1620 Series
TestPoints

Applications

- Pressure measurement with gauges or sensors
- Fluid sampling
- Air bleeding

Description

HYDAC series 1620, guided piston design, TestPoints are compact, self sealing couplings that provide access to hydraulic and pneumatic systems for pressure measurement to 9000 psi. Mating adapters or hose connections can be connected without loss of fluid while the system is operating. TestPoints can also be used to take oil samples or to bleed air from hydraulic systems. They are available in 1620 (M16x2.0) connection threads with a variety of screw-in port configurations.

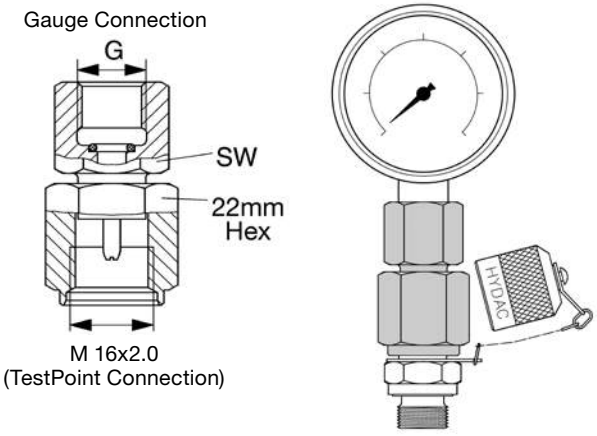
Technical Details

Specifications	
Max. Rated Pressure	9000 psi (630 bar)
Fluid Compatibility	Petroleum based fluids Gaseous media
Materials	Zinc plated steel body *(standard)* Zinc plated metal cap *(standard)*
Seals	Buna-N *(standard)* Viton *(optional)*
Temperature with metal cap and Buna-N seals:	-22°F to 248°F (-30°C to 120°C)
Options	Anti-vibration seal for metal cap

Features

- Can be coupled and uncoupled under pressure without system shutdown or fluid loss
- Patented guided piston design for leak free performance at operating pressure to 9000 psi
- HYDAC guided piston design provides the following advantages over ball seal design:
  - Higher working Pressure
  - Better sealing characteristics particularly under high vibration
  - Less susceptible to fluid contamination
  - Can be used for gases as well as fluid

1620 Series Adapters
Direct Gauge Adapter

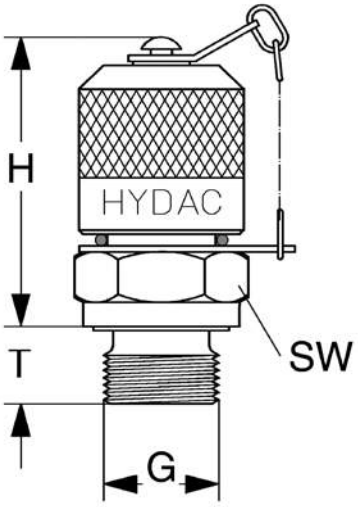


Thread G	Pmax	SW	Part No.
ISO 228-G 1/4	9000 psi (630 bar)	19	06003824
ISO 228-G 1/2	*9000 psi (630 bar)*	*27*	*06003825*
1/4 NPT	9000 psi (630 bar)	19	06003769

Part numbers listed in RED italics are non-standard items - Minimum quantities may apply - Contact HYDAC for information and availability

Dimensions

Standard 1620 TestPoint connection with cap



Select desired connection in chart to the right

Carbon Steel TestPoints *(Zinc-Plated, Buna N Seals)*

Thread G	Pmax	H (mm)	T (mm)	SW (mm)	Part No.
1/8 NPTF	5800 psi (400 bar)	33	13	17	06003734
1/4 NPTF	5800 psi (400 bar)	33	16.5	17	00639645
7/16-20 UNF	9000 psi (630 bar)	37	9	17	06003735
9/16-18 UNF	9000 psi (630 bar)	36	10	19	06003737
M 8x1	3600 psi (250 bar)	41	8.5	17	06003731
M 10x1	3600 psi (250 bar)	37.5	8.5	17	00629237
M 12x1.5	9000 psi (630 bar)	36	10	17	00632615
M 14x1.5	9000 psi (630 bar)	36	10	19	00632248
M 16x1.5	9000 psi (630 bar)	36	10	22	06003732
ISO 228-G 1/8	5800 psi (400 bar)	38	8	17	00689901
ISO 228-G 1/4	9000 psi (630 bar)	36	10	19	00680107
ISO 228-G 3/8	9000 psi (630 bar)	36	10	22	06003733
ISO 7/I-R 1/8	5800 psi (400 bar)	33	13	17	06003738
ISO 7/I-R 1/4	9000 psi (630 bar)	33	13	17	06003739

Carbon Steel TestPoints *(Zinc-Plated, Fluorelastomer Seals)*

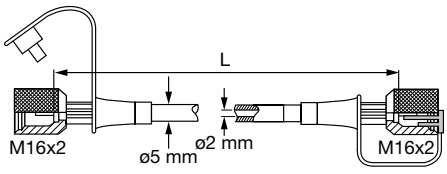
Thread G	Pmax	H (mm)	T (mm)	SW (mm)	Part No.
1/8 NPTF	5800 psi (400 bar)	33	13	17	06007199
1/4 NPTF	5800 psi (400 bar)	33	13	17	06007200
7/16-20 UNF	9000 psi (630 bar)	37	9	17	06007029
9/16-18 UNF	9000 psi (630 bar)	36	10	19	06007030
ISO 228-G 1/4	9000 psi (630 bar)	36	10	19	00606304

Stainless Steel TestPoints *(Fluorelastomer Seals)*

Thread G	Pmax	H (mm)	T (mm)	SW (mm)	Part No.
1/4 NPTF	5800 psi (400 bar)	33	13	17	02701487
7/16-20 UNF	5800 psi (400 bar)	33	16.5	17	02701486

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
* for port configuration drawings contact HYDAC.

Micro Bore Flexible Hoses



L (inches)	L (mm)	Part No.
8	200	06003723
12	300	06003724
16	400	00632633
20	500	06003725
25	630	06003726
31	800	00682857
39	1000	00632634
49	1250	06003727
59	1500	00682858
79	2000	00682859
98	2500	00682860
126	3200	06003728
157	4000	06003729
197	5000	06003730

Specifications

- Maximum working pressure 9000 psi (630 bar) at 122˚F (50°C)
  (see pressure utilization factor to adjust for higher temperatures)
- Suitable for petroleum based fluids
- Temperature range -4° to 122°F (-20° to 50°C)
- Polyamid core with polyester braid reinforcement and polyamid jacket
- Plastic dust cap
- 1620 female connection at both ends
- Bending radius: min. 20mm
- Hose ID ø 2mm
- Custom Hose Assemblies Available:
  NPT Male Thread, NPT Female Thread, JIC Male Hose, JIC Female swivel hose ends

Pressure Utilization Factor for Hoses

Operating Temp.	Factor	Max. Pressure
122°F (50°C)	100%	9000 psi (630 bar)
176°F (80°C)	86%	7740 psi (534 bar)
212°F (100°C)	77%	6930 psi (478 bar)

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