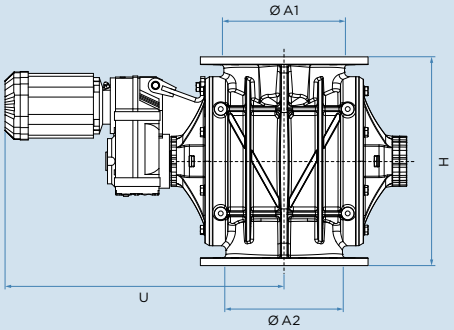
ROTARY VALVE FOR PELLETS | ZVD

MAX. PRESSURE 1.5 barg (21 psi) system and differential pressure
PRESSURE SURGE PROOF 10 barg (145 psi), due to heavy duty design
ATEX (OPTIONAL) Usable in ex-zones and as protection system (Flameproof for dust ST2)
PELLET INLET Special inlet geometry for gentle operation at full product column
CAPACITY High throughputs by venting internal gas leakage prior to filling rotor pockets

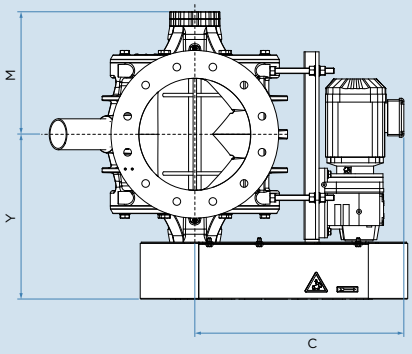
OPTIONS AND ACCESSORIES
_ Quick cleaning coupling with extraction device
_ Rotor with shallow pockets
_ Scraper blades
_ X rotor → ZVX or C rotor → ZVC
_ DUROPROTECT® wear protection, page 36
_ High-temperature design (T) up to 250 °C



Shown without drive



Drive with parallel helical gear motor



With chain drive

	Inlet*/Outlet*				Other dimensions							Weight*** (appr. kg)	
	A1/A2 (DIN)	A1/A2 (ASME)	Ø A1	Ø A2	H^{+7}_{-1}	C**	Y**	W	M**	U**	Ø G	AL	SS
ZVD 200	DN 150	6"	166	155	360	409	328	226	234	622.0	48.3	80	120
ZVD 250	DN 200	8"	213	207	450	442	347	278	253	695.0	60.3	105	165
ZVD 320	DN 250	10"	272	259	500	562	417	320	305	758.5	76.1	160	250
ZVD 400	DN 300	12"	322	310	600	590	474	393	352	818.0	88.9	255	420
ZVD 480	DN 350	14"	360	337	750	686	553	464	416	958.0	88.9	410	680
ZVD 550	DN 400	16"	410	387	850	780	605	537	466	988.0	114.3	565	950
ZVD 630	DN 500	20"	511	487	970	922	637	589	505	1075.0	114.3	780	1220
ZVD 800	DN 700	28"	700	680	1140	1095	750	754	608	1307.0	168.3	1865	3455

Dimensions in mm * Drilled according to DIN PN 10 or the corresponding ASME standard. ** Dimensions do not apply to high temperature design; may vary according to drive. *** With drive.