# MODEL - SWIVADAPT® Mark-1 & 2

## STEWARTS – SWIVADAPT®

**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 SWIVADAPT® joints have 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°. 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 SWIV-ADAPT® coupling system is for the free orientation of instruments, the Stewarts SWIVADAPT® connectors can be used in other instances, such as, for the connecting of differential instruments and in the making of high integrity threaded pipe joints into peripheral equipment where the reduced bore is acceptable.

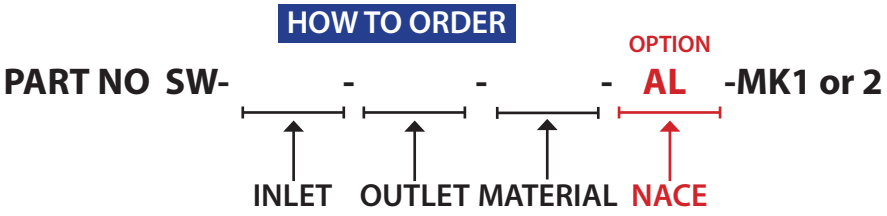
**Features**

- Crevice free, pressure tight, metal to metal seal without the use of tape; allowing instruments to be locked in any 360° orientation.
- Collar; transmits axial compression in the cone face. (Fixed collar on MK2 only)
- Secondary O-ring seal with anti-extrusion ring (Mk 2 only).
- 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).
- Hydrostatically tested to 1.5 x MWP in accordance with EN 12266.
- Trace code on body with material certificates for wetted parts available .
- 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.
- Infinite valve/gauge/accessory combinations to give significant weight and space savings.

| Inlet & Outlet |
|---|
| M = Male F = Female Thread |
| 03M or F = ¼" NPT |
| 04M or F = G¼B or G¼ (BSPP) |
| 05M or F = ⅜" NPT |
| 06M or F = G⅜B or G⅜ (BSPP) |
| 07M or F = ½" NPT |
| 08M or F = G½B or G½ (BSPP) |
| 09M or F = ¾ NPT |
| 10M or F = G¾" B or G¾ (BSPP) |
| 11M or F = 1"NPT |
| 12M or F = G1 B or G1(BSPP) |
| 13M or F = R¼ or Rc¼ (BSPT) |
| 14M or F = R⅜ or Rc⅜ (BSPT) |
| 15M or F = R½ or Rc½ (BSPT) |
| 16M or F = R¾ or Rc¾ (BSPT) |
| 17M or F = R1 or Rc1 (BSPT) |
| Other sizes available on request |
| Key<br>GxB = Parallel Male Class-B ISO228-1<br>G = Parallel Female ISO228-1<br>R = Taper Male BS21<br>Rc = Taper Female BS21<br>NPT = Taper ANSI/ASME B1.20.1 |

| Material | | |
|---|---|---|
| AI | = | 316L Stainless Steel (UNS S31600 / S31603) |
| MO | = | MONEL® 400 (UNS N04400) |
| HA | = | HASTELLOY® C-276 ® (UNS N10276) |
| IL | = | INCONEL® 625 (UNS N06625) |
| IN | = | INCOLOY® 825 (UNS N08825) |
| TI | = | TITANIUM Gr.2 (UNS R50400) |
| DU | = | DUPLEX (UNS S31803) |
| SD | = | SUPER DUPLEX (UNS S32760) |
| HC | = | HASTELLOY® C-22 (UNS N06022) |
| SA | = | SUPER AUSTENITIC ST.ST 6%Mo (UNS S31254) |
| *Note: Other materials available on request.* | | |

## HOW TO ORDER





**STEWART-BUCHANAN GAUGES LTD**

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DATA SHEET REF: SWIVADAPT®-REV02-17

