Spomax Engineering SA

Application

Airlocks are applied in pneumatic conveying systems in order to discharge the product from the receiving cyclone or filter and separating the pneumatic and gravity conveying systems.

Construction

Basic elements of airlock are:
- cast iron body with rectangular inlet and outlet openings,
- cast iron rotor with steel shaft installed inside the body,
- side covers with pressure bearings, sealing rings and bearing covers.

Airlocks are manufactured in two versions:
- independent (moto-reducer) – marked with M (power in table)
- group (2-8 pcs) marked M2-M8– only for airlocks SLU2215, SLU2222, SLU2830 - driven via shaft(s) with diameter ø35 mm (key width 10 mm), motoreducer and clutches (installed power max 2,2 kW depending on number of airlocks).

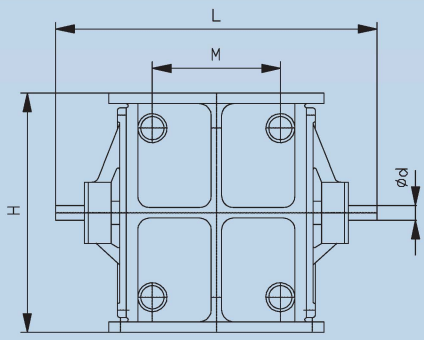
Operation

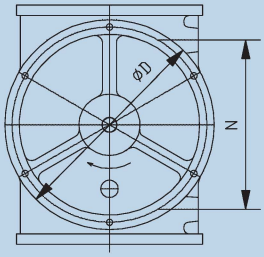
Product is directed to inlet of the airlock and as a result of rotor's revolutions it is evenly fed to the outlet, simultaneously cutting off the air flow from the pneumatic conveying systems.

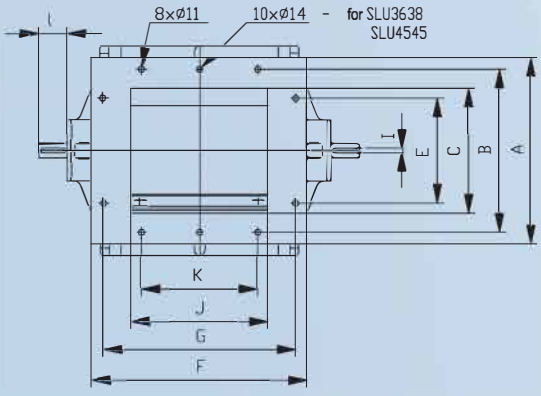
TYPE	Capacity of all chambers [dm³]	Capacity* [t/h]	Max revolutions [rpm]	Installed power [kM]
SLU2215	2,3	1,4	50	0,37
SLU2222	4,4	2,6	50	0,37
SLU2830	11,2	6,7	50	0,55
SLU3638	28,5	16,5	40	0,75
SLU4545	56,0	33,0	40	1,1

*The capacity is given as example – for flour with bulk weight 500 kg/m³and at a revolutions of 40 rpm

TYPE	Dimensions [mm]															Weight [kg]
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	dxl	
SLU2215	235	205	144	285	100	185	165	320	8	115	80	380	-	-	25x47	68,0
SLU2222	235	205	144	285	100	265	245	320	8	175	100	450	150	230	25x47	76,0
SLU2830	320	280	215	360	180	370	330	410	8	235	200	530	220	290	25x47	117,0
SLU3638	350	320	250	440	180	450	420	500	12	320	300	670	270	340	40x60	202,0
SLU4545	410	374	306	530	220	512	476	590	12	390	320	740	320	300	40x60	312,0







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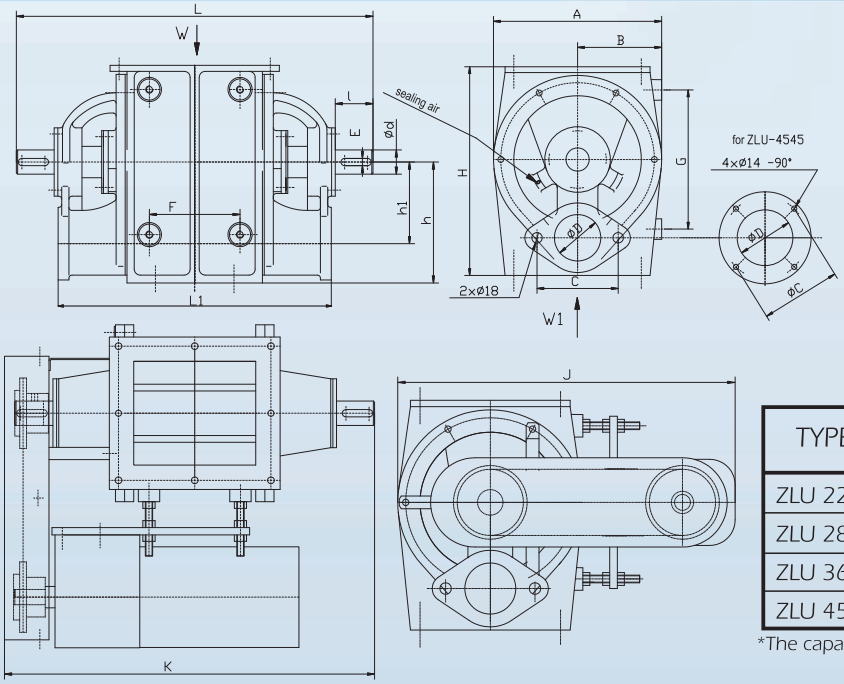
AIRLOCK SLU

