

Test 20 - Connection Thread M16 x 2 SMK-20 14 - 25

Introduction 14 - 15

Test Coupling with Ball Check



Test Coupling SMK-20 16

with Male Threaded Stud



Test Coupling SMK-20 Type G 17

with Straight 24° Fitting



Test Coupling SMK-20 Type K 19

With 24° Taper / O-ring (DKO)



Test Coupling SMK-20-JIC Type K 20

with 37° JIC Connection



Test Coupling SMK-20-JIC Type G 21

with Straight 37° JIC Connection



Swivel Run Tee SGV-JIC Type FM 22

with 37° JIC Connection



Test Coupling SMK-20 Type ORFS 23

with ORFS Connection



Bulkhead SSK-20 24



Test Adaptor SAD-20 24



Gauge Adaptor SMA-20 25
SMD-20

Test 20 - Connection Thread M16 x 2 SKK-20 26 - 31

Introduction 26 - 27

Test Coupling with Piston Valve



Test Coupling SKK-20 28

with Male Threaded Stud



Test Coupling SKK-20 Type G 29




















with Straight 24° Fitting



Test Coupling SKK-20 Type K 31

With 24° Taper / O-ring (DKO)



Test 15 - Connection Thread M16 x 1,5 SMK-15				Test 10 - Plug In System SMK-10				
	Introduction		32 - 38		Introduction		48 - 52	
	Test Coupling with Ball Check				Test Coupling with Ball Check			
	Test Coupling	SMK-15	34		Test Coupling	SMK-10	50	
	with Male Threaded Stud				with Male Threaded Stud			
	Test Coupling	SMK-15 Type G	35		Gauge Adaptor	SMA-10	50	
	with Straight 24° Fitting							
	Test Coupling	SMK-15 Type K	36		Test Coupling	SMK-10 Type G	51	
	With 24° Taper / O-ring (DKO)				with Straight 24° Fitting			
	Bulkhead	SSK-15	37		Test Coupling	SMK-10 Type K	52	
					With 24° Taper / O-ring (DKO)			
	Swivel Run Tee	SGV-JIC Type FM	37		Special Test Coupling Solutions		53	
	with 37° JIC Connection							
	Test Adaptor	SAD-15	38					
	Gauge Adaptor	SMA-15 SMD-15	38					
	Colour Marking Rings for Test Couplings and Test Hose Assemblies (Test 20 and Test 15)			39				
Test 12 - Connection Thread S12,65 x 1,5 SKK-12				40 - 46				
	Introduction		40 - 41					
	Test Coupling with Piston Valve							
	Test Coupling	SKK-12	42					
	with Male Threaded Stud							
	Test Coupling	SKK-12 Type G	43					
	with Straight 24° Fitting							
	Test Coupling	SKK-12 Type K	44					
	With 24° Taper / O-ring (DKO)							
	Bulkhead	SSKK-12	45					
	Swivel Run Tee	SGV-JIC Type FM	45					
	with 37° JIC Connection							
	Test Adaptor	SAD-12	46					
	Gauge Adaptor	SMA-12 SMD-12	46					



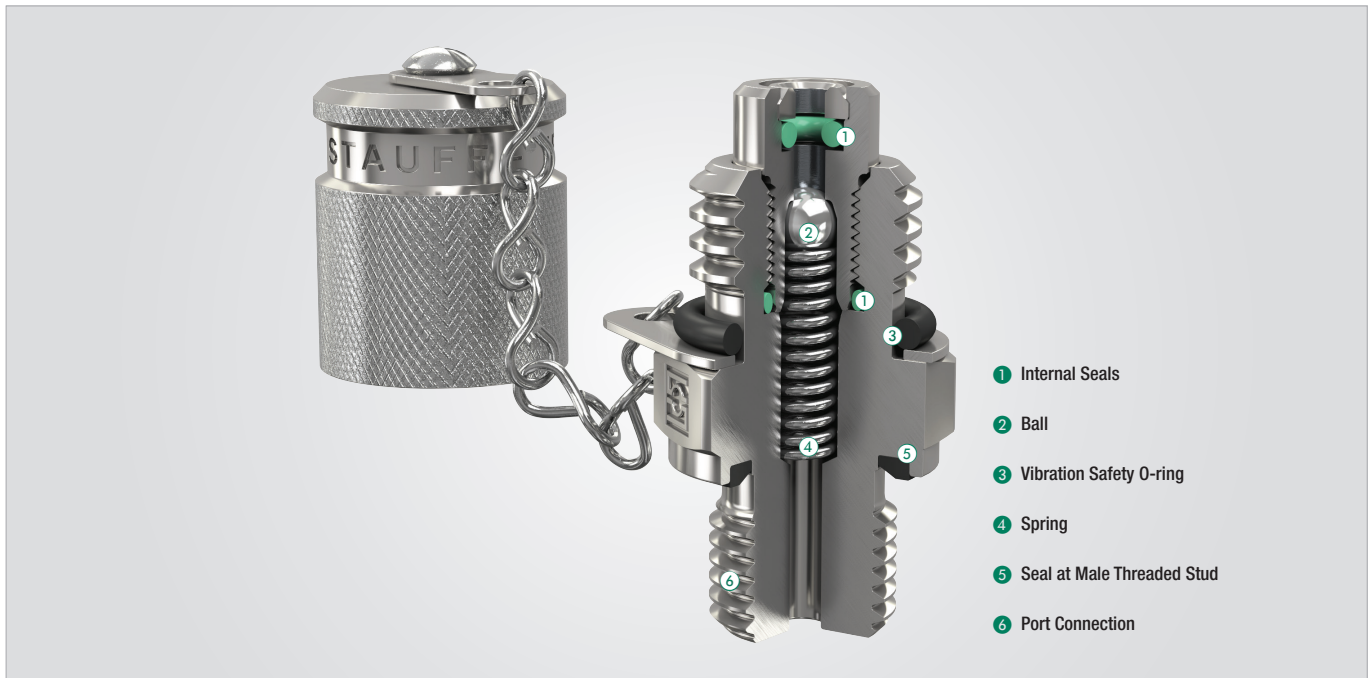
**Test Coupling with Ball Check
SMK-20**

A



Test Coupling with Ball Check SMK-20

A



Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems
- Connection Thread according to ISO 15171-2

Advantages

- Test system at working pressure
- Leak proof connection before **Ball Check** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

Working Pressure

- Max. working pressure 630 bar / 9137 PSI
For SMK Type G and K the recommended working pressure of fitting manufacturer should be noted.
- Connection under pressure up to 400 bar / 5801 PSI max.

Materials

- **Metal Parts:**
Standard material: Steel, zinc/nickel-plated = **W3**
Optional:
Stainless Steel **W4** (1.4305 / AISI 303) on request
Stainless Steel **W5** (1.4571 / AISI 316Ti) on request
- **Ball:** Stainless Steel

Seal Types:

B = NBR (Buna-N®)
(Temperature range -20 °C ... +100 °C / -4 °F ... +212 °F)
Note: Internal Seal Types made of FKM, even for standard NBR-type.

V = FKM (Viton®)*
(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

E = EPDM Ethylene Propylene Diene Monomer Rubber
(for Brake fluid, Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)

* Vibration safety O-ring made of NBR (Buna-N®).

Media

- Suitable for hydraulic oils and other Mineral oil based fluids
(Check compatibility of Seal Type material)
- For use with other liquid media please contact STAUFF

Protection Cap

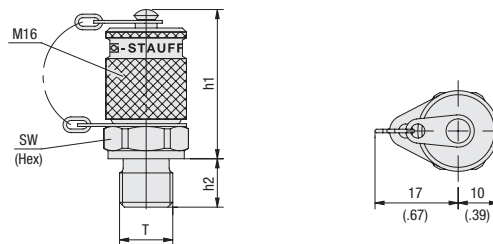
- The complete STAUFF-Test-20-type-SMK range is also available with a hexagonal protection cap made of steel or plastic protection cap.

Colour Marking Rings

- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

SMK-20 Test Coupling with Male Threaded Stud and optionally colour marking ring	SMK-20 Type G Test Coupling with Straight 24° Fitting	SMK-20 Type K Test Coupling With 24° Taper / O-ring (DKO)	SMK-20-JIC Test Coupling with 37° JIC Connection	SSK-20 Bulkhead

Test Coupling with Male Threaded Stud SMK-20



Ordering Codes

SMK-20*-G1/4*-B*-C*-SK*-W3

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Port Connection	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type B and D	none
* Seal Type	O-ring Type A	-A
	Metal Joint Type B	-B
	Elastomeric Sealing Type C	-C
	Taper Type D	-D
	O-ring Type E	-E
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Seal Type



O-ring Type A



Metal Joint Type B



Elastomeric Sealing Type C



Taper Type D¹



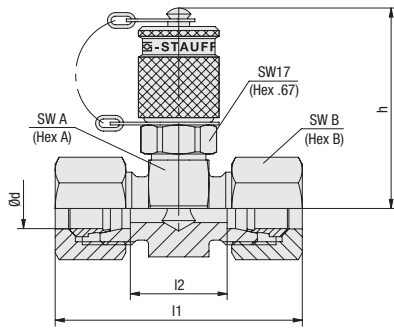
O-ring Type E

For further information on Seal Types,
please see page 74-77.

