



As coarse separator before filter units or as fan protection you can advantageously use a cyclone of the type CY-A. For high vacuum the model CY-V-A can be used.

For application in ATEX-zones 20/21/22. Under normal circumstances CY.A will separate sufficiently for reduction of ATEX-zones with one step on clean air side.

Unit is standard dimensioned for KST 300bar m/sec. and Pmax 10bar (similar to ST2).

CY-A: Air volume: 500 - 30,000m³/h
 Vacuum: Up to 5,000Pa
 Rise velocity (immersion tube): Approx. 20m/s

CY-V-A: Air volume: 1,000 - 8,000m³/h
 Vacuum: Up to 40.000Pa
 Rise velocity (immersion tube): Approx. 20m/s

Description

- Polluted air enters unit through tangential inlet on cyclone side top.
- Particles are separated by cyclone effect and fall down along cyclone side and are collected in dust container in unit bottom. Dust container is suspended and emptied by Gram Quicklock-adjustable suspension.
- Clean air is led out by connection in unit top.
- Explosion membrane placed on unit inlet side.

Cyclone als preseparator provides better filter performance

For separation of certain material types/chips or at larger material volumes you can advantageously use a cyclone as pre-separator. Cyclones can either be placed close to the pollution source (hereby piping wear is reduced) or just before filter unit.

Through coarse separation by a cyclone the filter material load is reduced, whereby operating costs are lowered. Further it is possible to pre-separate heavier waste for recycling or safe disposal.



Inlet left/right

Cyclones are standard delivered with inlet connection on the left side. Can alternatively be placed on the right side.



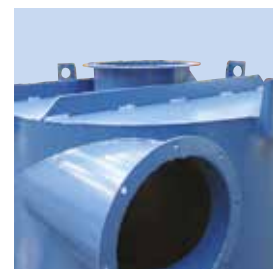
Several possibilities for dust collection

Can be delivered with 72L/67L or 150L/145L-dust container.



Output to bulk bag

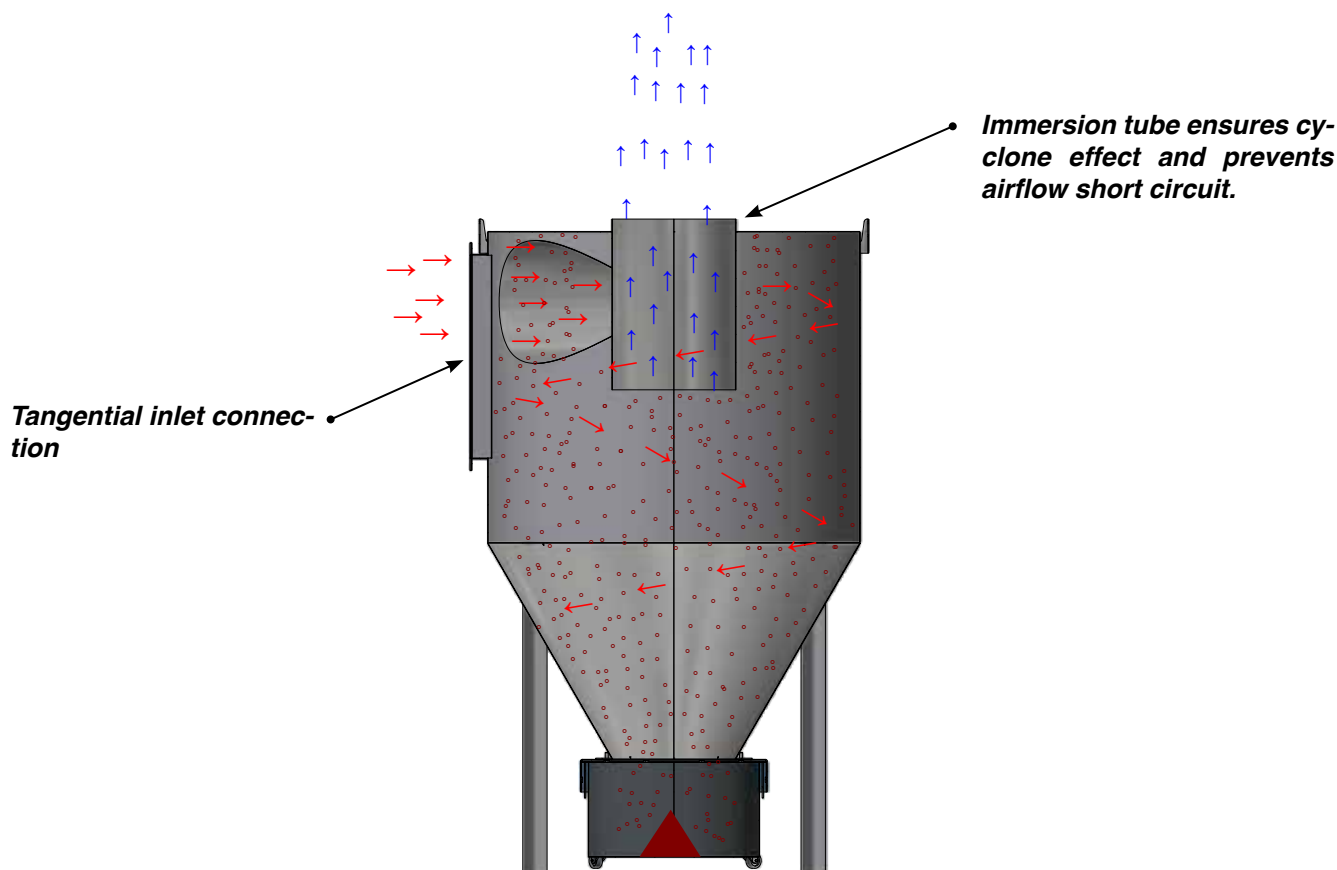
At larger material volumes the cyclone type CY-B-A can be placed on a frame and be equipped with equipment for pressureless output to bulk bag (Photo: Output connection shown without equipment).



