



## HIGH PRESSURE HYDRAULICS (Hose, Coupling, Pressure Gauges, Adaptors)









## HIGH PRESSURE THERMOPLASTIC HOSES



As the specialist in the manufacturing of high pressure hoses, we are poised to achieve exceptional quality in terms of service life and reliability.

Other features include: Flexibility, durability, lightweight, small volumetric expansion

### **HOSE TYPE - COBRA**



### **APPLICATIONS**

Hydraulics: Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

### **TECHNICAL INFORMATION**

Design .....Inner core of polyoxymethylene (POM), 4 multi-layers of high-tensile steelwire, outer cover of polyamide (PA) ID x OD .....5.0 x 11.2 mm Working Pressure ......1,8110 bar Burst Pressure ......4,5110 bar Bend Radius .....150 mm Weight .....0.260 kg/m Colour .....Dark blue Temperature .....-30 •c to +60 •c [-22 "F to 140 "F]

### END CONNECTIONS

1/4" BSP male 100" external cone 1/4" BSP male for USIT ring 1/4" BSP female swivel (24"/60" sealing cone)

### **HOSE TYPE - MAMBA**



### **APPLICATIONS**

Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment hydraulic jacks, hydraulic tools)

### **TECHNICAL INFORMATION**

Design .....Inner core of polyamide (PA), multilayers of high-tensile steelwire, outer cover of polyure thane (PUR) ID x OD .....5.9 x 12 mm Working Pressure ......1,200 bar Bend Radius ......80 mm Weight .....0.237 kg/m Colour .....Red

Temperature .....-30 •c to +60 •c [-22 "F to 140 "F]

### END CONNECTIONS

| 1/4" NPT male                                 |
|---|
| 3/8" NPT male                                 |
| 1/4" NPT male 100" external cone              |
| 1/4" NPT male for USIT ring                   |
| 1/4" NPT female swivel (24"/60" sealing cone) |
| 1/4" NPT female fitting                       |







# **HIGH PRESSURE THERMOPLASTIC HOSES**

**HOSE TYPE - ANACONDA** 



### **HOSE TYPE - VIPER**



### **APPLICATIONS**

Waterblast: Heat exchanger tube cleaning Hydraulics: Bolt tensioning

### **TECHNICAL INFORMATION**

### **END CONNECTIONS**

1/4".BSP mala 100" external cone

1/4" BSP female swivel (24"/60" sealing cone)

Type M female swivel 9/16".x 18 UNF

### **APPLICATIONS**

Hydraulics: Torque wrenching

### **TECHNICAL INFORMATION**

### **END CONNECTIONS**

1/4" NPT male3/8" NPT male1/4" NPT female







## **HIGH PRESSURE QUICK CONNECT COUPLERS**



Reliable Quick Connect Couplings are a necessity in High Pressure Hydraulics applications. SPIR STAR offers a range of Quick Connect Couplings up to 2,500 bar, which are complemented by our Ultra High Pressure Thermoplastic hoses and a complete range of adaptors and pressure gauges.

Applications include the connection of pumps to hydraulic jacks, rams, bolt tensioners, torque tools, as well as for pressure test equipment (valves, tooling and controll, etc.

### C1000 SERIES

|  |        | CONNECTION | HEX<br>SW | L  | L1 | D    | PART NO.       |
|--|--------|------------|-----------|----|----|------|----------------|
| Levelson and Le |        | G1/4"      | 24        | 59 | 12 | 27   | C1000-1202-15K |
| TECHNICAL DATA<br>Material: Hardened Zinc Plated Steel<br>Max. Working Pressure: 1000 bar<br>Min. Burst Pressure: 2600 bar<br>Nominal Flow Diameter: 2.5mm<br>Temperature Range: -30°C - +100°C<br>Flow Capacity at Pressure Drop 4.5 bar: 5.9L/min  | NIPPLE | G1/4"      | 22        | 38 | 12 | 24.5 | C1000-6202-15K |

