

# HSP Series

Test Equipment



HSP1040



HSP2000



HSP3000



HSP6000



HSP690



HSP7000

# HSP1040

## Technical data

### Hydraulic Hose Coupling Kit

#### Temperature and Pressure Test Kit

JIC 37° Hose Couplings are pivotal test kits used to obtain pressure of temperature checks during servicing or fault finding. Install JIC Hose Couplings between the female swivel nut of the flexible hose and the fixed male connection.

All probes may be connected and disconnected at full system pressure without fluid loss or ingress of dirt.

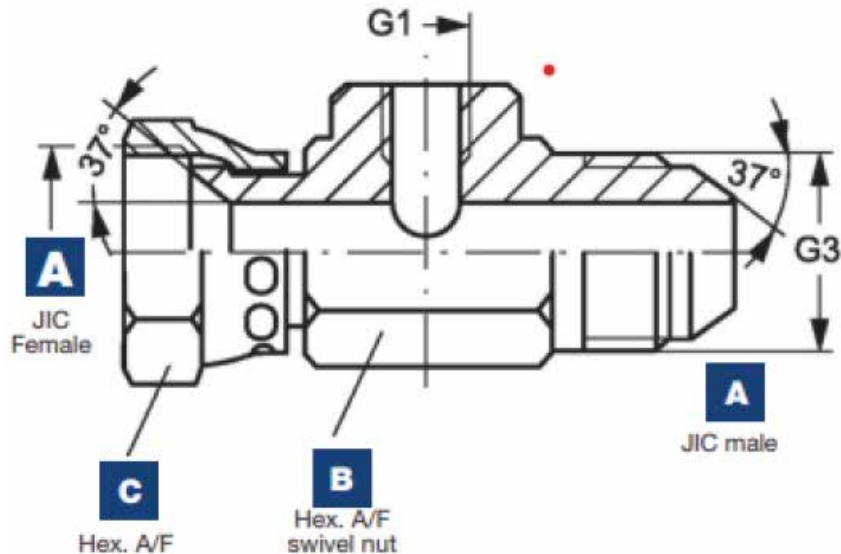
#### Available features

- Ease of Use: The male and female connections are designed to apply to all connection types
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.
- Flexibility: Can be used with direct or remote test probes

#### JIC Hydraulic Hose Series

- Fitted with a test point plug
- JIC 37° cone seat, Sizes: 1/4" to 1-1/2"
- 20°C to +200°C
- 4°F to 392°F
- Comes standard with Viton seals
- Material/Coating: Steel, Zinc/Nickel-Plated

## Dimensions & Ordering Code



Part Number	Size	A JIC 37° Thread ISO 8434-2	G1 SAE straight thread Oring Boss Port	B	C	Working Pressure
HSP1040-4MV	1/4"	7/16" -20 UNF	7/16" -20 UNF	36 mm	17 mm	6100 psi
HSP1040-6MV	3/8"	9/16" -18 UNF	7/16" -20 UNF	36 mm	19 mm	5000 psi
HSP1040-8MV	1/2"	3/4" -16 UNF	7/16" -20 UNF	36 mm	22 mm	5000 psi
HSP1040-10MV	5/8"	7/8" -14 UNF	7/16" -20 UNF	36 mm	27 mm	5000 psi
HSP1040-12MV	3/4"	1- 1/6" -12 UN	7/16" -20 UNF	41 mm	32 mm	5000 psi
HSP1040-16MV	1"	1- 5/16" -12 UN	7/16" -20 UNF	46 mm	38 mm	3600 psi
HSP1040-20MV	1- 1/4"	1- 5/8" -12 UN	7/16" -20 UNF	50 mm	50 mm	3600 psi
HSP1040-24MV	1- 1/2"	1- 7/8" -12 UN	7/16" -20 UNF	60 mm	60 mm	2400 psi

## Test Point Plugs

The HSP2000 test point plugs are designed to be complementary and interchangeable with similar equipment from other manufacturers.

Test point plugs and probes are installed in the hydraulic system to monitor conditions without the need for system shutdown. They allow connection to a pressure gauge and can be used in both mobile or industrial applications where system monitoring is required.

Available with Skydrol Hydraulic Fluid compatibility for Aerospace properties.

