

CLAMPS

TEST

DIAGNOSTICS

FILTRATION

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BALL VALVES



Local Solutions for Individual Customers Worldwide

## Stauff Test

Stauff provides you with a broad range of standard diagnostic test couplings to suit your needs to take pressure measurements at key points in your hydraulic system. Custom products can also be manufactured for special OEM applications.

### TEST 20 TYPE SMK (M 16 X 2)

[SMK Test Coupling](#)  
[SMK JIC and ORFS Connections](#)  
[SMS Test Hoses](#)  
[SAD Adaptor](#)  
[SSK Bulkhead](#)  
[SMA & SMD Gauge Adaptors](#)  
[SGV Swivel Run Tees](#)

### TEST 20 TYPE SKK (M 16 X 2)

[SKK Test Coupling](#)

### TEST 15 TYPE SMK (M 16 X 1,5)

[SMK Test Coupling](#)  
[SMS Test Hoses](#)  
[SSK Bulkhead](#)  
[SMD Gauge Adaptor](#)  
[SGV Swivel Run Tees](#)

### TEST 12 TYPE SKK (S 12,65 X 1,5)

[SKK Test Coupling](#)  
[SMS Test Hoses](#)  
[SAD Adaptor](#)  
[SSKK Bulkhead](#)  
[SMA & SMD Gauge Adaptors](#)  
[SGV Swivel Run Tees](#)

### TEST 10 (PLUG IN SYSTEM)

[SMK Test Coupling](#)  
[SMS Test Hoses](#)  
[SMA Gauge Adaptor](#)

### TEST HOSES

[DN 2/DN 4](#)  
[End Connections](#)  
[SRS Thread Adaptor](#)  
[SAS Welding Adaptor](#)  
[SHA Sampling Hose Adaptor](#)  
[SSV Union Adaptor](#)



## TEST 20 TYPE SMK (M 16 X 2)

- Test Coupling SMK .....T2-4
- SMK JIC & ORFS Connections .....T5
- Test Hoses SMS .....T6
- Adaptor SAD .....T6
- Bulkhead SSK .....T7
- Gauge Adaptor SMA + SMD .....T7
- Swivel Run Tees SGV .....T7

## TEST 20 TYPE SKK (M 16 x 2)

- Test Coupling SKK .....T8-10

## TEST 15 TYPE SMK (M 16 x 1,5)

- Test Coupling SMK .....T11-13
- Test Hoses SMS .....T14
- Gauge Adaptor SMA .....T14
- Bulkhead SSK .....T15
- Gauge Adaptor SMD .....T15
- Swivel Run Tees SGV .....T15

## TEST 12 TYPE SKK (S 12,65 x 1,5)

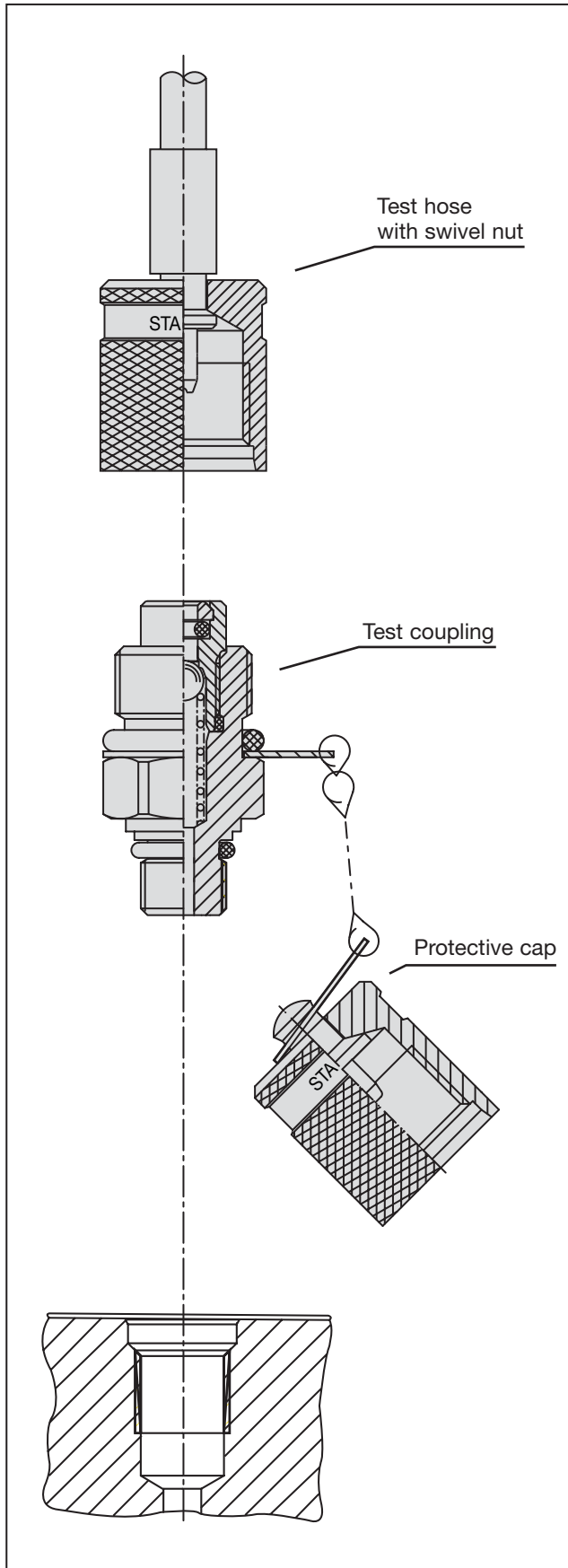
- Test Coupling SKK .....T16-18
- Test Hoses SMS .....T19
- Adaptor SAD .....T19
- Bulkhead SSKK .....T20
- Gauge Adaptors SMA + SMD .....T20
- Swivel Run Tees SGV .....T20

## TEST 10 (PLUG IN SYSTEM)

- Test Coupling SMK .....T21-22
- Test Hoses SMS .....T23
- Gauge Adaptor SMA .....T23

## TEST HOSES

- DN 2 /DN 4 .....T24
- End Connections .....T25-28
- Thread Adaptor - SRS Series .....T29
- Welding Adaptor - SAS Series .....T30
- Sampling Hose Adaptor - SHA Series .....T30
- Union Adaptor - SSV Series .....T30



## Fast Coupling for:

- Monitoring and control of pressure
- Venting
- Sampling Fluids

## Advantages:

- Test system at working pressure
- Connection is leakproof before **ball check** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap
- Minimizes introduction of contamination into hydraulic systems

## Working Pressure:

- Max. working pressure 9000 PSI (630 bar)  
For SMK style G, K and S the recommended working pressure of fitting manufacturer should be noted
- Connection under pressure up to 5800 PSI (400 bar) max.

## Materials:

- Metal parts: Steel, Stainless Steel on request
- Ball: Stainless Steel
- Seals:

### Standard

V = FPM-VITON Temperature range – 4°F to +392°F  
(– 20° C to +200° C)

### Optional

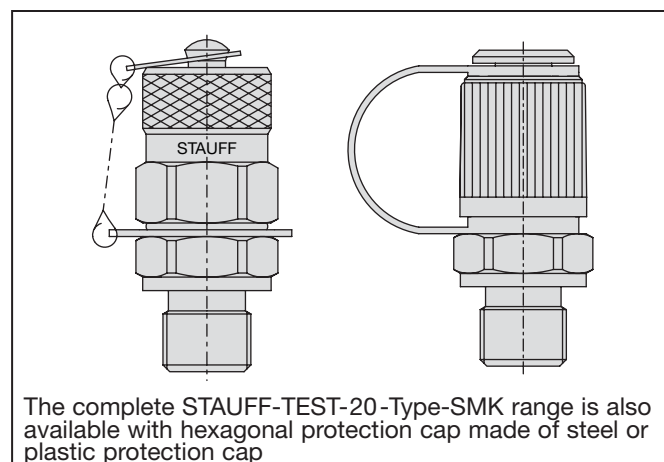
P = NBR-BUNA Temperature range – 4°F to +195°F  
(– 20° C to +90° C)

E = EPDM Ethylene Propylene (for Brake Fluid)  
Temperature range – 40°F to +302°F  
(– 40° C to + 150° C)

- Hose: Polyamide Temperature range –31°F to +212°F  
(–35° C to +100° C)

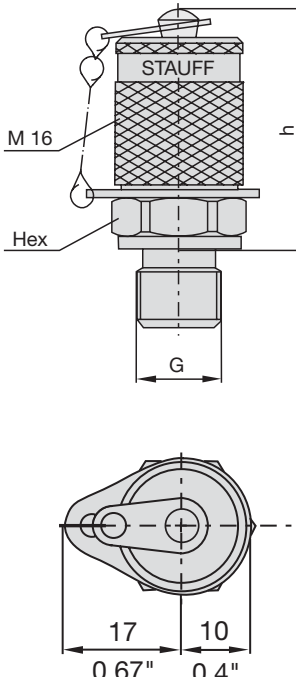
## Media:

- Suitable for hydraulic oils and other mineral based fluids (Check compatibility of seal material)
- For use with other liquid media, low viscosity media or gaseous media please consult STAUFF details
- SMK20 - 1/4" NPT - VD-ETG version available for severe shock / vibration applications



The complete STAUFF-TEST-20-Type-SMK range is also available with hexagonal protection cap made of steel or plastic protection cap

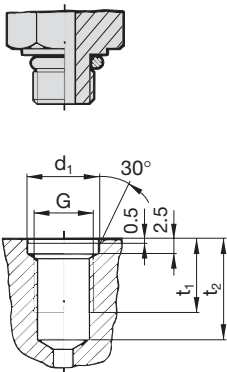
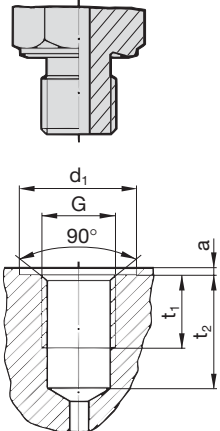
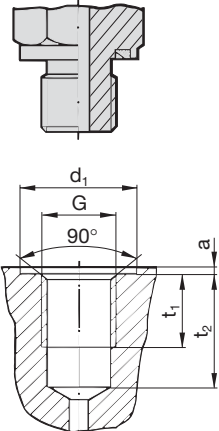
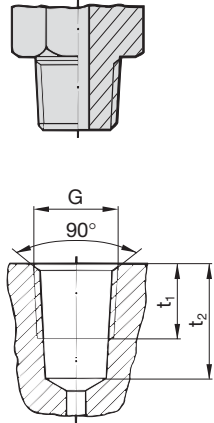
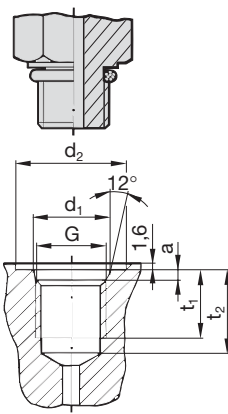
**Test Coupling with Protective Cap SMK**

	Thread G	h	Hex	Order No.		Seal Type (see below)
		mm in	mm in	NBR (BUNA)	FPM (VITON) (Standard)	
	<b>M8 x 1</b>	37 1.46	17 0.67	SMK 20 – M8 x 1 – PA	<b>SMK 20 – M8 x 1 – VA</b>	O-Ring Type A
	<b>M10 x 1</b>	37 1.46	17 0.67	SMK 20 – M10 x 1 – PA	<b>SMK 20 – M10 x 1 – VA</b>	O-Ring Type A
	<b>M12 x 1,5</b>	37 1.46	17 0.67	SMK 20 – M12 x 1.5 – PC	<b>SMK 20 – M12 x 1.5 – VC</b>	O-Ring Type C
	<b>M14 x 1,5</b>	37 1.46	19 0.75	SMK 20 – M14 x 1.5 – PB	<b>SMK 20 – M14 x 1.5 – VB</b>	Metal joint Type B
	<b>M16 x 1,5</b>	37 1.46	22 0.87	SMK 20 – M16 x 1.5 – PB	<b>SMK 20 – M16 x 1.5 – VB</b>	Metal joint Type B
	<b>G 1/8</b>	39 1.54	17 0.67	SMK 20 – G 1/8 – PC	<b>SMK 20 – G 1/8 – VC</b>	O-Ring Type C
	<b>G 1/4</b>	37 1.46	19 0.75	SMK 20 – G 1/4 – PB	<b>SMK 20 – G 1/4 – VB</b>	Metal joint Type B
	<b>G 3/8</b>	37 1.46	19 0.75	SMK 20 – G 3/8 – PC	<b>SMK 20 – G 3/8 – VC</b>	O-Ring Type C
	<b>G 1/2</b>	37 1.46	19 0.75	SMK 20 – G 1/2 – PB	<b>SMK 20 – G 1/2 – VB</b>	Metal joint Type B
	<b>R 1/8 taper</b>	37 1.46	17 0.67	SMK 20 – R 1/8 K-PD	<b>SMK 20 – R 1/8 K-VD</b>	Taper Type D
	<b>R 1/4 taper</b>	36 1.42	17 0.67	SMK 20 – R 1/4 K-PD	<b>SMK 20 – R 1/4 K-VD</b>	Taper Type D
	<b>1/8 NPT</b>	36 1.42	17 0.67	SMK 20 – 1/8 NPT-PD	<b>SMK 20 – 1/8 NPT-VD</b>	Taper Type D
	<b>1/4 NPT</b>	35 1.38	17 0.67	SMK 20 – 1/4 NPT-PD	<b>SMK 20 – 1/4 NPT-VD</b>	Taper Type D
	<b>5/16 – 24 UNF</b>	38 1.50	17 0.67	SMK 20 – 5/16 UNF-PE	<b>SMK 20 – 5/16 UNF-VE</b>	O-Ring Type E
	<b>7/16 – 20 UNF</b>	38 1.50	17 0.67	SMK 20 – 7/16 UNF-PE	<b>SMK 20 – 7/16 UNF-VE</b>	O-Ring Type E
	<b>1/2 – 20 UNF</b>	38 1.50	17 0.67	SMK 20 – 1/2 UNF-PE	<b>SMK 20 – 1/2 UNF-VE</b>	O-Ring Type E
	<b>9/16 – 18 UNF</b>	37 1.46	19 0.75	SMK 20 – 9/16 UNF-PE	<b>SMK 20 – 9/16 UNF-VE</b>	O-Ring Type E
	<b>3/4 – 16 UNF</b>	37 1.46	19 0.75	—	<b>SMK 20 – 3/4 UNF-VE</b>	O-Ring Type E

To order hexagonal protection cap, add "SK" to part number. To order Plastic Protection cap, add "KK" to part number.  
Other port connections and seals on request.

TEST

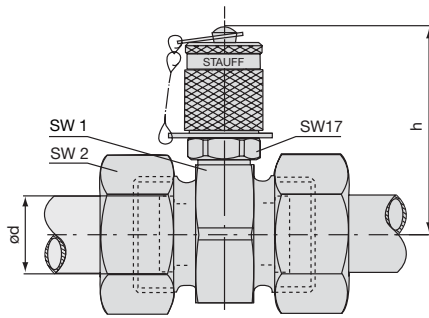
**Port Connections and Seals**

Type A	Type B	Type C	Type D	Type E (ISO 6149)																			
																							
G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	a	G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	a	G	t <sub>1</sub>	t <sub>2</sub>	G	d <sub>1</sub>	d <sub>2</sub>	t <sub>1</sub>	t <sub>2</sub>	a	
	mm in	mm in	mm in		mm in	mm in	mm in	mm in		mm in	mm in	mm in	mm in		mm in	mm in			mm in	mm in	mm in	mm in	mm in
M 8 x 1	9,5 0.37	11 0.43	15,5 0.61	M 14 x 1,5	20 0.79	12 0.47	18,5 0.73	1,5 0.06	M 12 x 1,5	18 0.71	12 0.47	18,5 0.73	1,5 0.06	R 1/8 taper	5,5 0.22	9,5 0.37		5/16 – 24 UNF	9,1 0.36	17 0.67	10 0.39	12 0.47	1,9 0.07
M 10 x 1	11,5 0.45	12 0.47	16,5 0.65	M 16 x 1,5	22 0.87	12 0.47	18,5 0.73	1,5 0.06	G 1/8	15 0.59	8 0.31	13 0.51	1,0 0.04	R 1/4 taper	8,5 0.33	13,5 0.53		7/16 – 20 UNF	12,4 0.49	21 0.83	11,5 0.45	14 0.55	2,4 0.09
M10 x1.25	11,5 0.45	12 0.47	16,5 0.65	G 1/4	19 0.75	12 0.47	18,5 0.73	1,5 0.06	G 1/4	19 0.75	12 0.47	18,5 0.73	1,5 0.06	1/8 NPT	6,9 0.27	11,6 0.46		1/2 – 20 UNF	14 0.55	23 0.91	11,5 0.45	14 0.55	2,4 0.09
				G 3/8	23 0.91	12 0.47	18,5 0.73	2 0.08						1/4 NPT	10 0.39	16,4 0.65		5/16 – 18 UNF	15,6 0.61	25 0.98	12,7 0.50	15,5 0.61	2,5 0.10
																		3/4 – 16 UNF	20,6 0.81	30,5 1.20	14,3 0.56	17,5 0.69	2,5 0.10

