

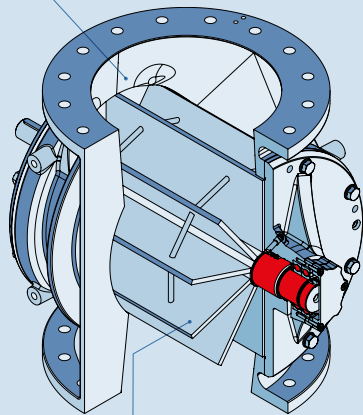
Rotary Valve ZRD



DISCHARGING AND METERING VALVE FOR POWDERS

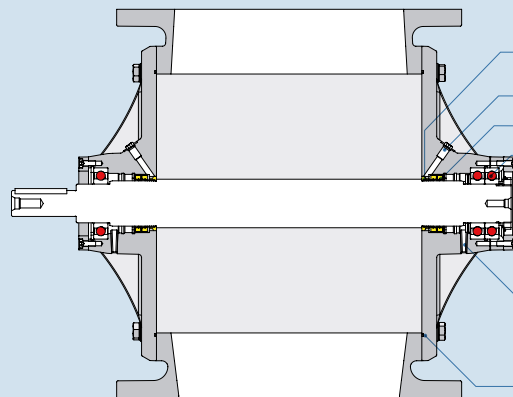
- _ Large inlet for high capacities
- _ With feeding shoes also suitable for feeding bulk materials into pneumatic conveying systems at up to 1.5 barg (21 psi)
- _ Can operate without leakage gas venting

Cast housing



D Rotor, open end, 10 pockets

Large inlet without restriction



Labyrinth ring

Purge connection

Shaft seal

Outboard bearing

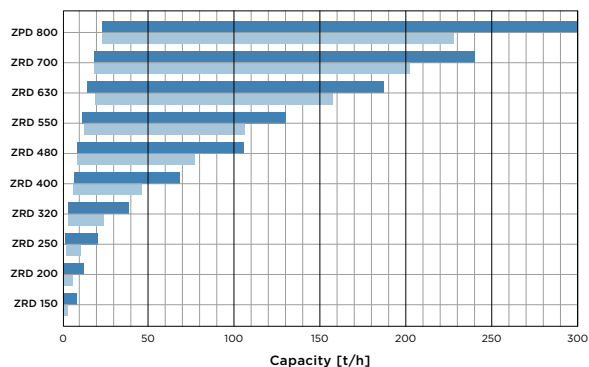
Drop out opening

O ring

Large Outlet

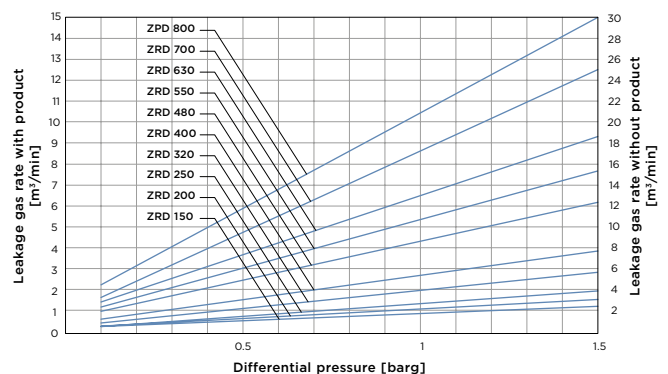
Performance diagram

- Powder with bulk density 1000 kg/m³ and 0.6 mm < d₅₀ < 1.0 mm, Δp = 0,8 barg
- Powder with bulk density 1000 kg/m³ and 0.15 mm < d₅₀ < 0.3 mm, Δp = 0,8 barg



Leakage gas diagram

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

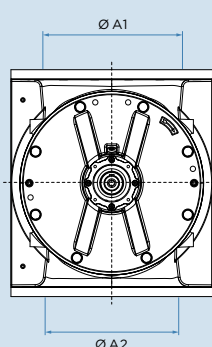


ROTARY VALVE FOR POWDERS | ZRD

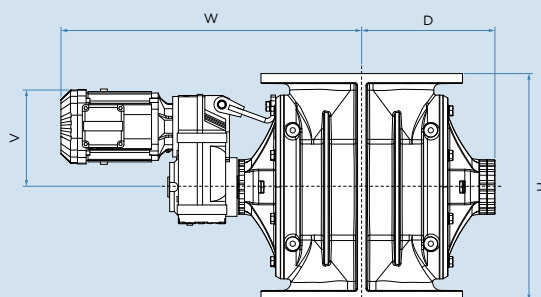
MAX. PRESSURE 1.5 barg (21 psi) system and differential pressure
PRESSURE SURGE PROOF 10 barg (145 psi), due to heavy duty design (ZPD 5 barg)
ATEX (OPTIONAL) Usable in ex-zones and as protection system (Flameproof for dust ST2)
LARGE INLET/OUTLET Without restriction of the cross section for highest capacities
OUTBOARD BEARINGS Separated from product by purged seal arrangement and drop out opening

OPTIONS AND ACCESSORIES

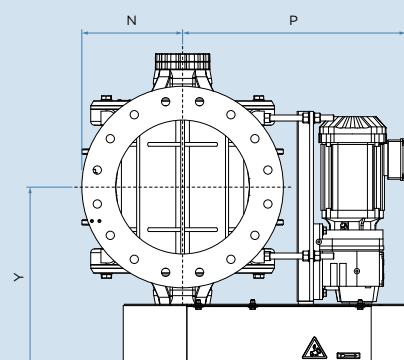
- _ Quick cleaning coupling with extraction device
- _ Chamfered blades
- _ Rotor with shallow pockets
- _ Knife at product inlet
- _ X rotor
- _ DUROPROTECT® wear protection, page 36
- _ Sanitary version
- _ High-temperature design (T) up to 250 °C
- _ Purge-free sealing gaskets



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 ₁ **	P**	Y	N	D	V**	W**	AL	SS/GG
ZRD 150	DN 150	6"	166	155	260	355	246	143	187	177	557	50	70
ZRD 200	DN 200	8"	213	207	340	409	328	171	234	202	622	75	110
ZRD 250	DN 250	10"	272	259	400	442	347	206	253	218	695	100	155
ZRD 320	DN 300	12"	322	310	500	562	417	241	305	226	759	155	245
ZRD 400	DN 350	14"	354	341	600	590	474	267	352	259	818	245	405
ZRD 480	DN 400	16"	410	400	750	686	553	299	416	300	958	405	675
ZRD 550	DN 500	20"	500	480	800	780	605	350	466	300	989	545	910
ZRD 630	DN 600	24"	600	590	900	922	637	408	504	358	1075	765	1335
ZRD 700	DN 700	28"	710	695	1000	1075	704	466	578	443	1257	1170	1965
ZPD 800****	DN 700	28"	700	680	1140	960	800	466	561	517	1260	1965	3495

Dimensions in mm * Drilled according to DIN PN 10 or the corresponding ASME standard. ** Dimensions may vary according to design. *** With drive. **** Varying housing form.