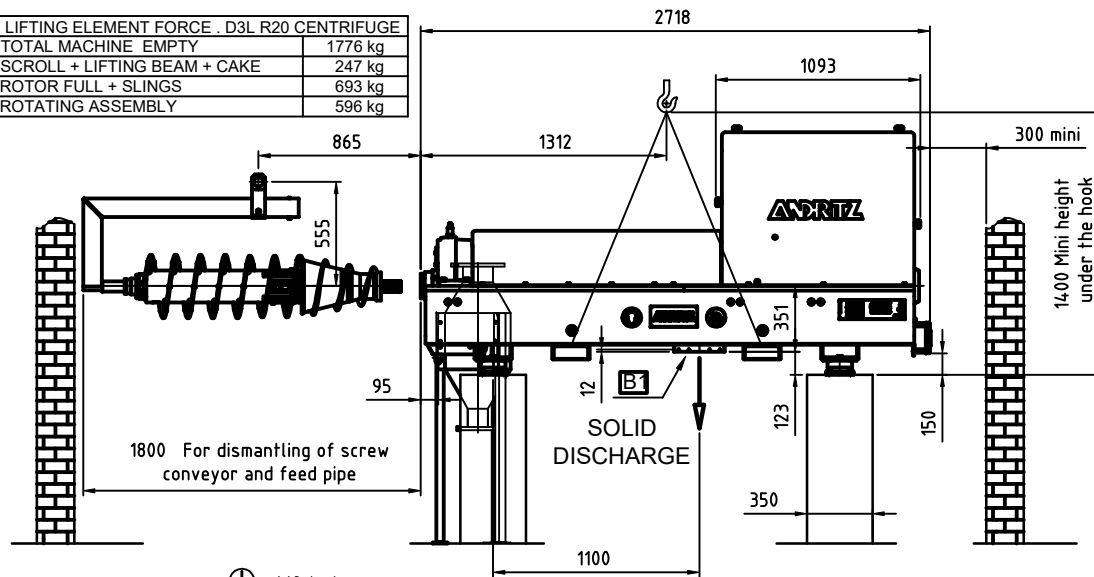
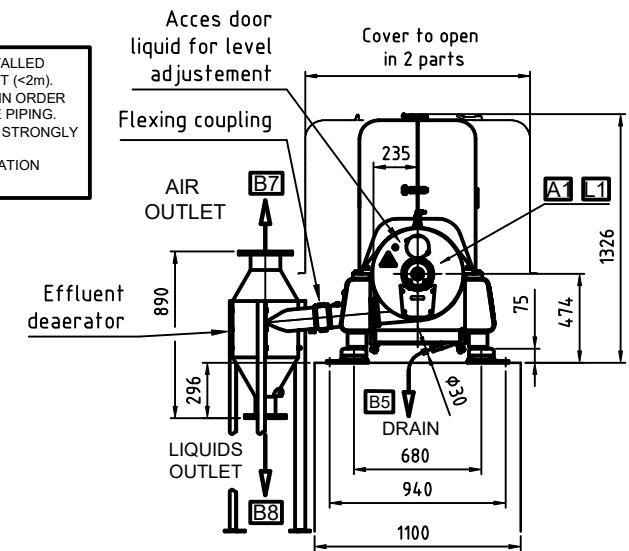


LIFTING ELEMENT FORCE - D3L R20 CENTRIFUGE	
TOTAL MACHINE EMPTY	1776 kg
SCROLL + LIFTING BEAM + CAKE	247 kg
ROTOR FULL + SLINGS	693 kg
ROTATING ASSEMBLY	596 kg

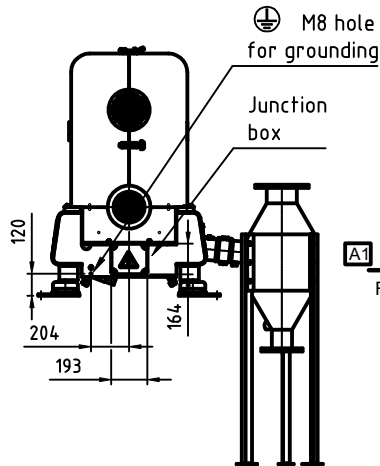


- SUFFICIENT AIR EXTRACTION SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE LIQUID OUTLET (<2m).
- THE EXTRACTION SHALL BE DONE UPWARD IN ORDER TO AVOID LEAKAGE OF STEAM VAPORS IN THE PIPING.
- A CONNECTION TO FORCED VENTILATION IS STRONGLY RECOMMENDED.
- AIR FLOW TO BE EXTRACTED DURING OPERATION OF THE CENTRIFUGE : 100 m3/h.