Thread	Seal Type	Working Pressure (^{bar} / _{PSI})	Dimensions (^{mm} / _{in})			Torque (^{Nm} / _{ft-lb}) ca.	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			h1	h2	Hex Thread T			
M8 x 1	Type A	250	38	8,5	17	6	6,10	SMK-20-M8x1-B-A-W3
		3625	1.50	.33	.67	4.4	13.42	
		630	38	9,8	17	12	6,70	SMK-20-M10x1-B-A-W3
M10 x 1	Type A	9137	1.50	.39	.67	8.8	14.74	
		400	37	8	17	18	6,60	SMK-20-M10x1-B-W3
M12 x 1,5	Type A	5801	1.46	.31	.67	13.3	14.52	
		630	37	12	17	35	7,00	SMK-20-M12x1.5-B-W3
M14 x 1,5	Type A	9137	1.46	.47	.67	25.8	15.40	
		630	37	12	19	55	7,50	SMK-20-M14x1.5-B-W3
M16 x 1,5	Type A	9137	1.46	.47	.75	40.6	16.50	
		630	37	12	22	70	8,40	SMK-20-M16x1.5-B-W3
G1/8	Type B	9137	1.46	.47	.87	51.6	18.48	
		400	39	8	17	18	6,90	SMK-20-G1/8-B-W3
G1/4	Type B	5801	1.54	.31	.67	13.3	15.18	
		630	37	12	19	55	7,30	SMK-20-G1/4-B-W3
G3/8	Type B	9137	1.46	.47	.75	40.6	16.06	
		630	37	12	22	90	8,90	SMK-20-G3/8-B-W3
M10 x 1	Type C	9137	1.46	.47	.87	66.4	19.58	
		400	39	8	17	18	6,80	SMK-20-M10x1-B-C-W3
M12 x 1,5	Type C	5801	1.54	.31	.67	13.3	14.96	
		630	37	12	17	35	6,90	SMK-20-M12x1.5-B-C-W3
M14 x 1,5	Type C	9137	1.46	.47	.67	25.8	15.18	
		630	37	12	19	50	7,70	SMK-20-M14x1.5-B-C-W3
M16 x 1,5	Type C	9137	1.46	.47	.75	36.9	16.94	
		630	37	12	22	60	8,70	SMK-20-M16x1.5-B-C-W3
G1/8	Type C	9137	1.46	.47	.87	44.2	19.14	
		400	39	8	17	18	6,80	SMK-20-G1/8-B-C-W3
G1/4	Type C	5801	1.54	.31	.67	13.3	14.96	
		630	37	12	19	45	8,10	SMK-20-G1/4-B-C-W3
G3/8	Type C	9137	1.46	.47	.75	33.2	17.82	
		630	37	12	22	80	8,90	SMK-20-G3/8-B-C-W3
G1/2	Type C	9137	1.46	.47	.87	59	19.58	
		630	39	14	27	110	12,80	SMK-20-G1/2-B-C-W3
R1/8 K	Type D ¹	9137	1.54	.55	1.06	81.1	28.16	
		400	37	8	17		6,70	SMK-20-R1/8K-D-W3
R1/4 K	Type D ¹	5801	1.46	.31	.67		14.74	
		630	35	12	17		7,10	SMK-20-R1/4K-D-W3
1/8 NPT	Type D ¹	9137	1.38	.47	.67		15.62	
		400	36	10	17		6,40	SMK-20-1/8NPT-D-W3
1/4 NPT	Type D ¹	5801	1.42	.39	.67		14.08	
		630	35	15	17		7,30	SMK-20-1/4NPT-D-W3
5/16-24 UNF	Type E	9137	1.38	.59	.67		16.06	
		400	38	7,5	17	8	6,70	SMK-20-5/16UNF-B-E-W3
7/16-20 UNF	Type E	5.801	1.50	.30	.67	5.9	14.74	
		630	38	9,1	17	20	7,00	SMK-20-7/16UNF-B-E-W3
1/2-20 UNF	Type E	9137	1.50	.36	.67	14.7	15.40	
		630	38	9,2	17	25	7,20	SMK-20-1/2UNF-B-E-W3
9/16-18 UNF	Type E	9137	1.50	.36	.67	18.4	15.84	
		630	37	10	19	35	7,60	SMK-20-9/16UNF-B-E-W3
3/4-16 UNF	Type E	9137	1.46	.39	.75	25.8	16.72	
		630	37	11.1	19	70	9,58	SMK-20-3/4UNF-B-E-W3
M10 x 1	Type E	9137	1.46	.44	.75	51.6	21.08	
		630	38	9,5	17	18	6,60	SMK-20-M10x1-B-E-W3
M12 x 1,5	Type E	9137	1.50	.37	.67	13.3	14.52	
		630	37	11	17	35	6,90	SMK-20-M12x1.5-B-E-W3
M14 x 1,5	Type E	9137	1.46	.43	.67	25.8	15.18	
		630	38	11	19	45	7,80	SMK-20-M14x1.5-B-E-W3
	Type E	9137	1.50	.43	.75	33.2	17.16	

¹ Suitable liquid / plastic sealant required.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

**Test Coupling with Straight 24° Fitting
SMK-20 Type G**
A


Series	PN (bar/psi)	Pipe Ød	Dimensions (mm/in)					Weight (kg/lbs) ca. per 100 ¹	Ordering Codes (Standard Option) ²
			~l1 ³	l2	h	Hex A	Hex B		
L	315 4568	6	51	21	49	24	14	14,80	SMK-20-06L-G-W3-MS
			2.01	.83	1.93	.94	.55	32.56	
		8	51	21	49	24	17	15,80	SMK-20-08L-G-W3-MS
			2.01	.83	1.93	.94	.67	34.76	
		10	53	23	49	24	19	16,70	SMK-20-10L-G-W3-MS
			2.09	.91	1.93	.94	.75	36.74	
	12	53	23	50,5	27	22	20,00	SMK-20-12L-G-W3-MS	
		2.09	.91	1.99	1.06	.87	44.00		
	15	55	25	52	30	27	26,00	SMK-20-15L-G-W3-MS	
		2.17	.98	2.05	1.18	1.06	57.20		
	18	57	24	53	32	32	32,20	SMK-20-18L-G-W3-MS	
		2.24	.94	2.09	1.26	1.26	70.84		
	160 2320	22	61	28	55	36	36	38,90	SMK-20-22L-G-W3-MS
			2.40	1.10	2.17	1.42	1.42	85.58	
		28	61	28	57,5	41	41	45,20	SMK-20-28L-G-W3-MS
			2.40	1.10	2.26	1.61	1.61	99.44	
		35	69	26	60	46	50	63,80	SMK-20-35L-G-W3-MS
			2.72	1.02	2.36	1.81	1.97	140.36	
42	71	25	64,5	55	60	88,40	SMK-20-42L-G-W3-MS		
	2.80	.98	2.54	2.17	2.36	194.48			
S	630 9137	6	55	25	49	24	17	17,10	SMK-20-06S-G-W3-MS
			2.17	.98	1.93	.94	.67	37.62	
		8	55	25	49	24	19	18,10	SMK-20-08S-G-W3-MS
			2.17	.98	1.93	.94	.75	39.82	
		10	57	24	49	24	22	20,40	SMK-20-10S-G-W3-MS
			2.24	.94	1.93	.94	.87	44.88	
	12	57	24	49	24	24	22,10	SMK-20-12S-G-W3-MS	
		2.24	.94	1.93	.94	.94	48.62		
	14	63	27	50,5	27	27	28,20	SMK-20-14S-G-W3-MS	
		2.50	1.06	1.99	1.06	1.06	62.04		
	400 5801	16	63	26	52	30	30	32,20	SMK-20-16S-G-W3-MS
			2.50	1.02	2.05	1.18	1.18	70.84	
		20	69	26	55	36	36	47,30	SMK-20-20S-G-W3-MS
			2.72	1.02	2.17	1.42	1.42	104.06	
		25	75	27	57,5	41	46	76,40	SMK-20-25S-G-W3-MS
			2.95	1.06	2.26	1.61	1.81	168.08	
	30	81	28	60	46	50	86,80	SMK-20-30S-G-W3-MS	
		3.19	1.10	2.36	1.81	1.97	190.96		
315 4568	38	91	29	64,5	55	60	127,70	SMK-20-38S-G-W3-MS	
		3.58	1.14	2.54	2.17	2.36	280.94		

Ordering Codes
***SMK*-20*-18L*-G*-SK*-W3*-MS**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight 24° Fitting	-G
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5
* Assembling / Kitting	Fitting body only	-
	Fitting body supplied with Cutting rings and union nuts	-MS
	Fitting body supplied with soft-sealing cutting rings and union nuts	-MSV

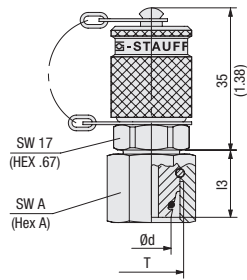
¹ Weight including cutting rings and union nuts.

