THIS IS CONFIDENTIAL INFORMATION.



THIS DRAWING AND DESIGN IS THE PROPERTY OF LIQUIP INTERNATIONAL PTY LIMITED. IT MUST NOT BE COPIED OR REPRODUCED IN ANY WAY WHATSOEVER AND/OR PASSED ON TO ANY THIRD PARTY WITHOUT WRITTEN AUTHORITY.

LIQUIP INTERNATIONAL PTY LIMITED - ENGINEERING DEPARTMENT - 13 HUME RD SMITHFIELD SYDNEY NSW AUSTRALIA 2164
PH: +61 2 9725 9000 FAX: +61 2 9609 4739 EMAIL: engineering@liquip-nsw.com.au

LIQUIP COUPLING SWIVEL FOR LOADING ARM, 100MM (4")

DATA SHEET

TITLE: 90° swivel with manoeuvring bar for use on coupler-end of bottom-loading arm.

OPERATION: A single-plane swivel allowing 360° movement in the horizontal plane.

FEATURES: The swivel bolts on the bottom of the loading arm drop hose with the coupler (and spool-piece if

required) on the outlet flange. The swivel provides necessary movement and the bar with

handle gives the operator necessary leverage to manoeuvre into position.

DISMANTLE: Remove retainer plug and rotate the swivel with the hole pointing downwards until all ball-

bearings have dropped out. The male of the swivel can then be removed complete with the

needle bearings and seals.

ADJUSTMENT: None.

Grease at three-monthly intervals with recommended grease.

See Installation and Maintenance Manual for full details.

MOUNTING: Flanges are 100mm (4") TTMA pattern.

TECHNICAL DATA:

All aluminium construction (heat treated).

Ball and needle rolling elements for optimum axial and radial load bearing with minimum

friction.

Grease nipple one side with relief valve mounted opposite for efficient removal of old grease

and debris.

Dual o-rings for product seal and dust seal respectively.

Viton B70 grade o-rings (* Teflon or other special seals available on request).

Brass ball retainer.

Handle can be ball-type or D-handle, welded-on for maximum strength and rigidity.

Working pressure: 1,000 kPa (145 PSI)
 Test pressure: 1,500 kPa (218 PSI).

• Weight: 6.0 kg (13lb)

Operating temperature: -20° to +80°C (-4° to +176°F) for EPDM & Viton B70 grade

-40° to +60°C (-40° to +140°F) for Viton GFLT grade

* 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 commercial-quality liquids.

ASSOCIATED EQUIPMENT:

Straight spool piece 200mm (8") long VSS-4. 15° angled spool piece 200mm (8") long VSA-4. LBV400(L) Butterfly Valve to suit 4" TTMA flange

API bottom loading coupler API700

Overall dimensions shown on the drawing overleaf.

PART No: VNC-A4

THIS IS CONFIDENTIAL INFORMATION.



THIS DRAWING AND DESIGN IS THE PROPERTY OF LIQUIP INTERNATIONAL PTY LIMITED. IT MUST NOT BE COPIED OR REPRODUCED IN ANY WAY WHATSOEVER AND/OR PASSED ON TO ANY THIRD PARTY WITHOUT WRITTEN AUTHORITY.

LIQUIP INTERNATIONAL PTY LIMITED - ENGINEERING DEPARTMENT - 13 HUME RD SMITHFIELD SYDNEY NSW AUSTRALIA 2164
PH: +61 2 9725 9000 FAX: +61 2 9609 4739 EMAIL: engineering@liquip-nsw.com.au