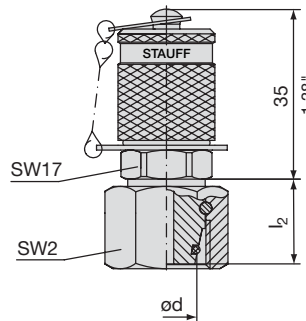


## Test Coupling SMK (Compression Ring Fittings acc. to DIN 2353) - Metric Tubing

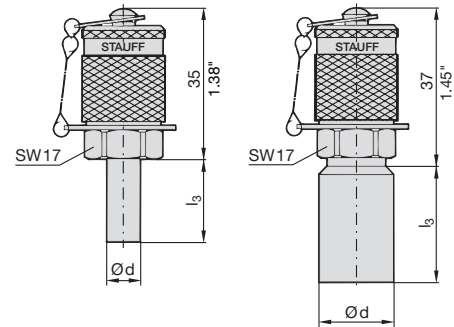
TEST



**Type G** Test coupling complete with straight fitting



**Type K** Test coupling for 24° cone fittings

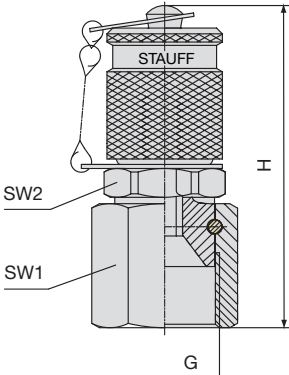


**Type S** Test coupling for compression ring assembly

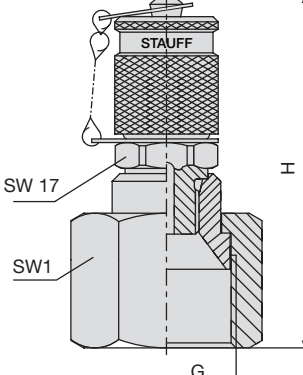
Series	PN	Pipe Ød	l <sub>2</sub>		l <sub>3</sub>		h		SW 1		SW 2		Order No.*		
			mm	in	mm	in	mm	in	mm	in	mm	in	Type G	Type K	Type S
L	315	6	15,5	0.61	20	0.79	49	1.93	24	0.94	14	0.55	SMK 20 - 6L-VG	SMK 20 - 6L-VK	SMK 20 - 6-VS
		8	15,5	0.61	20	0.79	49	1.93	24	0.94	17	0.67	SMK 20 - 8L-VG	SMK 20 - 8L-VK	SMK 20 - 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	19	0.75	SMK 20 - 10L-VG	SMK 20 - 10L-VK	SMK 20 - 10-VS
		12	17,5	0.69	22	0.87	50,5	1.99	27	1.06	22	0.87	SMK 20 - 12L-VG	SMK 20 - 12L-VK	SMK 20 - 12-VS
		15	21	0.83	25	0.98	52	2.05	30	1.18	27	1.06	SMK 20 - 15L-VG	SMK 20 - 15L-VK	SMK 20 - 15-VS
		18	19,5	0.77	28	1.10	53	2.09	32	1.26	32	1.26	SMK 20 - 18L-VG	SMK 20 - 18L-VK	SMK 20 - 18-VS
	160	22	20,5	0.81	30	1.18	55	2.17	36	1.42	36	1.42	SMK 20 - 22L-VG	SMK 20 - 22L-VK	SMK 20 - 22-VS
		28	25	0.98	32	1.26	57,5	2.26	41	1.61	41	1.61	SMK 20 - 28L-VG	SMK 20 - 28L-VK	SMK 20 - 28-VS
		35	30	1.18	42	1.65	60	2.36	46	1.81	50	1.97	SMK 20 - 35L-VG	SMK 20 - 35L-VK	SMK 20 - 35-VS
		42	31	1.22	45	1.77	64,5	2.54	55	2.17	60	2.36	SMK 20 - 42L-VG	SMK 20 - 42L-VK	SMK 20 - 42-VS
S	630	6	14,5	0.57	20	0.79	49	1.93	24	0.94	17	0.67	SMK 20 - 6S-VG	SMK 20 - 6S-VK	SMK 20 - 6-VS
		8	16,5	0.65	20	0.79	49	1.93	24	0.94	19	0.75	SMK 20 - 8S-VG	SMK 20 - 8S-VK	SMK 20 - 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	22	0.87	SMK 20 - 10S-VG	SMK 20 - 10S-VK	SMK 20 - 10-VS
		12	17,5	0.69	22	0.87	49	1.93	24	0.94	24	0.94	SMK 20 - 12S-VG	SMK 20 - 12S-VK	SMK 20 - 12-VS
		14	19,5	0.77	22	0.87	50,5	1.99	27	1.06	27	1.06	SMK 20 - 14S-VG	SMK 20 - 14S-VK	SMK 20 - 14-VS
	400	16	18	0.71	28	1.10	52	2.05	30	1.18	30	1.18	SMK 20 - 16S-VG	SMK 20 - 16S-VK	SMK 20 - 16-VS
		20	24	0.94	30	1.18	55	2.17	36	1.42	36	1.42	SMK 20 - 20S-VG	SMK 20 - 20S-VK	SMK 20 - 20-VS
		25	26	1.02	36	1.42	57,5	2.26	41	1.61	46	1.81	SMK 20 - 25S-VG	SMK 20 - 25S-VK	SMK 20 - 25-VS
		30	30	1.18	41	1.61	60	2.36	46	1.81	50	1.97	SMK 20 - 30S-VG	SMK 20 - 30S-VK	SMK 20 - 30-VS
	315	38	34	1.34	48	1.89	64,5	2.54	55	2.17	60	2.36	SMK 20 - 38S-VG	SMK 20 - 38S-VK	SMK 20 - 38-VS

\* For EPDM seals replace "V" with "E"

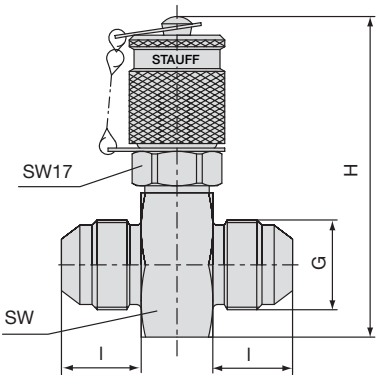
## Test Coupling SMK – JIC Connection (to SAE-J514)



**Type 1**

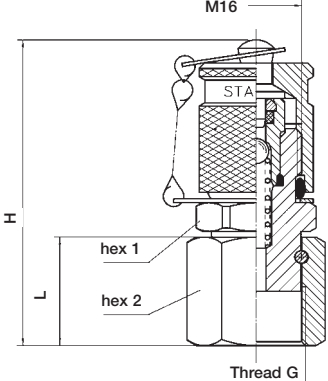


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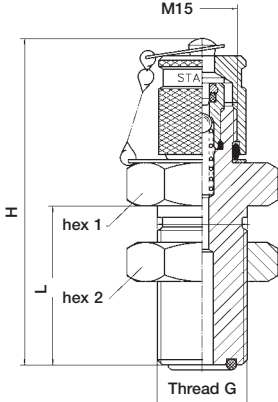


Pipe Size inch	JIC Size	G UNF	H		SW 1	SW 2	Type	Order No.	H		SW	L mm	I mm	Order No.
			mm	inch					mm	inch				
1/4"	- 4	7/16" - 20	52	2.0	17	17	1	SMK20-JIC1/4-VK	61	2.4	24	43	14	SMK20-JIC1/4-VG
5/16"	- 5	1/2" - 20	53	2.0	17	17	1	SMK20-JIC5/16-VK	61	2.4	24	43	14	SMK20-JIC5/16-VG
3/8"	- 6	9/16" - 18	55	2.1	19	17	1	SMK20-JIC3/8-VK	61	2.4	24	43.2	14.1	SMK20-JIC3/8-VG
1/2"	- 8	3/4" - 16	56	2.2	22	19	1	SMK20-JIC1/2-VK	67	2.6	30	48.4	16.7	SMK20-JIC1/2-VG
5/8"	- 10	7/8" - 14	59	2.3	27	22	1	SMK20-JIC5/8-VK	67	2.6	30	53.6	19.3	SMK20-JIC5/8-VG
3/4"	- 12	1-1/16" - 12	70	2.7	32		2	SMK20-JIC3/4-VK	73	2.8	36	58.8	21.9	SMK20-JIC3/4-VG
1"	- 16	1-5/16" - 12	69	2.7	38		2	SMK20-JIC1-VK	78	3.0	41	61.2	23.1	SMK20-JIC1-VG
1 1/4"	- 20	1-5/8" - 12	72	2.8	50		2	SMK20-JIC1 1/4-VK	83	3.3	46	65.6	24.3	SMK20-JIC1 1/4-VG
1 1/2"	- 24	1-7/8" - 12	75	2.9	60		2	SMK20-JIC1 1/2-VK	92	3.6	55	72	27.5	SMK20-JIC1 1/2-VG

## Test Coupling SSK/SMK – ORFS Connection



**Type 1**



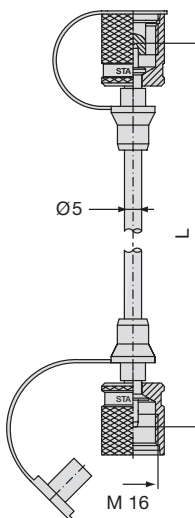
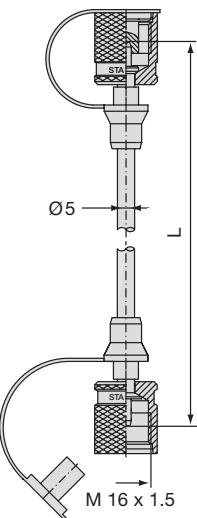
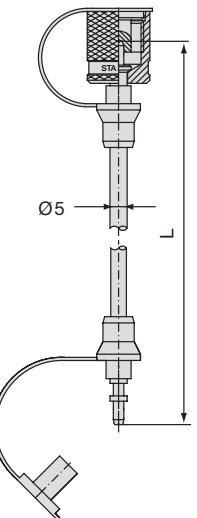
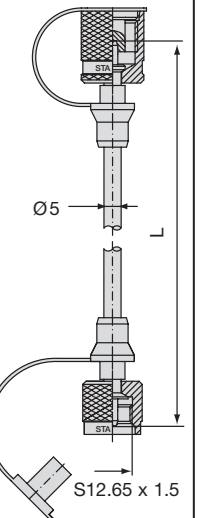
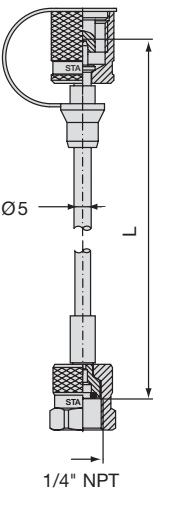
**Type 2**

Order Number	Type	Thread G	H		L		Hex 1		Hex 2	
			mm	in	mm	in	mm	in	mm	in
SSK20-04-ORFS-V	2	9/16" - 18 UNF	75	2.9	36	1.40	22	0.87	22	0.87
SSK20-06-ORFS-V	2	11/16" - 16 UNF	75	2.9	36	1.40	27	1.06	27	1.06
SSK20-08-ORFS-V	2	13/16" - 16 UNF	75	2.9	36	1.40	30	1.20	30	1.20
SMK20-04-ORFS-V	1	9/16" - 18 UNF	54	2.1	19	0.75	17	0.67	17	0.67
SMK20-06-ORFS-V	1	11/16" - 16 UNF	54	2.1	19	0.75	19	0.75	21	0.80
SMK20-08-ORFS-V	1	13/16" - 16 UNF	54	2.1	19	0.75	22	0.87	24	0.87

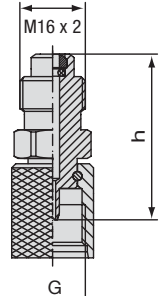
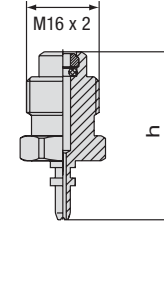
\* For EPDM seals replace "V" with "E"

## Test Hose SMS (for gaseous media Specify Type SGS)

TEST

<div>Max. working pressure 9000 PSI (630 bar)</div> <div>Test hose: Nominal bore 0.08" (2 mm)</div> <div>Minimum bending radius 0.75" (20 mm)</div> <div>Nominal bore 0.16" 4 mm also available</div> <div>Pressure/t° factor: to 0°C 122 % at 30°C 110 % at 50°C 100 % at 80°C 86 % at 100°C 77 %</div> <div>Hose construction: Hose-core and -cover PA</div> <div>Reinforcement: Synthetic fibre</div> <div>Bursting pressure: 27,000 PSI (1900 bar)</div>	<b>Stauff-Test 20/20</b>		<b>Stauff-Test 15/20</b>		<b>Stauff-Test 10/20</b>		<b>Stauff-Test 12/20 <sup>(2)</sup></b>		<b>Stauff-Test 20/N'¼ <sup>(3)</sup></b>		
	STAUFF-TEST 20		STAUFF-TEST 20		STAUFF-TEST 20		STAUFF-TEST 20		STAUFF-TEST 20		
											
	Ø5		Ø5		Ø5		Ø5		Ø5		
	M 16		M 16 x 1.5				S12.65 x 1.5		1/4" NPT		
	STAUFF-TEST 20		STAUFF-TEST 15		STAUFF-TEST 10		STAUFF-TEST 12		GAUGE ADAPTOR		
<b>Length L <sup>(1)</sup></b>		<b>Order No.</b>									
<b>in</b>	<b>mm</b>										
12	305	SMS-20 – 305mm-B	SMS-15/20 – 305mm-B	SMS-10/20 – 305mm-B	SMS-12/20 – 305mm-B	SMS-20/N'¼ – 305mm-B					
24	610	SMS-20 – 610mm-B	SMS-15/20 – 610mm-B	SMS-10/20 – 610mm-B	SMS-12/20 – 610mm-B	SMS-20/N'¼ – 610mm-B					
36	915	SMS-20 – 915mm-B	SMS-15/20 – 915mm-B	SMS-10/20 – 915mm-B	SMS-12/20 – 915mm-B	SMS-20/N'¼ – 915mm-B					
48	1219	SMS-20 – 1219mm-B	SMS-15/20 – 1219mm-B	SMS-10/20 – 1219mm-B	SMS-12/20 – 1219mm-B	SMS-20/N'¼ – 1219mm-B					
60	1524	SMS-20 – 1524mm-B	SMS-15/20 – 1524mm-B	SMS-10/20 – 1524mm-B	SMS-12/20 – 1524mm-B	SMS-20/N'¼ – 1524mm-B					
72	1829	SMS-20 – 1829mm-B	SMS-15/20 – 1829mm-B	SMS-10/20 – 1829mm-B	SMS-12/20 – 1829mm-B	SMS-20/N'¼ – 1829mm-B					
96	2438	SMS-20 – 2438mm-B	SMS-15/20 – 2438mm-B	SMS-10/20 – 2438mm-B	SMS-12/20 – 2438mm-B	SMS-20/N'¼ – 2438mm-B					
120	3048	SMS-20 – 3048mm-B	SMS-15/20 – 3048mm-B	SMS-10/20 – 3048mm-B	SMS-12/20 – 3048mm-B	SMS-20/N'¼ – 3048mm-B					
Custom lengths available on request											
<sup>(1)</sup> Bending protection and other lengths on request			<sup>(2)</sup> Special thread: buttress thread S12,65 x 1,5			<sup>(3)</sup> Gauge adaptor G'¼, G ½ and ½ NPT on request					

## Transition Adaptor SAD

 Type A	 Type B	G	h	Type	Order No.	
					NBR (BUNA)	FPM (VITON)
M16 x 2	M16 x 2	in	mm	A	SAD 20/15-P	SAD 20/15-V
					SAD 20/10-P	SAD 20/10-V
plug in		1.45	37	B		
S12 <sup>1)</sup>		1.53	39	A	SAD 20/12-P	SAD 20/12-V
<sup>1)</sup> Special thread: buttress thread S12,65 x 1,5						

## Bulkhead SSK (for gaseous medium use type SSKK)

G	h		Type	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
M16	72	2.8	A	SSK 20-P	SSK 20-V
M16 x 1.5 <sup>1)</sup>	72	2.8	B	SSK 20/08 S-P	SSK 20/08 S-V
M18 x 1.5 <sup>1)</sup>	72	2.8	B	SSK 20/12 L-P	SSK 20/12 L-V
7/16 UNF (- 4 JIC)	63	2.48	A	N/A	SSK20- 7/16 JIC-MV

<sup>1)</sup> Compression ring assembly 8 S/12 L acc. to DIN 2353

## Gauge Adaptor SMA

G	h		SW	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
G 1/4	54	2.12	19	SMA 20 - G 1/4 - P-OR	SMA 20 - G 1/4 - V-OR
G 1/2	64	2.52	27	SMA 20 - G 1/2 - P-OR	SMA 20 - G 1/2 - V-OR
1/4 NPT	54	2.12	19	SMA 20 - 1/4 NPT-P	SMA 20 - 1/4 NPT-V
1/2 NPT	64	2.52	27	SMA 20 - 1/2 NPT-P	SMA 20 - 1/2 NPT-V

Snubber on request

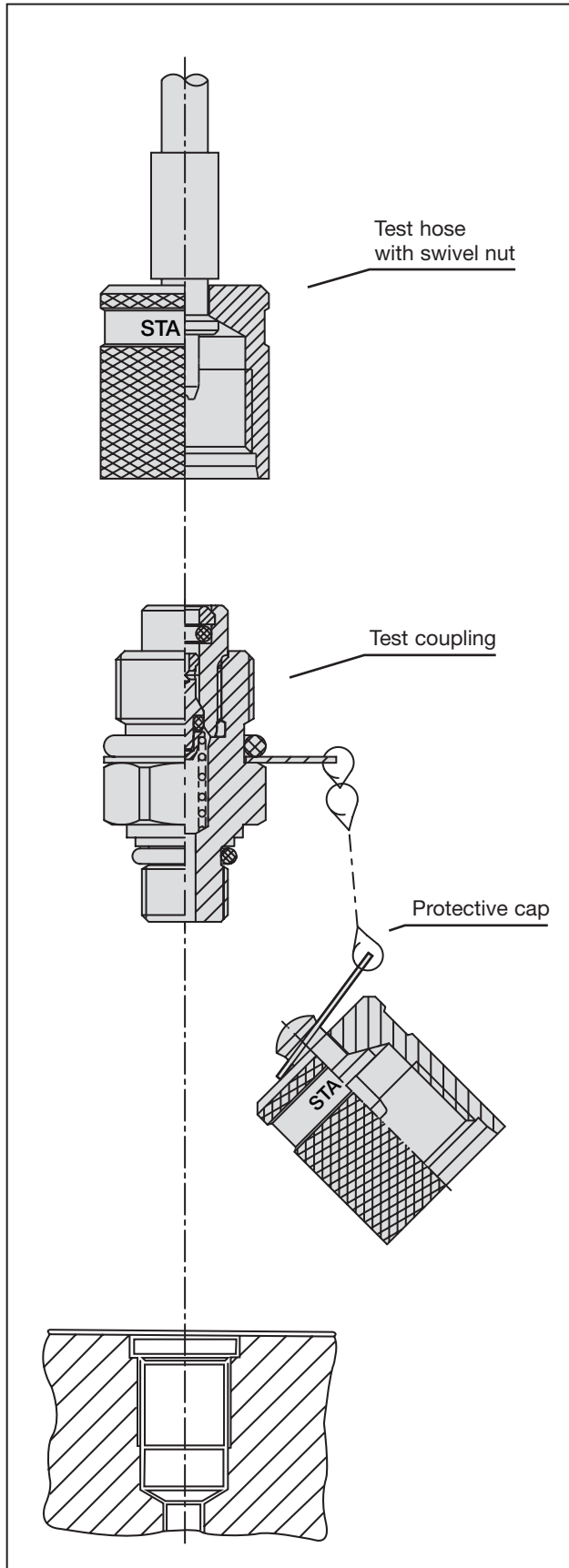
## Direct Gauge Adaptor SMD

G	h		SW	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
G 1/4	41	1.61	19	SMD 20 - G 1/4 - P-OR	SMD 20 - G 1/4 - V-OR
G 1/2	51	2.0	27	SMD 20 - G 1/2 - P-OR	SMD 20 - G 1/2 - V-OR
1/4 NPT	41	1.61	19	SMD 20 - 1/4 NPT-P	SMD 20 - 1/4 NPT
1/2 NPT	51	2.0	27	SMD 20 - 1/2 NPT-P	SMD 20 - 1/2 NPT
				—	SMD 20 - 7/16 UNF
				—	SMD 20 - 9/16 UNF

