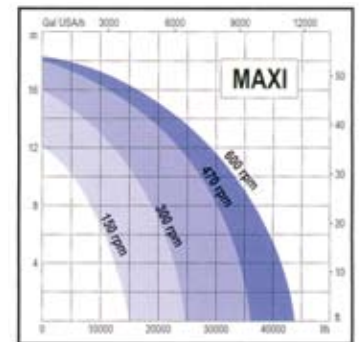
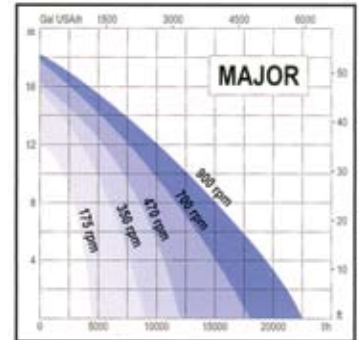


LIVERANI

FLEXIBLE IMPELLER

- Full range of sizes and flowrates from 3/4" to 3"
- 22,000 l/h maximum flow with 2", 43,000 l/h with 3"
- New Zealand designed and assembled version with 4 wheel SS tubular trolley, variable speed drive and remote control
- Various options including; special mechanical seals for handling bentonite, dry run protection electrics, automatic level control, bypass valve, SS VSD enclosure & radio frequency "wireless" remote control



CENTRIFUGAL

- High efficiency, low shear sanitary design
- Available in sizes 1" to 4"
- New Zealand designed and assembled version with 4 wheel trolley
- Available as a direct on line version or with variable speed drive and remote control



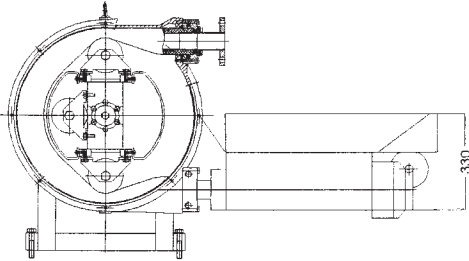
OMAC LOBE

- 1 1/2" version, ideal for bottling line feeding or smaller wineries, flow rates from 1,000 l/h to 10,000 l/h
- 2" version with flow rate up to 20,000 l/h & 30,000 l/hr for 3"
- New Zealand designed and assembled version with 4 wheel trolley, variable speed drive and remote control
- Options include; front cover relief valve, separate bypass valve or pressure switch, automatic level control



PERISTALTIC

- Most gentle pumping action available, no contact with moving mechanical parts during pumping. Will pump whole grapes without damage
- Can be operated dry without damage
- Ideal for pumping over during fermentation, also for wine transfer & barrel work. Useful for dosing pump applications
- Available in sizes from 1/2" to 4"
- Options include; trolley, variable speed drive, remote control, removable inlet hopper with screw feed (for must)
- Automatic barrel filling version



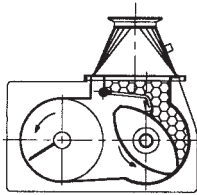
PROGRESSIVE CAVITY

- Various sizes and options available from 1" to 6"
- Must pump version with hopper and auger feed
- Wine transfer version with optional bypass valve
- New Zealand designed and assembled version with 4 wheel trolley, variable speed drive and remote control



VOLUMETRIC PUMPS

- Suitable for transfer of whole, crushed, destalked grapes and fermented marc
- Low speed elliptical rotor limits crushing of the grapes



WILDEN DIAPHRAGM

- Sizes from 3/8" to 3"
- Versatile pump from dosing to wine transfer
- Available on a 4 wheel trolley
- Available with muffler and air regulation valve



CR HELICOIDAL

- Centrifugal pump for pump over of red tanks. Sizes from 2 1/2" to 5"
- Can handle a large proportion of solids in liquid
- Optional New Zealand designed and assembled version with 4 wheel trolley, variable speed drive and remote control



SUBMERSIBLES

- Range of sizes available to suit all tank sizes
- Available with or without float
- FDA food grade-oil lubricated version available as standard

CROSS FLOW FILTER

- Fully automated, semi automated & manual polymeric hollow fibre membrane systems
- Designed to handle New Zealand wines and conditions (e.g. filtering off bentonite)
- Characteristically high flow rates at low trans-membrane pressures (0.5 to 1.1bar max) minimising product shear
- Stainless steel membrane filter housings to protect the membranes against damage from misuse and UV light
- Long run times and minimal cleaning required
- 100% membrane guarantee (conditions apply)



