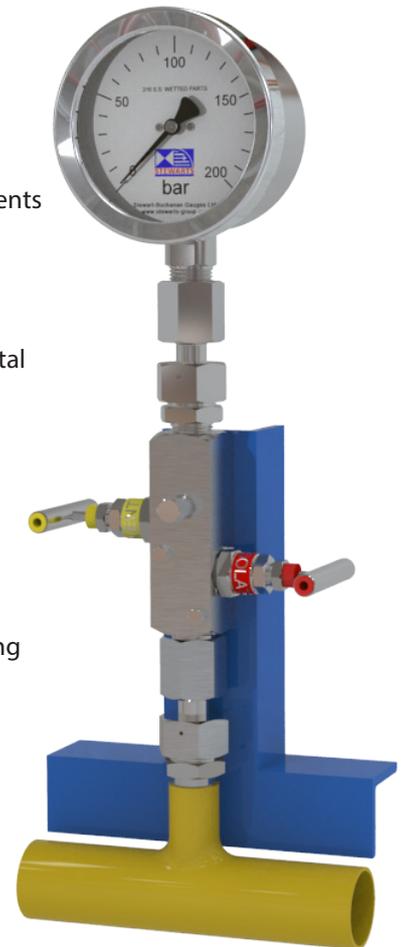


**STEWARTS - SWIVEMAS® CLOSE COUPLE SYSTEM;** helping power stations, process plants and the oil and gas industry to reduce leak paths in pressurised systems, thereby reducing potential fugitive emissions in accordance with the EU's IPPC Directive 2008/1/EC.

Stewarts unique **SWIVEMAS®** joint has been developed for the close coupling of our full range of valves, pressure gauges and accessories. Available in two versions, Mark-1 and Mark-2; the Mark-2 incorporates a secondary "backup" seal which further contributes to reducing potential fugitive emissions while providing additional safety should the primary sealing joint be compromised. Furthermore, whilst considering the installation and actual connection of peripheral equipment, both models give the added advantage of allowing orientation through a full 360°, i.e. the joint is made without rotating either of the cone faces. The floating drive nut on the Instrument/Adapter socket gives the designer and installer the ability to position at any angle before transmitting the torque an axial drive force through the collar and thus creating the metal-metal seal in the cone faces. Although the primary intent of the **SWIVEMAS®** coupling system is for the free orientation of instruments, the Stewarts **SWIVEMAS®** adapters can be used in many other instances, such as, for the connecting of differential instruments and in the making of high integrity threaded pipe joints.

- Crevice free, pressure tight, metal to metal seal without the use of tape; allowing instruments to be locked in any 360° orientation.
- Fixed collar; transmits axial compression in the cone face.
- Secondary O-ring seal with anti-extrusion ring - **SWIVEMAS®** Mk 2.
- Pressure joint can be made, broken and then remade with full seal integrity retained.
- Reduces the number of joints (potential leak paths) thereby helping to meet environmental concerns by preventing and / or lowering fugitive emissions.
- Suitable for high pressure/temperature applications.
- MWP – 700bar (10,000psi) – higher pressures available on request.
- Hydrostatically tested to 1.5 x MWP in accordance with EN 12266.
- Trace code on body with material certificates for wetted parts available on request.
- Available in a variety of stainless steel and exotic materials; e.g. 316/316L, MONEL®, HASTELLOY®, INCONEL®.
- Can be supplied to NACE MR-01-75/ISO 15156 latest edition.
- Weep hole to give warning of incorrect mating/loss of seal in cone faces whilst maintaining mechanical integrity.