Snubber on request

## Swivel Run Tees SGV

Order Code Without Test Point									
Thread G	Ød1	Ød1	I1	I2	I3	I4	Hex1	Hex2	Order No.
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	
7/16 – 20 UNF	7.49 .29	4.9 .19	9 .35	14 .55	37 1.46	8 .31	27 1.06	17 .67	SGV 7/16 UNF – 04 – JIC 1/4 F/M
9/16 – 18 UNF	11.05 .44	8.08 .32	10.5 .41	14.1 .56	37.6 1.48	8.5 .33	27 1.06	19 .75	SGV 9/16 UNF – 06 – JIC 3/8 F/M
3/4 – 16 UNF	14.48 .57	10.82 .43	10.5 .41	16.7 .66	48.7 1.92	8.5 .33	27 1.06	22 .87	SGV 3/4 UNF – 08 – JIC 1/2 F/M
Order Code Including Test Point									
including SMK20-7/16 UNF-VE						including SKK20-7/16 UNF-VE			
SMK 20 – 04- JIC 1/4 – F/M-1137						SKK 20 – 04- JIC 1/4 – F/M-1137			
SMK 20 – 06- JIC 3/8 – F/M-1137						SKK 20 – 06- JIC 3/8 – F/M-1137			
SMK 20 – 08- JIC 1/2 – F/M-1137						SKK 20 – 08- JIC 1/2 – F/M-1137			
Other threads available on request.									



## Fast Coupling for:

- Monitoring and control of pressure
- Venting
- Sampling Fluids

## Advantages:

- Coupling at system pressure level
- Connection is leakproof before **piston valve** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap
- Minimizes introduction of contamination to hydraulic systems

## Working Pressure:

- Max. working pressure 9000 PSI (630 bar)  
For SKK type G, K and S the recommended working pressure of fitting manufacturer should be noted
- Connection under pressure up to 5800 PSI (400 bar) max.

## Materials:

- Metal parts: Steel, Stainless Steel on request

- Seals:

### Standard

V = FPM-VITON Temperature range – 4°F to +392°F  
(– 20° C to +200° C)

### Optional

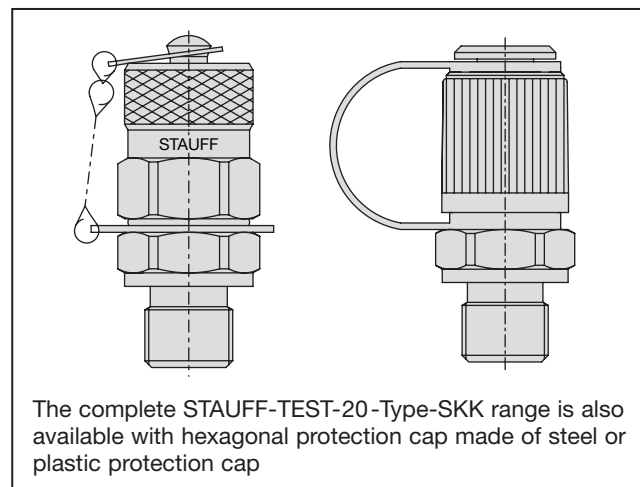
P = NBR-BUNA Temperature range – 4°F to +195°F  
(– 20° C to +90° C)

E = EPDM Ethylene Propylene (for Brake Fluid)  
Temperature range – 40°F to +302°F  
(– 40° C to + 150° C)

- Hose: Polyamide Temperature range –31°F to +212°F  
(–35° C to +100° C)

## Media:

- Suitable for hydraulic oils and other low viscosity mineral based fluids (Check compatibility of seal material)
- For use with other liquid or gaseous media please consult STAUFF for details



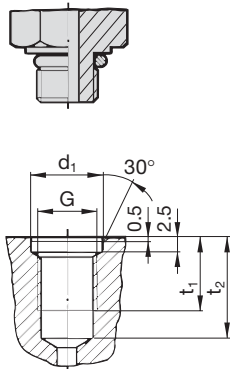
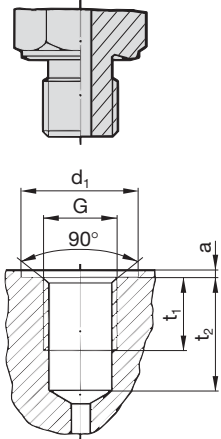
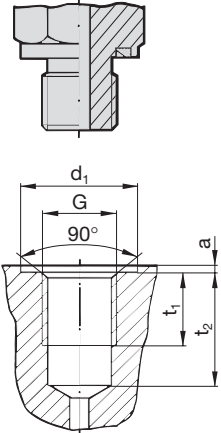
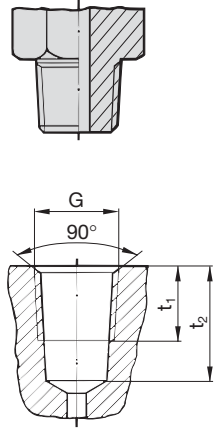
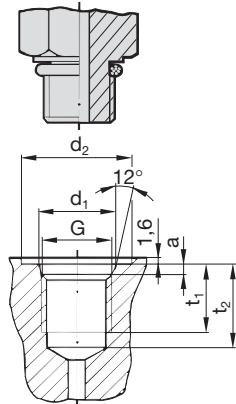


**Test Coupling with Protective Cap SKK**

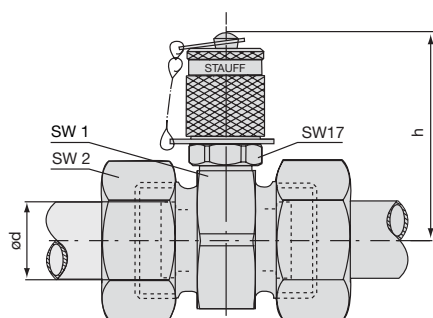
	Thread G	h mm in	Hex mm in	Order No.		Seal Type (see below)
				NBR (BUNA)	FPM (VITON) (Standard)	
	M8 x 1	37 1.45	17 .67	SKK 20 – M8 x 1 – PA	SKK 20 – M8 x 1 – VA	O-Ring Type A
	M10 x 1	37 1.45	17 .67	SKK 20 – M10 x 1 – PA	SKK 20 – M10 x 1 – VA	O-Ring Type A
	M12 x 1,5	37 1.45	17 .67	SKK 20 – M12 x 1,5 – PC	SKK 20 – M12 x 1,5 – VC	O-Ring Type C
	M14 x 1,5	37 1.45	19 .75	SKK 20 – M14 x 1,5 – PB	SKK 20 – M14 x 1,5 – VB	Metal joint Type B
	M16 x 1,5	37 1.45	22 .87	SKK 20 – M16 x 1,5 – PB	SKK 20 – M16 x 1,5 – VB	Metal joint Type B
	G 1/8	39 1.53	17 .67	SKK 20 – G 1/8 – PC	SKK 20 – G 1/8 – VC	O-Ring Type C
	G 1/4	37 1.45	19 .75	SKK 20 – G 1/4 – PB	SKK 20 – G 1/4 – VB	Metal joint Type B
	G 1/4	37 1.45	19 .75	SKK 20 – G 1/4 – PC	SKK 20 – G 1/4 – VC	O-Ring Type C
	G 3/8	37 1.45	22 .87	SKK 20 – G 3/8 – PB	SKK 20 – G 3/8 – VB	Metal joint Type B
	R 1/8 taper	37 1.45	17 .67	SKK 20 – R 1/8 K-PD	SKK 20 – R 1/8 K-VD	Taper Type D
	R 1/4 taper	36 1.41	17 .67	SKK 20 – R 1/4 K-PD	SKK 20 – R 1/4 K-VD	Taper Type D
	1/8 NPT	36 1.41	17 .67	SKK 20 – 1/8 NPT-PD	SKK 20 – 1/8 NPT-VD	Taper Type D
	1/4 NPT	35 1.38	17 .67	SKK 20 – 1/4 NPT-PD	SKK 20 – 1/4 NPT-VD	Taper Type D
	5/16 – 24 UNF	38 1.50	17 .67	SKK 20 – 5/16 UNF-PE	SKK 20 – 5/16 UNF-VE	O-Ring Type E
	7/16 – 20 UNF	38 1.50	17 .67	SKK 20 – 7/16 UNF-PE	SKK 20 – 7/16 UNF-VE	O-Ring Type E
	1/2 – 20 UNF	38 1.50	17 .67	SKK 20 – 1/2 UNF-PE	SKK 20 – 1/2 UNF-VE	O-Ring Type E
	9/16 – 18 UNF	37 1.45	19 .75	SKK 20 – 9/16 UNF-PE	SKK 20 – 9/16 UNF-VE	O-Ring Type E

To order hexagonal protection cap, add "SK" to part number. To order Plastic Protection cap, add "KK" to part number.  
Other port connections and seals on request.

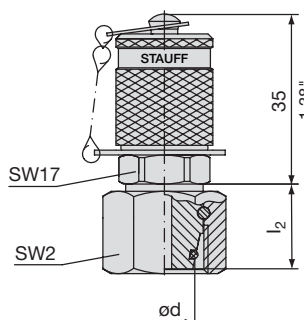
**Port Connections and Seals**

Type A	Type B	Type C	Type D	Type E (ISO 6149)																		
																						
<b>G</b> mm in	<b>d1</b> mm in	<b>t1</b> mm in	<b>t2</b> mm in	<b>G</b> mm in	<b>d1</b> mm in	<b>t1</b> mm in	<b>t2</b> mm in	<b>a</b> mm in	<b>G</b> mm in	<b>d1</b> mm in	<b>t1</b> mm in	<b>t2</b> mm in	<b>a</b> mm in	<b>G</b> mm in	<b>t1</b> mm in	<b>t2</b> mm in	<b>G</b> mm in	<b>d1</b> mm in	<b>d2</b> mm in	<b>t1</b> mm in	<b>t2</b> mm in	<b>a</b> mm in
M8 x 1	9,5 + 0,1 0,37	11 0,43	15,5 0,61	M14 x 1,5	20 0,79	12 0,47	18,5 0,73	1,5 0,06	M12 x 1,5	18 0,71	12 0,47	18,5 0,73	1,5 0,06	R 1/8 taper	5,5 0,22	9,5 0,37	5/16 – 24 UNF	9,1 0,36	17 0,67	10 0,39	12 0,47	1,9 0,07
M10 x 1	11,5 + 0,1 0,45	12 0,47	16,5 0,65	M16 x 1,5	22 0,87	12 0,47	18,5 0,73	1,5 0,06	G 1/8	15 0,59	8 0,31	13 0,51	1,0 0,04	R 1/4 taper	8,5 0,33	13,5 0,53	7/16 – 20 UNF	12,4 0,49	21 0,83	11,5 0,45	14 0,55	2,4 0,09
				G 1/4	19 0,75	12 0,47	18,5 0,73	1,5 0,06	G 1/4	19 0,75	12 0,47	18,5 0,73	1,5 0,06	1/8 NPT	6,9 0,27	11,6 0,46	1/2 – 20 UNF	14 0,55	23 0,91	11,5 0,45	14 0,55	2,4 0,09
				G 3/8	23 0,91	12 0,47	18,5 0,73	1,5 0,06						1/4 NPT	10 0,39	16,4 0,65	9/16 – 18 UNF	15,6 0,61	25 0,98	12,7 0,50	15,5 0,61	2,5 0,10

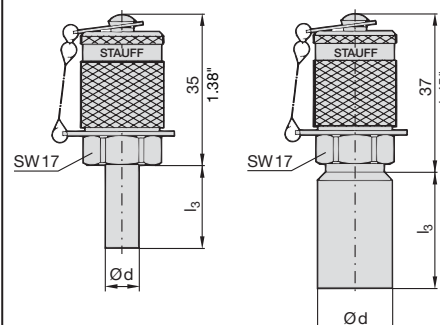
## Test Coupling SKK (compression ring fittings acc. to DIN 2353) - Metric Tubing



**Type G** Test coupling complete with straight fitting



**Type K** Test coupling for 24° cone fittings

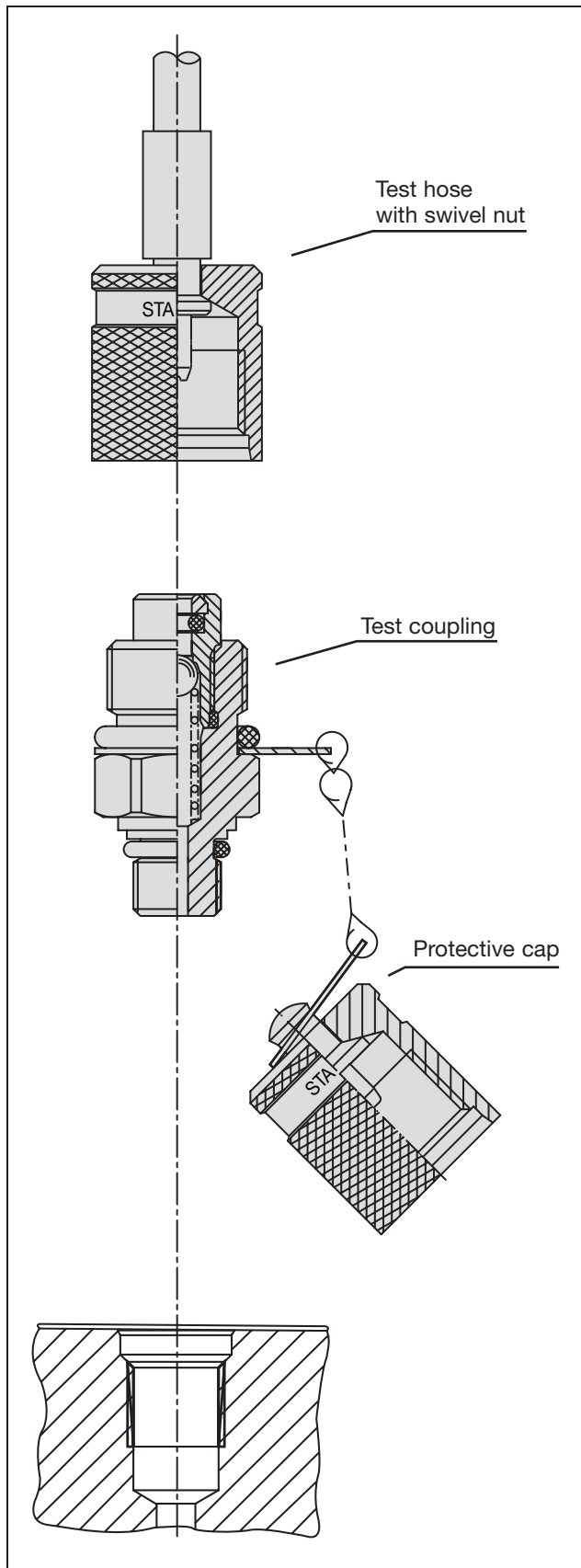


**Type S** Test coupling for compression ring assembly

Series	PN PSI (Bar)	Pipe Ød	l <sub>2</sub>		l <sub>3</sub>		h		SW 1		SW 2		Order No.*		
			mm	in	mm	in	mm	in	mm	in	mm	in	Type G	Type K	Type S
L	4500 (315)	6	15,5	0.61	20	0.79	49	1.93	24	0.94	14	0.55	SKK 20 – 6L-VG	SKK 20 – 6L-VK	SKK 20 – 6-VS
		8	15,5	0.61	20	0.79	49	1.93	24	0.94	17	0.67	SKK 20 – 8L-VG	SKK 20 – 8L-VK	SKK 20 – 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	19	0.75	SKK 20 – 10L-VG	SKK 20 – 10L-VK	SKK 20 – 10-VS
		12	17,5	0.69	22	0.87	50	1.97	27	1.06	22	0.87	SKK 20 – 12L-VG	SKK 20 – 12L-VK	SKK 20 – 12-VS
		15	21	0.83	25	0.98	52	2.05	30	1.18	27	1.06	SKK 20 – 15L-VG	SKK 20 – 15L-VK	SKK 20 – 15-VS
		18	19,5	0.77	28	1.10	53	2.09	32	1.26	32	1.26	SKK 20 – 18L-VG	SKK 20 – 18L-VK	SKK 20 – 18-VS
	2300 (160)	22	20,5	0.81	30	1.18	55	2.17	36	1.42	36	1.42	SKK 20 – 22L-VG	SKK 20 – 22L-VK	SKK 20 – 22-VS
		28	25	0.98	32	1.26	57,5	2.26	41	1.61	41	1.61	SKK 20 – 28L-VG	SKK 20 – 28L-VK	SKK 20 – 28-VS
		35	30	1.18	42	1.65	60	2.36	46	1.81	50	1.97	SKK 20 – 35L-VG	SKK 20 – 35L-VK	SKK 20 – 35-VS
		42	31	1.22	45	1.77	64,5	2.54	55	2.17	60	2.36	SKK 20 – 42L-VG	SKK 20 – 42L-VK	SKK 20 – 42-VS
S	9100 (630)	6	14,5	0.57	20	0.79	49	1.93	24	0.94	17	0.67	SKK 20 – 6S-VG	SKK 20 – 6S-VK	SKK 20 – 6-VS
		8	16,5	0.65	20	0.79	49	1.93	24	0.94	19	0.75	SKK 20 – 8S-VG	SKK 20 – 8S-VK	SKK 20 – 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	22	0.87	SKK 20 – 10S-VG	SKK 20 – 10S-VK	SKK 20 – 10-VS
		12	17,5	0.69	22	0.87	49	1.93	24	0.94	24	0.94	SKK 20 – 12S-VG	SKK 20 – 12S-VK	SKK 20 – 12-VS
		14	19,5	0.77	22	0.87	50,5	1.99	27	1.06	27	1.06	SKK 20 – 14S-VG	SKK 20 – 14S-VK	SKK 20 – 14-VS
	5800 (400)	16	18	0.71	28	1.10	52	2.05	30	1.18	30	1.18	SKK 20 – 16S-VG	SKK 20 – 16S-VK	SKK 20 – 16-VS
		20	24	0.94	30	1.18	55	2.17	36	1.42	36	1.42	SKK 20 – 20S-VG	SKK 20 – 20S-VK	SKK 20 – 20-VS
		25	26	1.02	36	1.42	57,5	2.26	41	1.61	46	1.81	SKK 20 – 25S-VG	SKK 20 – 25S-VK	SKK 20 – 25-VS
		30	30	1.18	41	1.61	60	2.36	46	1.81	50	1.97	SKK 20 – 30S-VG	SKK 20 – 30S-VK	SKK 20 – 30-VS
	4500 (315)	38	34	1.34	48	1.89	64,5	2.54	55	2.17	60	2.36	SKK 20 – 38S-VG	SKK 20 – 38S-VK	SKK 20 – 38-VS