BLOW-THROUGH ROTARY VALVE ZLU

BLOW-THROUGH ROTARY VALVE ZLU



TYPE	Capacity of all chambers [dm³]	Capacity* [t/h]	Max revolutions [rpm]	Installed power [kW]
ZLU 2222	5,8	6,0	48	0,75
ZLU 2830	13,3	14,0	43	1,50
ZLU 3638	28,6	25,0	43	1,50
ZLU 4545	55,2	40,0	35	2,20

*The capacity is given as example – for flour with bulk weight 500 kg/m³

TYPE	Dimensions [mm]															Weight [kg]
	A	B	C	D	dxl	E	F	G	H	h	h1	J	K	L	L1	
ZLU 2222	290	145	140	80	40x62,5	12	150	240	360	200	135	530	607	590	453	133
ZLU 2830	360	180	170	100	40x62,5	12	220	280	440	235	160	687	697	680	543	240
ZLU 3638	440	220	190	125	50x62,5	14	300	340	550	300	215	767	822	805	668	355
ZLU 4545	550	285	222	150	55x90,0	16	320	300	677	368	240	985	985	950	755	620

Application

Blow-Through Rotary Valve is designed for feeding/supplying the lose products to high pressure pneumatic conveying system. Maximum positive pressure up to 1,0 bar.

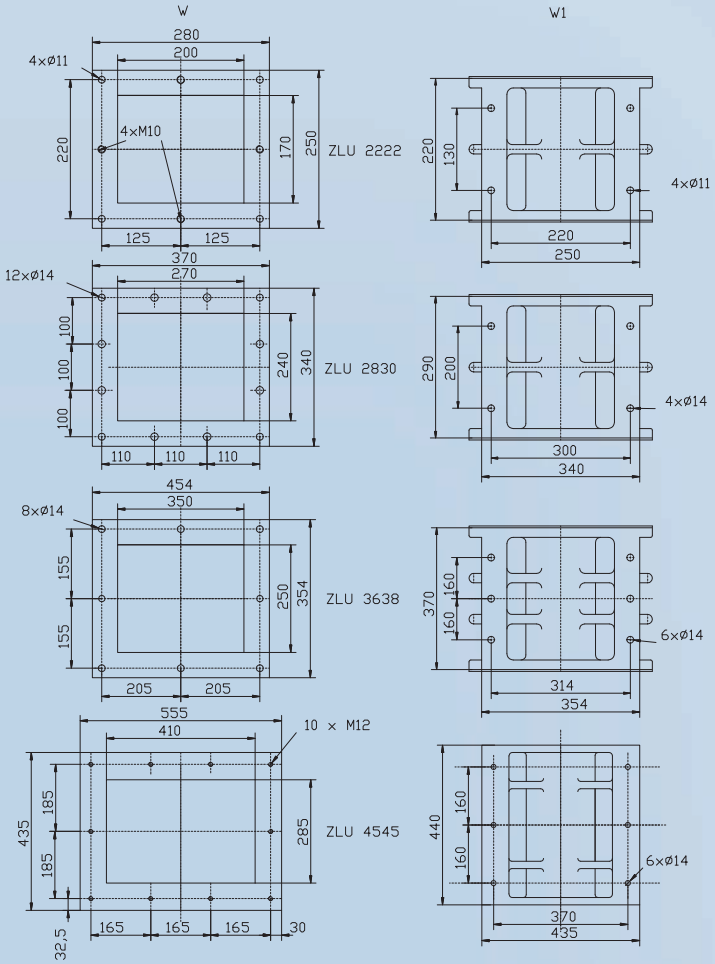
Construction

Basic elements of Blow-Through Rotary Valve are:

- cast iron body with rectangular inlet and modeled channel in bottom part
- cast iron rotor (without side walls) installed inside the body
- side covers with pressure bearings and sealing rings; inside covers there is also installed connector allowing supplying of air assuring additional sealing
- bearing covers
- as an option – drive consisting of motoreducer, chain transmission with cover and fastening plate

Operation

Product is directed to inlet of the Blow-Through Rotary Valve and as result of rotor's revolutions it is evenly fed to the channel in bottom part of housing and next the product is taking away by air of pneumatic conveying system.



Manufacturer reserves the right for modifications of parameters and devices appearance in the course of its improvement.