Cyclone for high vacuum application

For easy connection to high vacuum piping inlet and outlet are equipped with JKF-flanges (valid from CY-V-A 3000).

Principle sketch for flow through cyclone type CY-A:

**Construction/surface**

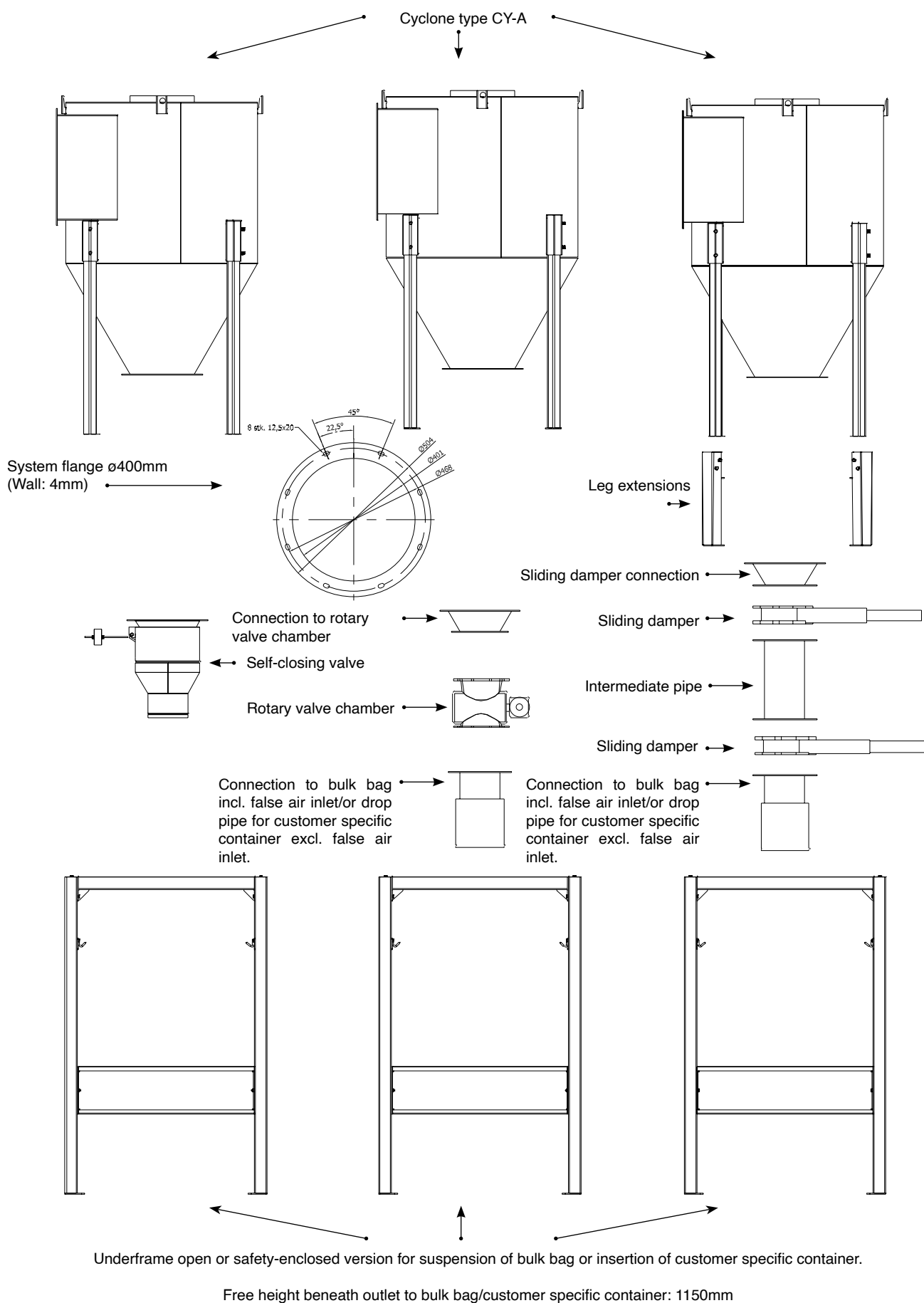
Filter cabinet is made in 2mm black steel plate

