

Section 6:

Introduction

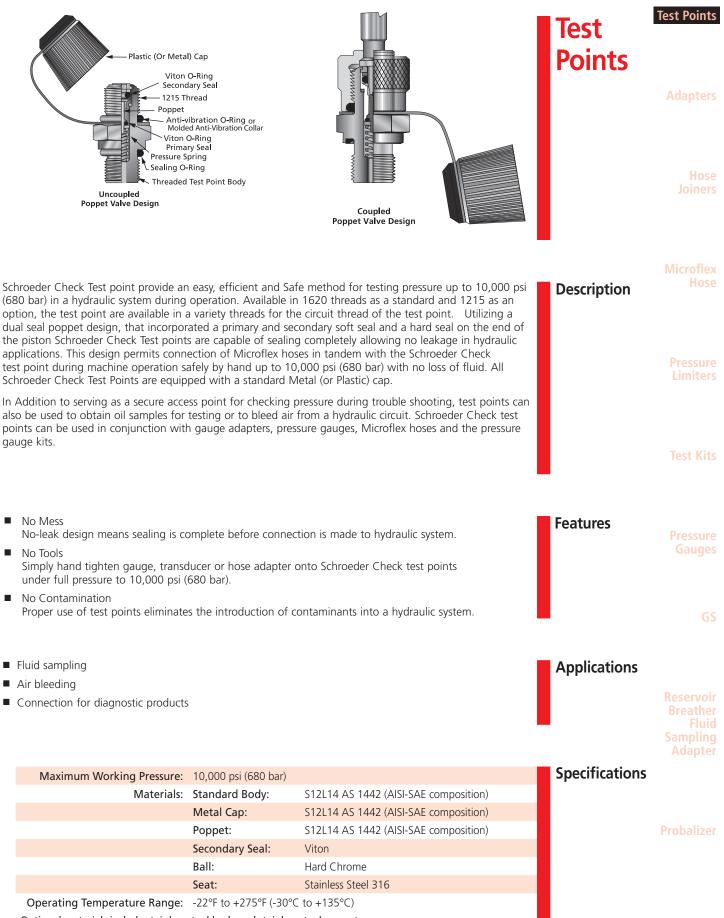
Schroeder Check test points provide a fast easy and safe way to test pressures up to 10,000 psi (680 bar) in hydraulic systems under operation. They are available in both 1620 (M16x20) and 1215 (M12x1.5) reverse buttress connections threads with a variety of screw port threads. The standard poppet style features a primary and secondary seal, providing for absolute sealing of fluid. The design allows connection by hand at pressures up to 10,000 psi (680 bar) without any loss of fluid. Metal caps and Buna seals are standard and each hydraulic test point is individually checked for quality assurance.

In addition to functioning as a secure access point for checking pressure, they can also be effectively used for collecting oil samples for subsequent testing or bleed air from a hydraulic system. Schroeder check test point can be used in conjunction with gauge adapters, pressure gauges, microflex hoses, and pressure gauge test kits.

Our hydraulic test point design allows easy, comfortable, and safe access to high pressure system enabling measuring, sampling, and filling without interfering with installation. Even connect and disconnect sensors at running installation for easy diagnosis and fluid condition monitoring.

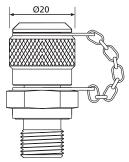
Benefits

- No mess, no-leak design means sealing is complete before connection is made to hydraulic system.
- No tools simply hand tighten gauge, transducer or hose adapter onto Schroeder Check test points under full pressure to 10,000 psi (680 bar)
- No contamination proper use of test points eliminates the introduction of contaminants into a hydraulic system



Optional materials include stainless steel body and stainless steel poppet.