ROTARY DRUM VACUUM FILTER

- ASSO/NZ series available from 2m² to 40m² for lees filtration, redesigned for NZ conditions
- All sizes complete with stainless steel DE dosing tank and self priming feed pump
- Options include; residual filtration device, automatic cake washing, stainless steel spent cake conveyor, stainless steel vacuum pump, variable speed control of drum & knife



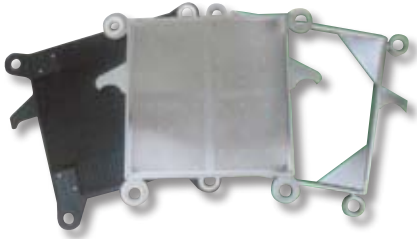
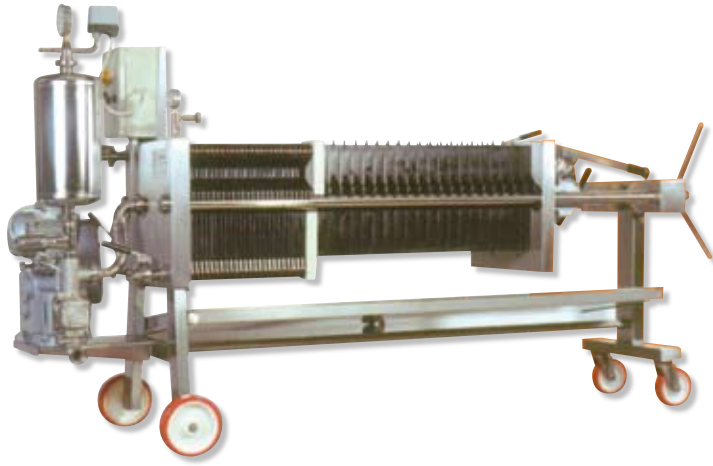
D.E. FILTERS

- Economical DCBL range with manual cake discharge available in sizes from 2 to 6m²
- MAC range with automatic centrifugal cake discharge system available in sizes from 5 to 50m²
- Vertical or horizontal versions



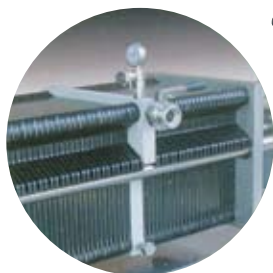
ALFA MAGIC LEES FILTER

- Lees filters in AISI 304 stainless steel available in the following plate sizes; 400mm, 500mm, 630mm, 800mm, 1,000mm & 1,200mm
- Special combination filter version in 400 x 400mm for lees and wine filtration (wine filtration option package)
- Options available include; piston feeding pump, manual or motorised hydraulic closing, dry run pump protection, double speed motor, 316 SS frame
- Dosing tank systems available from 200 to 2,000 litres



WINE PLATE FILTERS

- Wine Filters in AISI 304 stainless steel with filtering surface from 1.8m² to 65m²
- Low pressure wine filtration with 400mm x 400mm & 600mm x 600mm plastic plates, suitable for filtration through sheets
- Options available include; double filtration chamber, feeding pump, manual or motorised hydraulic closing, stainless steel filtration plates, 5 bar pressure version



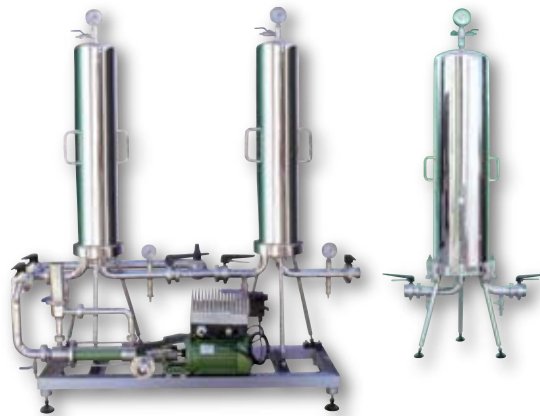
RO FILTRATION SYSTEMS

- Modular system - cost effective
- Different membranes available for specific applications
- Available in a range of sizes with 4 to 16 modules 4" x 40"



FLOATATION UNITS

- Economical 10,000 and 30,000 l/h stainless steel systems
- Optional stainless steel, insulated and heated dosing tanks complete with dosing pump for addition of floatation agents



CARTRIDGE FILTERS & LENTICULAR HOUSINGS

- Stainless steel housings available to fit a wide range of marketed filter inserts
- Available as a skid mounted unit with feed pump