² Standard option: Fitting body supplied with Cutting rings and union nuts.

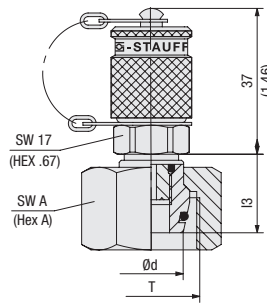
³ Approximate dimension in assembled condition.

Port acc. to ISO 8434-1 / DIN 2353

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with 24° Taper / O-ring (DKO)
SMK-20 Type K**
A


Version A



Version B



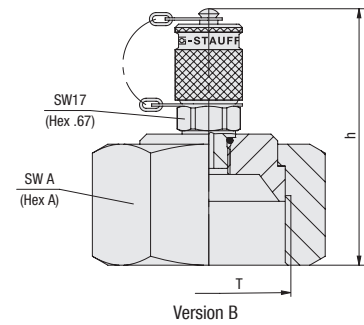
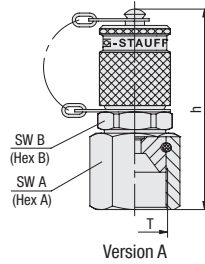
Series	PN (bar/PSI)	Pipe Ød	Dimensions (mm/in)			Thread	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
			I3	Hex A	T				
L	315 4568	6	15,5	14	M12 x 1,5	A	8,00	SMK-20-06L-B-K-W3	
			.61	.55			17.60		
		8	15,5	17	M14 x 1,5	A	8,10	SMK-20-08L-B-K-W3	
			.61	.67			17.82		
		10	16,5	19	M16 x 1,5	A	9,30	SMK-20-10L-B-K-W3	
			.65	.75			20.46		
	12	17,5	22	M18 x 1,5	A	10,60	SMK-20-12L-B-K-W3		
		.69	.87			23.32			
	15	21	27	M22 x 1,5	B	12,80	SMK-20-15L-B-K-GS-W3		
		.83	1.06			28.16			
	18	19,5	32	M26 x 1,5	B	16,20	SMK-20-18L-B-K-GS-W3		
		.77	1.26			35.64			
160 2320	22	20,5	36	M30 x 2	B	19,40	SMK-20-22L-B-K-GS-W3		
		.81	1.42			42.68			
	28	25	41	M36 x 2	B	25,10	SMK-20-28L-B-K-GS-W3		
		.98	1.61			55.22			
35	30	50	M45 x 2	B	40,50	SMK-20-35L-B-K-GS-W3			
	1.18	1.97			89.10				
42	31	60	M52 x 2	B	58,10	SMK-20-42L-B-K-GS-W3			
	1.22	2.36			127.82				
S	630 9137	6	14,5	17	M14 x 1,5	A	7,50	SMK-20-06S-B-K-W3	
			.57	.67			16.50		
		8	16,5	19	M16 x 1,5	A	8,70	SMK-20-08S-B-K-W3	
			.65	.75			19.14		
		10	16,5	22	M18 x 1,5	A	10,20	SMK-20-10S-B-K-W3	
	.65		.87	22.44					
	12	17,5	24	M20 x 1,5	A	11,70	SMK-20-12S-B-K-W3		
		.69	.94			25.74			
	14	19,5	27	M22 x 1,5	B	13,10	SMK-20-14S-B-K-GS-W3		
		.77	1.06			28.82			
	400 5801	16	18	30	M24 x 1,5	B	15,40	SMK-20-16S-B-K-GS-W3	
			.71	1.18			33.88		
20		24	36	M30 x 2	B	22,00	SMK-20-20S-B-K-GS-W3		
		.94	1.42			48.40			
25	26	46	M36 x 2	B	36,60	SMK-20-25S-B-K-GS-W3			
	1.02	1.81			80.52				
30	30	50	M42 x 2	B	42,70	SMK-20-30S-B-K-GS-W3			
	1.18	1.97			93.94				
315 4568	38	34	60	M52 x 2	B	63,70	SMK-20-38S-B-K-GS-W3		
		1.34	2.36			140.14			

Ordering Codes
***SMK*-20*-18L*-B*-K*-GS*-SK*-W3**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
* Connection	24° Taper / O-ring (DKO)	-K
* Design	One-piece design (Version A)	-
	Screwed design (Version B)	-GS
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

With 24° Taper / O-ring (DKO) Connection acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Test Coupling with 37° JIC Connection SMK-20-JIC Type K



Ordering Codes

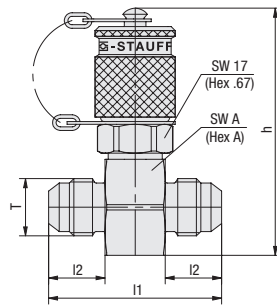
***SMK*-20*-JIC3/4*-K*-GS*-SK*-W3**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	37° JIC Taper	-K
* Design	One-piece design (Version A) Screwed design (Version B)	- -GS
* Protection Cap	Knurled protection cap Hexagonal protection cap Plastic protection cap	- -SK -KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Pipe Ø inch	JIC- Size	Dimensions (mm/in)			Thread	Version	Weight (#/lbs) ca. per 100	Ordering Codes (Standard Option)
		h	Hex A	Hex B				
1/4	-4	53	17	17	7/16-20 UNF	A	8,40	SMK-20-JIC1/4-K-W3
		2.09	.67	.67			18.48	
5/16	-5	53,5	17	17	1/2-20 UNF	A	8,30	SMK-20-JIC5/16-K-W3
		2.11	.67	.67			18.26	
3/8	-6	55,5	19	17	9/16-18 UNF	A	9,10	SMK-20-JIC3/8-K-W3
		2.19	.75	.67			20.02	
1/2	-8	56,5	22	19	3/4-16 UNF	A	10,40	SMK-20-JIC1/2-K-W3
		2.22	.87	.75			22.88	
5/8	-10	60	27	22	7/8-14 UNF	A	14,20	SMK-20-JIC5/8-K-W3
		2.36	1.06	.87			31.24	
3/4	-12	70,5	32	-	1-1/16-12 UN	B	17,70	SMK-20-JIC3/4-K-GS-W3
		2.78	1.26	-			38.94	
1	-16	69	38	-	1-5/16-12 UN	B	26,90	SMK-20-JIC1-K-GS-W3
		2.72	1.50	-			59.18	
1-1/4	-20	73,5	50	-	1-5/8-12 UN	B	40,20	SMK-20-JIC1-1/4-K-GS-W3
		2.89	1.97	-			88.44	
1-1/2	-24	76	60	-	1-7/8-12 UN	B	63,50	SMK-20-JIC1-1/2-K-GS-W3
		2.99	2.36	-			139.70	

With 37° JIC Connection acc. to SAE J514

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with Straight 37° JIC Connection
SMK-20-JIC Type G**
A