\* For ordering BUNA seals please replace "V" with "P"

\* For EPDM seals replace "V" with "E"



Upon request TEST 15 couplings are available as SKK-type

## Fast Coupling for:

- Monitoring and control of pressure
- Venting
- Sampling Fluids

## Advantages:

- Coupling at system pressure level
- Connection is leakproof before **ball valve** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

## Working Pressure:

- Max. working pressure 9000 PSI (630 bar)  
For SMK type G, K and S the recommended working pressure of fitting manufacturer should be noted
- Connection under pressure up to 5800 PSI (400 bar) max.

## Materials:

- Metal parts: Steel, Stainless Steel on request
- Ball: Stainless Steel
- Seals:

### Standard

V = FPM-VITON Temperature range – 4°F to +392°F  
(– 20°C to +200°C)

### Optional

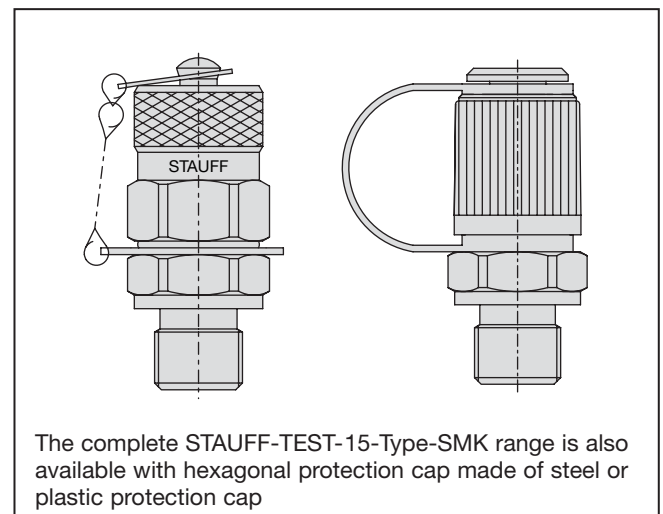
P = NBR-BUNA Temperature range – 4°F to +195°F  
(– 20°C to +90°C)

E = EPDM Ethylene Propylene (for Brake Fluid)  
Temperature range – 40°F to +302°F  
(– 40°C to + 150°C)

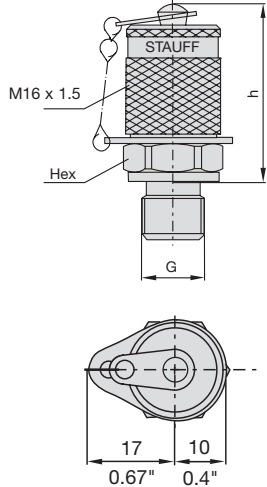
- Hose: Polyamide Temperature range –31°F to +212°F  
(–35°C to +100°C)

## Media:

- Suitable for hydraulic oils and other mineral based fluids (check compatibility of seal material)
- For use with low viscosity fluids or gaseous media, please consult STAUFF for details

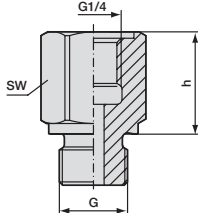


## Test Coupling with Protective Cap SMK

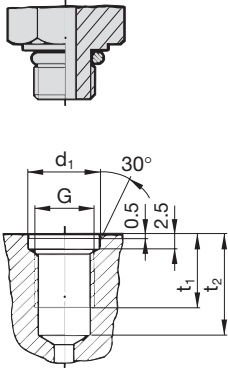
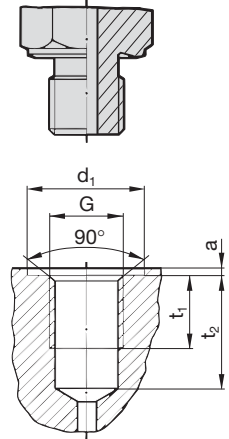
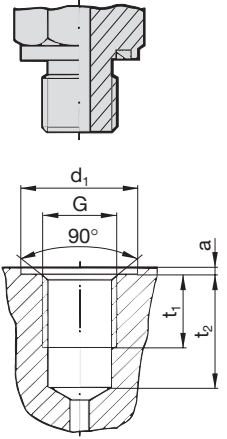
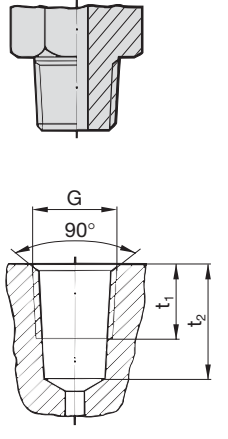
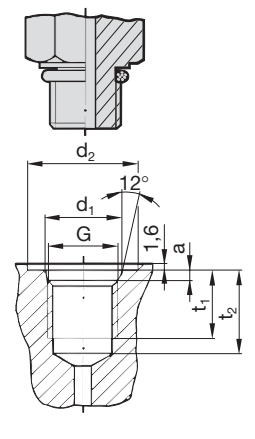
	Thread G	h		SW		Order No.		Seal
		mm	in	mm	in	NBR (BUNA)	FPM (VITON) (Standard)	
	M10 x 1	37	1.46	17	0.67	SMK 15 – M10 x 1 – PA	SMK 15 – M10 x 1 – VA	O-Ring Type A
	M14 x 1,5	37	1.46	19	0.75	SMK 15 – M14 x 1,5 – PB	SMK 15 – M14 x 1,5 – VB	Metal joint Type B
	M16 x 1,5	37	1.46	22	0.87	SMK 15 – M16 x 1,5 – PB	SMK 15 – M16 x 1,5 – VB	Metal joint Type B
	G 1/4	37	1.46	19	0.75	SMK 15 – G 1/4 – PB	SMK 15 – G 1/4 – VB	Metal joint Type B
	G 1/4	37	1.46	19	0.75	SMK 15 – G 1/4 – PC	SMK 15 – G 1/4 – VC	O-Ring Type C
	G 3/8	37	1.46	22	0.87	SMK 15 – G 3/8 – PB	SMK 15 – G 3/8 – VB	Metal joint Type B
	R 1/4 taper	36	1.42	17	0.67	SMK 15 – R 1/4 K-PD	SMK 15 – R 1/4 K-VD	Taper Type D
	1/4 NPT	35	1.38	17	0.67	SMK 15 – 1/4 NPT-PD	SMK 15 – 1/4 NPT-VD	Taper Type D
	9/16 – 18 UNF	37	1.46	19	0.75	SMK 15 – 9/16 UNF-PE	SMK 15 – 9/16 UNF-VE	O-Ring Type E

Other port connections and seals on request.

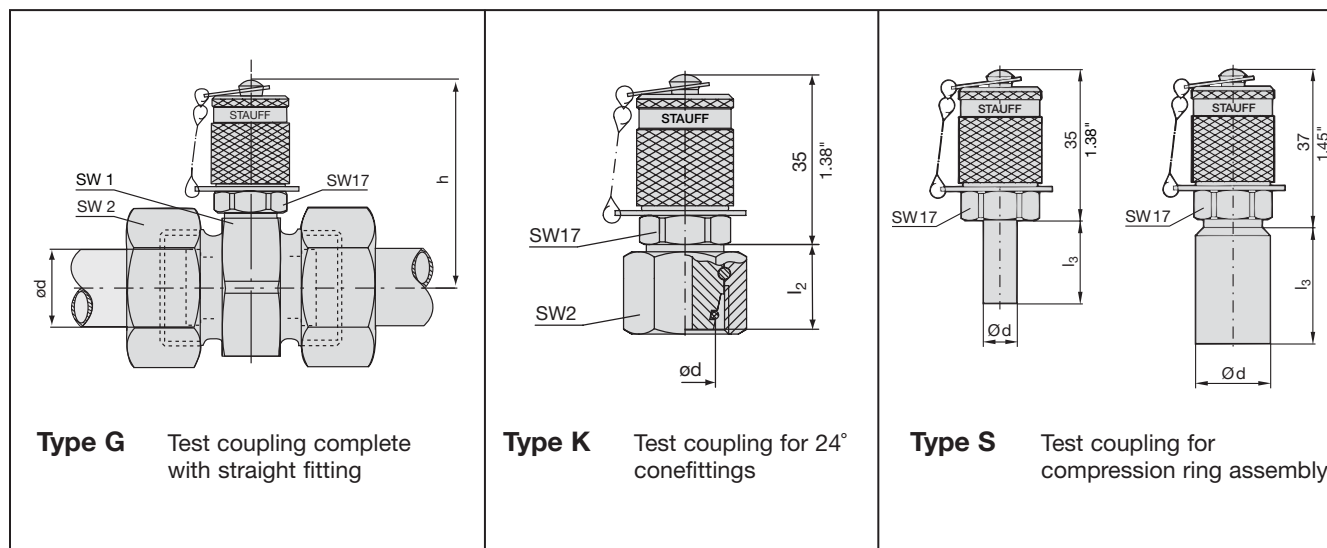
## Thread Adaptor SRS

	Thread G	h		SW		Order No.	Seal
		mm	in	mm	in		
	M18 x 1,5	24	0.94	24	0.94	SRS 15 – M18 x 1,5-B	Metal joint DIN 3852 Type B
	M20 x 1,5	10,5	0.41	27	1.06	SRS 15 – M20 x 1,5-B	
	G 3/8	24	0.94	22	0.87	SRS 15 – G 3/8-B	
	G 1/2	10,5	0.41	27	1.06	SRS 15 – G 1/2-B	

## Port Connections and Seals

Type A	Type B	Type C	Type D	Type E (ISO 6149)																			
																							
G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	a	G	d <sub>1</sub>	t <sub>1</sub>	t <sub>2</sub>	a	G	t <sub>1</sub>	t <sub>2</sub>	G	d <sub>1</sub>	d <sub>2</sub>	t <sub>1</sub>	t <sub>2</sub>	a	
	mm in	mm in	mm in		mm in	mm in	mm in	mm in		mm in	mm in	mm in	mm in		mm in	mm in	mm in		mm in	mm in	mm in	mm in	mm in
M10 x 1	11.5 +0.1 0.45	12	16.5	M14 x 1,5	20	12	18.5	1.5															
					0.79	0.47	0.73	0.06															
				M16 x 1,5	22	12	18.5	1.5															0.87
				G 1/4	19	12	18.5	1.5	G 1/4	19	12	18.5	1.5	R 1/4 taper	8.5	13.5							
					0.75	0.47	0.73	0.06		0.75	0.47	0.73	0.06		0.33	0.53							
				G 3/8	23	12	18.5	2.0						1/4 NPT	10	16.4		9/16 – 18 UNF	15.6	25	12.7	15.5	2.5
					0.91	0.47	0.73	0.08							0.39	0.65			0.61	0.98	0.50	0.61	0.10

## Test Coupling SMK (compression ring fittings acc. to DIN 2353) - Metric Tubing



Series	PN* PSI (Bar)	Pipe Ød	l <sub>2</sub>		l <sub>3</sub>		h		SW 1		SW 2		Order No.*		
			mm	in	mm	in	mm	in	mm	in	mm	in	Type G	Type K	Type S
L	4500 (315)	6	15,5	0.61	20	0.79	49	1.93	24	0.94	14	0.55	SMK 15 – 6L-VG	SMK 15 – 6L-VK	SMK 15 – 6-VS
		8	15,5	0.61	20	0.79	49	1.93	24	0.94	17	0.67	SMK 15 – 8L-VG	SMK 15 – 8L-VK	SMK 15 – 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	19	0.75	SMK 15 – 10L-VG	SMK 15 – 10L-VK	SMK 15 – 10-VS
		12	17,5	0.69	22	0.87	50,5	1.99	27	1.06	22	0.87	SMK 15 – 12L-VG	SMK 15 – 12L-VK	SMK 15 – 12-VS
		15	21	0.83	25	0.98	52	2.05	30	1.18	27	1.06	SMK 15 – 15L-VG	SMK 15 – 15L-VK	SMK 15 – 15-VS
		18	19,5	0.77	28	1.10	53	2.09	32	1.26	32	1.26	SMK 15 – 18L-VG	SMK 15 – 18L-VK	SMK 15 – 18-VS
	2300 (160)	22	20,5	0.81	30	1.18	55	2.17	36	1.42	36	1.42	SMK 15 – 22L-VG	SMK 15 – 22L-VK	SMK 15 – 22-VS
		28	25	0.98	32	1.26	57,5	2.26	41	1.61	41	1.61	SMK 15 – 28L-VG	SMK 15 – 28L-VK	SMK 15 – 28-VS
		35	30	1.18	42	1.65	60	2.36	46	1.81	50	1.97	SMK 15 – 35L-VG	SMK 15 – 35L-VK	SMK 15 – 35-VS
		42	31	1.22	45	1.77	64,5	2.54	55	2.17	60	2.36	SMK 15 – 42L-VG	SMK 15 – 42L-VK	SMK 15 – 42-VS
S	9000 (630)	6	14,5	0.57	20	0.79	49	1.93	24	0.94	17	0.67	SMK 15 – 6S-VG	SMK 15 – 6S-VK	SMK 15 – 6-VS
		8	16,5	0.65	20	0.79	49	1.93	24	0.94	19	0.75	SMK 15 – 8S-VG	SMK 15 – 8S-VK	SMK 15 – 8-VS
		10	16,5	0.65	22	0.87	49	1.93	24	0.94	22	0.87	SMK 15 – 10S-VG	SMK 15 – 10S-VK	SMK 15 – 10-VS
		12	17,5	0.69	22	0.87	49	1.93	24	0.94	24	0.94	SMK 15 – 12S-VG	SMK 15 – 12S-VK	SMK 15 – 12-VS
		14	19,5	0.77	22	0.87	50,5	1.99	27	1.06	27	1.06	SMK 15 – 14S-VG	SMK 15 – 14S-VK	SMK 15 – 14-VS
	5800 (400)	16	18	0.71	28	1.10	52	2.05	30	1.18	30	1.18	SMK 15 – 16S-VG	SMK 15 – 16S-VK	SMK 15 – 16-VV
		20	24	0.94	30	1.18	55	2.17	36	1.42	36	1.42	SMK 15 – 20S-VG	SMK 15 – 20S-VK	SMK 15 – 20-PS
		25	26	1.02	36	1.42	57,5	2.26	41	1.61	46	1.81	SMK 15 – 25S-VG	SMK 15 – 25S-VK	SMK 15 – 25-VS
		30	30	1.18	41	1.61	60	2.36	46	1.81	50	1.97	SMK 15 – 30S-VG	SMK 15 – 30S-VK	SMK 15 – 30-VS
	4500 (315)	38	34	1.34	48	1.89	64,5	2.54	55	2.17	60	2.36	SMK 15 – 38S-VG	SMK 15 – 38S-VK	SMK 15 – 38-VS

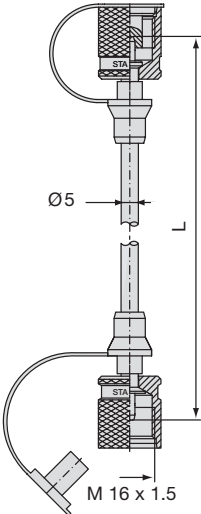
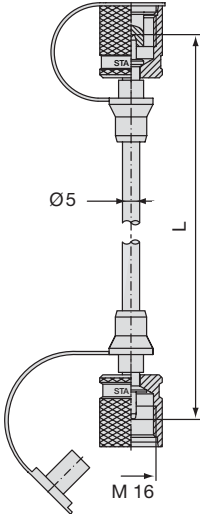
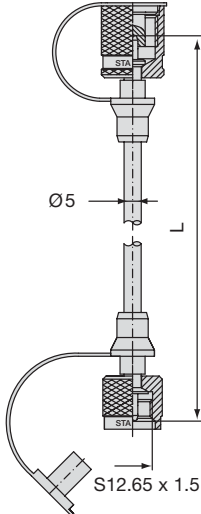
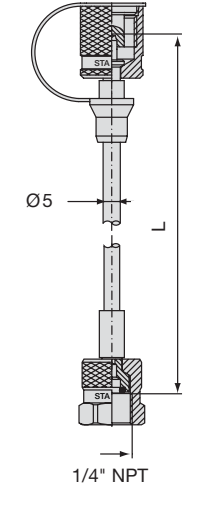
\* Working pressure

