Introduction

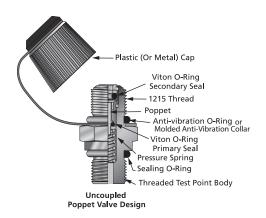
Schroeder Check test points provide a fast easy and safe way to test pressures up to 10,000 psi (680 bar) in hydraulic systems under operation. They are available in both 1620 (M16x20) and 1215 (M12x1.5) reverse buttress connections threads with a variety of screw port threads. The standard poppet style 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.

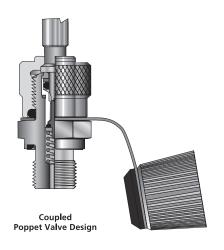
In addition to functioning as a secure access point for checking pressure, they can also be effectively used for collecting oil samples for subsequent testing or bleed air from a hydraulic system. Schroeder check test point can be used in conjunction with gauge adapters, pressure gauges, microflex hoses,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





Test Points **Test Points**

Adapter

Hose Joiners

Schroeder Check Test point provide an easy, efficient and Safe method for testing pressure up to 10,000 psi (680 bar) in a hydraulic system during operation. Available in 1620 threads as a standard and 1215 as an option, the test point are available in a variety threads for the circuit thread of the test point. Utilizing a dual seal poppet design, that incorporated a primary and secondary soft seal and a hard seal on the end of the piston Schroeder Check Test points are capable of sealing completely allowing no leakage in hydraulic applications. This design permits connection of Microflex hoses in tandem with the Schroeder Check test point during machine operation safely by hand up to 10,000 psi (680 bar) with no loss of fluid. All Schroeder Check Test Points are equipped with a standard Metal (or Plastic) cap.

In Addition to serving as a secure access point for checking pressure during trouble shooting, test points can also be used to obtain oil samples for testing or to bleed air from a hydraulic circuit. Schroeder Check test points can be used in conjunction with gauge adapters, pressure gauges, Microflex hoses and the pressure gauge kits.

Description

icroflex Hose

Pressure Limiters

Test Kit

- 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.

Features

Pressure Gauges

GS

- Fluid sampling
- Air bleeding
- Connection for diagnostic products

Applications

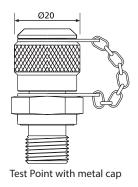
Breather Fluid Sampling Adapter

Maximum Working Pressure:	10,000 psi (680 bar)	
Materials:	Standard Body:	S12L14 AS 1442 (AISI-SAE composition)
	Metal Cap:	S12L14 AS 1442 (AISI-SAE composition)
	Poppet:	S12L14 AS 1442 (AISI-SAE composition)
	Secondary Seal:	Viton
	Ball:	Hard Chrome
	Seat:	Stainless Steel 316
Operating Temperature Range:	-22°F to +275°F (-30°C to	o +135°C)
Optional materials include stainless steel body and stainless steel poppet.		

Specifications

Probalizer

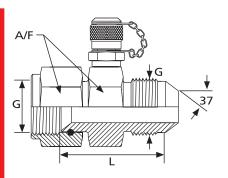
G Thread	Sealing System	Part Number
1/8" NPT	Thread	SP1620NPT18VM
1/4" NPT	Thread	SP1215NPT14VSSM
1/4 INF1	Tilledu	SP1620NPT14VM
5/16"-24 UNF	Viton O-Ring	SP1215UN716VM
7/16"-20 UNF	Viton O-Ring	SP1620UN716VM
7/10 -20 UNF	viton O-king	SP1215UN716VSSM
9/16"-18 UNF	Viton O-Ring	SP1620UN916VM
1/8" BSPP	WD Seal NBR	SP1620G18WDM
1/4" BSPP	WD Seal NBR	SP1620G14WDM



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.

	l	l	l	l I	İ
G	Tube/Pipe	ΔP (max)	L	A/F	
Thread	dia	psi (bar)	in (mm)	in (mm)	Part Number
7/16"-20 UNF	1/4"	4500 (315)	1.38 (35)	.51 (13)	SP1215L04JICP
7/10 -20 UNF	1/4	4300 (313)	1.30 (33)	.51 (15)	SP1620L04JICM
9/16"-18 UNF	3/8"	4500 (215)	1 30 /35\	62 (16)	SP1215L06JICP
9/10 -18 UNF	3/8	4500 (315)	1.38 (35)	.63 (16)	SP1620L06JICM
2/4// 16 LINE	1 /2!!	4500 (215)	1.50 (20)	02 (21)	SP1215L08JICVP
3/4"-16 UNF	1/2"	4500 (315)	1.50 (38)	.83 (21)	SP1620L08JICM
1-1/16"-12 UNF	3/4"	4500 (215)	1.00 (40)	1.06 (27)	SP1215L12JICVP
1-1/10 -12 UNF	3/4	4500 (315)	1.89 (48)	1.06 (27)	SP1620L12JICM
1-5/16"-12 UNF	1"	4500 (315)	1.97 (50)	1 20 (25)	SP1215L16JICP
1-3/10 -12 UNF	ľ	4500 (515)	1.97 (30)	1.38 (35)	SP1620L16JICM

Preferred order codes designate shorter lead times and faster delivery.

There is no internal check valve in these parts. They are used to connect gauges and pressure transducers directly onto test points without use of Schroeder Microflex hose.