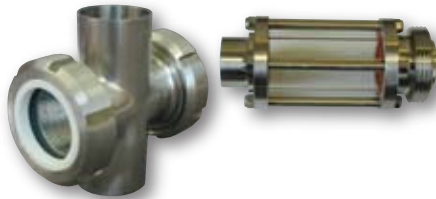
SIDE ENTRY TANK AGITATOR

- 2" and 3" sizes for mixing tanks up to 50,000 l and 100,000 l respectively
- Complete with 3 phase electric, ready to plug in
- Optional stand and variable speed control



MAG FLOW METERS

- Designed for metering juice or wine
- High degree of accuracy over a range of flow rates
- Easy to operate with totalisation & flow rate indication
- Available mounted on a 4 wheel trolley complete with electric and remote flow total reset button

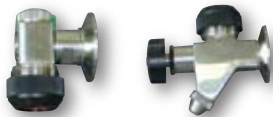


SIGHT GLASSES

- In-line cylindrical type, flat sight glasses & bulls eye assemblies
- Sizes from 1/2" to 6"
- In-line type glasses available with weld, male RJT or tri-clamp connections

LEVEL GAUGE FITTINGS

- Compression fittings to suit 22mm O.D. viewing tube, food grade silicone inserts
- Tri-clamp ferruled tank connection



HOSETAILS

- Double swaged hosetails manufactured in stainless steel
- All hose sizes available



RED FERMENTER CAP IRRIGATORS

- Available in sizes to suit tanks from 5,000 litres to 150,000 litres



BARREL FILLING GUNS

- Manual & automatic shut off executions



GAS SPARGERS

- 15µm sintered stainless steel sparger (other micron ratings on request)
- In-line version available with or without manifold
- Various manifold connection options
- Drop in version for tanks and barrels also available



PLATE HEAT EXCHANGERS

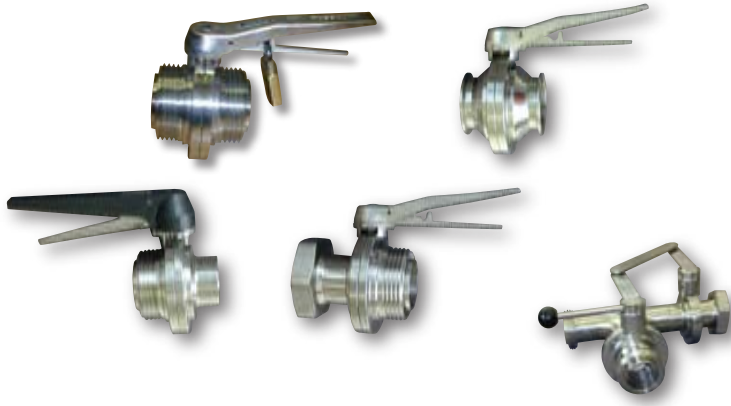
- Sanitary plate & frame heat exchangers, 316 SS plates, food grade gaskets
- Suitable for heating, cooling & pasteurising wine
- Designed to suit a range of flows & temperature profiles
- For fixed or mobile installations



TUBE IN TUBE HEAT EXCHANGERS

- Available in sizes from 1" to 6", customised for individual applications
- Smooth tube version for must
- Corrugated tube version for improved heat transfer
- Available with or without insulation
- Mobile units on wheels
- Multi-tube version for wine & juice heating / cooling





BUTTERFLY VALVES

- Sizes 1/2" to 10"
- All SS construction with food grade gaskets
- Connections in butt weld, RJT Male, RJT nut/liner, tri-clamp
- Stainless steel or ABS plastic handle options include; 2-position trigger, multi-position trigger, padlockable, & 3 or 4 position pull handle
- Pneumatically actuated versions available

3 WAY LINKED BUTTERFLY VALVES



64F

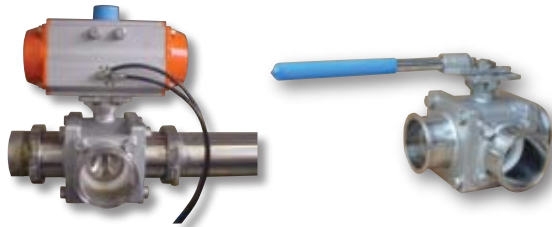
81

6" FB

SM

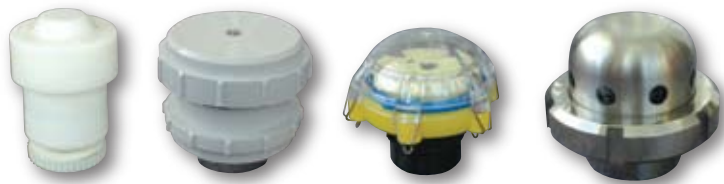
BALL VALVES

- Sizes 1/2" to 6"
- Compact style
- Minimised cavity, fully encapsulated & flushable designs
- Connections available as butt weld, male RJT or tri-clamp
- Pneumatically actuated versions available