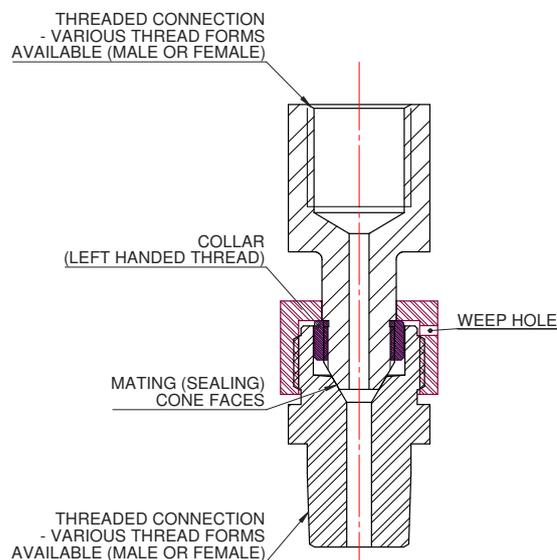
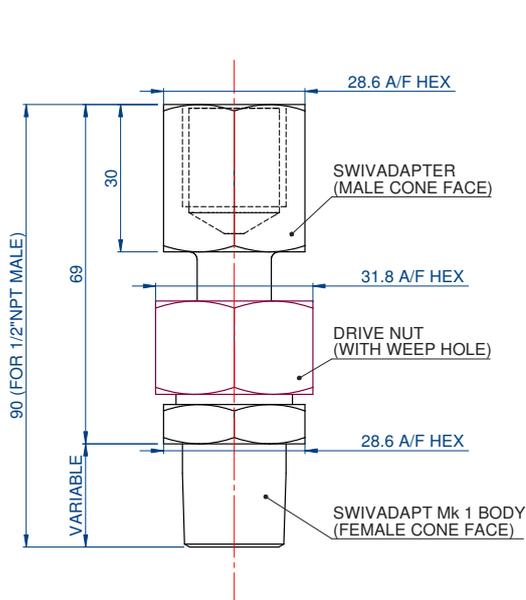


## The SWIVADAPT from STEWARTS is available in both Mark 1 and Mark 2 versions.

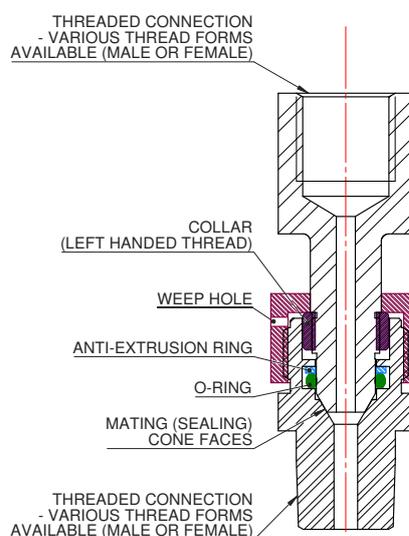
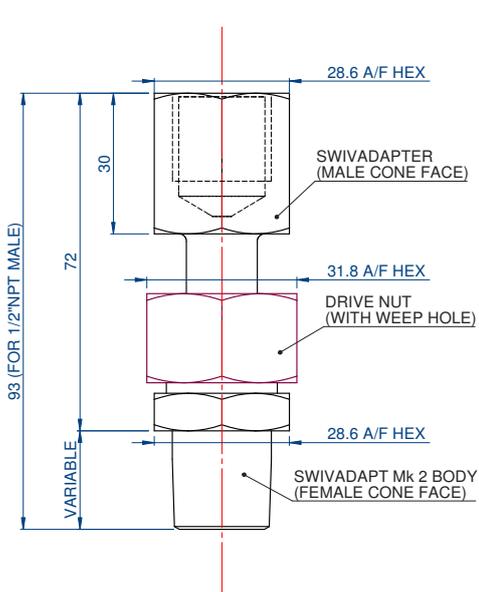
Used as a retrofit accessory or in new installations, the swivadapt can be utilised to orientate instruments where the correct line of site is important and/or required by standards. Due to the adapter and body parts being able to be mated without rotating (only rotation in the drive nut is necessary), the swivadapt can be used in various areas and applications where this is desirable, e.g. in mounting differential instruments and connecting pipe runs to manifold and junction blocks. With different sizes, forms of combinations of inlet/outlet threads available the swivadapt is the ideal solution for making reliable connections between equipment, threaded pipework and manifolds.