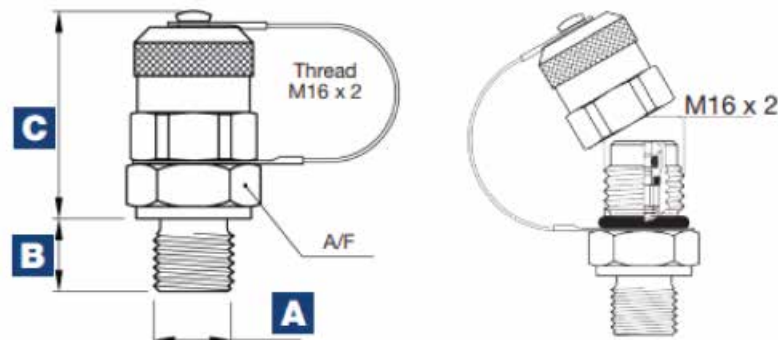
## Available features

- Flexibility: HSP2000's design allows for interchangeability with similar equipment to adapt to the customer's current equipment easily
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

## HSP SERIES

- Conforms to ISO 1517-2
- Material/Coating: Steel, Zinc/Nickel-Plated  
Stainless Steel AISI 316-DIN 14436 (optional)
- Seals: Viton (-4°F to 392°F / -20°C to 200°C) Standard  
Buna (-22°F to 248°F / -30°C to 120°C) (Optional)
- Working Pressure: 91,000 psi (630 BAR) max
- Burst Pressure: >36,000 psi
- Compatibility: Hydraulic oils and mineral based oils
- All test points are supplied with integrated anti-vibration O-ring

## Dimensions & Ordering Code



Part Number	A	B	C	A/F	Max Pressure	Weight
HSP2000-BV	1/4" BSPP	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-BV-SKYDROL	1/4" BSPP	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-DV	7/16"-20 UNF (SAE-4)	0.43"	1.38"	0.67"	9100 psi	0.14 lbs
HSP2000-DV-SKYDROL	7/16"-20 UNF (SAE-4)	0.43"	1.38"	0.67"	9100 psi	0.14 lbs
HSP2000-EV	9/16-18 UNF (SAE-6)	0.47"	1.38"	0.75"	9100 psi	0.16 lbs
HSP2000-HV 1/4" NPTF	1/4" NPTF	0.55"	1.30"	0.67"	9100 psi	0.15 lbs
HSP2000-HVSS	1/4" NPTF	0.55"	1.30"	0.67"	9100 psi	0.15 lbs
HSP2000-KV	1/8" NPTF	0.37"	1.30"	0.67"	5800 psi	0.13 lbs

# HSP3000

## Technical data

### Pressure Gauge Connection

The HSP3000 are used to connect the gauge to the hose probe assemblies (HSP6000). These adaptors are designed to be complementary to and interchangeable with similar equipment from other manufacturers using ISO 15171-2 standards.

Adaptors may be bulkhead mounted in a control console or test panel, or hand held for use in servicing and fault finding to obtain pressure checks when required.

Test Point Plugs (HSP2000) installed in the hydraulic system allow connection and disconnection at full system pressure without loss of oil or ingress of dirt.

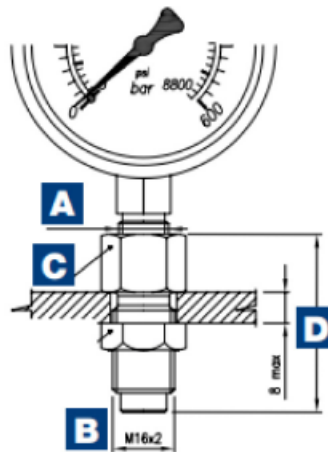
### Available features

- Ease of Use: The visual gauges allow the liquid level to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applicaitons.

### HSP 3000 Series

- Conforms to ISO 15171-2 standards
- Max Working pressure: 9100 psi (630 BAR)
- Material/Coating: Steel, Zinc/Nickel Plated
- To suit 1/4" or 1/2" NPTF
- Designed for use with HSP6000, HSP2000, and MPG series pressure gauge

## Dimensions & Ordering Code



Part Number	A Thread	B Thread	C (A/F)	D	Max Panel Thickness
HSP3000-2NV	1/4" NPTF	M16 x 2	19 mm	51 mm / 2" 58 mm	8mm / 0.31"
HSP3000-4NV	1/2" NPTF	M16 x 2	27 mm	/ 2.28"	8mm / 0.31"

### Hose/Probe Testing Assembly

#### Hose Testing Kit

These Hose/Probe assemblies are designed to be complementary to and interchangeable with similar equipment from other manufacturers using ISO 15171-2 standards.