\* For EPDM seals replace "V" with "E"

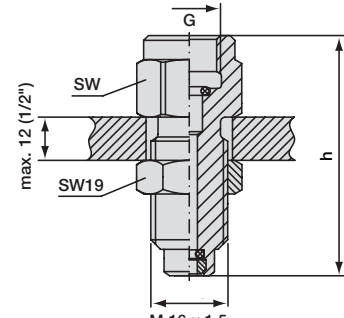


## Test Hose SMS (for gaseous media Specify Type SGS)

TEST

<div>Max. working pressure 9000 PSI (630 bar)</div> <div>Test hose: Nominal bore 0.08" (2 mm)</div> <div>Minimum bending radius 0.75" (20 mm)</div> <div>Pressure/t° factor:  to 0°C 122 % at 30°C 110 % at 50°C 100 % at 80°C 86 % at 100°C 77 %</div> <div>Hose construction: Hose-core and -cover PA</div> <div>Reinforcement: Synthetic fibre</div> <div>Bursting pressure: 27,000 PSI (1900 bar)</div>		<div>Stauff-Test 15/15</div> <div></div> <div>STAUFF-TEST 15</div>		<div>Stauff-Test 15/20</div> <div></div> <div>STAUFF-TEST 20</div>		<div>Stauff-Test 12/15<sup>(2)</sup></div> <div></div> <div>STAUFF-TEST 12</div>		<div>Stauff-Test 15/N 1/4<sup>(3)</sup></div> <div></div> <div>GAUGE ADAPTOR</div>	
		<div>Length L<sup>(1)</sup></div> <div><div>in</div><div>mm</div></div>		<div>Order No.</div>					
		12	305	SMS-15-305mm-B	SMS-15/20-305mm-B	SMS-12/15-305mm-B	SMS-15/N'¼-305mm-B		
		24	610	SMS-15-610mm-B	SMS-15/20-610mm-B	SMS-12/15-610mm-B	SMS-15/N'¼-610mm-B		
		36	915	SMS-15-915mm-B	SMS-15/20-915mm-B	SMS-12/15-915mm-B	SMS-15/N'¼-915mm-B		
48	1219	SMS-15-1219mm-B	SMS-15/20-1219mm-B	SMS-12/15-1219mm-B	SMS-15/N'¼-1219mm-B				
60	1524	SMS-15-1524mm-B	SMS-15/20-1524mm-B	SMS-12/15-1524mm-B	SMS-15/N'¼-1524mm-B				
72	1829	SMS-15-1829mm-B	SMS-15/20-1829mm-B	SMS-12/15-1829mm-B	SMS-15/N'¼-1829mm-B				
96	2438	SMS-15-2438mm-B	SMS-15/20-2438mm-B	SMS-12/15-2438mm-B	SMS-15/N'¼-2438mm-B				
120	3048	SMS-15-3048mm-B	SMS-15/20-3048mm-B	SMS-12/15-3048mm-B	SMS-15/N'¼-3048mm-B				
<div>Custom lengths available on request</div>									
<div><sup>(1)</sup> Bending protection and other lengths on request</div>		<div><sup>(2)</sup> Special thread: buttress thread S 12,65 x 1,5</div>			<div><sup>(3)</sup> Gauge adaptor G 1/4, G 1/2 and 1/2 NPT on request</div>				

## Gauge Adaptor SMA

 <p>max. 12 (1/2")</p> <p>SW19</p> <p>M 16 x 1.5</p> <p>Through-hole Ø 18 mm</p>	<b>G</b>	<b>h</b> mm	<b>SW</b> mm	<b>Order No.</b>	
				<b>NBR (BUNA)</b>	<b>FPM (VITON) (Standard)</b>
	G 1/4	54 2.13	19 0.75	SMA 15 - G 1/4 - P-OR	SMA 15 - G 1/4 - V-OR
	G 1/2	64 2.52	27 1.06	SMA 15 - G 1/2 - P-OR	SMA 15 - G 1/2 - V-OR
	1/4 NPT	54 2.13	19 0.75	SMA 15 - 1/4 NPT-P	SMA 15 - 1/4 NPT-V
	1/2 NPT	64 2.52	27 1.06	SMA 15 - 1/2 NPT-P	SMA 15 - 1/2 NPT-V
Damping element on request					

**Bulkhead SSK** (for gaseous media use Type SSKK)

G	h		Type	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
M 16 x 1,5	72	2.83	A	SSK 15-P	SSK 15-V
M 16 x 1,5 <sup>1)</sup>	72	2.83	B	SSK 15/08 S-P	SSK 15/08 S-V

<sup>1)</sup> Compression ring assembly 8 S acc. to DIN 2353

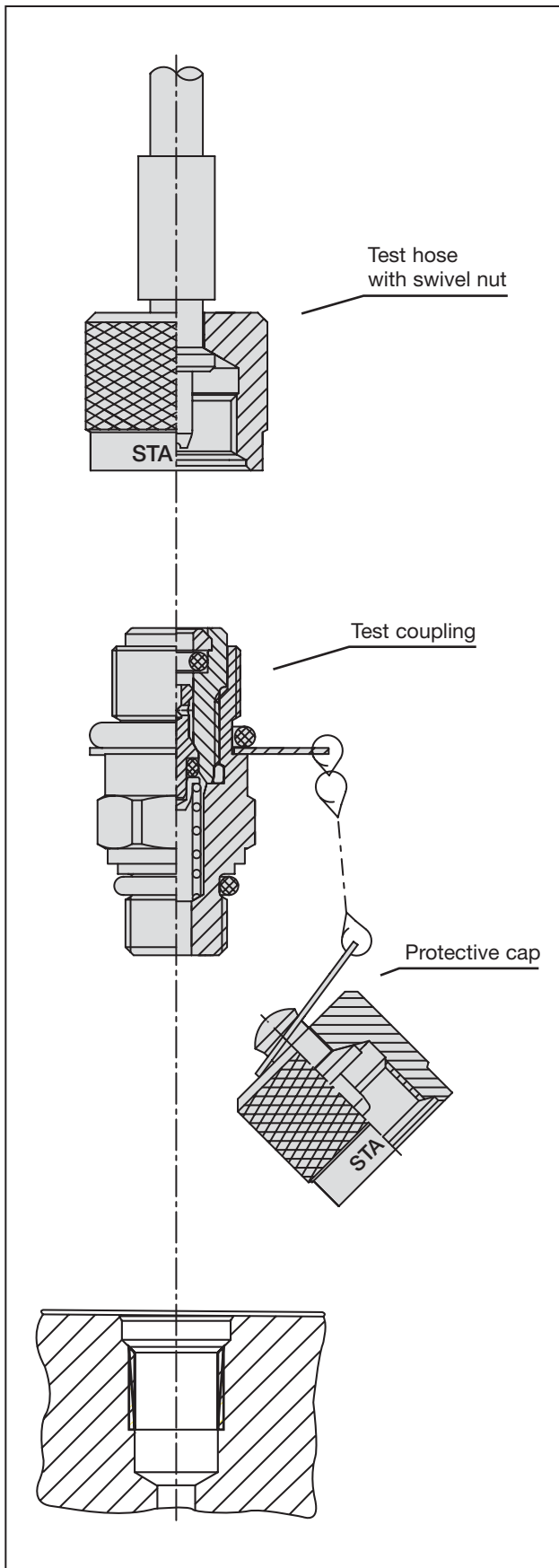
**Direct Gauge Adaptor SMD**

G	h		SW	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
G 1/4	41	1.61	19	SMD 15 - G 1/4 - P-OR	SMD 15 - G 1/4 - V-OR
G 1/2	51	2.01	27	SMD 15 - G 1/2 - P-OR	SMD 15 - G 1/2 - V-OR
1/4 NPT	41	1.61	19	SMD 15 - 1/4 NPT-P	SMD 15 - 1/4 NPT
1/2 NPT	51	2.01	27	SMD 15 - 1/2 NPT-P	SMD 15 - 1/2 NPT

Damping element upon request

**Swivel Run Tees SGV**

Order Code Without Test Point									
Thread G	Ød1	Ød1	l1	l2	l3	l4	Hex1	Hex2	Order No.
	mm	mm	mm	mm	mm	mm	mm	mm	
7/16 - 20 UNF	7.49	4.9	9	14	37	8	27	17	SGV 7/16 UNF - 04 - JIC 1/4 F/M
9/16 - 18 UNF	11.05	8.08	10.5	14.1	37.6	8.5	27	19	SGV 9/16 UNF - 06 - JIC 3/8 F/M
3/4 - 16 UNF	14.48	10.82	10.5	16.7	48.7	8.5	27	22	SGV 3/4 UNF - 08 - JIC 1/2 F/M
Order Code Including Test Point (SMK 15 - 7/16 UNF - VE)									
SMK 15 - 04- JIC 1/4 - F/M-1137									
SMK 15 - 06- JIC 3/8 - F/M-1137									
SMK 15 - 08- JIC 1/2 - F/M-1137									
Other threads available upon request.									



### Fast Coupling for:

- Monitoring and control of pressure
- Venting
- Sampling Fluids

### Advantages:

- Coupling at system pressure level
- Connection is leakproof before **piston valve** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

### Working Pressure:

- Max. working pressure 9000 PSI (630 bar)  
For SKK type G, K and S the recommended working pressure of fitting manufacturer should be noted
- Connection under pressure up to 5800 PSI (400 bar) max.

### Materials:

- Metal parts: Steel, Stainless Steel on request
- Seals:

#### Standard

V = FPM-VITON Temperature range – 4°F to + 392°F  
(– 20°C to + 200°C)

#### Optional

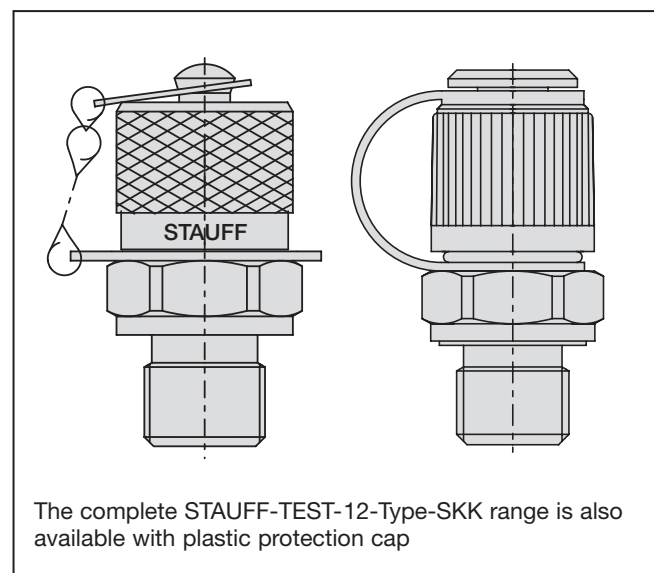
P = NBR-BUNA Temperature range – 4°F to + 195°F  
(– 20°C to + 90°C)

E = EPDM Ethylene Propylene (for Brake Fluid)  
Temperature range – 40°F to + 302°F  
(– 40°C to + 150°C)

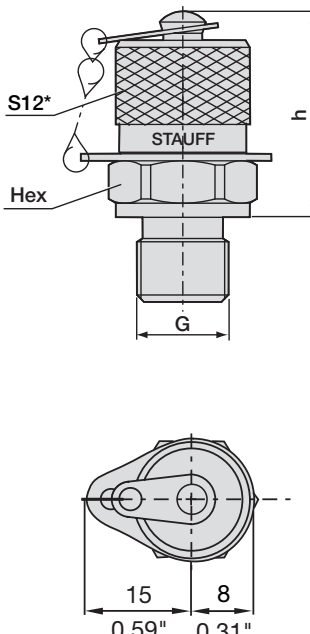
- Hose: Polyamide Temperature range – 31°F to + 212°F  
(– 35°C to + 100°C)

### Media:

- Suitable for hydraulic oils and other low viscosity mineral oil based fluids (check compatibility of seal material)
- For use with other liquid or gaseous media, please consult STAUFF for details



## Test Coupling with Protective Cap SKK

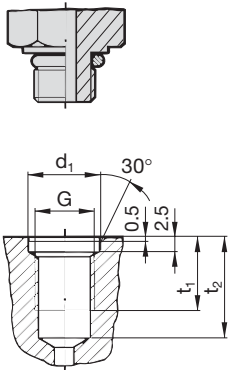
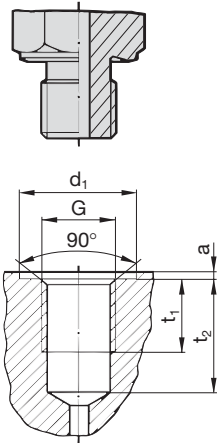
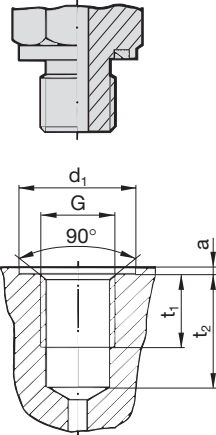
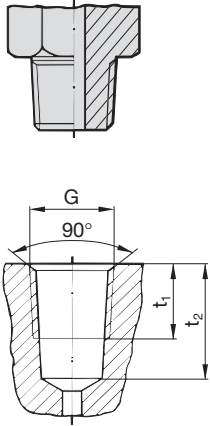
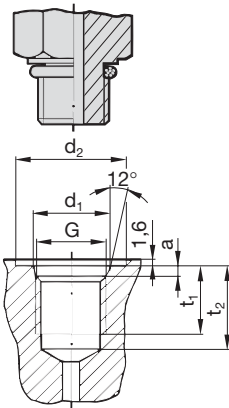
	Thread G	h	Hex	Order No.		Seal
		mm	mm	NBR (BUNA)	FPM (VITON) (Standard)	
		in	in			
	M8 x 1	37 1.46	14 0.55	SKK 12 – M8 x 1 – PA	SKK 12 – M8 x 1 – VA	O-Ring Type A
	M10 x 1	34 1.34	14 0.55	SKK 12 – M10 x 1 – PA	SKK 12 – M10 x 1 – VA	O-Ring Type A
	M12 x 1,5	31 1.22	17 0.67	SKK 12 – M12 x 1,5 – PC	SKK 12 – M12 x 1,5 – VC	O-Ring Type C
	M14 x 1,5	31 1.22	19 0.75	SKK 12 – M14 x 1,5 – PB	SKK 12 – M14 x 1,5 – VB	Metal joint Type B
	M16 x 1,5	31 1.22	22 0.87	SKK 12 – M16 x 1,5 – PB	SKK 12 – M16 x 1,5 – VB	Metal joint Type B
	G 1/8	40 1.57	14 0.55	SKK 12 – G 1/8 – PC	SKK 12 – G 1/8 – VC	O-Ring Type C
	G 1/4	31 1.22	19 0.75	SKK 12 – G 1/4 – PB	SKK 12 – G 1/4 – VB	Metal joint Type B
	G 1/4	31 1.22	19 0.75	SKK 12 – G 1/4 – PC	SKK 12 – G 1/4 – VC	O-Ring Type C
	G 3/8	31 1.22	22 0.87	SKK 12 – G 3/8 – PB	SKK 12 – G 3/8 – VB	Metal joint Type B
	R 1/8 taper	33 1.30	14 0.55	SKK 12 – R 1/8 K-PD	SKK 12 – R 1/8 K-VD	Taper Type D
	R 1/4 taper	30 1.18	14 0.55	SKK 12 – R 1/4 K-PD	SKK 12 – R 1/4 K-VD	Taper Type D
	1/8 NPT	33 1.30	14 0.55	SKK 12 – 1/8 NPT-PD	SKK 12 – 1/8 NPT-VD	Taper Type D
	1/4 NPT	28 1.10	14 0.55	SKK 12 – 1/4 NPT-PD	SKK 12 – 1/4 NPT-VD	Taper Type D
	5/16 – 24 UNF	34,5 1.36	17 0.67	SKK 12 – 5/16 UNF-PE	SKK 12 – 5/16 UNF-VE	O-Ring Type E
	7/16 – 20 UNF	33 1.30	17 0.67	SKK 12 – 7/16 UNF-PE	SKK 12 – 7/16 UNF-VE	O-Ring Type E
	1/2 – 20 UNF	32 1.26	17 0.67	SKK 12 – 1/2 UNF-PE	SKK 12 – 1/2 UNF-VE	O-Ring Type E
	9/16 – 18 UNF	32 1.26	19 0.75	SKK 12 – 9/16 UNF-PE	SKK 12 – 9/16 UNF-VE	O-Ring Type E

\* Special thread:  
butress thread S12.65 x 1.5

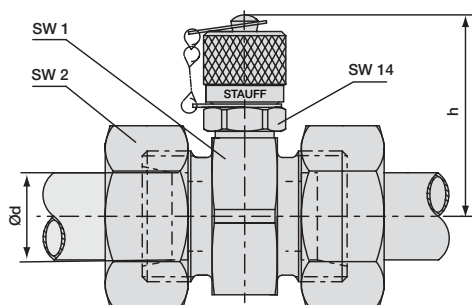
\* Special thread:  
butterfly thread S12.65 x 1.5

Other port connections and seals available upon request.