Pipe Ø inch	JIC- Size	Dimensions (mm/in)				Thread T	Weight (*9/lbs) ca. per 100	Ordering Codes (Standard Option)
		l1	l2	h	Hex A			
1/4	-4	43	14	61	24	7/16-20 UNF	13,70	SMK-20-JIC1/4-G-W3
		1.69	.55	2.40	.94		30.14	
5/16	-5	43	14	61	24	1/2-20 UNF	12,90	SMK-20-JIC5/16-G-W3
		1.69	.55	2.40	.94		28.38	
3/8	-6	43	14	61	24	9/16-18 UNF	13,00	SMK-20-JIC3/8-G-W3
		1.69	.55	2.40	.94		28.60	
1/2	-8	48,5	16,5	67	30	3/4-16 UNF	17,90	SMK-20-JIC1/2-G-W3
		1.91	.65	2.64	1.18		39.38	
5/8	-10	53,5	19,5	67	30	7/8-14 UNF	20,70	SMK-20-JIC5/8-G-W3
		2.11	.77	2.64	1.18		45.54	
3/4	-12	59	22	73	36	1-1/16-12 UN	27,00	SMK-20-JIC3/4-G-W3
		2.32	.87	2.87	1.42		59.40	
1	-16	61	23	78	41	1-5/16-12 UN	32,60	SMK-20-JIC1-G-W3
		2.40	.91	3.07	1.61		71.72	
1-1/4	-20	65,5	24,5	83	46	1-5/8-12 UN	45,30	SMK-20-JIC1-1/4-G-W3
		2.58	.96	3.26	1.81		99.66	
1-1/2	-24	72	27,5	92	55	1-7/8-12 UN	58,30	SMK-20-JIC1-1/2-G-W3
		2.83	1.08	3.62	2.17		128.26	

With Straight 37° JIC Connection acc. to SAE J514

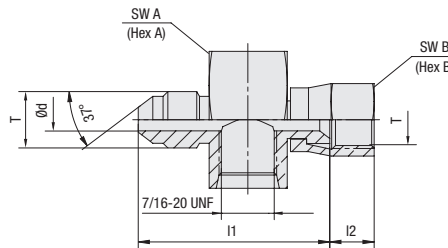
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes
***SMK*-20*-JIC3/4*-G*-SK*-W3**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight Fitting	-G
* Protection Cap	Knurled protection cap Hexagonal protection cap Plastic protection cap	- -SK -KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

**Swivel Run Tee with 37° JIC Connection
SGV-JIC Type FM**

A



Ordering Codes

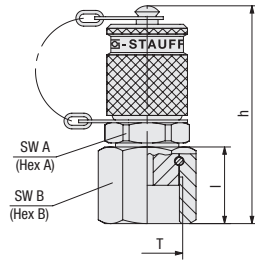
***SGV*-7/16UNF*-12*-JIC3/4*-FM*-W66**

* Type	Swivel Run Tee	SGV
* Port Connection	acc. to dimension table	-7/16UNF
* JIC Size	acc. to dimension table	-12
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Connection	Female/Male Thread	-FM
* Material Code	Carbon Steel, zinc-plated and thick-film passivated	-W66

Pipe Ø inch	JIC-Size	Dimensions (mm/in)						Thread T inch	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
		Ø d	l1	l2	Hex A	Hex B				
1/4	04	4,37	37,74	8,74	27	14,29	7/16-20 UNF	8,96	SGV-7/16UNF-04-JIC1/4-FM-W66	
		.17	1.49	.34	1.06	.56		19.71		
3/8	06	7,54	40,01	9,53	27	17,46	9/16-18 UNF	9,60	SGV-7/16UNF-06-JIC3/8-FM-W66	
		.30	1.58	.38	1.06	.69		21.12		
1/2	08	9,93	44,65	10,72	27	22,23	3/4-16 UNF	11,20	SGV-7/16UNF-08-JIC1/2-FM-W66	
		.39	1.76	.42	1.06	.88		24.64		
5/8	10	12,29	48,26	12,70	28,58	25,40	7/8-14 UNF	17,10	SGV-7/16UNF-10-JIC5/8-FM-W66	
		.48	1.90	.50	1.13	1.00		37.62		
3/4	12	15,47	51,33	14,45	31,75	31,75	1-1/16-12 UN	20,40	SGV-7/16UNF-12-JIC3/4-FM-W66	
		.61	2.02	.57	1.25	1.25		44.88		
1	16	21,44	57,30	15,09	38,10	38,10	1-5/16-12 UN	30,80	SGV-7/16UNF-16-JIC1-FM-W66	
		.84	2.26	.59	1.50	1.50		67.76		

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.



**Test Coupling with ORFS Connection
SMK-20 Type ORFS**
A


Thread T	ORFS- Size	Dimensions (^{mm} / _{in})				Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
		h	l	Hex A	Hex B		
9/16-18 UNF	04	54	19	17	19	9,50	SMK-20-04-ORFS-W3
		2.1	.75	.67	.75	20.90	
11/16-16 UN	06	54	19	19	21	9,80	SMK-20-06-ORFS-W3
		2.1	.75	.75	.80	21.60	
13/16-16 UN	08	54	19	22	24	11,69	SMK-20-08-ORFS-W3
		2.1	.75	.87	.87	25.73	

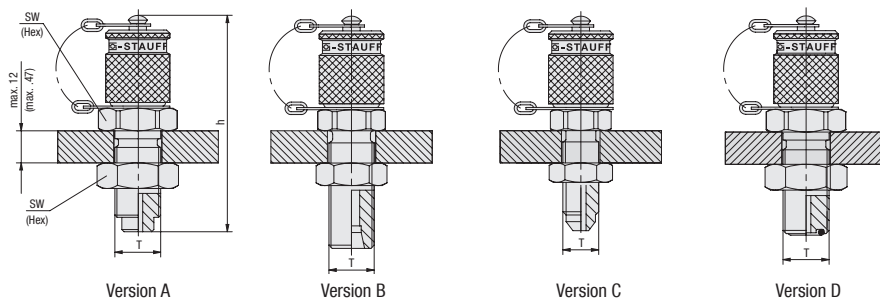
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes
***SMK*-20*-06*-ORFS*-SK*-W3**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* ORFS-Size	acc. to dimension table	-06
* Connection	ORFS	-ORFS
* Seal Material	FKM (Viton®) EPDM	none -E
* Protection Cap	Knurled protection cap Hexagonal protection cap Plastic protection cap	- -SK -KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

**Bulkhead
SSK-20**

A



Ordering Codes

***SSK*-20*-JIC1/4*-M*-SK*-W3**

* Type	Bulkhead with Ball Check	SSK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	1/4
* Connection	Male Thread	-M
* Seal Material	NBR (Buna-N®) FKM (Viton®) EPDM Version A/B/C	-B -V -E none
* Protection Cap	Knurled protection cap Hexagonal protection cap Plastic protection cap	- -SK -KK
* Material Code	Steel, zinc/nickel-plated Stainless Steel V2A - 1.4305 (AISI 303) Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W3 -W4 -W5

Thread T	Dimensions (mm/in)		Version	Weight (^{kg} /lbs) ca. per 100	Ordering Codes (Standard Option)
	h	Hex			
M16 x 2	72	19	A	10,80	SSK-20-W3
	2.83	.75		23,76	
M14 x 1,5 ¹	72	19	B	10,10	SSK-20/08L-W3
	2.83	.75		22,22	
M16 x 1,5 ¹	72	22	B	12,30	SSK-20/08S-W3
	2.83	.87		27,06	
M18 x 1,5 ¹	72	24	B	11,90	SSK-20/12L-W3
	2.83	.94		26,18	
7/16-20 UNF ²	66	17	C	12,30	SSK-20-JIC1/4-M-W3
	2.60	.67		27,11	
9/16-18 UNF ³	67	22	D	12,00	SSK-20-04-ORFS-B-W3
	2.64	.87		26,40	
11/16-16 UN ³	72	27	D	16,10	SSK-20-06-ORFS-B-W3
	2.83	1.06		35,42	
13/16-16 UNF ³	75	30	D	10,00	SSK-20-08-ORFS-B-W3
	2.95	1.18		22,04	

Also available for gaseous media: Type SSKK

¹ Compression ring assembly 08L/ 08S/ 12L according to ISO 8434-1 / DIN 2353

² JIC cone fitting according to SAE J514

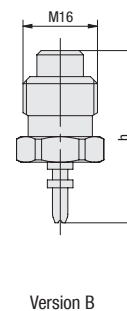
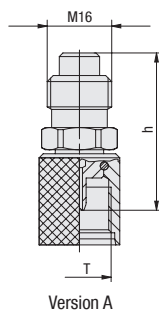
³ O-ring face sealing according to SAE J1453

Standard option: With Hexagon Lock Nut.