Weight of both versions with 1/2" NPT M/F connections:- approx. 0.36kg.

### SWIVADAPT MARK-1



### SWIVADAPT MARK-2

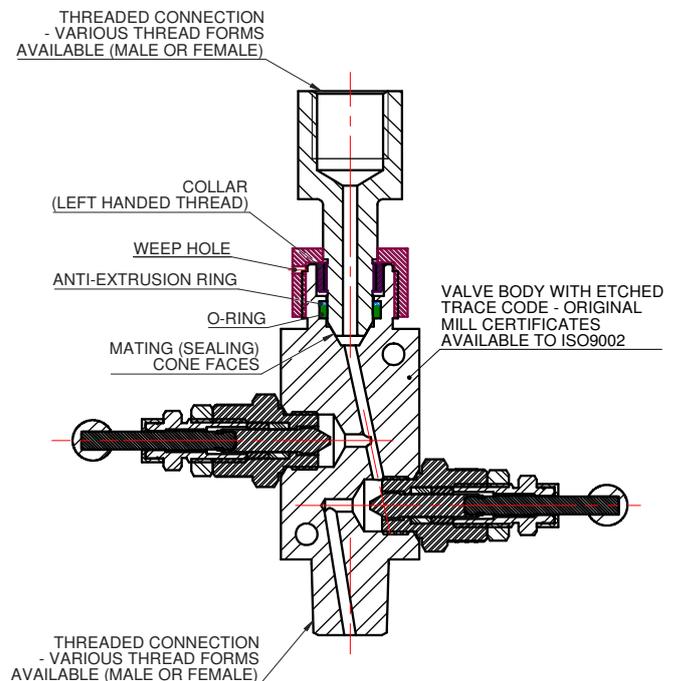
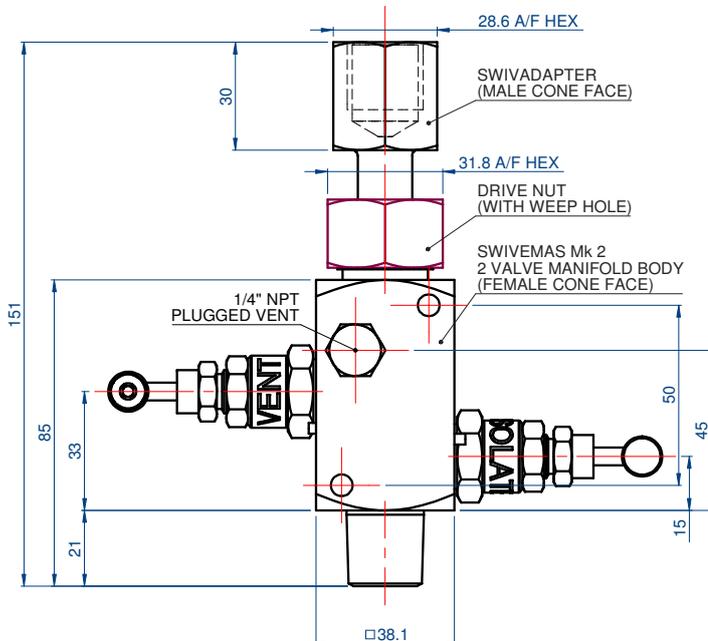
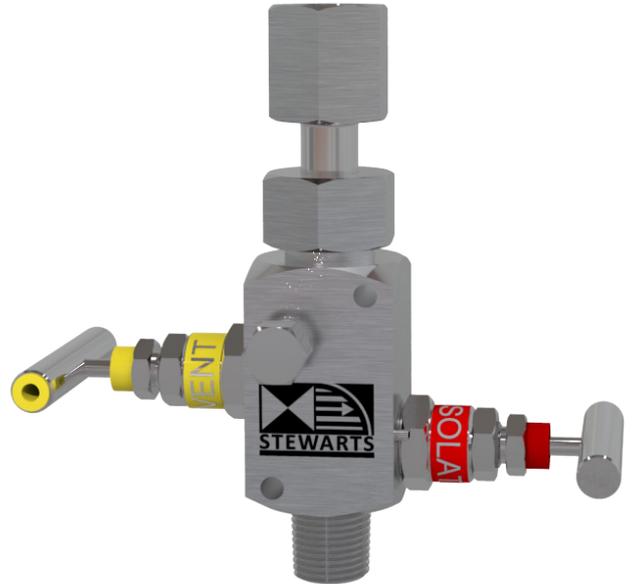