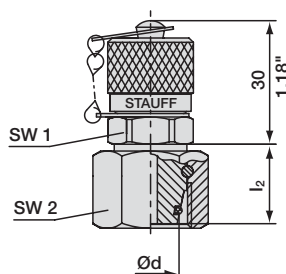
## Port Connections and Seals

Type A	Type B	Type C	Type D	Type E (ISO 6149)																		
																						
<b>G</b> mm in	<b>d<sub>1</sub></b> mm in	<b>t<sub>1</sub></b> mm in	<b>t<sub>2</sub></b> mm in	<b>G</b> mm in	<b>d<sub>1</sub></b> mm in	<b>t<sub>1</sub></b> mm in	<b>t<sub>2</sub></b> mm in	<b>a</b> mm in	<b>G</b> mm in	<b>d<sub>1</sub></b> mm in	<b>t<sub>1</sub></b> mm in	<b>t<sub>2</sub></b> mm in	<b>a</b> mm in	<b>G</b> mm in	<b>t<sub>1</sub></b> mm in	<b>t<sub>2</sub></b> mm in	<b>G</b> mm in	<b>d<sub>1</sub></b> mm in	<b>d<sub>2</sub></b> mm in	<b>t<sub>1</sub></b> mm in	<b>t<sub>2</sub></b> mm in	<b>a</b> mm in
M8 x 1	9,5 + 0,1 0.37	11 0.43	15,5 0.61	M14 x 1,5	20 0.79	12 0.47	18,5 0.73	1,5 0.06	M12 x 1,5	18 0.71	12 0.47	18,5 0.73	1,5 0.06	R 1/8 taper	5,5 0.22	9,5 0.37	5/16 – 24 UNF	9,1 0.36	17 0.67	10 0.39	12 0.47	1,9 0.07
M10 x 1	11,5 + 0,1 0.45	12 0.47	16,5 0.65	M16 x 1,5	22 0.87	12 0.47	18,5 0.73	1,5 0.06	G 1/8	15 0.59	8 0.31	13 0.51	1,0 0.04	R 1/4 taper	8,5 0.33	13,5 0.53	7/16 – 20 UNF	12,4 0.49	21 0.83	11,5 0.45	14 0.55	2,4 0.09
				G 1/4	19 0.75	12 0.47	18,5 0.73	1,5 0.06	G 1/4	19 0.75	12 0.47	18,5 0.73	1,5 0.06	1/8 NPT	6,9 0.27	11,6 0.46	1/2 – 20 UNF	14 0.55	23 0.91	11,5 0.45	14 0.55	2,4 0.09
				G 3/8	23 0.91	12 0.47	18,5 0.73	2 0.08						1/4 NPT	10 0.39	16,4 0.65	9/16 – 18 UNF	15,6 0.61	25 0.98	12,7 0.50	15,5 0.61	2,5 0.10

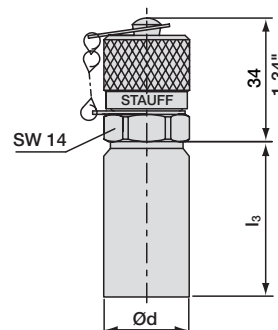
## Test Coupling SKK (compression ring fittings acc. to DIN 2353) - Metric Tubing



**Type G** Test coupling complete with straight fitting



**Type K** Test coupling for 24° cone fittings



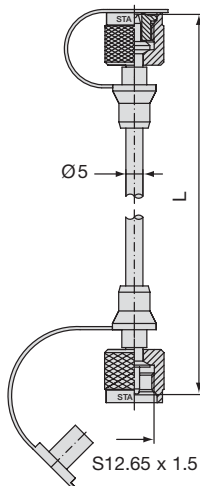
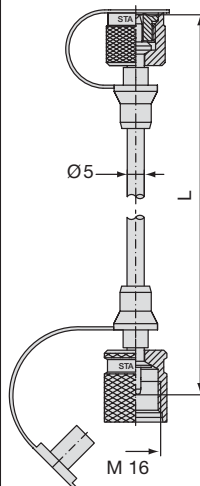
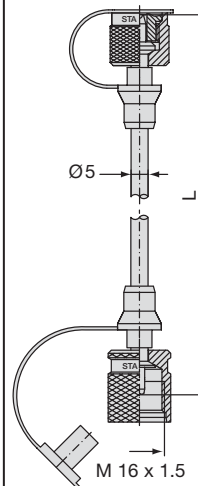
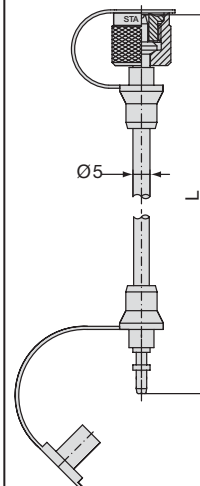
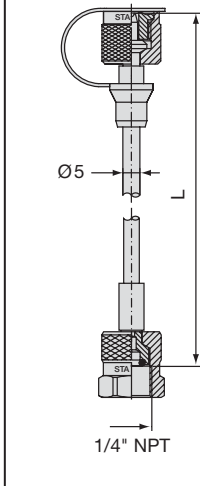
**Type S** Test coupling for compression ring assembly

Series	PN	Pipe Ød	l <sub>2</sub>		l <sub>3</sub>		h		SW 1		SW 2		Order No.*		
			mm	in	mm	in	mm	in	mm	in	mm	in	Type G	Type K	Type S
L	315	6	15,5	0.61	20	0.79	46	1.81	24	0.94	14	0.55	SKK 12 - 6L-VG	SKK 12 - 6L-VK	SKK 12 - 6-VS
		8	15,5	0.61	20	0.79	46	1.81	24	0.94	17	0.67	SKK 12 - 8L-VG	SKK 12 - 8L-VK	SKK 12 - 8-VS
		10	16,5	0.65	22	0.87	46	1.81	24	0.94	19	0.75	SKK 12 - 10L-VG	SKK 12 - 10L-VK	SKK 12 - 10-VS
		12	17,5	0.69	22	0.87	47,5	1.87	27	1.06	22	0.87	SKK 12 - 12L-VG	SKK 12 - 12L-VK	SKK 12 - 12-VS
		15	21	0.83	25	0.98	49	1.93	30	1.18	27	1.06	SKK 12 - 15L-VG	SKK 12 - 15L-VK	SKK 12 - 15-VS
		18	19,5	0.77	28	1.10	50	1.97	32	1.26	32	1.26	SKK 12 - 18L-VG	SKK 12 - 18L-VK	SKK 12 - 18-VS
	160	22	20,5	0.81	30	1.18	52	2.05	36	1.42	36	1.42	SKK 12 - 22L-VG	SKK 12 - 22L-VK	SKK 12 - 22-VS
		28	25	0.98	32	1.26	54,5	2.15	41	1.61	41	1.61	SKK 12 - 28L-VG	SKK 12 - 28L-VK	SKK 12 - 28-VS
		35	30	1.18	42	1.65	57	2.24	46	1.81	50	1.97	SKK 12 - 35L-VG	SKK 12 - 35L-VK	SKK 12 - 35-VS
		42	31	1.22	45	1.77	61,5	2.42	55	2.17	60	2.36	SKK 12 - 42L-VG	SKK 12 - 42L-VK	SKK 12 - 42-VS
S	630	6	14,5	0.57	20	0.79	46	1.81	24	0.94	17	0.67	SKK 12 - 6S-VG	SKK 12 - 6S-VK	SKK 12 - 6-VS
		8	16,5	0.65	20	0.79	46	1.81	24	0.94	19	0.75	SKK 12 - 8S-VG	SKK 12 - 8S-VK	SKK 12 - 8-VS
		10	16,5	0.65	22	0.87	46	1.81	24	0.94	22	0.87	SKK 12 - 10S-VG	SKK 12 - 10S-VK	SKK 12 - 10-VS
		12	17,5	0.69	22	0.87	46	1.81	24	0.94	24	0.94	SKK 12 - 12S-VG	SKK 12 - 12S-VK	SKK 12 - 12-VS
		14	19,5	0.77	22	0.87	47,5	1.87	27	1.06	27	1.06	SKK 12 - 14S-VG	SKK 12 - 14S-VK	SKK 12 - 14-VS
	400	16	18	0.71	28	1.10	49	1.93	30	1.18	30	1.18	SKK 12 - 16S-VG	SKK 12 - 16S-VK	SKK 12 - 16-VS
		20	24	0.94	30	1.18	52	2.05	36	1.42	36	1.42	SKK 12 - 20S-VG	SKK 12 - 20S-VK	SKK 12 - 20-VS
		25	26	1.02	36	1.42	54,5	2.15	41	1.61	46	1.81	SKK 12 - 25S-VG	SKK 12 - 25S-VK	SKK 12 - 25-VS
		30	30	1.18	41	1.61	57	2.24	46	1.81	50	1.97	SKK 12 - 30S-VG	SKK 12 - 30S-VK	SKK 12 - 30-VS
	315	38	34	1.34	48	1.89	61,5	2.42	55	2.17	60	2.36	SKK 12 - 38S-VG	SKK 12 - 38S-VK	SKK 12 - 38-VS

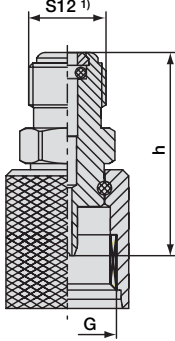
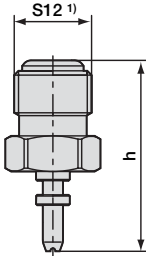
\* For EPDM seals replace "V" with "E"



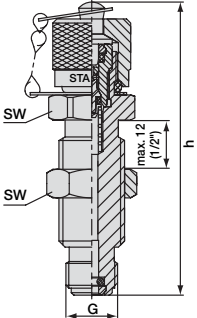
## Test Hose SMS (for gaseous media Specify Type SGS)

<div>Max. working pressure 9000 PSI (630 bar)</div> <div>Test hose: Nominal bore 0.08" (2 mm)</div> <div>Minimum bending radius 0.75" (20 mm)</div> <div>Nominal bore 0.16" (4 mm) also available</div> <div>Pressure/t° factor: to 0°C 122 % at 30°C 110 % at 50°C 100 % at 80°C 86 % at 100°C 77 %</div> <div>Hose construction: Hose-core and -cover PA 11/12</div> <div>Reinforcement: Synthetic fibre</div> <div>Bursting pressure: 27,000 PSI (1900 bar)</div>	<b>Stauff-Test 12/12<sup>(2)</sup></b>	<b>Stauff-Test 12/20</b>	<b>Stauff-Test 12/15</b>	<b>Stauff-Test 10/12<sup>(2)</sup></b>	<b>Stauff-Test 12/N<sup>1/4</sup><sup>(3)</sup></b>	
	STAUFF-TEST 12	STAUFF-TEST 12	STAUFF-TEST 12	STAUFF-TEST 12	STAUFF-TEST 12	
						
	Ø5	Ø5	Ø5	Ø5	Ø5	
	S12.65 x 1.5	M 16	M 16 x 1.5		1/4" NPT	
	STAUFF-TEST 12	STAUFF-TEST 20	STAUFF-TEST 15	STAUFF-TEST 10	GAUGE ADAPTOR	
	<b>Length L<sup>(1)</sup></b>					
<b>in</b>	<b>mm</b>	<b>Order No.</b>				
12	305	SMS-12-305mm-B	SMS-12/20-305mm-B	SMS-12/15-1305-B	SMS-10/12-305mm-B	SMS-12/N <sup>1/4</sup> -305mm-B
24	610	SMS-12-610mm-B	SMS-12/20-610mm-B	SMS-12/15-610-B	SMS-10/12-610mm-B	SMS-12/N <sup>1/4</sup> -610mm-B
36	915	SMS-12-915mm-B	SMS-12/20-915mm-B	SMS-12/15-915-B	SMS-10/12-915mm-B	SMS-12/N <sup>1/4</sup> -915mm-B
48	1219	SMS-12-1219mm-B	SMS-12/20-1219mm-B	SMS-12/15-1219-B	SMS-10/12-1219mm-B	SMS-12/N <sup>1/4</sup> -1219mm-B
60	1524	SMS-12-1524mm-B	SMS-12/20-1524mm-B	SMS-12/15-1524-B	SMS-10/12-1524mm-B	SMS-12/N <sup>1/4</sup> -1524mm-B
72	1829	SMS-12-1829mm-B	SMS-12/20-1829mm-B	SMS-12/15-1829-B	SMS-10/12-1829mm-B	SMS-12/N <sup>1/4</sup> -1829mm-B
96	2438	SMS-12-2438mm-B	SMS-12/20-2438mm-B	SMS-12/15-2438-B	SMS-10/12-2438mm-B	SMS-12/N <sup>1/4</sup> -2438mm-B
120	3048	SMS-12-3048mm-B	SMS-12/20-3048mm-B	SMS-12/15-3048-B	SMS-10/12-3048mm-B	SMS-12/N <sup>1/4</sup> -3048mm-B
Custom lengths available upon request						
<sup>(1)</sup> Bending protection and other lengths on request		<sup>(2)</sup> Special thread: buttress thread S12,65 x 1,5		<sup>(3)</sup> Gauge adaptor G <sup>1/4</sup> , G <sup>1/2</sup> and 1/2 NPT on request		

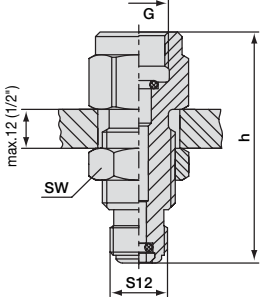
## Adaptor SAD

		<b>G</b>	<b>h</b>		<b>Type</b>	<b>Order No.</b>	
			mm	in		<b>NBR (BUNA)</b>	<b>FPM (VITON) (Standard)</b>
<b>Type A</b>	<b>Type B</b>	<b>M 16 x 1,5</b>	33	<b>1.30</b>	A	SAD 12/15-P	<b>SAD 12/15-V</b>
		<b>plug in</b>	31	<b>1.22</b>	B	SAD 12/10-P	<b>SAD 12/10-V</b>
		<b>M 16 x 2</b>	33	<b>1.30</b>	A	SAD 12/20-P	<b>SAD 12/20-V</b>
1) Special thread: buttress thread S12,65 x 1,5							

## Bulkhead SSKK

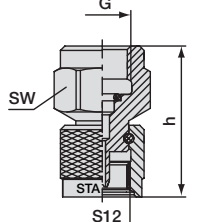
	G	h		SW		Order No.	
		mm	in	mm	in	NBR (BUNA)	FPM (VITON) (Standard)
	S 12	63	2.48	19	0.75	SSKK 12-P	SSKK 12-V

## Gauge Adaptor SMA

 <p>Through-hole Ø 18 mm</p>	G	h		SW		Order No.	
		mm	in	mm	in	NBR (BUNA)	FPM (VITON) (Standard)
	G 1/4	51	2.00	19	0.75	SMA 12 - G 1/4 - P-OR	SMA 12 - G 1/4 - V-OR
	G 1/2	61	2.40	27	1.06	SMA 12 - G 1/2 - P-OR	SMA 12 - G 1/2 - V-OR
	1/4 NPT	51	2.00	19	0.75	SMA 12 - 1/4 NPT-P	SMA 12 - 1/4 NPT-V
	1/2 NPT	61	2.40	27	1.06	SMA 12 - 1/2 NPT-P	SMA 12 - 1/2 NPT-V

Snubber on request

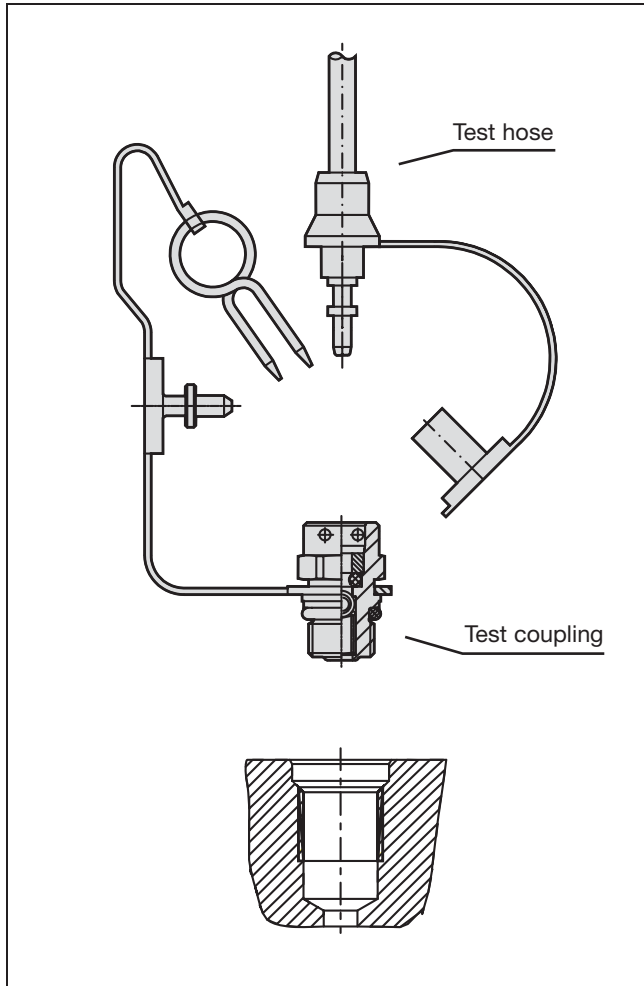
## Direct Gauge Adaptor SMD

	G	h		SW		Order No.	
		mm	in	mm	in	NBR (BUNA)	FPM (VITON) (Standard)
	G 1/4	35	1.38	19	0.75	SMD 12 - G 1/4 - P-OR	SMD 12 - G 1/4 - V-OR
	G 1/2	45	1.77	27	1.06	SMD 12 - G 1/2 - P-OR	SMD 12 - G 1/2 - V-OR
	1/4 NPT	35	1.38	19	0.75	SMD 12 - 1/4 NPT-P	SMD 12 - 1/4 NPT
	1/2 NPT	45	1.77	27	1.06	SMD 12 - 1/2 NPT-P	SMD 12 - 1/2 NPT

Snubber on request

## Swivel Run Tees SGV

Thread G	Order Code Without Test Point								Order No.
	Ød1	Ød1	I1	I2	I3	I4	Hex1	Hex2	
	mm	mm	mm	mm	mm	mm	mm	mm	
7/16 - 20 UNF	7.49 .29	4.9 .19	9 .35	14 .55	37 1.46	8 .31	27 1.06	17 .67	SGV 7/16 UNF - 04 - JIC 1/4 F/M
9/16 - 18 UNF	11.05 .44	8.08 .32	10.5 .41	14.1 .56	37.6 1.48	8.5 .33	27 1.06	19 .75	SGV 9/16 UNF - 06 - JIC 3/8 F/M
3/4 - 16 UNF	14.48 .57	10.82 .43	10.5 .41	16.7 .66	48.7 1.92	8.5 .33	27 1.06	22 .87	SGV 3/4 UNF - 08 - JIC 1/2 F/M
Order Code Including Test Point (SKK 12 - 7/16 UNF - VE)									
SKK 12 - 04- JIC 1/4 - F/M-1137									
SKK 12 - 06- JIC 3/8 - F/M-1137									
SKK 12 - 08- JIC 1/2 - F/M-1137									
Other threads available upon request.									