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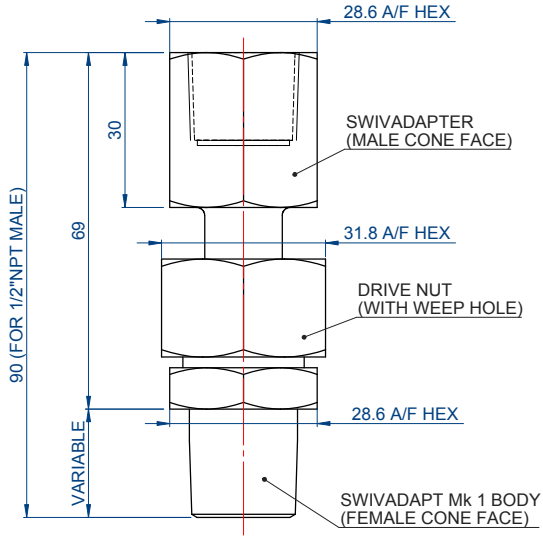
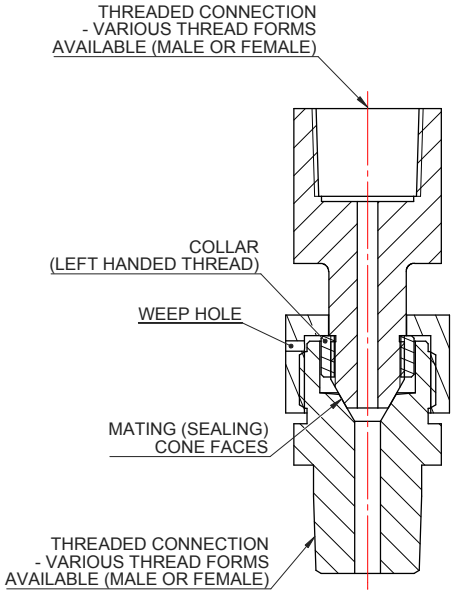
## SWIVADAPT® ADAPTERS

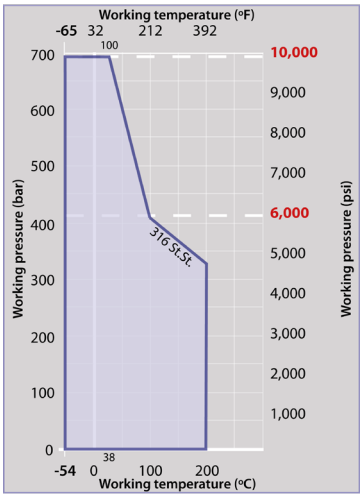
The SWIVADAPT® Adapters from STEWARTS are available in both Mark 1 and Mark 2 versions. Used as a retrofit accessory or in new installations, the adapters can be utilised to orientate instruments where the correct line of site is important and/or required by standards. As the adapter parts can be mated without rotating (only rotation in the drive nut is necessary to tighten), 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, Combinations of inlet /outlet thread forms available the SWIVADAPT® adapters are the ideal solution for making reliable connections between equipment threaded pipework and manifolds.