## MODEL L2 – BLOCK AND BLEED VALVE MK 2 - SWIVEMAS® CLOSE COUPLE SYSTEM

As with the full standard range of STEWARTS 2 valve manifolds, reliability, improved safety performance and cost reduction is obtained with the Model L2 SWIVEMAS®, while also giving the designer/installer the ability to orientate the system equipment and peripherals correctly, and make adjustment safely and quickly where necessary. With a large range of thread forms and sizes available at the inlet and outlet, the L2 SWIVEMAS® will be compatible with any other manufacturers' equipment utilising recognised standard connections.

The model L2 is our principal leading integral SWIVEMAS® valve manifold design, incorporating all the features of the STEWARTS valve head as standard with a majority of the optional extras available on request. The integral SWIVEMAS® is available in various other of our 1, 2, 3 and 5 valve manifold models, flanged or hub connection;

Contact our sales team for options and further details.



## INTEGRAL SWIVEMAS® GAUGE AND VALVE MANIFOLD ASSEMBLY MK 2 SWIVEMAS® CLOSE COUPLE SYSTEM

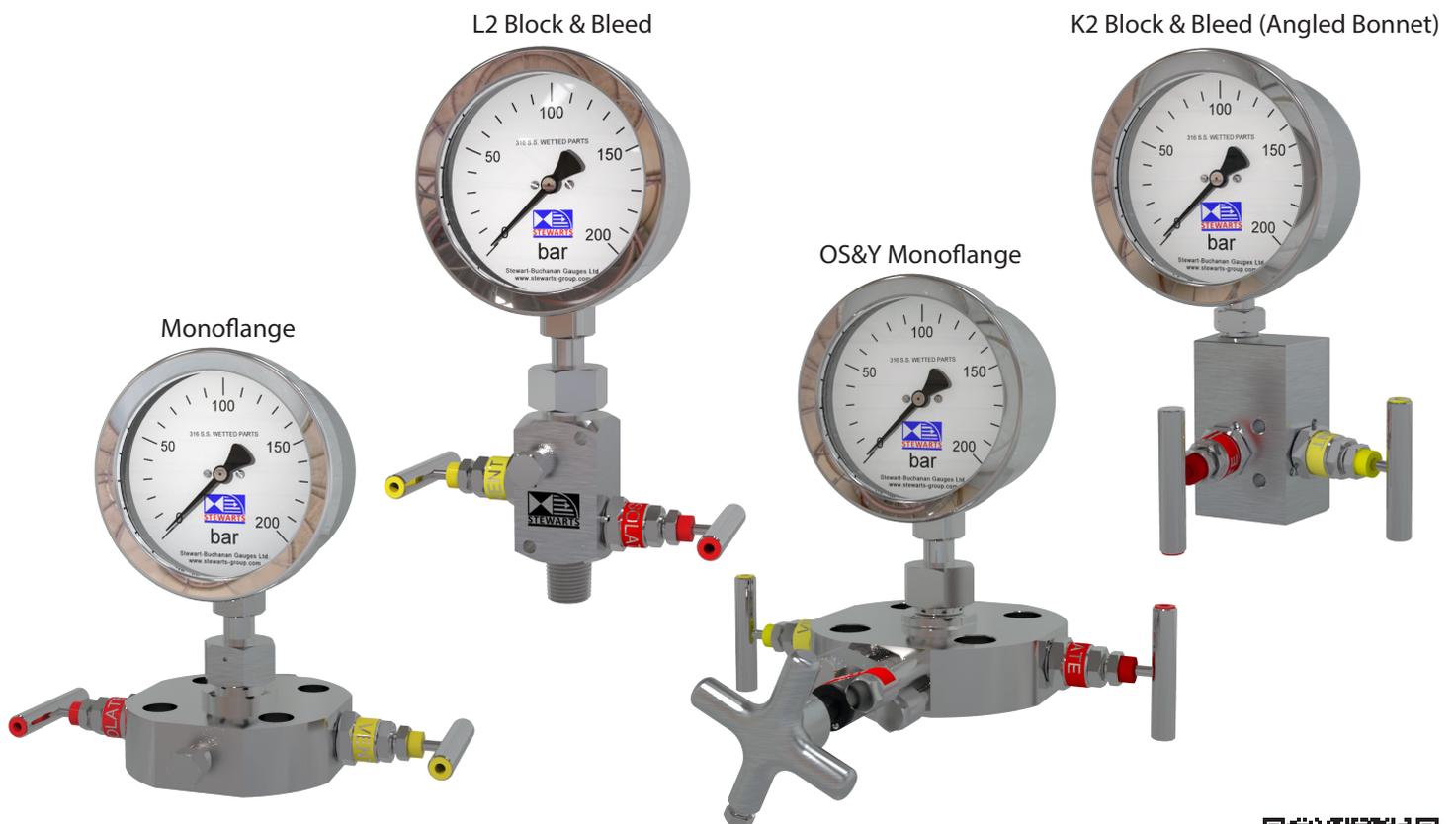
For ultimate reliability and safety, STEWARTS have developed a range of integral SWIVEMAS® gauge and valve manifold assemblies. The standard range is available with a choice of the 600 series bottom connect or 1100 series bottom connect gauges, assembled onto and tested with the following valve manifolds;