### C1500 SERIES

|  |          | CONNECTION | HEX<br>SW | L  | L1 | D    | PART NO.       |
|--|----------|------------|-----------|----|----|------|----------------|
| The series of th | COUPLING | G1/4"      | 24        | 59 | 12 | 27   | С1500-1202-20К |
| TECHNICAL DATA<br>Material: Hardened Zinc Plated Steel<br>Max. Working Pressure: 1500 bar<br>Min. Burst Pressure: 3000 bar<br>Nominal Flow Diameter: 2.5mm<br>Temperature Range: -30°C - +100°C<br>Flow Capacity at Pressure Drop 4.5 bar: 5.2L/min  |          | G1/4"      | 22        | 38 | 12 | 24.5 | С1500-6202-20К |





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## **HIGH PRESSURE QUICK CONNECT COUPLERS**

### C2000 SERIES

|  |        | CONNECTION | HEX<br>SW | L  | L1 | D    | PART NO.       |
|--|--------|------------|-----------|----|----|------|----------------|
| HARDER REAL PROPERTY OF THE PR |        | G1/4"      | 24        | 59 | 12 | 27   | С2000-1202-30К |
| TECHNICAL DATA<br>Material: Hardened Zinc Plated Steel Max.<br>Working Pressure: 2000 bar<br>Min. Burst Pressure: 4000 bar<br>Nominal Flow Diameter: 2.5mm<br>Temperature Range: -30°C - +100°C<br>Flow Capacity at Pressure Drop 4.5 bar: 5.7L/min  | NIPPLE | G1/4"      | 22        | 38 | 12 | 24.5 | C2000-6202-30K |

### C2500 SERIES

|   |          | CONNECTION | RECOMMENDED<br>TORQUE (nm) | PART NO.        |
|---|----------|------------|----------------------------|-----------------|
|   | COUPLING | G1/4"      | 50-60                      | C2500-1202-36K  |
| TECHNICAL DATA<br>Material: Hardened Zinc Plated Steel<br>Max. Working Pressure: 2500 bar<br>Min.Burst Pressure: 5000 bar<br>Nominal Flow Diameter: 2.5mm<br>Temperature Range: -30°C- +100°C<br>Flow Capacity at Pressure Drop 4.5 bar: 5.7l/min | NIPPLE   | G1/4"      | 50-60                      | С2500-6202-136К |







## **HIGH PRESSURE QUICK CONNECT COUPLERS**

### CPW SERIES (1/4")

|  | CONNECTION | Unit | Α   | HEX<br>C | E    | F    | I    | PART NO.     |
|--|------------|------|-----|----------|------|------|------|--------------|
| Coupler  | 1/4" NPT   | mm   | 1/4 | 22       | 28   | 60.8 | 24.5 | CPW-14-F-10K |
| TECHNICAL DATA<br>Material: Zinc Plated Steel<br>Max. Working Pressure: 700 bar<br>Max. Flow Suggested: 12 lpm<br>Temperature Range: -20°C- +100°C | 1/4″ NPT   | mm   | 22  | 19       | 32.5 | 28   | 15.8 | CPW-14-M-10K |

## CPW SERIES (3/8")

|  |        | CONNECTION | Unit | А   | HEX<br>C | E  | F    | I    | PART NO.     |
|--|--------|------------|------|-----|----------|----|------|------|--------------|
| Coupler  |        | 1/4″ NPT   | mm   | 3/8 | 25       | 35 | 72.2 | 26.5 | CPW-38-F-10K |
| TECHNICAL DATA<br>Material: Zinc Plated Steel<br>Max. Working Pressure: 700 bar<br>Max. Flow Suggested: 23 lpm<br>Temperature Range: -20°C- +100°C | NIPPLE | 3/8″ NPT   | mm   | 3/8 | 32       | 40 | 35   | 19   | CPW-38-M-10K |







## **PRESSURE GAUGES**



SPIR STAR is able to offer a complete range of pressure gauges for both bottom and panel mounted configurations. All gauges are glycerin filled, with an accuracy of +/-1.5% of full scale.

SPIR STAR Pressure Gauges are available in 2.5",4 and 6" dial faces, up to 6,000 bar.