Standard option - Version B: Excluding cutting rings and union nuts

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Adaptor
SAD-20**



Ordering Codes

***SAD*-20/15*-W3**

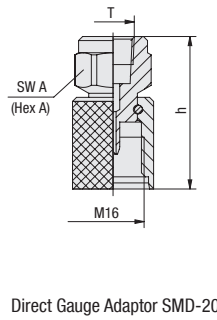
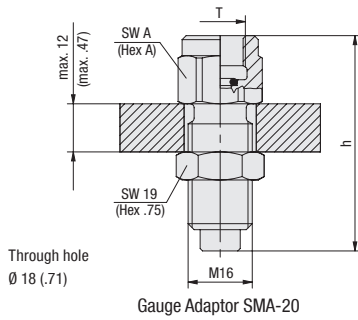
* Type	Test Adaptor	SAD
* Connection Type	Version A Version A Version B	-20/15 -20/12 -20/10
* Seal Material	FKM (Viton®) EPDM	none -E
* Material Code	Steel, zinc/nickel-plated Stainless Steel V2A - 1.4305 (AISI 303) Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W3 -W4 -W5

Thread T	Dimensions (mm/in)		Version	Weight (^{kg} /lbs) ca. per 100	Ordering Codes (Standard Option)
	h				
M16 x 1,5	39		A	5,80	SAD-20/15-W3
	1.54			12,76	
S12 ¹	39		A	5,30	SAD-20/12-W3
	1.54			11,66	
Plug in	37		B	3,40	SAD-20/10-W3
	1.46			7,48	

¹ Special thread: buttress thread S12,65 x1,5

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).


**Gauge Adaptor
SMA-20**
**Direct Gauge Adaptor
SMD-20**

A

Thread	Dimensions (mm/in)		Weight (^{kg} /lbs) ca. per 100	Ordering Codes (Standard Option)
	T	h		
G1/4	54	19	7,20	SMA-20-G1/4-B-OR-W3
	2.13	.75	15.84	
G1/2	64	27	12,40	SMA-20-G1/2-B-OR-W3
	2.52	1.06	27.28	
1/4 NPT	54	19	7,20	SMA-20-1/4NPT-W3
	2.13	.75	15.84	
1/2 NPT	64	27	13,50	SMA-20-1/2NPT-W3
	2.52	1.06	29.70	
7/16-20 UNF	54	19	7,60	SMA-20-7/16UNF-B-W3
	2.16	.75	16.76	
9/16-18 UNF	57	19	7,50	SMA-20-9/16UNF-B-W3
	2.24	.75	16.53	
G1/4	41	19	5,70	SMD-20-G1/4-B-OR-W3
	1.61	.75	12.54	
G1/2	51	27	10,10	SMD-20-G1/2-B-OR-W3
	2.01	1.06	22.22	
1/4 NPT	41	19	5,80	SMD-20-1/4NPT-W3
	1.61	.75	12.76	
1/2 NPT	51	27	10,80	SMD-20-1/2NPT-W3
	2.01	1.06	23.76	
7/16-20 UNF	41	19	6,00	SMD-20-7/16UNF-W3
	1.61	.75	13.20	
9/16-18 UNF	43	19	5,25	SMD-20-9/16UNF-W3
	1.69	.75	11.55	

Ordering Codes
***SMA*-20*-G1/4*-B*-OR*-W3**

* Type	Gauge Adaptor	SMA
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Thread	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®) FKM (Viton®) EPDM Seal Type without O-ring	-B -V -E none
* Seal Type	with O-ring	-OR
* Material Code	Steel, zinc/nickel-plated Stainless Steel V2A - 1.4305 (AISI 303) Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W3 -W4 -W5

Standard option - SMA-20: With Hexagon Lock Nut.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Snubber on request.

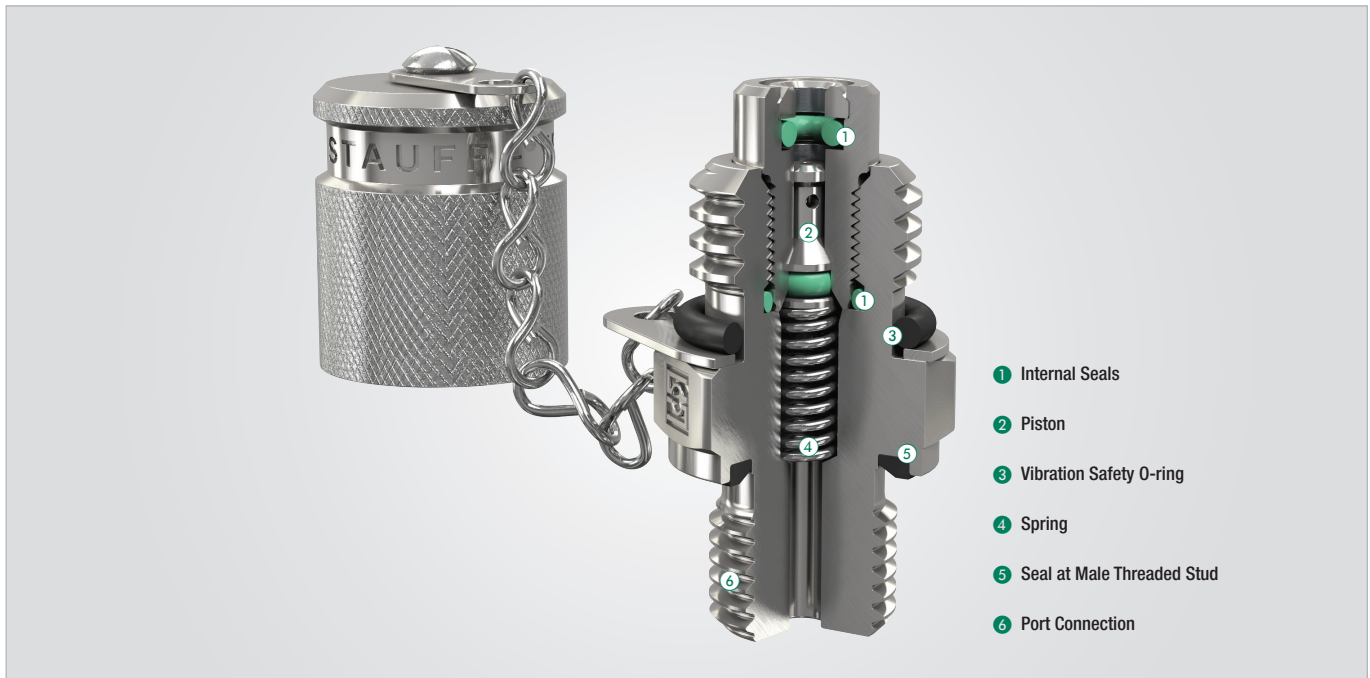
Test Coupling with Piston Valve
SKK-20

A



Test Coupling with Piston Valve SKK-20

A



Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems
- Filling of accumulators (special filling-version)
- Connection Thread according to ISO 15171-2

Advantages

- Test system at working pressure
- Leakproof connection before **piston valve** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

Working Pressure

- Max. working pressure 630 bar / 9137 PSI
For SKK Type G and K the recommended working pressure of fitting manufacturer should be noted.
- Connection under pressure up to 400 bar / 5801 PSI max.

DVGW

- DVGW registration as test points for gas pressure controlsystems, issued by the German Technical and Scientific Association for Gas and Water
- The DVGW approval relates solely to the SKK-12 and SKK-20 series with connection types:
 - M8x1-V-A-DVGW
 - M10x1-V-A-DVGW
 - 1/8NPT-V-D-DVGW
 - 1/4NPT-V-D-DVGW

Protection Cap

- The complete STAUFF-Test-20-Type-SKK range is also available with a hexagonal protection cap made of steel or plastic protection cap.

Media

- Suitable for hydraulic oils and other Mineral oil based fluids (Check compatibility of sealing material)
- For use with other liquid media please contact STAUFF
- In case of ultimate tightness requirements for gaseous media, a special Gas-type is available

Materials

- **Metal Parts:**
Standard material: Steel, zinc/nickel-plated = **W3**
Optional:
Stainless Steel **W4** (1.4305 / AISI 303) on request
Stainless Steel **W5** (1.4571 / AISI 316Ti) on request

- **Seal Types:**
B = NBR (Buna-N®)
(Temperature range -20 °C ... +100 °C / -4 °F ... +212 °F)
Note: Internal sealings made of FKM, even for standard NBR-type.




V = FKM (Viton®)*
(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

E = EPDM Ethylene Propylene Diene Monomer Rubber
(for Brake fluid, Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)

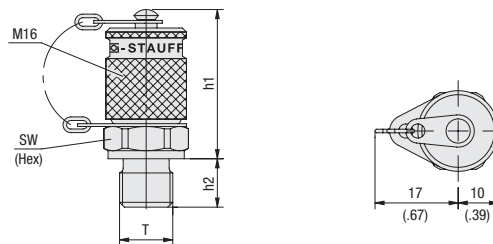
* Vibration safety O-ring made of NBR (Buna-N®).

