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LIQUIP SWIVEL JOINT, Ø100mm WELD ENDS

DATA SHEET

PART N°: SJW100MMVZ SJW100MMTZ

- **TITLE:** Swivel joint for fabrication of loading arms.
- **PURPOSE:** Fabricated from steel with pre-prepared ends for welding directly to steel pipe or tube. More economical when manufacturing loading arms or other machinery requiring swivelling joints.
- **OPERATION:** Our swivel incorporates the well-known high load, low wear Liquip principle of ball with needle bearing combination, used in Liquip's extensive range of loading arms like the "Velvet Touch 2" loading arm. Sealing is enhanced by the purpose designed, Teflon, or viton primary face seal, and two viton o-rings which isolate the bearing pack from product leaks. If the primary seal did leak it would be contained by the o-ring, before the product could wash the grease from the bearings causing them to fail in operation. The leak is also immediately visible from a tell-tale hole (initially supplied with screw fitted to allow swivel to bed in, during which time some leaking is possible but normal). The greasing system also includes the Liquip trade-mark of a pressure relief outlet to ensure correct lubrication, by ejecting old grease and particles that can cause wear.

PERIODIC SERVICE: Regrease at maximum six-month intervals dependent on service. Contact Liquip for grease recommendation.

VARIANTS: Seal variants as per drawing overleaf.

Note:

The nature of Teflon is that it is unyielding but easily scratched, therefore the slightest damage can lead to weeps particularly where clamping force is provided by a spring which is necessarily limited in force.

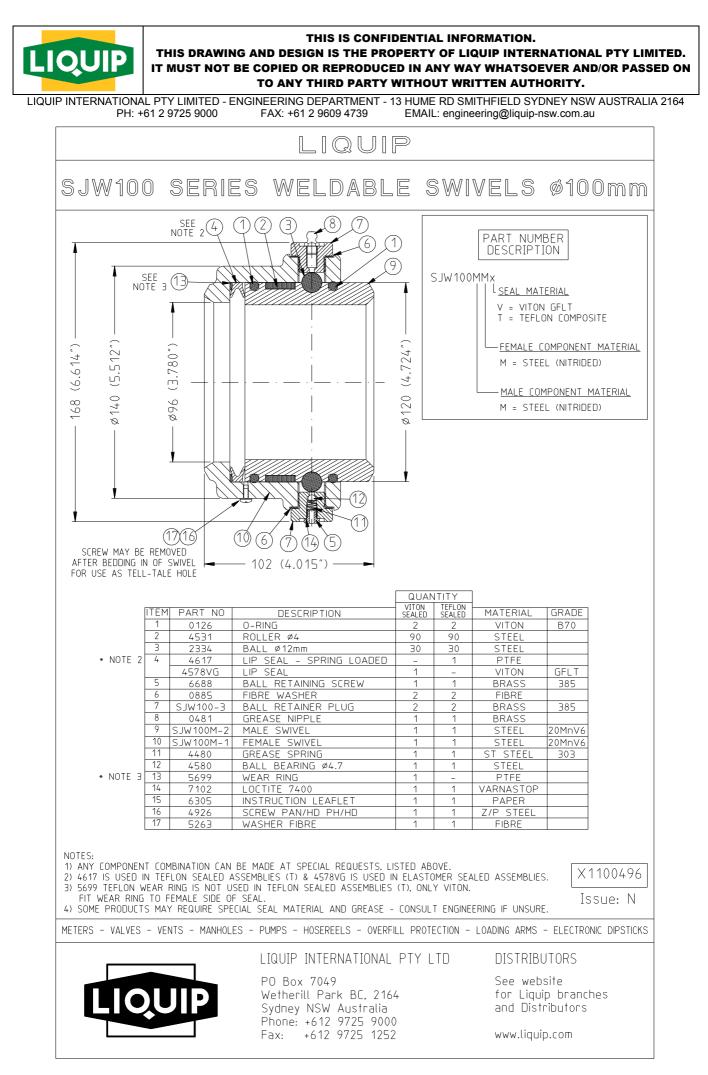
However the use of Teflon cannot be avoided because of its outstanding chemical resistance.

Liquip guarantee the sealing of all new products and test all production prior to dispatch.

Following installation of the equipment by the Purchaser it is essential that the valve be kept perfectly clean, any test liquids be perfectly clean and no tools be allowed to touch the Teflon seals. It is not uncommon for valves to exhibit small weeps once in service with commercialquality liquids.

TECHNICAL DATA:	Working pressure 1,100 kPa, test 1,650 kPa. 100mm diameter bore throughout. Weight 5.5kg. Strip swivel prior to welding. Instructions available for v	welding to pipes.
MOUNTING:	If vertical, mount with female half above male half for water and dirt run-off.	
MATERIALS:	Steel bodies with hardened running faces. Bearing quality balls and needles. Viton seals as standard.	60°-70° INCLUSIVE Angle
WELD INSTRUCTIONS:	 Preheat to 100°C. Root run LW1 wire 2.4mm GTAW Cap run Ferrocraft 61 3.2 MMAW 	EEST Amm GAP

Overall dimensions shown on the dwg overleaf.



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