Surface powder enamelled RAL 5007/7011 structure

Further is available:

- Version in hot-galvanized, enamelled steel plates for outdoor mounting
- Sack holder for 72L/67L-dust container
- Dust container 150L/145L-dust container
- Underframe and connections for bulk bag and drop pipe for customer specific containers (see sketch next page)
- Underframe for bulk bag enlargement, shielded by door and micro-switch
- Rupture sensor type BRILEX SE-HT ATEX

Principle sketch for equipment for cyclone type CY-A/CY-V-A:



We refer to the Gram price list for the complete program!

Cyclone type CY-A/CY-V-A is available in the sizes as stated in the forms below.

Please, contact us for assistance in selecting the optimal unit taking into consideration air volume, dust type and volume, operation times etc.

- **CY-V-A** is for high vacuum application

Cyclone type CY-A (max. vacuum 5,000Pa):

ATEX zone: 20/21

Type	Order no. Left inlet	Order no. Right inlet	Dust container [L]	Air volume [m³/h]	Rice velocity [m/s]	△ P [Pa]
CY-A 2000/72	10 407 000	10 407 010	72	2100	19,0	1100
CY-A 2000/150	10 407 020	10 407 030	150	2100	19,0	1100
CY-B-A 2000 ¹⁾	10 407 040	10 407 050	-	2100	19,0	1100
CY-A 3000/72	10 407 100	10 407 110	72	3500	20,0	1100
CY-A 3000/150	10 407 120	10 407 130	150	3500	20,0	1100
CY-B-A 3000 ¹⁾	10 407 140	10 407 150	-	3500	20,0	1100
CY-A 4000/72	10 407 200	10 407 210	72	5100	19,0	1100
CY-A 4000/150	10 407 220	10 407 230	150	5100	19,0	1100
CY-B-A 4000 ¹⁾	10 407 240	10 407 250	-	5100	19,0	1100
CY-A 8000/72	10 407 300	10 407 310	72	8500	18,5	1100
CY-A 8000/150	10 407 320	10 407 330	150	8500	18,5	1100
CY-A 12000/72	10 407 400	10 407 410	72	13500	17,5	1100
CY-A 12000/150	10 407 420	10 407 430	150	13500	17,5	1100
CY-A 22000/72	10 407 500	10 407 510	72	22000	20,0	1100
CY-A 22000/150	10 407 520	10 407 530	150	22000	20,0	1100
CY-A 30000/72	10 407 600	10 407 610	72	30000	21,0	1100
CY-A 30000/150	10 407 620	10 407 630	150	30000	21,0	1100

Cyclone type CY-V-A (max. vacuum 40,000Pa):

ATEX zone: 20/21

Type	Order no. Left inlet	Order no. Right inlet	Dust container [L]	Air volume [m³/h]	Rice velocity [m/s]	△ P [Pa]
CY-VA 1000/67	10 406 180	10 406 185	67	800	18,0	1100
CY-V-A 1000/145	10 406 190	10 407 195	145	2100	19,0	1100
CY-B-V-A 1000 ¹⁾	10 406 160	10 406 170	-	2100	19,0	1100
CY-V-A 2000/67	10 407 080	10 407 085	67	2100	19,0	1100
CY-V-A 2000/145	10 107 090	10 407 095	145	2100	19,0	1100
CY-B-V-A 2000 ¹⁾	10 407 060	10 407 070	-	3500	20,0	1100
CY-V-A 3000/67	10 407 180	10 407 185	67	3500	20,0	1100
CY-V-A 3000/145	10 407 190	10 407 195	145	3500	20,0	1100
CY-B-V-A 3000 ¹⁾	10 407 160	10 407 170	-	3500	20,0	1100
CY-V-A 4000/67	10 407 260	10 407 285	67	5100	19,0	1100
CY-V-A 4000/145	10 407 290	10 407 295	145	5100	19,0	1100
CY-B-V-A 4000 ²⁾	10 407 260	10 407 270	-	5100	19,0	1100
CY-V-A 8000/67	10 407 380	10 407 385	67	8500	19,0	1100
CY-V-A 8000/145	10 407 390	10 407 395	145	8500	18,5	1100
CY-B-V-A 8000 ²⁾	10 407 360	10 407 370	-	8500	18,5	1100

¹⁾ Bulk bag version must be supplemented with equipment with pressureless outlet