High Viscosity Drum Unloading System



The HVS Drum Unloading System is designed to transfer high viscosity food, cosmetic, pharmaceutical and industrial ingredients out of straight and conical shaped drums.

Working principle

While the pump is operating, the actuators move the piston down, pushing the product into the pump chambers, for easier transfer into the discharge line.

Typical applications

Sector	Example o	f app	lication

tamato paste, fruit and vegetable pulp, Food & Beverage

mayonnaise, seed oils

Cosmetics & Pharma thickening agents, glycerine, paraffin, oils

Industrial greases and resins



EN 10204



Certificates may vary depending on material execution of particular product.

Fast facts

Max. capacity: 460 I/min* **Volume per stroke:** 2 300 ml

Max discharge pressure: 8 bar (higher pressure on request)

^{*} Product viscosity affects pump capacity, max capacity is given for water.



Benefits



Remove up to 99% of the product



Eliminate product airborne contamination by creating a sealed region between the piston and the drum.



Improve worker ergonomics by eliminating manual handling.



Advanced cleanability thanks to seal-less design diaphragm pump.



The inflatable seal system fits multiple drum shapes and sizes.



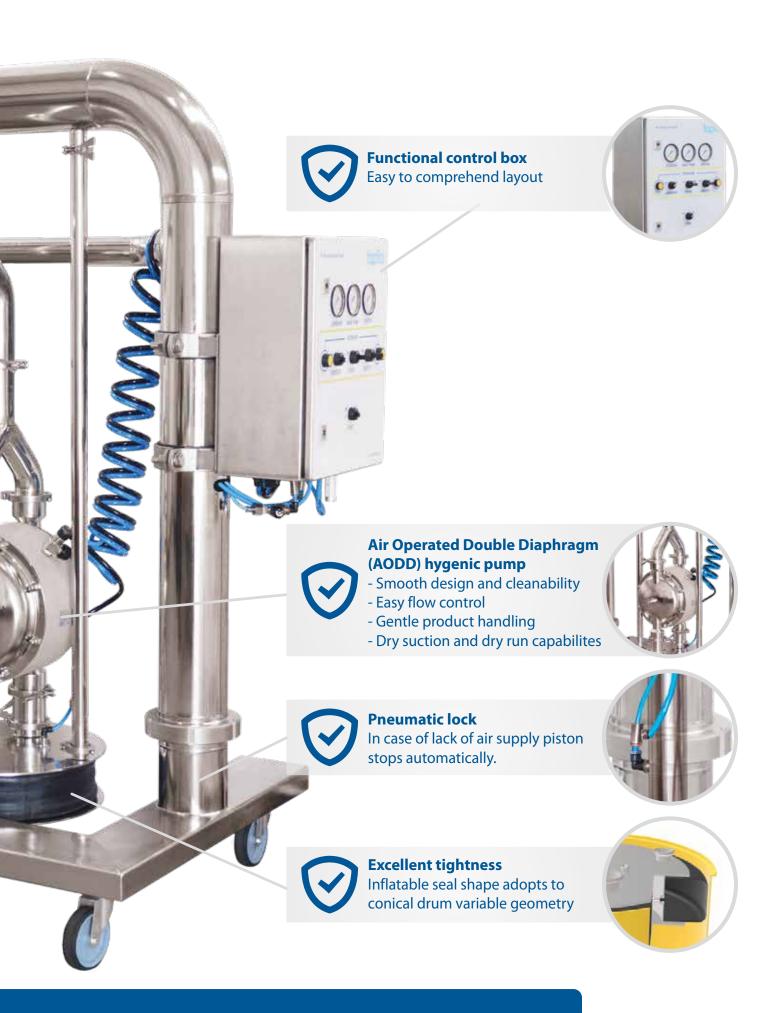
Multiple piston, control and frame options makes the HVS configurable enough to fulfill most application requirements.



achieved with lower High capacity viscosity products.

Features & Benefits





Technical data

Materials, data and limits

Max capacity (I/min) / (US gpm)	460 / 122
Volume per stroke (ml) / (cu in)	2300 / 140
Max discharge pressure (bar) / (psi)	8/116
Max air pressure (bar) / (psi)	8/116
Max size of solids (ø in mm) / (in)	15 / 0.59
Max temperature with EPDM (°C) / (°F)	90 / 194
Max temperature with NBR (°C) / (°F)	70 / 158
Max temperature with PTFE (°C) / (°F)	110 / 230
Weight (kg) / (lb)	160 / 353

Pump body (W)	AISI 316L; electro polished sandblasted		
Wetted metal surfaces roughness	Ra < 1.6 (standard) Ra < 0.8 Ra < 0.5		
Sealings (W)	PTFE EPDM Silicon		
Centre block (NW)	PP		
Diaphragms (W)	PTFE EPDM white EPDM NBR* white NBR		
Valve balls (W)	PTFE AISI 316 Ceramic* EPDM* NBR* PU*		
Air valve (NW)	Body: Brass (std.) AISI 316L PET O-rings: NBR (std.) EPDM FKM		
Fasteners (NW)	A4-80		
Standard conection	Tri-clamp DN65 ISO 2037		

^{*} not intended for food contact N – wetted; NW – not wetted



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HVS	H I	425	S	T	T -	7PV
I. HVS = Tapflo HVS unit	VI. Material of diaphragms:		VII. Material of valve balls:		VIII. Special executions:	
II. Basic executions:	B = PTFE TFM 1705b		blank = flap valve version		1 = Optional in/outlet	
H = Hygienic	E = EPDM N = NBR		B = PTFE TFM 1705b E = EPDM		3 = Optional connection type 5 = Other special execution	
l = Industrial						
III. Basic options:	T = PTFE		K = Ceramic		6 = Optional material of centre body	
I = Inflatable seal	W = White EPDM Z = PTFE with white EPDM backing		N = NBR S = AISI 316 Stainless Steel P = PU		7 = Optional material of air valve 8 = Optional material of pos. 18 seals 9 = Optional material of housing stud bolts	
L = Lip seal						
IV. Pump type and size:						
V. Material of wetted metal parts:			T = PTFE			lve execution

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