**Fast Coupling for:**

- Monitoring and control of pressure
- Venting
- Sampling Fluids

**Advantages:**

- Coupling at system pressure level
- Connection is leakproof before **ball valve** is open
- Simple connection to measurement, control and switching devices

**Working Pressure:**

- Max. working pressure 5800 PSI (400 bar)  
For SMK Type G, K and S the recommended working pressure of fitting manufacturer should be noted

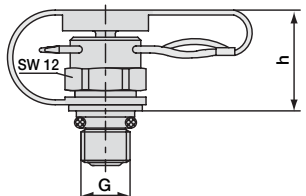
**Materials:**

- Metal parts: Steel, Stainless Steel on request
- Ball: Stainless Steel
- Seals:
  - Standard  
V = FPM-VITON Temperature range – 4°F to + 392°F  
(– 20°C to + 200°C)
  - Optional  
P = NBR-BUNA Temperature range – 4°F to + 195°F  
(– 20°C to + 90°C)  
E = EPDM Ethylene Propylene (for Brake Fluid)  
Temperature range – 40°F to + 302°F  
(– 40°C to + 150°C)
- Hose: Polyamide Temperature range –31°F to + 212°F  
(–35°C to + 100°C)

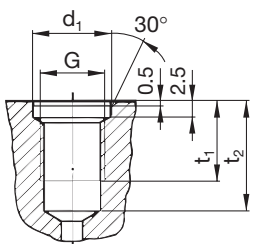
**Media:**

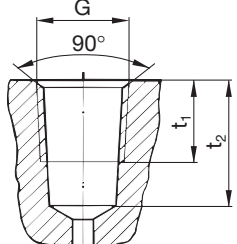
- Suitable for hydraulic oils and other mineral based fluids (check compatibility of seal material)
- For use with low viscosity media or gaseous media, please consult STAUFF details

**Test Coupling with Protective Cap SMK**

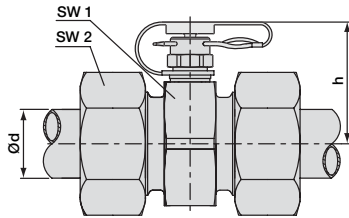
	Thread G	H mm in	Order No.		Seal
			NBR (BUNA)	FPM (VITON) (Standard)	
	M8 x 1	17,5 0.69	SMK 10 – M8 x 1 – PA	SMK 10 – M8 x 1 – VA	O-Ring Type A
	M10 x 1	17,5 0.69	SMK 10 – M10 x 1 – PA	SMK 10 – M10 x 1 – VA	O-Ring Type A
	R 1/8" taper	17,5 0.69	SMK 10 – R 1/8" K-PD	SMK 10 – R 1/8" K-VD	Taper Type D

**Port Connections**

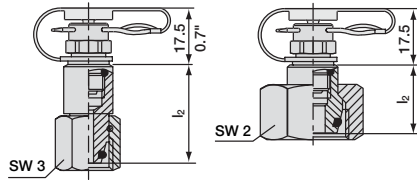
	d <sub>1</sub> (G)	d <sub>2</sub>		t <sub>1</sub>		t <sub>2</sub>	
		mm	in	mm	in	mm	in
Type A	M 8 x 1	9,5 + 0,1		11		15,5	
			0.37		0.43		0.61
	M 10 x 1	11,5 + 0,1		12		16,5	
			0.45		0.47		0.65

	d <sub>1</sub> (G)	t <sub>1</sub>		t <sub>2</sub>	
		mm	in	mm	in
Type D	R 1/8" taper	5,5		9,5	
			0.22		0.37

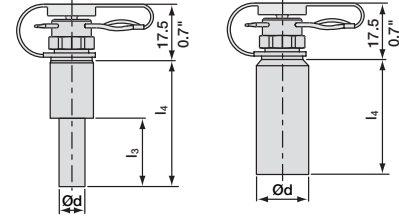
## Test Coupling SMK (compression ring fittings acc. to DIN 2353) - Metric Tubing



**Type G** Test coupling complete with straight fitting



**Type K** Test coupling for 24° cone fittings



**Type S** Test coupling for compression ring assembly

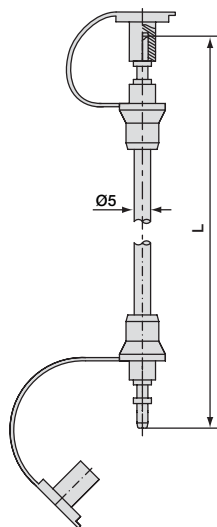
Series	PN	Pipe Ø d	l <sub>2</sub> l <sub>3</sub> l <sub>4</sub> h				SW 1 SW 2 SW 3				Order No.*		
			mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	Type G	Type K	Type S
L	315	6	30,5 1.20	20 0.79	36 1.42	29,5 1.16	24 0.94		14 0.55		SMK 10 – 6L-VG	SMK 10 – 6L-VK	SMK 10 – 6-VS
		8	30,5 1.20	20 0.79	36 1.42	29,5 1.16	24 0.94		17 0.67		SMK 10 – 8L-VG	SMK 10 – 8L-VK	SMK 10 – 8-VS
		10	31,5 1.24	22 0.87	38 1.50	29,5 1.16	24 0.94		19 0.75		SMK 10 – 10L-VG	SMK 10 – 10L-VK	SMK 10 – 10-VS
		12	32,5 1.28	22 0.87	38 1.50	31 1.22	27 1.06		22 0.87		SMK 10 – 12L-VG	SMK 10 – 12L-VK	SMK 10 – 12-VS
		15	21 0.83		28 1.10	32,5 1.28	30 1.18	27 1.06			SMK 10 – 15L-VG	SMK 10 – 15L-VK	SMK 10 – 15-VS
		18	19,5 0.77		28 1.10	33,5 1.32	32 1.26	32 1.26			SMK 10 – 18L-VG	SMK 10 – 18L-VK	SMK 10 – 18-VS
	160	22	20,5 0.81		30 1.18	35,5 1.40	36 1.42	36 1.42			SMK 10 – 22L-VG	SMK 10 – 22L-VK	SMK 10 – 22-VS
		28	25 0.98		32 1.26	38 1.50	41 1.61	41 1.61			SMK 10 – 28L-VG	SMK 10 – 28L-VK	SMK 10 – 28-VS
		35	30 1.18		42 1.65	40,5 1.59	46 1.81	50 1.97			SMK 10 – 35L-VG	SMK 10 – 35L-VK	SMK 10 – 35-VS
		42	31 1.22		45 1.77	45 1.77	55 2.17	60 2.36			SMK 10 – 42L-VG	SMK 10 – 42L-VK	SMK 10 – 42-VS
S	630	6	29,5 1.16	20 0.79	36 1.42	29,5 1.16	24 0.94		17 0.67		SMK 10 – 6S-VG	SMK 10 – 6S-VK	SMK 10 – 6-VS
		8	31,5 1.24	20 0.79	36 1.42	29,5 1.16	24 0.94		19 0.75		SMK 10 – 8S-VG	SMK 10 – 8S-VK	SMK 10 – 8-VS
		10	31,5 1.24	22 0.87	38 1.50	29,5 1.16	24 0.94		22 0.87		SMK 10 – 10S-VG	SMK 10 – 10S-VK	SMK 10 – 10-VS
		12	32,5 1.28	22 0.87	38 1.50	29,5 1.16	24 0.94		24 0.94		SMK 10 – 12S-VG	SMK 10 – 12S-VK	SMK 10 – 12-VS
		14	19,5 0.77	22 0.87	38 1.50	31 1.22	27 1.06	27 1.06			SMK 10 – 14S-VG	SMK 10 – 14S-VK	SMK 10 – 14-VS
		16	28 1.10		28 1.10	32,5 1.28	30 1.18	30 1.18			SMK 10 – 16S-VG	SMK 10 – 16S-VK	SMK 10 – 16-VS
	400	20	24 0.94		30 1.18	35,5 1.40	36 1.42	36 1.42			SMK 10 – 20S-VG	SMK 10 – 20S-VK	SMK 10 – 20-VS
		25	26 1.02		36 1.42	38 1.50	41 1.61	46 1.81			SMK 10 – 25S-VG	SMK 10 – 25S-VK	SMK 10 – 25-VS
		30	30 1.18		41 1.61	40,5 1.59	46 1.81	50 1.97			SMK 10 – 30S-VG	SMK 10 – 30S-VK	SMK 10 – 30-VS
	315	38	34 1.34		48 1.89	45 1.77	55 2.17	60 2.36			SMK 10 – 38S-VG	SMK 10 – 38S-VK	SMK 10 – 38-VS

\* For EPDM seals replace "P" with "E"

## Test Hose SMS

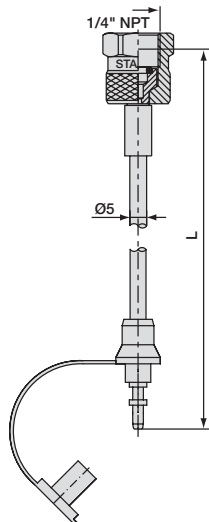
Length L		Order No.	Notice
mm	in		
305	12	SMS-10-305-B	<b>Nominal bore 0.08" (2 mm)</b>  Minimum bending radius 0.75" (20 mm)
610	24	SMS-10-610-B	
915	36	SMS-10-915-B	Pressure/t° factor to 0°C 122 % at 30°C 110 % at 50°C 100 % at 80°C 86 % at 100°C 77%
1219	48	SMS-10-1219-B	
1524	60	SMS-10-1524-B	
1829	72	SMS-10-1829-B	
2438	96	SMS-10-2438-B	Bending protection and other lengths on request.
3048	120	SMS-10-3048-B	

Hose length is in millimeters



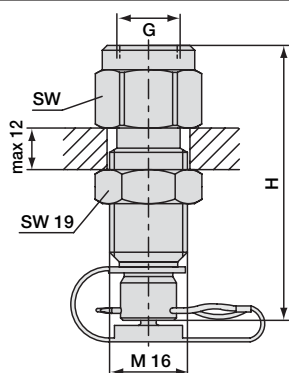
## Test Hose SMS for direct gauge adaptor

Length L		Order No.	Notice
mm	in		
305	12	SMS-10/N¼-305mm-B	<b>Nominal bore 0.08" (2 mm)</b>  Minimum bending radius 0.75" 20 mm  Pressure/t° factor to 0°C 122 % at 30°C 110 % at 50°C 100 % at 80°C 86 % at 100°C 77 %  Bending protection and other lengths on request.
610	24	SMS-10/N¼-610mm-B	
915	36	SMS-10/N¼-915mm-B	
1219	48	SMS-10/N¼-1219mm-B	
1524	60	SMS-10/N¼-1524mm-B	
1829	72	SMS-10/N¼-1829mm-B	
2438	96	SMS-10/N¼-2438mm-B	
3048	120	SMS-10/N¼-3048mm-B	



## Gauge Adaptor SMA

G	H		SW	Order No.	
	mm	in		NBR (BUNA)	FPM (VITON) (Standard)
G ¼	57	2.24	19	SMA 10 – G ¼ – P-OR	SMA 10 – G ¼ – V-OR
G ½	67	2.64	27	SMA 10 – G ½ – P-OR	SMA 10 – G ½ – V-OR
¼ NPT	57	2.24	19	SMA 10 – ¼ NPT-P	SMA 10 – ¼ NPT-V
½ NPT	67	2.64	27	SMA 10 – ½ NPT-P	SMA 10 – ½ NPT-V
Damping element on request					



Through-hole  
Ø 18



Working Pressure Up to 9000 PSI (630 bar)

Technical Data for Test-Hoses (Type B is Standard)

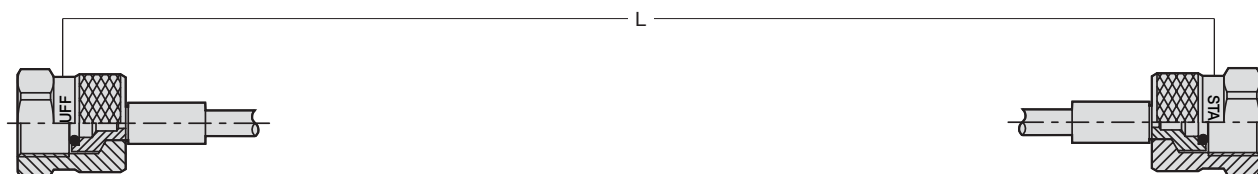
Ordering Code			A	B*	C
Nominal Bore (DN)		(mm)	DN 2	DN 2	DN 4
Max. Working Pressure (PN)		PSI/(bar)	6000 (400)	9000 (630)	4900 (340)
Min. Bursting Pressure		PSI/(bar)	15950 (1100)	27000 (1900)	12325 (850)
Testing Pressure		PSI/(bar)	8700 (600)	13775 (950)	8265 (570)
Pressure rating in bar at indicated temperature	at 32°F (0°C)	PSI/(bar)	6500 (488)	11136 (768)	6713 (463)
	at 86°F (30°C)	PSI/(bar)	6380 (440)	10048 (693)	6061 (418)
	at 122°F (50°C)	PSI/(bar)	5800 (400)	9138 (630)	5510 (380)
	at 176°F (80°C)	PSI/(bar)	4988 (344)	7859 (542)	4741 (327)
	at 212°F (100°C)	PSI/(bar)	446 (308)	7032 (485)	4248 (293)
Working Temperature		°F (°C)	-31°F ... 212°F (-35°C ... 100°C)		
Inside Diameter		inch (mm)	0.08" (2)	0.08" (2)	0.16" (4)
Outside Diameter		inch (mm)	0.2" (5)	0.2" (5)	0.34" (8,6)
Bending Radius	at working pressure	inch (mm)	0.79" (20)	0.79" (20)	1.57" (40)
	at -4°F (-20°C)	inch (mm)	1.18" (30)	1.18" (30)	2.36" (60)
Max. Coil Length		ft. (m)	325' (100)	325' (100)	325' (100)
Weight/m		oz. (g)	0.5 (16)	0.5 (16)	1.35 (42)
Inner/outer tube			PA	PA	PA
Reinforcement			Synthetic fiber	Synthetic fiber	Synthetic fiber

Hose ends made of 9 S Mn Pb 28 (1.0718), zinc plated and chromated

Stainless steel on request

\*Standard version

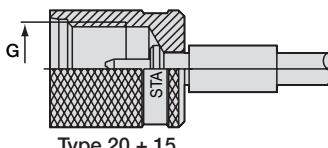
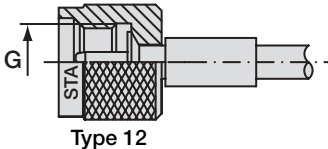
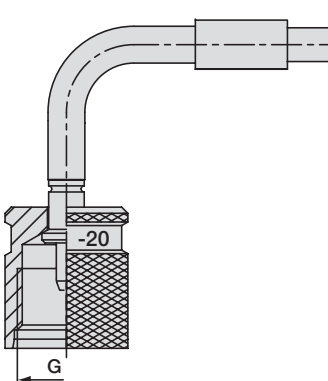
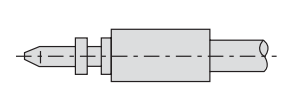
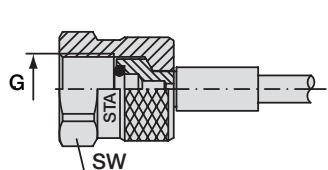
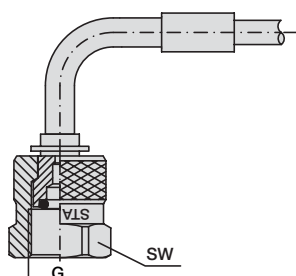
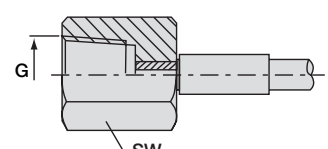
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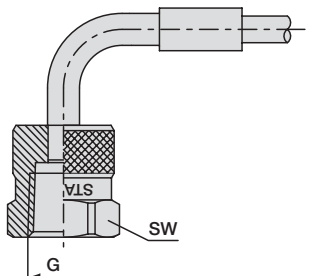
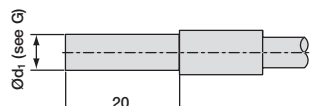
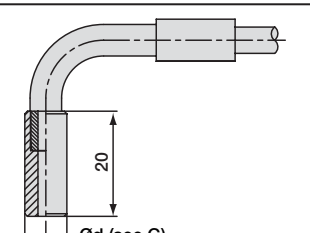
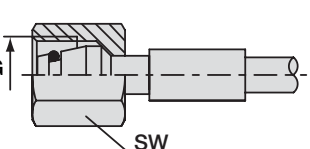
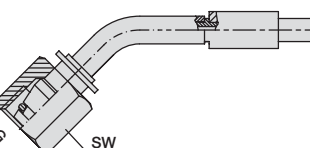
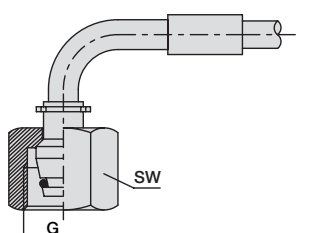


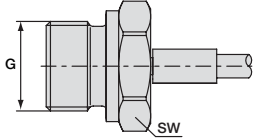
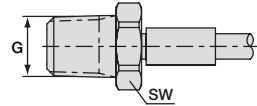
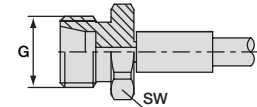
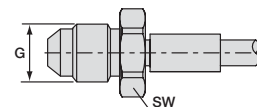
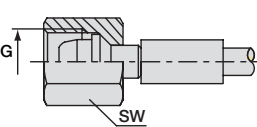
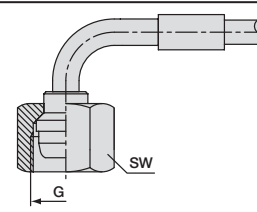
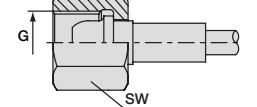
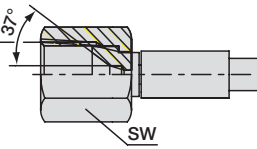
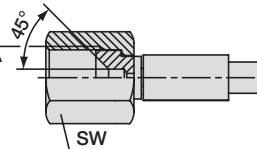
SMS			20	/ M ...	—	1219 mm	—	B
Hose End 1 (see Type page T25...T28)			Hose End 2 (see Type page T25 - T28)		Length (L)		Nominal bore/Pressure Rating	
20	A . . . .	J . . . .	only specify when 2 different hose ends are required		Length in mm (mm)		A	= DN 2 400 bar – 6000 PSI (400 bar)
15	S . . . .	D . . . .					B*	= DN 2 630 bar – 9100 PSI (630 bar)
12	K . . . .	B . . . .					C	= DN 4 340 bar – 4900 PSI (340 bar)
10	L . . . .	U . . . .					D	= DN 4 630 bar – 9100 PSI (630 bar)
M . . . .	G . . . .	P . . . .						
N . . . .	F . . . .							
W . . . .	C . . . .							