- L2 (block and bleed),
- K2 (angled bonnet block and bleed),
- MONOFLANGE  
(flanged block and bleed with ½" NPT female Auxiliary connection)
- OS&Y MONOFLANGE  
(flanged double block and bleed with the additional safety of outside screw and yoke in the primary isolate valve)

As with the full standard range of STEWARTS 2 and 3 valve manifolds, reliability, improved safety performance and cost reduction is achieved, while also giving the designer/installer the ability to orientate the system equipment and peripherals correctly, and make adjustment safely and quickly where necessary. With a large range of thread forms and sizes available at the inlet (including flanged connection), the integral SWIVEMAS® gauge and valve assemblies are the ideal solution for a range of applications and system types. The model L2, our principal leading integral SWIVEMAS® valve manifold, assembled with integral gauge, incorporates all the features of the STEWARTS valve head as standard, as does the full range.

The majority of the optional extras as detailed in the STEWARTS Valve and Manifold catalogue are also available on request. The integral SWIVEMAS® gauge and valve assembly may be available in a custom special 1, 2, 3 or 5 valve manifold to suit the exact specification of any system design;

*Contact our sales team for options and to discuss further your requirements.*



### STEWART-BUCHANAN GAUGES LTD

Sales Office & Manufacturing Facility - 7 Garrel Road, Burnside Industrial Estate, Kilsyth, Glasgow G65 9JX, SCOTLAND  
Tel: +44 (0)1236 821533 | Fax: +44 (0)1236 824090 | E-mail: sales@stewarts-group.com | Web: stewarts-group.com

DATA SHEET REF: SWIVEMAS®-REV01-14



## SWIVEMAS® CLOSE COUPLE SYSTEM,

### Assembly Instruction:-

- Where an adapter is used (i.e. not integral to STEWARTS supplied gauge) unscrew drive nut completely and remove adapter from body/valve manifold
- Connect adapter piece to instrument socket and tighten to recommended torque setting
- If collar is not welded, ensure that it is screwed tight against stem shoulder
- Re-make connection between mating cone faces of adapter and body/valve manifold
- Screw drive nut hand tight to complete assembly of adapter/integral **SWIVEMAS®** stem to body/valve manifold
- Orientate instrument/equipment into desired position and fully tighten drive nut to 40Nm (30 lb.ft)