3-WAY MUST VALVES

- Fully encapsulated (zero cavity) with Teflon seats for anti-seize operation during harvest
- Manual & actuated versions available



E27

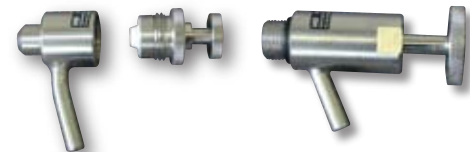
E25

NV400/NV600

645L

PRESSURE VACUUM VALVES

- Versions available for every budget from the plastic E27 to the completely stainless steel 645L type
- All models relieve pressure and also vacuum



W36

BSP

SAMPLING VALVES

- Sanitary W36 type with silicone diaphragm
- Economical BSP version



NON-RETURN VALVES

- Sizes from 1/2" to 8"
- Standard model with clamp together body design with EPDM seals (nitrile/viton/PTFE on request)
- AISI 316L stainless steel construction
- Connections available as butt weld, RJT and tri-clamp



PINCH VALVES

- Full flow, 2-way valves with rubber sleeve that shuts off with air pressure
- Sizes from 2" to 6"
- Connections available as butt weld, RJT and tri-clamp



DIAPHRAGM

- Very economical version of this sanitary valve
- 316L Stainless steel wetted parts with EPDM diaphragm
- 1", 1 1/2" and 2" sizes as standard, other sizes on request



PLUG COCKS

- Sanitary stainless steel full flow valves
- Available in 2 way and 3 way versions and a range of sizes from 1" to 4"

ROUND OUTWARD OPENING MANWAYS

- Available in a wide range of designs from dia 150mm to 1,600mm



D22

D8



D13 Certified for pressure vessels



D14



D15



D20

FLOATING COVERS WITH PNEUMATIC GASKETS

- Suitable for internal tank diameters from 350mm to 2,200mm with stainless steel hand pump and optional pressure/vacuum valve



SPRAY BALLS

- Manufactured in stainless steel, available in a range of sizes & with various spray patterns for cleaning a variety of tank sizes



ROTARY SPRAY HEADS

- Driven by the cleaning media rotary spray heads are a more effective & efficient alternative to fixed spray balls, requiring significantly lower flow rates
- 35mm "mini-flow" ideal for barrel cleaning
- 45mm "midget" suitable for cleaning tanks up to 20,000L
- 65mm "magnum" suitable for cleaning tanks up to 90,000L



CIP STRAINER

- All stainless steel construction with easily removable filter insert
- To suit a range of line sizes & flows
- Various aperture sizes available

OVAL INWARD OPENING MANWAYS

- Internal dimensions from 440 x 310mm to 520 x 420mm. Various designs and frame depths including models with the frame curved to suit the vessel diameter



A7



A1 Curved frame



A4



A16

RECTANGULAR OUTWARD OPENING MANWAYS

- Internal dimensions from 420 x 310mm to 750 x 750mm including guillotine opening models with cogwheel, pneumatic or electric opening



B7



B6



G3



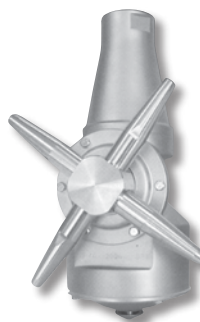
B2



B1

ROTARY JET HEADS

- Driven by the cleaning media, rotary jet heads are particularly suitable for difficult cleaning applications
- Use high impact jet sprays for the efficient cleaning of all internal surfaces of tanks & vessels
- Operate in a geared rotation on both the horizontal & vertical axis to provide an even and thorough coverage
- Suitable for vessels from 15 to 500m³





HD Process NZ Ltd

WINE EQUIPMENT GUIDE

Unit 1, 10C Maurice Road, Penrose
P O Box 2082, Shortland Street
Auckland, New Zealand

Tel: +64 9 580 2520
Fax: +64 9 580 2525
wine@hdprocess.co.nz
www.hdprocess.co.nz