G Thread	Sealing System	Part Number
1/8" NPT	Thread	SP1620NPT18VM
	Thread	SP1215NPT14VSSM
1/4" NPT		SP1620NPT14VM
5/16"-24 UNF	Viton O-Ring	SP1215UN716VM
7/16"-20 UNF	Viton O-Ring	SP1620UN716VM
		SP1215UN716VSSM
9/16"-18 UNF	Viton O-Ring	SP1620UN916VM
1/8" BSPP	WD Seal NBR	SP1620G18WDM
1/4" BSPP	WD Seal NBR	SP1620G14WDM

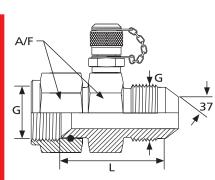


Test Point with metal cap

SP = Test point with poppet valve; SS = Stainless Steel; M = Metal Cap; FP = Female Poppet P = Plastic Cap All Test Points have Viton[®] seals.

Preferred order codes designate shorter lead times and faster delivery.

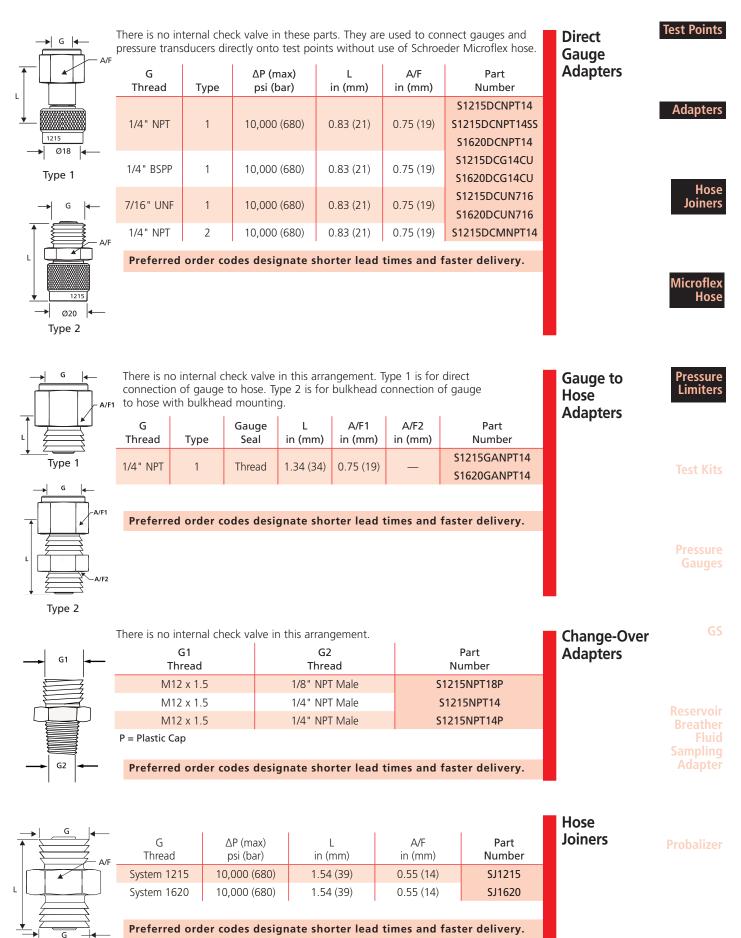
JIC Male/ Female In-Line **Test Points**