Colour Marking Rings

- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

SKK-20 Test Coupling with Male Threaded Stud and optionally colour marking ring	SKK-20 Type G Test Coupling with Straight 24° Fitting	SKK-20 Type K Test Coupling With 24° Taper / O-ring (DKO)
		

Test Coupling with Male Threaded Stud SKK-20



Ordering Codes

SKK-20*-G1/4*-B*-C*-SK*-W3

* Type	Test Coupling with Piston Valve	SKK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Port Connection	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type B and D	none
* Seal Type	O-ring Type A	-A
	Metal Joint Type B	-B
	Elastomeric Sealing Type C	-C
	Taper Type D	-D
	O-ring Type E	-E
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Seal Type



O-ring Type A



Metal Joint Type B



Elastomeric Sealing Type C



Taper Type D¹



O-ring Type E

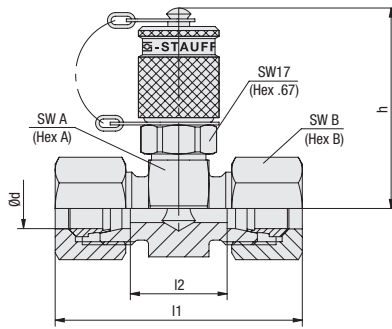
Thread	Seal Type	Working Pressure (^{bar} / _{PSI})	Dimensions (^{mm} / _{in})			Torque (^{Nm} / _{ft-lb}) ca.	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			h1	h2	Hex Thread T			
M8 x 1	Type A	250	38	8,5	17	6	6,40	SKK-20-M8x1-B-A-W3
		3625	1.50	.33	.67	4.4	14.08	
M10 x 1	Type A	630	38	9,8	17	12	6,90	SKK-20-M10x1-B-A-W3
		9137	1.50	.39	.67	8.8	15.18	
M12 x 1,5	Type A	630	37	12	17	35	7,50	SKK-20-M12x1.5-B-W3
		9137	1.46	.47	.67	25.8	16.50	
M14 x 1,5	Type A	630	37	12	19	55	7,70	SKK-20-M14x1.5-B-W3
		9137	1.46	.47	.75	40.6	16.94	
M16 x 1,5	Type B	630	37	12	22	70	8,80	SKK-20-M16x1.5-B-W3
		9137	1.46	.47	.87	51.6	19.36	
G1/4	Type B	630	37	12	19	55	7,60	SKK-20-G1/4-B-W3
		9137	1.46	.47	.75	40.6	16.72	
G3/8	Type B	630	37	12	22	90	9,10	SKK-20-G3/8-B-W3
		9137	1.46	.47	.87	66.4	20.02	
M10 x 1	Type C	400	39	8	17	18	7,10	SKK-20-M10x1-B-C-W3
		5801	1.54	.31	.67	13.3	15.62	
M12 x 1,5	Type C	630	37	12	17	35	6,90	SKK-20-M12x1.5-B-C-W3
		9137	1.46	.47	.67	25.8	15.18	
M14 x 1,5	Type C	630	37	12	19	50	7,70	SKK-20-M14x1.5-B-C-W3
		9137	1.46	.47	.75	36.9	16.94	
M16 x 1,5	Type C	630	37	12	22	60	8,80	SKK-20-M16x1.5-B-C-W3
		9137	1.46	.47	.87	44.2	19.36	
G1/8	Type C	400	39	8	17	18	7,00	SKK-20-G1/8-B-C-W3
		5801	1.54	.31	.67	13.3	15.40	
G1/4	Type C	630	37	12	19	45	7,80	SKK-20-G1/4-B-C-W3
		9137	1.46	.47	.75	33.2	17.16	
G3/8	Type C	630	37	12	22	80	9,20	SKK-20-G3/8-B-C-W3
		9137	1.46	.47	.87	59	20.24	
G1/2	Type C	630	39	14	27	110	12,70	SKK-20-G1/2-B-C-W3
		9137	1.54	.55	1.06	81.1	27.94	
R1/8 K	Type D ¹	400	37	8	17		6,60	SKK-20-R1/8K-D-W3
		5801	1.46	.31	.67		14.52	
R1/4 K	Type D ¹	630	35	12	17		7,20	SKK-20-R1/4K-D-W3
		9137	1.38	.47	.67		15.84	
1/8 NPT	Type D ¹	400	36	10	17		6,30	SKK-20-1/8NPT-D-W3
		5801	1.42	.39	.67		13.86	
1/4 NPT	Type D ¹	630	35	15	17		7,10	SKK-20-1/4NPT-D-W3
		9137	1.38	.59	.67		15.62	
5/16-24 UNF	Type E	400	38	7,5	17	8	6,60	SKK-20-5/16UNF-B-E-W3
		5801	1.50	.30	.67	5.9	14.52	
7/16-20 UNF	Type E	630	38	9,1	17	20	7,30	SKK-20-7/16UNF-B-E-W3
		9137	1.50	.36	.67	14.7	16.06	
1/2-20 UNF	Type E	630	38	9,2	17	25	7,10	SKK-20-1/2UNF-B-E-W3
		9137	1.50	.36	.67	18.4	15.62	
9/16-18 UNF	Type E	630	37	10	19	35	7,80	SKK-20-9/16UNF-B-E-W3
		9137	1.46	.39	.75	25.8	17.16	
M12 x 1,5	Type E	630	37	11	17	35	6,90	SKK-20-M12x1.5-B-E-W3
		9137	1.46	.43	.67	25.8	15.21	
M14 x 1,5	Type E	630	38	11	19	45	7,60	SKK-20-M14x1.5-B-E-W3
		9137	1.50	.43	.75	33.2	16.72	

¹ Suitable liquid / plastic sealant required.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

For further information on Seal Types,
please see page 74-77.



**Test Coupling with Straight 24° Fitting
SKK-20 Type G**
A


Series	PN (bar/PSI)	Pipe Ød	Dimensions (mm/in)					Weight (kg/lbs) ca. per 100 ¹	Ordering Codes (Standard Option) ²
			~l1 ³	l2	h	Hex A	Hex B		
L	315 4568	6	51	21	49	24	14	14,70	SKK-20-06L-G-W3-MS
			2.01	.83	1.93	.94	.55	32,34	
		8	51	21	49	24	17	15,90	SKK-20-08L-G-W3-MS
			2.01	.83	1.93	.94	.67	34,98	
		10	53	23	49	24	19	17,00	SKK-20-10L-G-W3-MS
			2.09	.91	1.93	.94	.75	37,40	
		12	53	23	50,5	27	22	19,80	SKK-20-12L-G-W3-MS
	2.09		.91	1.99	1.06	.87	43,56		
	15	55	25	52	30	27	25,90	SKK-20-15L-G-W3-MS	
		2.17	.98	2.05	1.18	1.06	56,98		
	18	57	24	53	32	32	32,00	SKK-20-18L-G-W3-MS	
		2.24	.94	2.09	1.26	1.26	70,40		
	160 2320	22	61	28	55	36	36	38,90	SKK-20-22L-G-W3-MS
			2.40	1.10	2.17	1.42	1.42	85,58	
28		61	28	57,5	41	41	45,00	SKK-20-28L-G-W3-MS	
		2.40	1.10	2.26	1.61	1.61	99,00		
35		69	26	60	46	50	63,80	SKK-20-35L-G-W3-MS	
	2.72	1.02	2.36	1.81	1.97	140,36			
42	71	25	64,5	55	60	88,30	SKK-20-42L-G-W3-MS		
S	630 9137	6	55	25	49	24	17	17,10	SKK-20-06S-G-W3-MS
			2.17	.98	1.93	.94	.67	37,62	
		8	55	25	49	24	19	18,10	SKK-20-08S-G-W3-MS
			2.17	.98	1.93	.94	.75	39,82	
		10	57	24	49	24	22	21,10	SKK-20-10S-G-W3-MS
			2.24	.94	1.93	.94	.87	46,42	
	12	57	24	49	24	24	22,00	SKK-20-12S-G-W3-MS	
		2.24	.94	1.93	.94	.94	48,40		
	14	63	27	50,5	27	27	28,20	SKK-20-14S-G-W3-MS	
		2.50	1.06	1.99	1.06	1.06	62,17		
	400 5801	16	63	26	52	30	30	32,60	SKK-20-16S-G-W3-MS
			2.50	1.02	2.05	1.18	1.18	71,72	
		20	69	26	55	36	36	47,30	SKK-20-20S-G-W3-MS
			2.72	1.02	2.17	1.42	1.42	104,06	
25		75	27	57,5	41	46	74,00	SKK-20-25S-G-W3-MS	
	2.95	1.06	2.26	1.61	1.81	162,80			
30	81	28	60	46	50	87,70	SKK-20-30S-G-W3-MS		
315 4568	38	91	29	64,5	55	60	128,10	SKK-20-38S-G-W3-MS	
		3.58	1.14	2.54	2.17	2.36	281,82		

Ordering Codes
***SKK*-20*-18L*-G*-SK*-W3*-MS**

* Type	Test Coupling with Piston Valve	SKK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight 24° Fitting	-G
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5
* Assembling / Kitting	Fitting body only	-
	Fitting body supplied with Cutting rings and union nuts	-MS
	Fitting body supplied with soft-sealing cutting rings and union nuts	-MSV

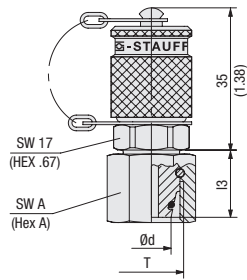
¹ Weight including cutting rings and union nuts.

