

Piping for gravity conveying

Process

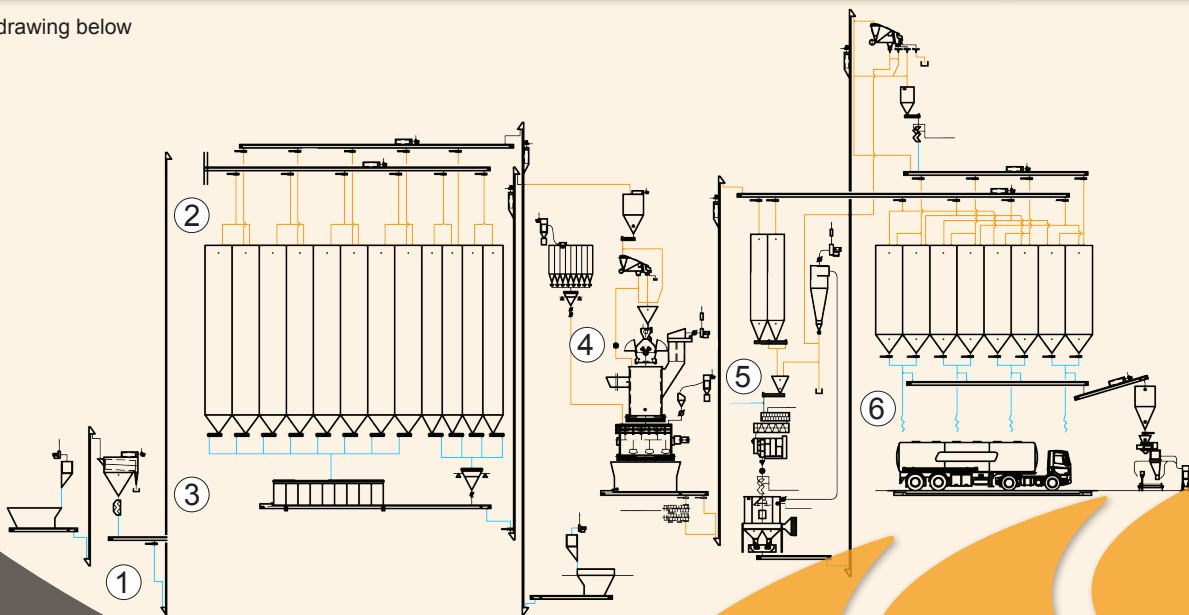
Piping is applied in many areas in a feed mill. Main application is gravity conveying of the solid bulk goods from intake (such as grains), up to finished product (such as meal), pellets and crumbs.

Van Aarsen supplies standard round and square welded piping and modular round piping with clamping rings. Both systems provide excellent flowing properties. The choice for one of these systems within the process is determined by the specific requirements.





* Application	Requirement	Advise
1+2 Intake section	Wear resistance / heavy duty	Standard square or round piping Modular round piping
3 Raw material dosing section	Wear resistance / heavy duty	Standard square or round piping
4 Grinding – mixing line 5 Pelleting line 6 Finished product section	Flexibility in lay out and easy adjustments in case of changes Cost efficient assembly (low skill)	Modular round piping
Short connections	Cost efficient, easy to exchange with standard piping	Standard square or round piping
Straight connections	Cost efficient, easy to exchange with standard piping pieces	Standard square or round piping
Complex connections	Flexibility and optimal flowing characteristics	Modular round piping

* Refer to drawing below



Orange: modular round piping
Blue: standard square or round piping

Benefits and features

	Standard square or round piping	Modular round piping
		
Cost efficiency	<ul style="list-style-type: none"> ▶ Easy manufacturing in standard lengths, custom made on site. ▶ Cost efficient connections to rectangular outlets. 	<ul style="list-style-type: none"> ▶ Complete piping will be manufactured according to predetermined specifications, resulting in short assembly times.
Flexibility	<ul style="list-style-type: none"> ▶ Determining of lengths tuned to the specific situation on site during installation. ▶ Easy to adapt with local available piping parts. 	<ul style="list-style-type: none"> ▶ Quick-assembly by connections with clamping-rings. ▶ Easy adjustments or extensions in case of changes in the process and lay out. ▶ Easy sample taking via integrated inspection doors
Hygienic production	<ul style="list-style-type: none"> ▶ Limited contamination in case of straight connections. 	<ul style="list-style-type: none"> ▶ Limited contamination in case of complex connections. ▶ Internal coating improves the conductivity.
Low maintenance costs	<ul style="list-style-type: none"> ▶ Extra thick wear resistant steel for optimal durability – applied for raw material intake. ▶ In stainless steel or hotdip galvanised. 	<ul style="list-style-type: none"> ▶ Easy replacement of elements.
Design and durability	<ul style="list-style-type: none"> ▶ Standard executed in externally spray painted steel. ▶ Steel thickness up to 5 mm for optimal durability. ▶ Optional available in stainless steel (for pre-mix, pelleting line, cooling) or outside galvanized (for outside application). ▶ 	<ul style="list-style-type: none"> ▶ Executed in internally and externally powder coated steel, in RAL7032. ▶ Optional available in stainless steel (for pre-mix, pelleting line, cooling) or hotdip galvanized (for outside application). ▶ Steel thickness up to 3 mm. ▶ Requires an additional connection piece with rectangular outlets. ▶ Multiple accessories complement this pipework system, including inspection doors, visualization ducts, product-control and air-control valves & diverters. ▶ Optional wear resistance lining