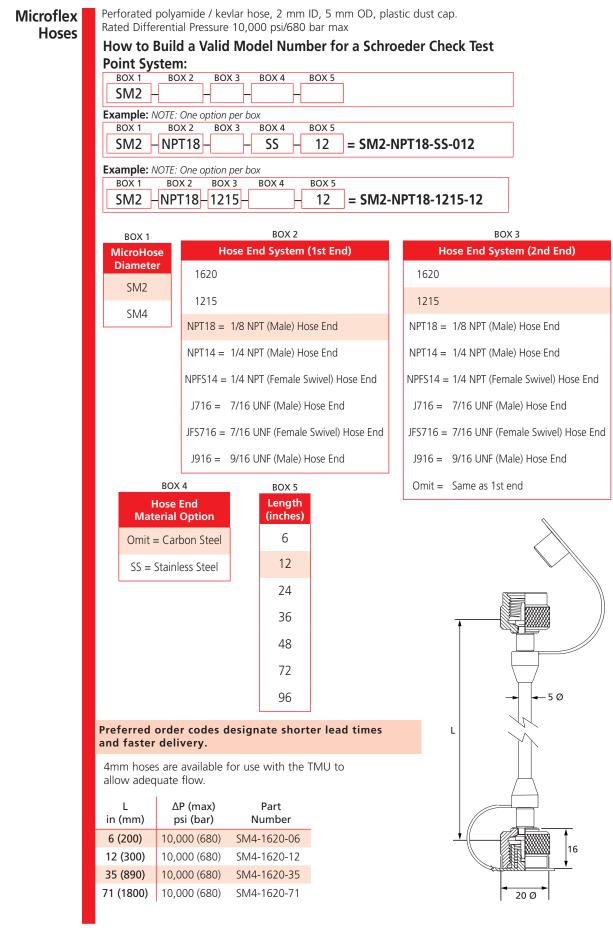


JIC according to SAE J514. Male/female threads of the same size.

G Thread	Tube/Pipe dia	∆P (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
7/16"-20 UNF	1/4"	4500 (315)	1.38 (35)	.51 (13)	SP1215L04JICP SP1620L04JICM
9/16"-18 UNF	3/8 "	4500 (315)	1.38 (35)	.63 (16)	SP1215L06JICP SP1620L06JICM
3/4"-16 UNF	1/2 "	4500 (315)	1.50 (38)	.83 (21)	SP1215L08JICVP SP1620L08JICM
1-1/16"-12 UNF	3/4"	4500 (315)	1.89 (48)	1.06 (27)	SP1215L12JICVP SP1620L12JICM
1-5/16"-12 UNF	1 "	4500 (315)	1.97 (50)	1.38 (35)	SP1215L16JICP SP1620L16JICM

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Schroeder Pressure Test Kits are available in four configurations as shown below. Highest quality components were selected for versatility and long service life. Contents of each kit are listed below. **Schroeder**

Pressure

Test Kits

Schroeder

Custom

Test Kits

Pressure

Gauges

Adapters

Test Kits

Pressure

Gauges

The optional gauge range should be specified using the order code shown above.
For example: UB102-1-2 specifies one (1) 100 psi gauge and one (1) 200 psi

UB101-(*)	UB102-(*)-(*)	UB103-(*)-(*)-(*)	UB106-(*)-(*)-(*)-(*)-(*)	Part Number	Hose Joiners
1 U401 Gauge (*)	2 U401 Gauges (*)-(*)	3 U401 Gauges (*)-(*)-(*)	6 U401 Gauges (*)-(*)-(*)-(*)-(*)-(*)		
1 Microflex Hose 36"	2 Microflex Hoses 36"/72"	3 Microflex Hoses 12 "/36 "/72 "	6 Microflex Hoses, 2x12"/2x36"/2x72"		
1 Hose Joiner	1 Hose Joiner	1 Hose Joiner	3 Hose Joiners		Mi woflow
1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	3 (Hose) Gauge Adapters		Microflex Hose
1 Direct Gauge Adapter	1 Direct Gauge Adapter	1 Direct Gauge Adapter	3 Direct Gauge Adapters		nose
3 Schroeder Check Test Points:	6 Schroeder Check Test Points:	6 Schroeder Check Test Points:	12 Schroeder Check Test Points:		
1 ea. 1/4" NPT	2 ea. 1/4" NPT	2 ea. 1/4" NPT	4 ea. 1/4" NPT		
1 ea. 7/16" UNF	2 ea. 7/16" UNF	2 ea. 7/16" UNF	4 ea. 7/16" UNF		Pressure
1 ea. 9/16" UNF	2 ea. 9/16" UNF	2 ea. 9/16" UNF	4 ea. 9/16" UNF		Limiters

Pressure test kits are also available with U400 all stainless steel gauges. Part numbers are U101-(*), U102-(*) -(*)...etc.

Custom Test Kits are designed for many special requirements. Utilizing components from Schroeder gauge and pressure test kits, these boxes are constructed for reliability and precision.

For additional information on custom test kits, please consult factory.