### Ø 63mm



BOTTOM CONNECTION Range of WP available: Up to 1000 bar Connections available: 1/4" BSP, 1/4" NPT, 9/16"-18 UNF Units: Bar/psi



#### PANEL MOUNTED

Range of WP available: Up to 1000 bar Connections available: 1/4" BSP, 1/4" NPT, 9/16"-18 UNF Units: Bar/psi

### Ø 100mm



BOTTOM CONNECTION Range of WP available: Up to 4000 bar Connections available: 1/2" BSP, 1/2" NPT, 9/16"-18 UNF Units: Bar/psi



#### PANEL MOUNTED

Range of WP available: Up to 4000 bar Connections available: 1/2" BSP, 1/2" NPT, 9/16"-18 UNF Units: Bar/psi

### **Ø** 150mm



BOTTOM CONNECTION Range of WP available: Up to 6000 bar Connections available: 1/2" BSP, 1/2" NPT, 9/16"-18 UNF Units: Bar/psi



#### PANEL MOUNTED

Range of WP available: Up to 6000 bar Connections available: 1/2" BSP, 1/2" NPT, 9/16"-18 UNF Units: Bar/psi





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## **ADAPTORS**



SPIRSTAR has a complete range of connections to adapt to any port. Our adaptors are made of Stainless Steel AISI 316. The working pressure ranges from 1,000 bar to 3,000 bar.

### **BSPP MALE X BSPP MALE 60° CONES**



Part No.: **Description:** Max Working Pressure: 30,000 psi

MB4-MB4 30K 1/4" BSPP Male X 1/4" **BSPP** Male



120° CONE X BSPP MALE EXTERNAL 120° CONE Part No.: Description:

**BSPP MALE EXTERNAL** 

12B4-12B4 30K 1/4" BSPP Male External Cone X 1/4" BSPP Male External Cone Max Working Pressure: 30,000 psi

### **BSPP MALE 60° CONE X NPT MALE NIPPLES**



Part No.: Description:

Part No.:

Description:

Part No.:

Part No.:

Description:

Description:

Max Working Pressure

MB4-NM4 15K 1/4" BSPP MalE X 1/4" NPT Male Max Working Pressure: 15,000 psi

MB4-NM6 15K 1/4" BSPP Male X 3/8" NPT Male 15,000 psi

### METRIC MALE X MALE HEX ADAPTORS



Part No.: **Description:** 

DKOS-M16M16 30K Metric M16 Male X M16 Male Max Working Pressure: 30,000 psi

#### HIGH PRESSURE MALE X BSPP MALE



HM4-MB4 30K 1/4" HP Male X 1/4" BSPP Male Max Working Pressure: 30,000 psi

HM6-MB4 30K 3/8" HP Male X 1/4" **BSPP** Male Max Working Pressure: 30,000 psi

### METRIC MALE X HIGH PRESSURE MALE ADAPTORS



Part No.: **Description:** 

M16-HP4 30K Metric M16 Male X 1/4" HP Male Max Working Pressure: 30,000 psi





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## **ADAPTORS**

#### **BSPP MALE EXTERNAL 120° CONE X NPT MALE**



Part No.: **Description:** 

Max Working Pressure: 15,000 psi

12B4-NM4 15K 1/4" BSPP Male External Cone X 1/4" NPT Male

#### METRIC MALE X MALE BSPP HEX ADAPTORS



Part No.: Description: Max Working Pressure:

Part No.: **Description:** Max Working Pressure: DKOS-M16MB4 30K Metric M16 Male X 1/4" **BSPP** Male 30,000 psi

DKOS-M22MB4 30K Metric M22 Male X 1/4" **BSPP** Male 30,000 psi

### **BSPP MALE EXTERNAL 120° CONE X MALE TYPE M**



Part No.: **Description:** 

Max Working Pressure: 30,000 psi

12B4-M9 30K 1/4" BSPP Male External Cone X 9/16" Type M Male



METRIC MALE X MALE **BSPP 120° EXTERNAL CONE ADAPTORS** 

> Part No.: **Description:**

DKOS-M2212B4 30K Metric M22 Male x 1/4" BSPP Male 120° Eternal Cone 30,000 psi

Part No.: **Description:** 

Max Working Pressure:

DKOS-M1612B4 30K Metric M16 Male X 1/4" BSPP Male 120" External Cone

Max Working Pressure: 30,000 psi

Part No.: **Description:** 

12B4-HM6 30K 1/4" BSPP Male External Cone X 3/8" HP Male Max Working Pressure: 30,000 psi





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#### **BSPP MALE EXTERNAL 120° CONE X HIGH PRESSURE MALE**