



# Stainless steel 90° swivel joint couplings

## SS90 Series



### INTRODUCTION

Holmbury's SS90 Series stainless steel 90° swivel joint couplings are designed for use on hydraulic lines that may be subject to torsional stress caused by rotation of hose.



### CONSTRUCTION

- AISI 316 stainless steel
- Fitted with FKM seals
- Also available in carbon steel as rotary coupling (See CR90 Series)

### FEATURES

- Reduces torsional forces
- Can also be used in applications that are required to rotate but not under pressure, such as hose reels
- Spindle is carried on a roller bearing and has a low friction shaft seal that can rotate at maximum pressure with low torque

### ACCESSORIES

- Not applicable

### SPECIFICATIONS

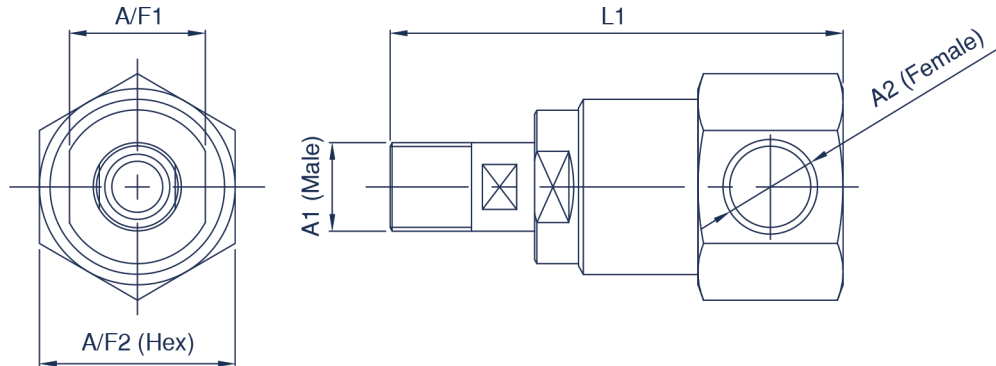
- Operating temperatures (With FKM seals): -20°C (-4°F) to 200°C (392°F)

### APPLICATIONS

- General hydraulic systems
- Machine tools
- Test equipment
- Offshore/onshore
- Mobile hydraulics

### SS90 PERFORMANCE CHARACTERISTICS

| Body Size                      | SS9006                        | SS9010 | SS9012 | SS9019 | SS9025 | SS9032 | SS9040 | SS9050 |
|--------------------------------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                | Pressure in bar - Flow in LPM |        |        |        |        |        |        |        |
|                                | Pressure in PSI - Flow in GPM |        |        |        |        |        |        |        |
| Maximum working pressure       | 350                           | 300    | 300    | 250    | 250    | 180    | 150    | 150    |
|                                | 5075                          | 4350   | 4350   | 3625   | 3625   | 2610   | 2175   | 2175   |
| Maximum flow rate              | 25                            | 45     | 80     | 120    | 150    | 200    | 250    | 300    |
|                                | 6.6                           | 11.9   | 21.1   | 31.7   | 39.6   | 52.8   | 66.0   | 79.3   |
| Maximum rotational speed (RPM) | 10                            | 10     | 10     | 10     | 10     | 10     | 10     | 10     |



## SS90 SERIES

| Body Size  | Part Number      | A/F1 |      | A1 x A2 Thread    | L1    |      | A/F2 |      |
|------------|------------------|------|------|-------------------|-------|------|------|------|
|            |                  | mm   | inch |                   | mm    | inch | mm   | inch |
| 06 (1/4)   | SS90-06-04GM-04G | 21.0 | 0.83 | 1/4 BSPP x BSPP   | 78.0  | 3.07 | 32.0 | 1.26 |
|            | SS90-06-04NM-04N | 21.0 | 0.83 | 1/4 NPTF x NPTF   | 78.0  | 3.07 | 32.0 | 1.26 |
| 10 (3/8)   | SS90-10-06GM-06G | 27.0 | 1.06 | 3/8 BSPP x BSPP   | 98.0  | 3.86 | 36.0 | 1.42 |
|            | SS90-10-06NM-06N | 27.0 | 1.06 | 3/8 NPTF x NPTF   | 98.0  | 3.86 | 36.0 | 1.42 |
| 12 (1/2)   | SS90-12-08GM-08G | 32.0 | 1.26 | 1/2 BSPP x BSPP   | 106.0 | 4.17 | 46.0 | 1.81 |
|            | SS90-12-08NM-08N | 32.0 | 1.26 | 1/2 NPTF x NPTF   | 106.0 | 4.17 | 46.0 | 1.81 |
| 19 (3/4)   | SS90-19-12GM-12G | 37.0 | 1.46 | 3/4 BSPP x BSPP   | 118.0 | 4.65 | 50.0 | 1.97 |
|            | SS90-19-12NM-12N | 37.0 | 1.46 | 3/4 NPTF x NPTF   | 118.0 | 4.65 | 50.0 | 1.97 |
| 25 (1)     | SS90-25-16GM-16G | 46.0 | 1.81 | 1 BSPP x BSPP     | 142.0 | 5.59 | 60.0 | 2.36 |
|            | SS90-25-16NM-16N | 46.0 | 1.81 | 1 NPTF x NPTF     | 142.0 | 5.59 | 60.0 | 2.36 |
| 32 (1 1/4) | SS90-32-20GM-20G | 55.0 | 2.17 | 1 1/4 BSPP x BSPP | 155.0 | 6.10 | 60.0 | 2.36 |
|            | SS90-32-20NM-20N | 55.0 | 2.17 | 1 1/4 NPTF x NPTF | 155.0 | 6.10 | 60.0 | 2.36 |
| 40 (1 1/2) | SS90-40-24GM-24G | 70.0 | 2.76 | 1 1/2 BSPP x BSPP | 170.0 | 6.69 | 75.0 | 2.95 |
|            | SS90-40-24NM-24N | 70.0 | 2.76 | 1 1/2 NPTF x NPTF | 170.0 | 6.69 | 75.0 | 2.95 |
| 50 (2)     | SS90-50-32GM-32G | 80.0 | 3.15 | 2 BSPP x BSPP     | 190.0 | 7.48 | 90.0 | 3.54 |
|            | SS90-50-32NM-32N | 80.0 | 3.15 | 2 NPTF x NPTF     | 190.0 | 7.48 | 90.0 | 3.54 |

For all other configurations or thread types please contact the sales office.