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do the work pre cost, short life g necessary. A seri are fluid filled w scale dial has a r contrast matte b steel, internals a pressure or vacu not be hazardou

1/4" NPT

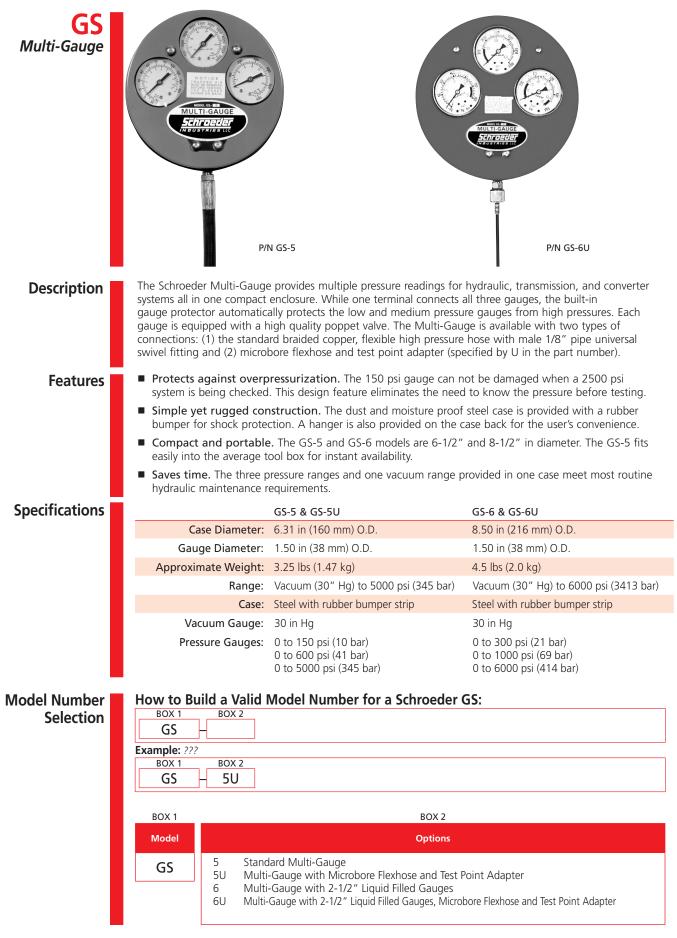
With the Schroeder Check System, one top quality gauge can do the work previously done by many. Compromising on low cost, short life gauges with questionable accuracy is no longer necessary. A series of precision instruments, Schroeder gauges are fluid filled with full scale accuracy of $\pm 1.5\%$ (or better). Dual scale dial has a non-reflective white background and a high contrast matte black pointer. Cases and connections are stainless steel, internals are brass. Ideal for most liquids and gases under pressure or vacuum where contact with the liquid filling would not be hazardous. For additional applications, information, and pressure ranges, please consult the factory.

Part Number	Pressure	Order Code (needed for test kits)	Part Number	Breather
U401-30/100-01*	30 in Hg VAC to 100 psi (6.9 bar)	0		Fluid Sampling
U401-100-01	0 to 100 psi (6.9 bar)	1		Adapter
U401-200-01	0 to 200 psi (13.8 bar)	2		
U401-600-01	0 to 600 psi (41.2 bar)	6		
U401-1000-01	0 to 1000 psi (70.0 bar)	10		
U401-1500-01	0 to 1500 psi (103.0 bar)	15		
U401-3000-01*	0 to 3000 psi (207.0 bar)	30		Probalizer
U401-5000-01	0 to 5000 psi (345.0 bar)	50		
U401-6000-01*	0 to 6000 psi (414.0 bar)	60		
U401-10000-01	0 to 10000 psi (689.0 bar)	100		