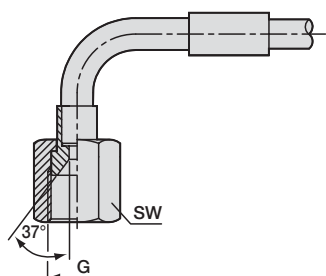
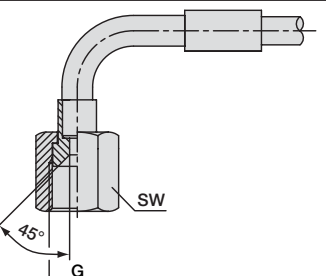
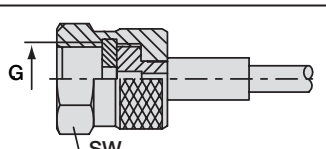
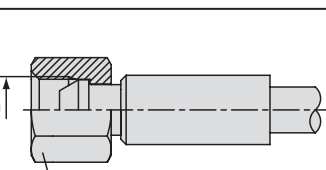
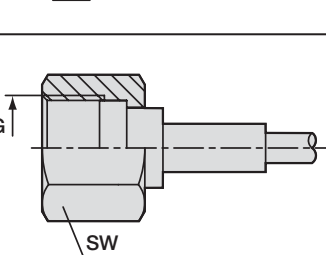
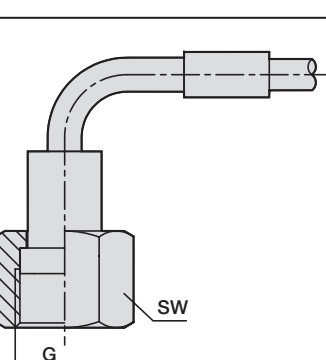
For Gaseous Media Type Code is "SGS" instead of "SMS".

\* Standard version

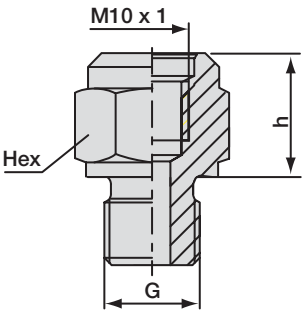
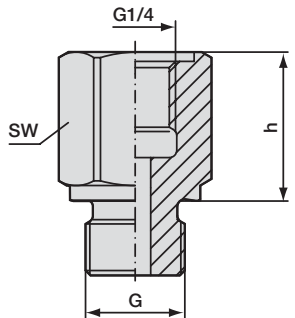
Description	Hose end	Type	G	SW		Nominal Bore Hose DN
				mm	in	
<b>STAUFF-TEST Screw-type</b>  Suitable for test points	 Type 20 + 15   Type 12		20	M 16	x 2	2 and 4
			15	M 16	x 1,5	
			12	S 12,65	x 1,5	
<b>STAUFF-TEST Screw-type 90° elbow</b>  Suitable for test points	 -20	O	20	M 16	x 2	2
			15	M 16	x 1,5	
			12	S 12,65	x 1,5	
<b>STAUFF-TEST Plug in-type</b>			10	Plug in system		2
<b>Gauge adapter BSP-thread</b>  for G 3/8 and G 1/2 BSP is similar to swivel nut type N	 SW	M	1/4	G 1/4	19 0.75	2 and 4
			1/2	G 1/2	27 1.06	
			3/8	G 3/8	22 0.87	2
<b>90° elbow gauge adapter BSP-thread</b>  for G 3/8 and G 1/2 is similar to swivel nut type N	 SW	W	1/4	G 1/4	19 0.75	2 and 4
			1/2	G 1/2	27 1.06	
<b>Gauge adapter NPT-thread</b>	 SW	N	1/4	1/4 NPT	19 0.75	2
			1/2	1/2 NPT	27 1.06	

Description	Hose end	Type	G	SW		Nominal Bore Hose DN
				mm	in	
90° elbow gauge adapter NPT-thread		A	1/4	1/4 NPT	19	2 and 4
			1/2	1/2 NPT	27	
					0.75	
					1.06	
Standpipe according to DIN 2353		S	4	4 LL		2
			6	6 L – 6 S		2/4
			8	8 L – 8 S		2/4
			10	10 L – 10 S		2/4
			12	12 L – 12 S		2
			15	15 L		2
			1/4	1/4		2/4
Standpipe according to DIN 2353 90° elbow		on request				2 and 4
Seal with O-ring for 24° cone fitting according to DIN 2353 c/w swivel nut		K	6 LL	M10 x 1,0	12	4
			6 L	M12 x 1,5	14	2/4
			8 L	M14 x 1,5	17	2/4
			10 L	M16 x 1,5	19	2/4
			12 L	M18 x 1,5	22	2/4
			6 S	M14 x 1,5	17	2/4
			8 S	M16 x 1,5	19	2/4
			10 S	M18 x 1,5	22	2/4
			12 S	M20 x 1,5	24	2/4
Seal with O-ring for 24° cone fitting according to DIN 2353 c/w swivel nut 45° elbow		R	6 S	M14 x 1,5	17	2 and 4
					0.67	
Seal with O-ring for 24° cone fitting according to DIN 2353 c/w swivel nut 90° elbow		L	6 L	M12 x 1,5	14	2 and 4
			8 L	M14 x 1,5	17	
			10 L	M16 x 1,5	19	
			6 S	M14 x 1,5	17	
			8 S	M16 x 1,5	19	
			10 S	M18 x 1,5	24	

Description	Hose end	Type	G	SW		Nominal Bore Hose DN
				mm	in	
<b>Male thread</b> according to DIN 3852		<b>G</b>	<b>12</b>	M12 x 1,5	17 / 0.67	2 and 4
			1/8	G 1/8	14 / 0.55	
			1/4	G 1/4	19 / 0.75	
			1/2	G 1/2	27 / 1.06	
<b>Male thread NPT</b> according to ANSI-Norm		<b>F</b>	1/8	1/8 NPT	13 / 0.51	
			1/4	1/4 NPT	17 / 0.67	
<b>Male thread</b> for 24° cone fitting according to DIN 3852		<b>C</b>	<b>6 L</b>	M12 x 1,5	14 / 0.55	
			<b>8 L</b>	M14 x 1,5	17 / 0.67	
			<b>6 S</b>	M14 x 1,5	17 / 0.67	
			<b>8 S</b>	M16 x 1,5	17 / 0.67	
<b>Male thread</b> according to SAE J 514		<b>J</b>	1/4	7/16 - UNF	14 / 0.55	
			5/16	1/2 - UNF	14 / 0.55	
			3/8	9/16 - UNF	17 / 0.67	
<b>Universal sealing head</b> with swivel nut for 24° cone fitting according to DIN 2353		<b>D</b>	<b>6 L</b>	M12 x 1,5	14 / 0.55	
			<b>8 L</b>	M14 x 1,5	17 / 0.67	
			<b>10 L</b>	M16 x 1,5	19 / 0.75	
			<b>12 L</b>	M18 x 1,5	22 / 0.87	
			<b>6 S</b>	M14 x 1,5	17 / 0.67	
			<b>8 S</b>	M16 x 1,5	19 / 0.75	
			<b>10 S</b>	M18 x 1,5	22 / 0.87	
			<b>12 S</b>	M20 x 1,5	24 / 0.94	
<b>Universal sealing head</b> with swivel nut for 24° cone fitting according to DIN 2353 90° elbow		<b>Q</b>	<b>10 L</b>	M16 x 1,5	19 / 0.75	
			<b>10 S</b>	M18 x 1,5	22 / 0.87	
<b>Sealing head</b> with swivel nut for cone fitting according to DIN 8542		<b>B</b>	1/4	G 1/4	17 / 0.67	
<b>Sealing head</b> with swivel nut according to SAE J 514 37° cone		<b>U</b>	1/4	7/16 - 20 UNF	14 / 0.55	
			5/16	1/2 - 20 UNF	17 / 0.67	
			3/8	9/16 - 18 UNF	19 / 0.75	
<b>Sealing head</b> with swivel nut according to SAE J 514 f 45° cone		<b>UR</b>	1/4	7/16 - 20 UNF	14 / 0.55	2

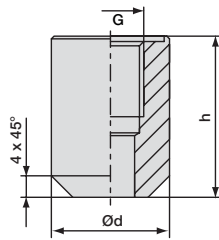
Description	Hose end	Type	G	SW		Nominal Bore Hose DN
				mm	in	
<b>Sealing head</b> with swivel nut according to SAE J 514 37° cone 90° elbow		<b>E</b>	1/4	7/16 - 20 UNF	14 / 0.55	2
<b>Sealing head</b> with swivel nut according to SAE J 514 f 45° cone 90° elbow		<b>ER</b>	1/4	7/16 - 20 UNF	14 / 0.55	2
<b>Test hose</b> for air brake systems		<b>P</b>	2	M 16 x 1,5	19 / 0.75	2
<b>Sealing head</b> with swivel nut 60° cone		<b>H</b>	1/4	G 1/4	17 / 0.67	4
<b>Screw-type ORS</b> according to SAE J 1453		<b>T</b>	11/16	11/16 - 16 UN	21 / 0.83	2
<b>Screw-type ORS</b> according to SAE J 1453 90° elbow		<b>V</b>	11/16	11/16 - 16 UN	21 / 0.83	2 and 4

**Thread adaptor SRS**

	Thread G	Seal	h		Hex		Version	Order No. SRS
			mm	in	mm	in		
 <p><b>Version A</b></p>	M10x1	Metal joint Type B	15,5	0.61	17	0.67	A	SRS20-M10x1-B
	M12x1,5		15	0.59	19	0.75	A	SRS20-M12x1,5-B
	M14x1,5		15	0.59	19	0.75	A	SRS20-M14x1,5-B
	M16x1,5		8	0.31	22	0.87	A	SRS20-M16x1,5-B
	M18x1,5		15	0.59	24	0.94	A	SRS20-M18x1,5-B
	M22x1,5		10,5	0.41	27	1.06	A	SRS20-M22x1,5-B
	G <sup>1</sup> / <sub>8</sub>		15,5	0.61	17	0.86	A	SRS20-G <sup>1</sup> / <sub>8</sub> -B
	G <sup>1</sup> / <sub>4</sub>		15	0.59	19	0.75	A	SRS20-G <sup>1</sup> / <sub>4</sub> -B
	G <sup>3</sup> / <sub>8</sub>		10,5	0.41	22	0.87	A	SRS20-G <sup>3</sup> / <sub>8</sub> -B
	G <sup>1</sup> / <sub>2</sub>		10,5	0.41	27	1.06	A	SRS20-G <sup>1</sup> / <sub>2</sub> -B
	M12x1,5	Elastomeric seal Type C	15	0.59	19	0.75	A	SRS20-M12x1,5-PC
	M14x1,5		15	0.59	19	0.75	A	SRS20-M14x1,5-PC
	M18x1,5		15	0.59	24	0.94	A	SRS20-M18x1,5-PC
	G <sup>1</sup> / <sub>8</sub>		16	0.63	17	0.67	A	SRS20-G <sup>1</sup> / <sub>8</sub> -PC
	G <sup>1</sup> / <sub>4</sub>		15	0.59	19	0.75	A	SRS20-G <sup>1</sup> / <sub>4</sub> -PC
	G <sup>3</sup> / <sub>8</sub>		10,5	0.41	22	0.87	A	SRS20-G <sup>3</sup> / <sub>8</sub> -PC
	G <sup>1</sup> / <sub>2</sub>		10,5	0.41	27	1.06	A	SRS20-G <sup>1</sup> / <sub>2</sub> -PC
	R <sup>1</sup> / <sub>4</sub> K	Taper Type D suitable sealant required	13	0.51	17	0.67	A	SRS20-R <sup>1</sup> / <sub>4</sub> K-D
	R <sup>3</sup> / <sub>8</sub> K		13	0.51	19	0.75	A	SRS20-R <sup>3</sup> / <sub>8</sub> K-D
	R <sup>1</sup> / <sub>2</sub> K		8	0.31	22	0.87	A	SRS20-R <sup>1</sup> / <sub>2</sub> K-D
	1/4NPT		10	0.39	17	0.67	A	SRS20-1/4NPT-D
	1/2NPT		8	0.31	22	0.87	A	SRS20-1/2NPT-D
 <p><b>Version B</b></p>	7/16-20UNF	O-Ring Type E	9	0.35	17	0.67	A	SRS20-7/16UNF-PE
	1/2-20UNF		15	0.59	17	0.67	A	SRS20-1/2UNF-PE
	9/16-18UNF		15,5	0.61	19	0.75	A	SRS20-9/16UNF-PE
	7/8-14UNF		11	0.43	27	1.06	A	SRS20-7/8UNF-PE
	M14x1,5		14,5	0.57	19	0.75	A	SRS20-M14x1,5-PE
	M16x1,5		8,5	0.33	22	0.87	A	SRS20-M16x1,5-PE
	M22x1,5		10	0.39	27	1.06	A	SRS20-M22x1,5-PE
	M27x2		10	0.39	32	1.26	A	SRS20-M27x2-PE
	M14x1,5	Metal joint Type B	24	0.94	19	0.75	B	SRS15-M14x1,5-B
	M16x1,5		24	0.94	22	0.87	B	SRS15-M16x1,5-B
	M18x1,5		24	0.94	24	0.94	B	SRS15-M18x1,5-B
	M20x1,5		10,5	0.41	27	1.06	B	SRS15-M20x1,5-B
	G <sup>3</sup> / <sub>8</sub>		24	0.94	22	0.87	B	SRS15-G <sup>3</sup> / <sub>8</sub> -B
	G <sup>1</sup> / <sub>2</sub>		10,5	0.41	27	1.06	B	SRS15-G <sup>1</sup> / <sub>2</sub> -B
	M14x1,5	Elastomeric seal Type C	24	0.94	19	0.75	B	SRS15-M14x1,5-PC
	M16x1,5		24	0.94	22	0.87	B	SRS15-M16x1,5-PC
	M18x1,5		24	0.94	24	0.94	B	SRS15-M18x1,5-PC
	G <sup>3</sup> / <sub>8</sub>		24	0.94	22	0.87	B	SRS15-G <sup>3</sup> / <sub>8</sub> -PC



## Welding adaptor SAS

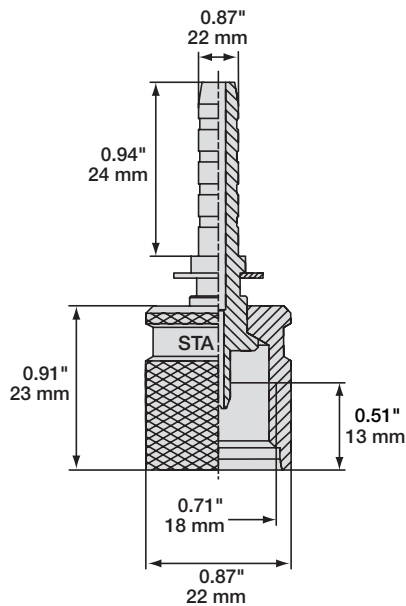


Material: St 37, black finished

Thread G	Port connection	h		Ød		Order No. SAS
		mm	in	mm	in	
M10x1	Type A	25	0.98	20	0.79	SAS-M10x1
G <sup>1</sup> / <sub>8</sub>	Type B/C	25	0.98	20	0.79	SAS-G <sup>1</sup> / <sub>8</sub>
G <sup>1</sup> / <sub>4</sub>		30	1.18	22	0.87	SAS-G <sup>1</sup> / <sub>4</sub>
G <sup>3</sup> / <sub>8</sub>		30	1.18	25	0.98	SAS-G <sup>3</sup> / <sub>8</sub>
<sup>1</sup> / <sub>4</sub> NPT	Type D	25	0.98	20	0.79	SAS- <sup>1</sup> / <sub>4</sub> NPT
<sup>1</sup> / <sub>2</sub> -20UNF	Type E	25	0.98	20	0.79	SAS- <sup>1</sup> / <sub>2</sub> UNF

TEST

## Sampling Hose Adaptor-SHA



- Special Hose Adaptor for taking oil samples from Hydraulic Systems.
- Uses 1/4" O.D. Polyurethane Hose.
- Stauff Test 20 Connection
- Order No. SHA 20 - 5.5 mm

## Union Adaptor SSV (for connecting 2 SMS Hoses)



Connection	Order Number
Stauff Test 20	SSV 20/20
Stauff Test 12	SSV 12/12
Stauff Test 15	SSV 15/15



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Use the Acrobat toolbar buttons to quickly navigate through pages. The chart describes the basic function of each button.

You may also use the bookmark navigation to the left. Just click on a bookmark to get the information desired.

### Toolbar Navigation

Next Page



Navigation Tool  
(for clicking on links or bookmarks)

Previous Page



Magnify  
(use to enlarge type or expand video or graphics to full screen)

First page



Show/Hide Navigation Pane

Last page



View Actual Size

Go to Previous View



View to Fit in Window

Go to Next View



View to Fit Width

*Tip: Always use the Previous View button to retrace your steps.*