HVS HIGH VISCOSITY SYSTEM

drum unloading machine

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The HVS Drum unloading machine is designed for handling high viscous liquids in industrial as well as hygienic applications. The system is emptying substances transported in barrels, such as: tomato paste, coconut oil, tahini oil, resins, fruit and vegetable pulps.

The HVS Drum Unloading machine is a fully pneumatic device. The actuators move the pump up and down, while the AODD pump works due to two diaphragms connected by a diaphragm shaft. The shaft is pushed back and forth by alternate pressurising the air chambers behind the diaphragms using an automatically cycling air valve system.

It is perfectly suited for ensuring efficiency and process safety while pumping high viscosity, paste-like,

non-self-flowing media out of device drums stand in line.

Typical applications

Industry Example of application

Food & Beverage

tomato pastes, caramels, fruit and vegetable concentrates, peanut butters, mayonnaises, nougat pastes, chocolate/fudge, glycerine, ails

Cosmetics & Pharma

cosmetic and pharma vaselines, ointments, creams & lotions, semi-solid wax/paraffins, glycerins, oils, lip glosses, mascaras, facial cleansers



EN 10204



Certificates may vary depending on material execution of particular product.

Fast facts

Max. capacity: 590 l/min
Volume per stroke: 2 300 ml
Max discharge pressure: 8 bar



Features



Safe, simple and easy to use and maintain



Seal-less construction and without rotating parts



Significantly reduce processing times compared to manual emptying



Removes up to 99% of product in drum



Suitable for a variety of duties in industrial and hygienic installations



Hygienic surfaces with perfect cleanability made from polished steel



Reduce waste & associated costs

Main elements and advantages of HVS Unit



Technical data

Materials, data and limits

Max capacity (l/min) / (US gpm)	590/ 156
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)	190 / 420

	Stainless steel AISI 2161 electro polished
Wetted metal details	Stainless steel AISI 316L electro polished sandblasted
Liquid contact	Ra < 1.6 (standard),
surfaces roughness	Ra < 0.8 and 0.5 as option
Centre block (not wetted)	PP, PP conductive, aluminium
Diaphragms	PTFE, PTFE with white back, EPDM,
	white EPDM, white NBR, NBR (non FDA)
Valve balls	PTFE, AISI 316, Ceramic, SiC,
	EPDM (non FDA), NBR (non FDA)
Air valve	Brass (std.), stainless steel AISI 316L
	or PET with NBR (std.),
	EPDM or FKM O-rings
Housing stud bolt	A4-80





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