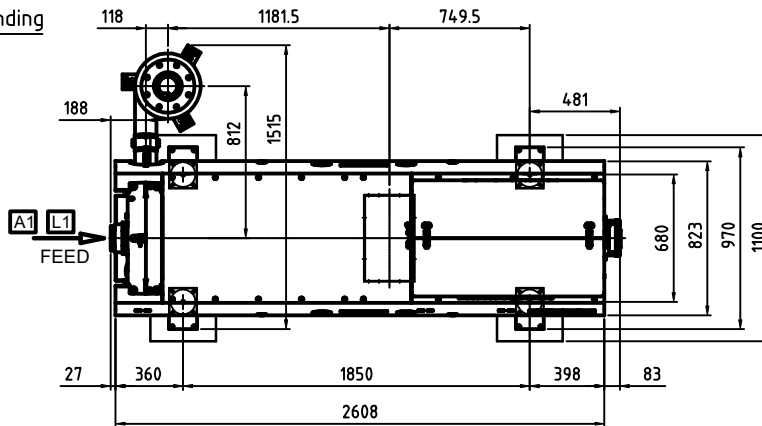
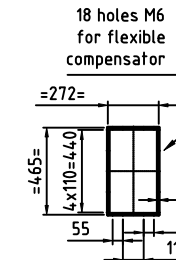


Ref.	DESCRIPTION	DIMENSION
A1	PRODUCT INLET	FLANGE DN40 PN10
B1	SOLIDS OUTLET + LIQUID PRODUCT AT START + WASH WATER AT STOP	SEE DETAIL ON DRAWING
B5	DRAIN	Ø30x27,3
B7	AIR OUTLET	FLANGE DN150 PN10
B8	LIQUIDS OUTLET	FLANGE DN100 PN10
L1	BOWL AND SCROLL WASHING	FLANGE DN40 PN10

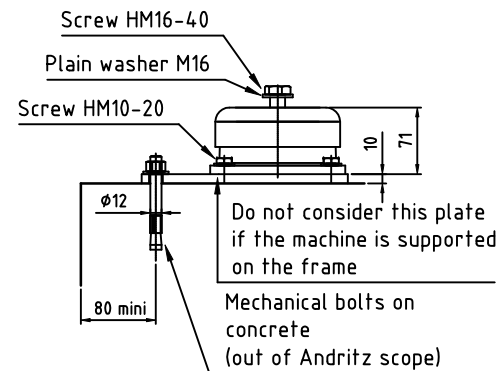
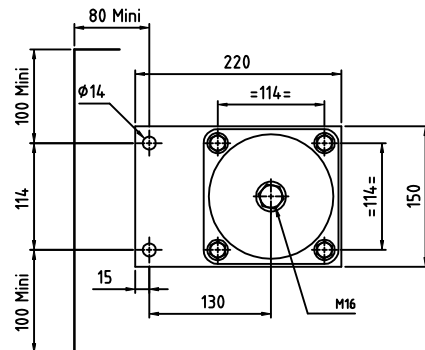
Note: The connections to the machine for inlets and outlets must be flexible.



FLANGE DETAIL B1  
SOLID DISCHARGE



DETAIL ASSEMBLY FOR  
VIBRATION ISOLATORS



The policy of ANDRITZ is one of continuous improvement and we reserve the right to alter details over products at any time without prior notice.

Theoretical total load to distribute among the 4 isolators (in normal operation)						
Static load		Vertical dynamic load in N. Cycling force equivalent to unbalance perpendicular to the rotor axis and applied on the center of gravity				
Weight of empty machine	17760 N	In normal operation	Machine speed	Equi. Freq.	Before isolator	After isolator
x 1.2 (with product)	21312 N		4000 rpm	66,7 Hz	10420 N	208 N
			3700 rpm	61,7 Hz	9640 N	193 N
			3500 rpm	58,3 Hz	9120 N	182 N
		At isolators resonance	400 rpm	6,7 Hz	304 N	2131 N
Static and dynamic load to consider for calculation of the foundation (to distribute among the 4 isolators)						
Vertical		STATIC =	17760 N	x 1.2 =	21312 N	
		DYNAMIC* =	21312 N	x 10% =	2131,2 N	
Horizontal		DYNAMIC =	21312 N	x 10% =	2131,2 N	

(\*) while shut down of machine and in case of abnormal or accidental unbalance