



Closed cleaners VU, SVU, SHL, SVS belong into a family of centrifugal cleaners working with a free whirl and removal of sorted impurities into the collecting box. They are used especially for **separation of specifically heavy impurities from paper stock**. These cleaners differ from each other in design, size and throughput. They are reliable while separating coarse (SVS), medium-size (SHL) and also very fine impurities (VU, SVU). These cleaners run mostly independently.

Design

According to the collecting box type we can differentiate the way of discharging, i.e. manual (MK) or (M) or automatic (A). Moreover, cleaners modular system provides a simple conversion of particular types. Through an exchange of the collecting box by a reject nozzle it is possible to change closed type to opened one.

Material

Materials used for VU, SVU cleaners are based on standard combination "stainless steel-ceramics-plastics". SHL cleaners are manufactured in material combination "stainless steel-plastics", SVS cleaners are fully stainless. Material used for the collecting box, modification M and MK, is grey cast iron, for modification A stainless steel AISI 321 or AISI 316 Ti.

- low energy consumption
- low pressure loss
- simple operation
- long service life of all parts
- resistance against fouling
- high cleaning efficiency, operating flexibility and reliability
- unified unit-built design

Advantages

HIGH-DENSITY CLEANER SVS

This cleaner can be used for primary separation of biggest heavy impurities in heavy impure waste paper processing lines. It removes quite reliably heavy impurities even from very coarsely pulped thick stocks whereby it accepts also significant variations of input parameters. At the same time the cleaner protects the next equipment against damage caused by larger impurities. As a main advantage we can hereby name very low energy demand presented by a very low pressure loss and a possibility of operation up to 4,5 % density of the cleaned stock. Separating hole diameter is 100 mm.

HIGH-DENSITY CLEANER SHL

This cleaner allows efficient and economic separation of heavy impurities both from thick and thin paper stocks. It is intended particularly for inlet sections of refining lines, where is working as a protection of all following equipment against penetration of hard abrasive impurities. A main advantage is its high reliability in service, low energy consumption and its possibility to be operated up to 4,5 % density of cleaned stock. Separating hole diameter is 55 mm.

LOW-DENSITY CLEANER VU, SVU

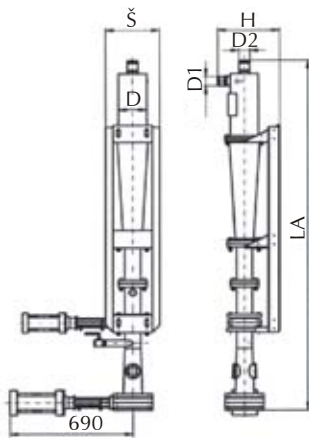
This cleaner is used for highly efficient fine separation of specifically heavy, sticky and conic impurities from thin stocks, particularly in multistage station of bigger cleaners as an end part for final sorting of rejects in pulp mills, in waste paper processing lines and in PM approach part. Moreover, it reliably removes sand and contingent larger impurities. Cleaner provides a possibility to be operated up to 2 % density of cleaned stock. Separating hole diameter is 30 mm. The collecting box MK enables to choose both periodical and continuous reject discharging.

Machine design and work safety are in compliance with EU standards.