² Standard option: Fitting body supplied with Cutting rings and union nuts.

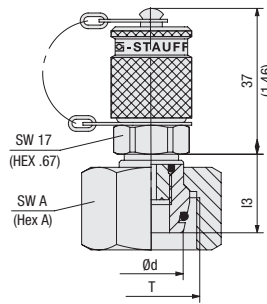
³ Approximate dimension in assembled condition.

Port acc. to ISO 8434-1 / DIN 2353

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with 24° Taper / O-ring (DKO)
SKK-20 Type K**
A


Version A



Version B



Series	PN (^{bar} / _{PSI})	Pipe Ød	Dimensions (^{mm} / _{in})			Thread	Version	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			I3	Hex A	T				
L	315 4568	6	15,5	14	M12 x 1,5	A	8,10	SKK-20-06L-B-K-W3	
			.61	.55			17.82		
		8	15,5	17	M14 x 1,5	A	7,80	SKK-20-08L-B-K-W3	
			.61	.67			17.16		
		10	16,5	19	M16 x 1,5	A	9,20	SKK-20-10L-B-K-W3	
			.65	.75			20.24		
	12	17,5	22	M18 x 1,5	A	10,50	SKK-20-12L-B-K-W3		
		.69	.87			23.10			
	15	21	27	M22 x 1,5	B	13,10	SKK-20-15L-B-K-GS-W3		
		.83	1.06			28.82			
	18	19,5	32	M26 x 1,5	B	16,40	SKK-20-18L-B-K-GS-W3		
		.77	1.26			36.08			
160 2320	22	20,5	36	M30 x 2	B	20,00	SKK-20-22L-B-K-GS-W3		
		.81	1.42			44.00			
	28	25	41	M36 x 2	B	26,50	SKK-20-28L-B-K-GS-W3		
		.98	1.61			58.30			
35	30	50	M45 x 2	B	46,20	SKK-20-35L-B-K-GS-W3			
	1.18	1.97			101.64				
42	31	60	M52 x 2	B	58,90	SKK-20-42L-B-K-GS-W3			
	1.22	2.36			129.58				
S	630 9137	6	14,5	17	M14 x 1,5	A	8,00	SKK-20-06S-B-K-W3	
			.57	.67			17.60		
		8	16,5	19	M16 x 1,5	A	8,80	SKK-20-08S-B-K-W3	
			.65	.75			19.36		
	10	16,5	22	M18 x 1,5	A	10,30	SKK-20-10S-B-K-W3		
		.65	.87			22.66			
	12	17,5	24	M20 x 1,5	A	12,00	SKK-20-12S-B-K-W3		
		.69	.94			26.40			
	14	19,5	27	M22 x 1,5	B	13,20	SKK-20-14S-B-K-GS-W3		
		.77	1.06			29.04			
	400 5801	16	18	30	M24 x 1,5	B	15,40	SKK-20-16S-B-K-GS-W3	
			.71	1.18			33.88		
20		24	36	M30 x 2	B	22,10	SKK-20-20S-B-K-GS-W3		
		.94	1.42			48.62			
25	26	46	M36 x 2	B	36,20	SKK-20-25S-B-K-GS-W3			
	1.02	1.81			79.64				
30	30	50	M42 x 2	B	43,20	SKK-20-30S-B-K-GS-W3			
	1.18	1.97			95.04				
315 4568	38	34	60	M52 x 2	B	64,60	SKK-20-38S-B-K-GS-W3		
		1.34	2.36			142.12			

Ordering Codes
***SKK*-20*-18L*-B*-K*-GS*-SK*-W3**

* Type	Test Coupling with Piston Valve	SKK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
* Connection	24° Taper / O-ring (DKO)	-K
* Design	One-piece design (Version A)	-
	Screwed design (Version B)	-GS
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

With 24° Taper / O-ring (DKO) Connection acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Test Coupling with Ball Check
SMK-15

A



Test Coupling with Ball Check SMK-15

A



Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems

Advantages

- Test system at working pressure
- Leak proof connection before **Ball Check** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

Working Pressure

- Max. working pressure 630 bar / 9137 PSI
For SMK Type G and K the recommended working pressure of fitting manufacturer should be noted.
- Connection under pressure up to 630 bar / 9137 PSI max.

Materials

- **Metal Parts:**
Standard Material Code: Steel, zinc/nickel-plated, black = **W3**
Optional:
Stainless Steel **W4** (1.4305 / AISI 303) on request
Stainless Steel **W5** (1.4571 / AISI 316Ti) on request

- **Ball:** Stainless Steel

- **Seal Types:**
B = NBR (Buna-N®)
(Temperature range -20 °C ... +100 °C / -4 °F ... +212 °F)
Note: Internal sealings made of FKM, even for standard NBR-type.

V = FKM (Viton®)*
(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

E = EPDM Ethylene Propylene Diene Monomer Rubber
(for Brake fluid, Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)

* Vibration safety O-ring made of NBR (Buna-N®).

Media

- Suitable for hydraulic oils and other Mineral oil based fluid (Check compatibility of seal material)
- For use with other liquid media please contact STAUFF

Protection Cap





- The complete STAUFF-Test-15-Type-SMK range is also available with a hexagonal protection cap made of steel.

Colour Marking Rings

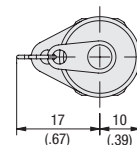
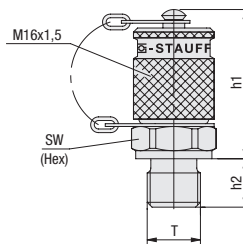
- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

Note

- On request TEST 15 is also available as SKK-type including "Gas"- and "Filling"-versions.

SMK-15 Test Coupling with Male Threaded Stud and optionally colour marking ring	SMK-15 Type G Test Coupling with Straight 24° Fitting	SMK-15 Type K Test Coupling With 24° Taper / O-ring (DKO)	SSK-15 Bulkhead
			

Test Coupling with Male Threaded Stud SMK-15



Ordering Codes

SMK-15*-G1/4*-B*-C*-SK*-W3

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 15 (Connection Thread M16x1,5)	-15
* Port Connection	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type B and D	none
* Seal Type	O-ring Type A	-A
	Metal Joint Type B	-B
	Elastomeric Sealing Type C	-C
	Taper Type D	-D
	O-ring Type E	-E
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Thread	Seal Type	Working Pressure (bar/psi)	Dimensions (mm/in)			Torque (Nm/lb-ft) ca.	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
			h1	h2	Hex Thread T			
M10 x 1	Type A	630	38	9,8	17	12	6,90	SMK-15-M10x1-B-A-W3
		9137	1.50	.39	.67	8.8	15.18	
M14 x 1,5		630	37	12	19	55	7,90	SMK-15-M14x1.5-B-W3
		9137	1.46	.47	.75	40.6	17.38	
M16 x 1,5		630	37	12	22	70	8,80	SMK-15-M16x1.5-B-W3
		9137	1.46	.47	.87	51.6	19.36	
G1/8	Type B	400	39	8	17	18	6,90	SMK-15-G1/8-B-W3
		5801	1.54	.31	.67	13.3	15,21	
G1/4		630	37	12	19	55	7,60	SMK-15-G1/4-B-W3
		9137	1.46	.47	.75	40.6	16.72	
G3/8		630	37	12	22	90	9,00	SMK-15-G3/8-B-W3
		9137	1.46	.47	.87	66.4	19.80	
M12 x 1,5		630	37	12	17	35	7,10	SMK-15-M12x1.5-B-C-W3
		9137	1.46	.47	.67	25.8	15.62	
M14 x 1,5		630	37	12	19	50	7,70	SMK-15-M14x1.5-B-C-W3
		9137	1.46	.47	.75	36.9	16.94	
M16 x 1,5	Type C	630	37	12	22	60	8,50	SMK-15-M16x1.5-B-C-W3
		9137	1.46	.47	.87	44.2	18.70	
G1/8		400	39	8	17	18	6,60	SMK-15-G1/8-B-C-W3
		5801	1.54	.31	.67	13.3	14.52	
G1/4		630	37	12	19	45	7,60	SMK-15-G1/4-B-C-W3
		9137	1.46	.47	.75	33.2	16.72	
R1/4 K		630	35	12	17		7,10	SMK-15-R1/4K-D-W3
		9137	1.38	.47	.67		15.62	
1/8 NPT	Type D ¹	400	36	10	17		6,50	SMK-15-1/8NPT-D-W3
		5801	1.42	.39	.67		14.30	
1/4 NPT		630	35	15	17		7,20	SMK-15-1/4NPT-D-W3
		9137	1.38	.59	.67		15.84	
7/16-20 UNF		630	38	9,1	17	20	7,00	SMK-15-7/16UNF-B-E-W3
		9137	1.50	.36	.67	14.7	15.40	
9/16-18 UNF	Type E	630	37	10	19	35	7,60	SMK-15-9/16UNF-B-E-W3
		9137	1.46	.39	.75	25.5	16.72	
M14 x 1,5		630	38	11	19	45	7,80	SMK-15-M14x1.5-B-E-W3
		9137	1.50	.43	.75	33.2	17.20	