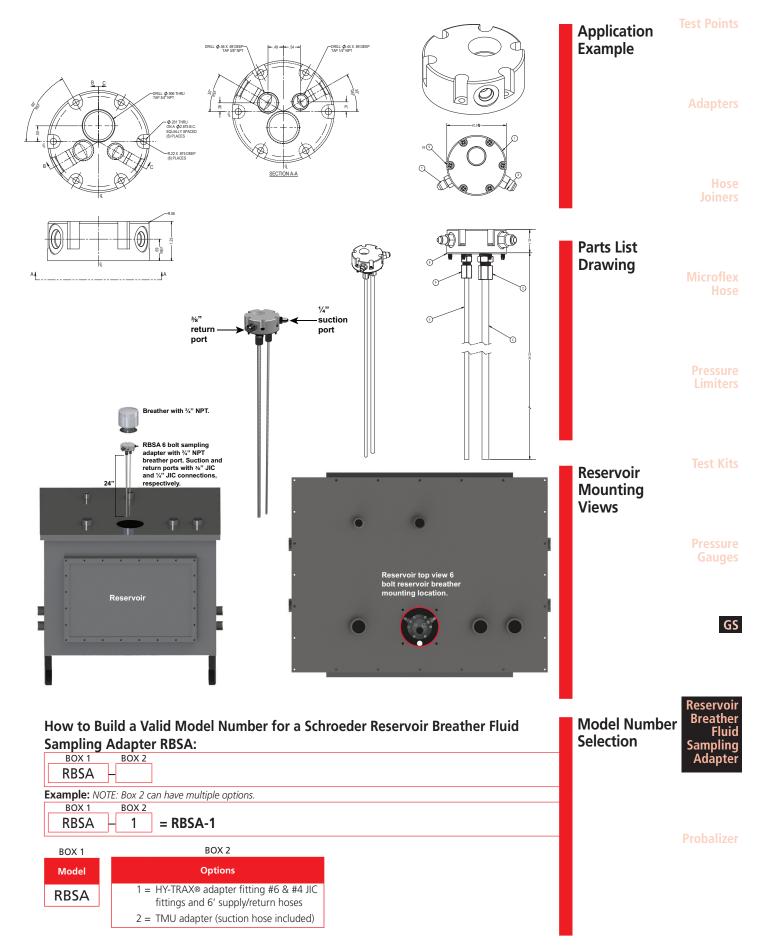
*Also available is U400-XXX-01 gauge, identical to U401 except with stainless steel internals.

Preferred order codes designate shorter lead times and faster delivery.

Multi-Gauge



Reservoir Breather Fluid Sampling Adapter

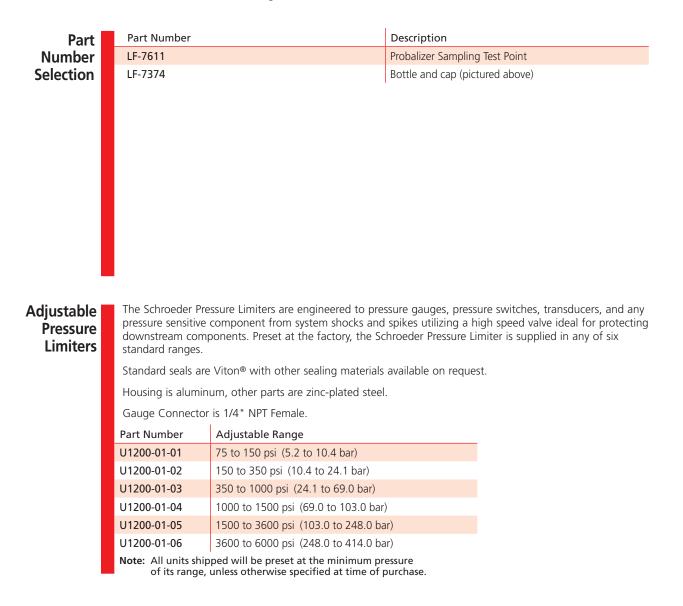


Probalizer Sampling Test Point



The Probalizer Sampling Test Point provides a point of access for obtaining representative fluid samples from an operational hydraulic system. The downstream channel is specially sized to accept the sampling probe from a customized cap/probe assembly screwed onto a sample bottle. (See photo). Use of this system minimizes leakage and helps to maintain the integrity of the sample.

Part Number:	LF-7611
Flow Rate:	400 mL/min @ 35 psi; 1000 mL/min @ 100 psi
Burst Pressure:	4500 psi (310 bar) min
Sampling Pressure Range:	1 to 100 psi (0.07 to 6.89 bar)
Mounting Thread:	1/4" NPT



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