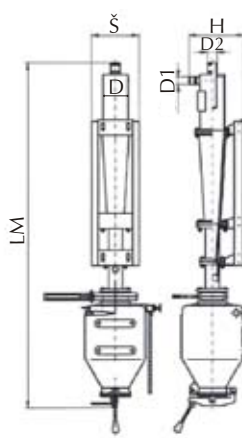
TECHNICAL PARAMETERS

Type	Optimal throughput (l/min)	Rinse water (l/min)	Consistency (max. %)	Loss in pressure (kPa)	Max inlet pressure (kPa)	Connection sizes (mm)								Weight (kg)
						LA	LM	Š	H	D	D1	D2*	D3**)	
SVS 20	1400 - 1800	10 - 60	4,5	50 - 80	300	2 720	3 080	885	460	210	DN80	Ø 100	100	260/210
SVS 25	1800 - 2200	10 - 60	4,5	60 - 90	300	2 850	3 100	885	485	260	DN100	DN125	100	280/235
SHL 20	1300 - 1700	5 - 15	4,5	70 - 140	350	-	2 690	885	460	210	DN80	DN100	55	175/165
SHL 25	1700 - 2000	5 - 15	4,5	60 - 130	350	-	2 960	885	485	260	DN100	DN125	55	205/180
VU 15-12(10)	330 - 420	5 - 8	1,2	120 - 190	350	2 100	2 250	885	350	150	50	63	30	175/130
VU 15-21(20)	520 - 640	8 - 12	1,2	110 - 180	350	2 110	2 260	885	350	150	63	80	30	175/130
SVU 20	1400 - 1800	10 - 15	2,0	80 - 150	350	-	2 930	885	460	210	DN80	DN80	30	220/175
SVU 25	1800 - 2200	10 - 15	2,0	80 - 150	350	2 800	3 200	885	485	260	DN100	DN100	30	230/190

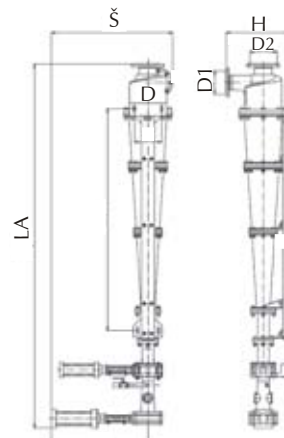
*) hose inside diameter **) diameter of separating holes



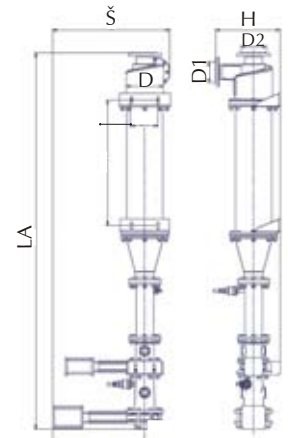
VU 15-10A



VU 15-10M



SHL 25A, SHL 20A, SVU20A, SVU 25A

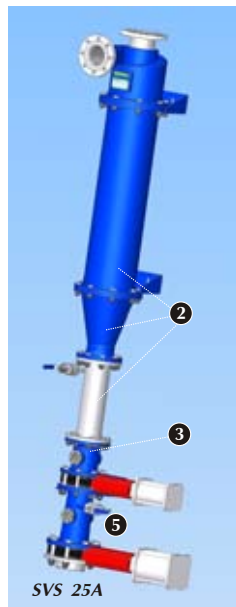


SVS 25A

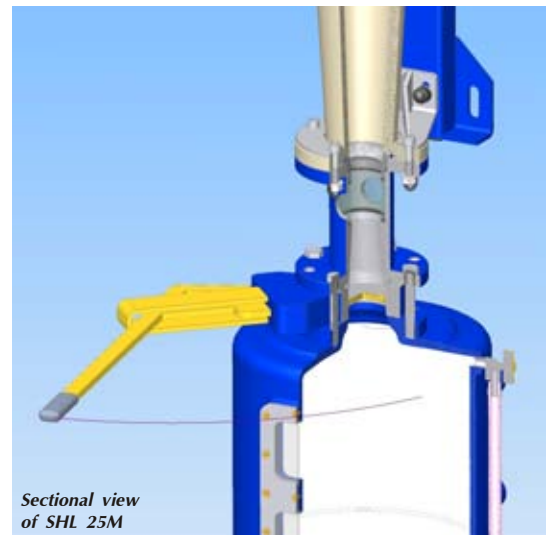


SVU 20M

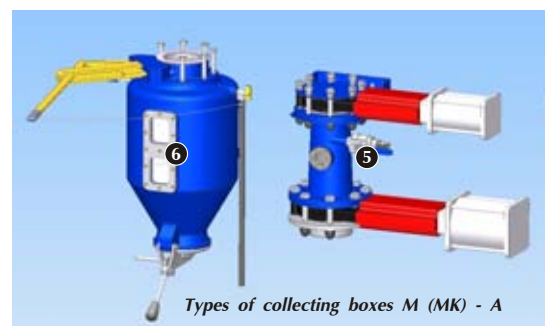
Input body of SVS 25



SVS 25A



Sectional view of SHL 25M



Types of collecting boxes M (MK) - A

Main parts

- input body - head (1), working body - cone (2)
- separating body with sight glass (3)
- bearing frame for attachment of cleaners to stand (4)
- collecting box with pneumatic gate valves (automatic control) (5)
- collecting box (manual control) (6)