G Thread	Type	ΔP (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
1/4" NPT	1	10,000 (680)	0.83 (21)	0.75 (19)	\$1215DCNPT14 \$1215DCNPT14SS \$1620DCNPT14
1/4" BSPP	1	10,000 (680)	0.83 (21)	0.75 (19)	\$1215DCG14CU \$1620DCG14CU
7/16" UNF	1	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCUN716 S1620DCUN716
1/4" NPT	2	10,000 (680)	0.83 (21)	0.75 (19)	S1215DCMNPT14

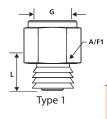
Preferred order codes designate shorter lead times and faster delivery.

Direct Gauge Adapters **Test Points**

Adapters

Hose Joiners

Microflex Hose



► Ø20 Type 2

There is no internal check valve in this arrangement. Type 1 is for direct connection of gauge to hose. Type 2 is for bulkhead connection of gauge to hose with bulkhead mounting.

G	Туре	Gauge	L	A/F1	A/F2	Part
Thread		Seal	in (mm)	in (mm)	in (mm)	Number
1/4" NPT	1	Thread	1.34 (34)	0.75 (19)	_	S1215GANPT14 S1620GANPT14

A/F1

Type 2

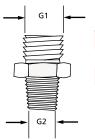
Preferred order codes designate shorter lead times and faster delivery.

Gauge to Hose Adapters Pressure Limiters

Test Kit

Gauges

There is no internal check valve in this arrangement.



G1 Thread	G2 Thread	Part Number
M12 x 1.5	1/8" NPT Male	S1215NPT18P
M12 x 1.5	1/4" NPT Male	S1215NPT14
M12 x 1.5	1/4" NPT Male	S1215NPT14P

P = Plastic Cap

Preferred order codes designate shorter lead times and faster delivery.

Change-Over Adapters

Breather Fluid Sampling Adapter

•		
	A/F	
.	-	
L		
		
	- ()	

G Thread	ΔP (max) psi (bar)	L in (mm)	A/F in (mm)	Part Number
System 1215	10,000 (680)	1.54 (39)	0.55 (14)	SJ1215
System 1620	10,000 (680)	1.54 (39)	0.55 (14)	SJ1620

Preferred order codes designate shorter lead times and faster delivery.

Hose Joiners

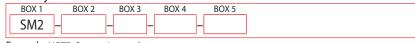
Probalizei

Microflex Hoses

Perforated polyamide / kevlar hose, 2 mm ID, 5 mm OD, plastic dust cap. Rated Differential Pressure 10,000 psi/680 bar max

How to Build a Valid Model Number for a Schroeder Check Test





Example: NOTE: One option per box

L	BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	_
	SM2	- NPT18 -		- SS	- 12	= SM2-NPT18-SS-012

Example: NOTE: One option per box

Γ	BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	
	SM2	– NPT18 -	1215 –		- 12	= SM2-NPT18-1215-12

BOX 1
MicroHose
Diameter
SM2
SM4

Hose End System (1st End)

1620

1215

NPT18 = 1/8 NPT (Male) Hose End

BOX 2

NPT14 = 1/4 NPT (Male) Hose End

NPFS14 = 1/4 NPT (Female Swivel) Hose End

J716 = 7/16 UNF (Male) Hose End

JFS716 = 7/16 UNF (Female Swivel) Hose End

J916 = 9/16 UNF (Male) Hose End

BOX 5

Material Option

Omit = Carbon Steel

BOX 4

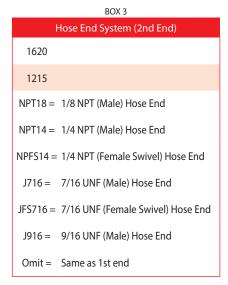
Hose End

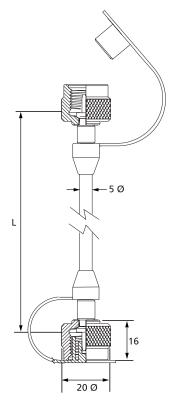
SS = Stainless Steel

Preferred order codes designate shorter lead times and faster delivery.

4mm hoses are available for use with the TMU to allow adequate flow.

L	ΔP (max)	Part
in (mm)	psi (bar)	Number
6 (200)	10,000 (680)	SM4-1620-06
12 (300)	10,000 (680)	SM4-1620-12
35 (890)	10,000 (680)	SM4-1620-35
71 (1800)	10,000 (680)	SM4-1620-71







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.

■ 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

Schroeder Pressure **Test Kits**

Adapters

Part Number

Hose Joiners

Microflex



Schroeder Custom **Test Kits**



Test Kits



Pressure Gauges

Part Number

UB101-(*)	UB102-(*)-(*)	UB103-(*)-(*)-(*)	UB106-(*)-(*)-(*)-(*)-(*)
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
1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	1 (Hose) Gauge Adapter	3 (Hose) Gauge Adapters
1 Direct Gauge Adapter	1 Direct Gauge Adapter	1 Direct Gauge Adapter	3 Direct Gauge Adapters
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
1 ea. 9/16" UNF	2 ea. 9/16" UNF	2 ea. 9/16" UNF	4 ea. 9/16" UNF
			1404 (V) 11400 (V) (V)

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.



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)
U401-30/100-01*	30 in Hg VAC to 100 psi (6.9 bar)	0
U401-100-01	0 to 100 psi (6.9 bar)	1
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
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.