The Hose/Probe forms the link between the ISO 15171-2 hydraulic system Test Point Plugs and the Pressure Gauge/Adaptor assemblies, the whole arrangement being used to obtain random pressure checks during servicing and fault finding.

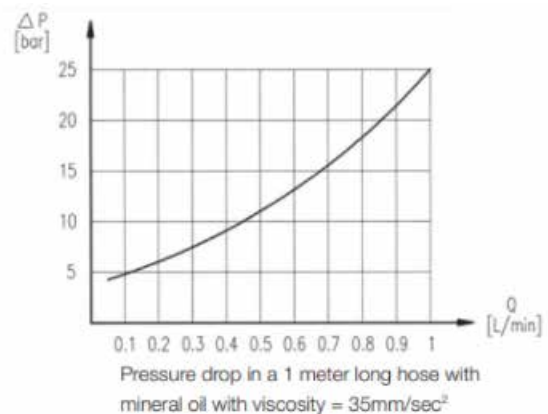
Probes may be connected and disconnected at full system pressure without fluid loss or ingress of dirt.

#### Available features

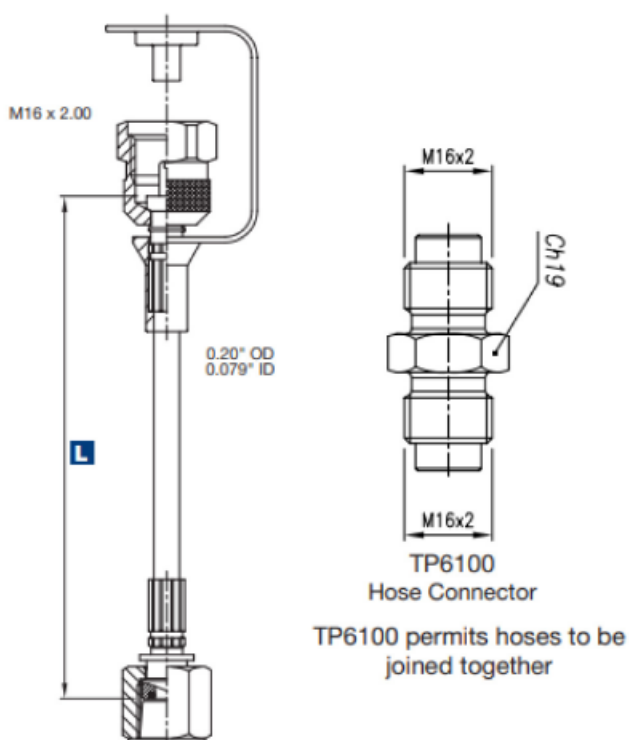
- Ease of Use: The visual gauges allow the liquid level to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple sizes and distances meet the needs for all customers and applications.

#### HSP 6000 SERIES

- Working Pressure: 91000 PSI (630 BAR)
- Working Temperature: -20°C to 100°C  
-4°F to 212°F
- Temperature / 100% Working Pressure: -20°C to 50°C  
-4°F to 122°F
- Hose Material & Cover: Polyamide
- Material/Coating: Steel, Zinc/Nickel-Plated
- Nominal Bore (DN) (mm) DN2
- Inside Diameter: 2mm +/- 1mm
- Outside Diameter: 5mm +/- 1mm
- Weight per meter: 18g



## Dimensions & Ordering Code



Part Number	L Length
HSP6000-12	12" / 30.5 cm
HSP6000-24	24" / 61.0 cm
HSP6000-36	36" / 91.4 cm
HSP6000-48	48" / 122 cm
HSP6000-60	60" / 152 cm
HSP6000-72	72" / 183 cm
HSP6100	Hose Connector

# HSP690

## Technical data

### Fluid Sampling Kit

The equipment comprises a screw-on probe connected by a flexible hose to an adjustable flow control valve which allows steady state fluid samples to be extracted from the working system without having to disrupt your progress.

When used in conjunction with Test Point Plugs (HSP2000), the equipment facilitates the removal of fluid samples from selected points throughout a system without danger of extraneous contamination, even with the system at full working pressure and temperature.