***Weight of both versions with ½" NPT M/F connections:- approx. 0.36kg.***

### SWIVADAPT® MARK-1

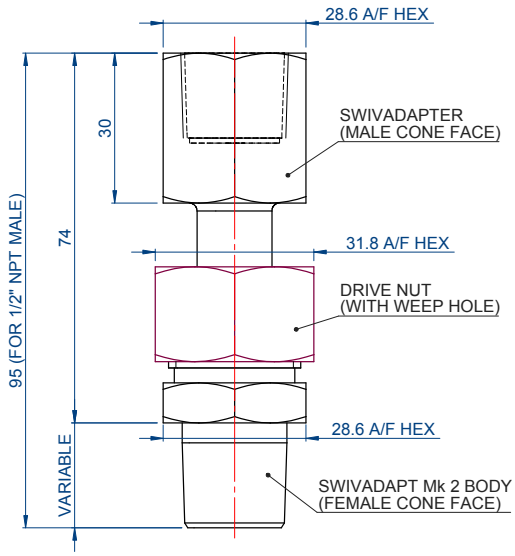


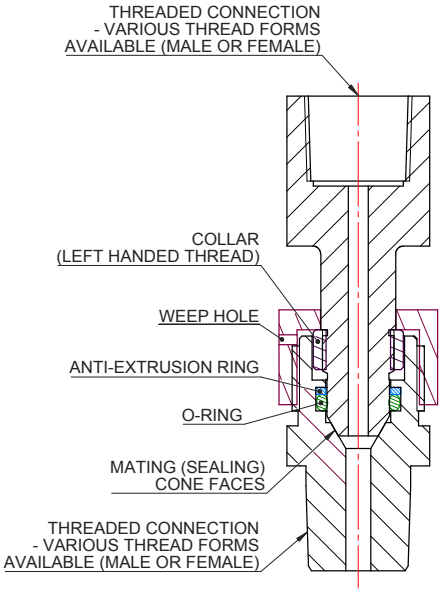




Pressure - Temperature Rating MK-1 SWIVADAPT®

### SWIVADAPT® MARK-2





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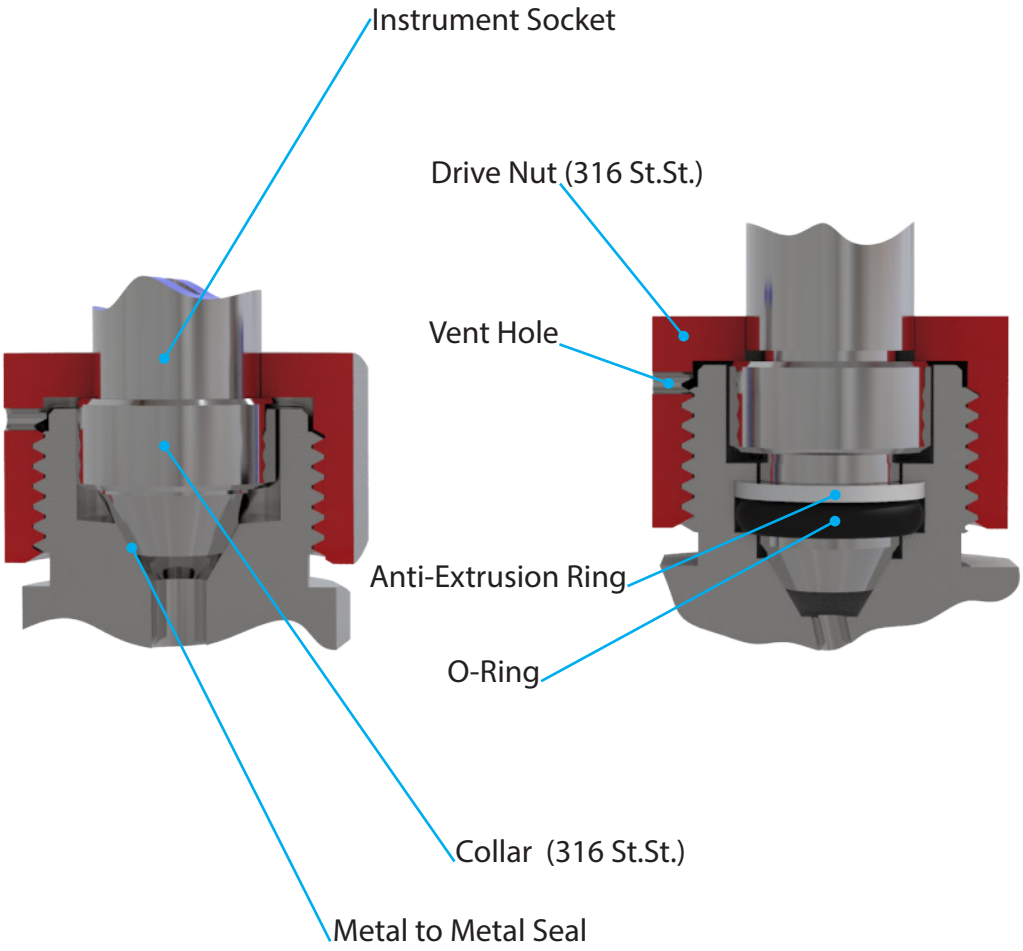
## SWIVADAPT®

## Assembly Instruction:-

- 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 SWIVADAPT stem to body/valve manifold
- Orientate instrument/equipment into desired position and fully tighten drive nut to 40Nm (30 lb.ft)

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