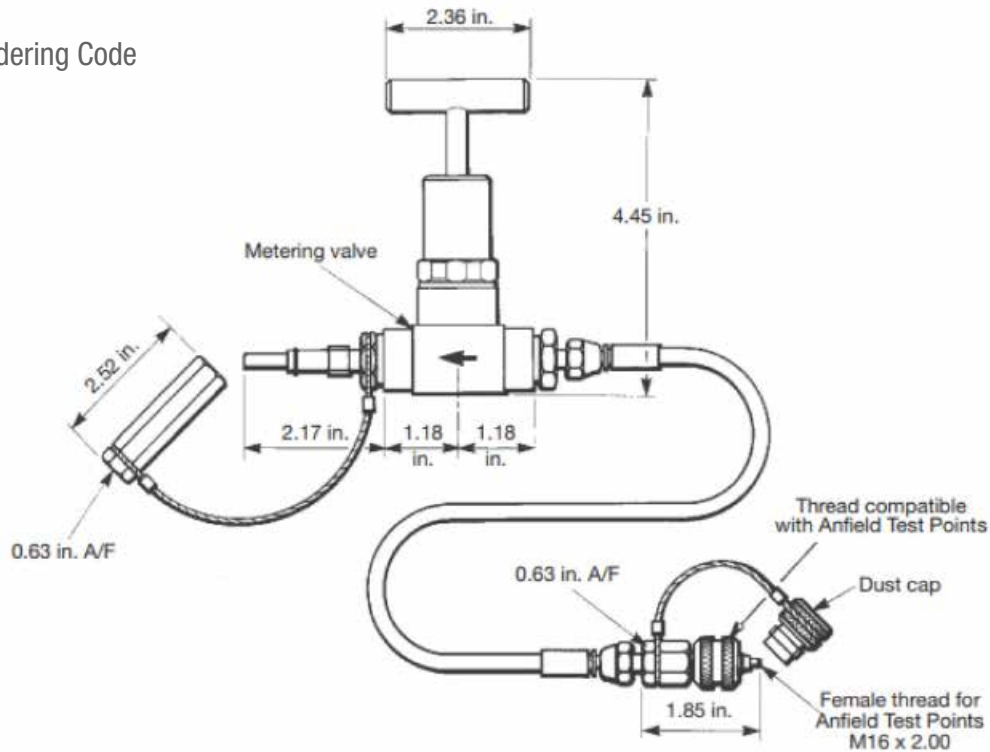
### Available features

- Ease of Use: The valve and hose allow for easy removal of fluid for sampling during operation
- Electrically Safe: No electrical contact with fluid.

### HSP690

- Designed for off-line bottle sampling
- Adjustable flow control for steady state samples
- Operates up to 6000 PSI (414 Bar) system pressure
- Viton Seals are standard: -20°C to 200°C  
-4° F to 392°F

## Dimensions & Ordering Code



Part Number	Length of Hose
HSP690-CMV	40" (1000 MM)

## Pressure Gauge Adaptor

This Direct Gauge Adaptor Probe is designed for use with Test Point Plugs (HSP2000) or with plugs of other manufacturers to ISO 15171-2 standard.

The probe can be attached to any one of a number of plugs installed throughout the hydraulic system to facilitate random pressure readings during servicing and fault finding.

Probes may be connected or disconnected at full system pressure without loss of oil or ingress of dirt

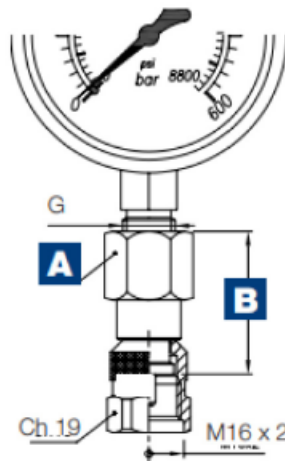
## Available features

- Ease of Use: The gauges allow the liquid pressure readings to be checked clearly at any time
- Electrically Safe: No electrical contact with fluid.
- Variability in Size: Multiple gauge thread sizes allows for variability of products that are compatible

## HSP 7000 SERIES

- Conforms to ISO 15171-2 standards
- Working pressure up to 9100 PSI (630 BAR)
- Material/Coating: Steel, Zinc/Nickel-Plated  
Stainless Steel AISI 316- DIN 14436 (Optional)
- For use with MPG Series 2-1/2" & 4" diameter glycerine filled pressure gauges
- Suitable for HSP2000 and HSP1014 Series test point plugs

## Dimensions & Ordering Code



Part Number	Gauge Thread	A (A/F)	B
HSP7000-2NV	1/4" NPTF	19 mm	1.34"
HSP7000-4SV	7/16" - 20 (SAE 4)	19 mm	1.34"
HSP7000-4NV	1/2" NPTF	19 mm	1.34"