Seal Type



O-ring Type A



Metal Joint Type B



Elastomeric Sealing Type C



Taper Type D¹

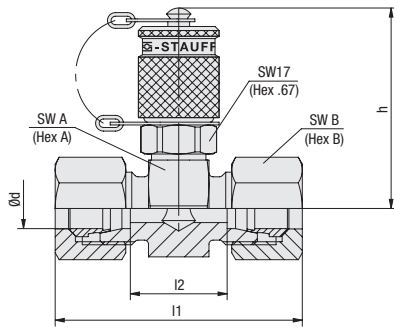


O-ring Type E

¹ Suitable liquid / plastic sealant required.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

For further information on Seal Types,
please see page 74-77.

**Test Coupling with Straight 24° Fitting
SMK-15 Type G**
A


Series	PN (bar/PSI)	Pipe Ød	Dimensions (mm/in)					Weight (kg/lbs) ca. per 100 ¹	Ordering Codes (Standard Option) ²
			~l1 ³	l2	h	Hex A	Hex B		
L	315 4568	6	51	21	49	24	14	14,20	SMK-15-06L-G-W3-MS
			2.01	.83	1.93	.94	.55	31.24	
		8	51	21	49	24	17	15,40	SMK-15-08L-G-W3-MS
			2.01	.83	1.93	.94	.67	33.88	
		10	53	23	49	24	19	17,20	SMK-15-10L-G-W3-MS
			2.09	.91	1.93	.94	.75	37.84	
		12	53	23	50,5	27	22	19,80	SMK-15-12L-G-W3-MS
	2.09		.91	1.99	1.06	.87	43.56		
	15	55	25	52	30	27	25,50	SMK-15-15L-G-W3-MS	
		2.17	.98	2.05	1.18	1.06	56.10		
	18	57	24	53	32	32	31,40	SMK-15-18L-G-W3-MS	
		2.24	.94	2.09	1.26	1.26	69.08		
	160 2320	22	61	28	55	36	36	38,10	SMK-15-22L-G-W3-MS
			2.40	1.10	2.17	1.42	1.42	83.82	
28		61	28	57,5	41	41	45,70	SMK-15-28L-G-W3-MS	
		2.40	1.10	2.26	1.61	1.61	100.54		
35		69	26	60	46	50	65,00	SMK-15-35L-G-W3-MS	
	2.72	1.02	2.36	1.81	1.97	143.00			
42	71	25	64,5	55	60	87,40	SMK-15-42L-G-W3-MS		
	2.80	.98	2.54	2.17	2.36	192.28			
S	630 9137	6	55	25	49	24	17	17,00	SMK-15-06S-G-W3-MS
			2.17	.98	1.93	.94	.67	37.40	
		8	55	25	49	24	19	18,00	SMK-15-08S-G-W3-MS
			2.17	.98	1.93	.94	.75	39.60	
		10	57	24	49	24	22	20,60	SMK-15-10S-G-W3-MS
			2.24	.94	1.93	.94	.87	45.32	
	12	57	24	49	24	24	21,60	SMK-15-12S-G-W3-MS	
		2.24	.94	1.93	.94	.94	47.52		
	14	63	27	50,5	27	27	27,70	SMK-15-14S-G-W3-MS	
		2.50	1.06	1.99	1.06	1.06	60.94		
	400 5801	16	63	26	52	30	30	32,50	SMK-15-16S-G-W3-MS
			2.50	1.02	2.05	1.18	1.18	71.50	
		20	69	26	55	36	36	45,40	SMK-15-20S-G-W3-MS
			2.72	1.02	2.17	1.42	1.42	99.88	
25		75	27	57,5	41	46	74,60	SMK-15-25S-G-W3-MS	
		2.95	1.06	2.26	1.61	1.81	164.12		
30	81	28	60	46	50	85,90	SMK-15-30S-G-W3-MS		
	3.19	1.10	2.36	1.81	1.97	188.98			
315 4568	38	91	29	64,5	55	60	7,40	SMK-15-38S-G-W3-MS	
		3.58	1.14	2.54	2.17	2.36	16.28		

Ordering Codes
***SMK*-15*-18L*-G*-SK*-W3*-MS**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 15 (Connection Thread M16x1,5)	-15
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight 24° Fitting	-G
* Protection Cap	Knurled protection cap	-
	Hexagonal protection cap	-SK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5
* Assembling / Kitting	Fitting body only	-
	Fitting body supplied with Cutting rings and union nuts	-MS
	Fitting body supplied with soft-sealing cutting rings and union nuts	-MSV

¹ Weight including cutting rings and union nuts.

² Standard option: Fitting body supplied with Cutting rings and union nuts.

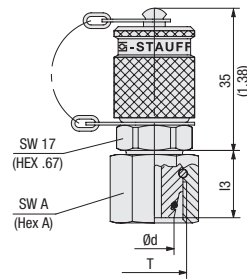
³ Approximate dimension in assembled condition.

Port acc. to ISO 8434-1 / DIN 2353

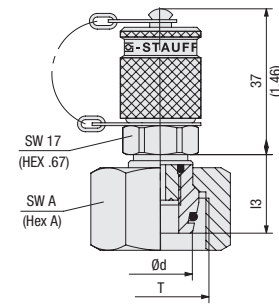
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with 24° Taper / O-ring (DKO)
SMK-15 Type K**

A



Version A



Version B

Ordering Codes

***SMK*-15*-18L*-B*-K*-GS*-SK*-W3**

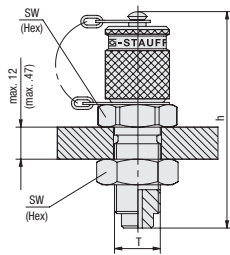
- * Type Test Coupling with Ball Check **SMK**
- * Series STAUFF Test 20 **-15**
(Connection Thread M16x1,5)
- * Outside Tube Diameter acc. to dimension table **-18**
- * Series Light Series **L**
 Heavy Series **S**
- * Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**
- * Connection 24° Taper / O-ring (DKO) **-K**
- * Design One-piece design (Version A) **-**
 Screwed design (Version B) **-GS**
- * Protection Cap Knurled protection cap **-**
 Hexagonal protection cap **-SK**
- * Material Code Steel, zinc/nickel-plated **-W3**
 Stainless Steel V2A - **-W4**
 1.4305 (AISI 303)
 Stainless Steel V4A - **-W5**
 1.4571 (AISI 316 Ti)

Series	PN (^{mm} / _{IPS})	Pipe Ød	Dimensions (^{mm} / _{in})			Thread	Version	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			l3	Hex A	T				
L	315 4568	6	15,5	14	M12 x 1,5	A	8,00	SMK-15-06L-B-K-W3	
			.61	.55			17,60		
		8	15,5	17	M14 x 1,5	A	8,00	SMK-15-08L-B-K-W3	
			.61	.67			17,60		
		10	16,5	19	M16 x 1,5	A	9,30	SMK-15-10L-B-K-W3	
			.65	.75			20,46		
	12	17,5	22	M18 x 1,5	A	10,60	SMK-15-12L-B-K-W3		
		.69	.87			23,32			
	15	21	27	M22 x 1,5	B	13,00	SMK-15-15L-B-K-GS-W3		
		.83	1.06			28,60			
	18	19,5	32	M26 x 1,5	B	16,30	SMK-15-18L-B-K-GS-W3		
		.77	1.26			35,86			
	160 2320	22	20,5	36	M30 x 2	B	19,00	SMK-15-22L-B-K-GS-W3	
			.81	1.42			41,80		
28		25	41	M36 x 2	B	26,50	SMK-15-28L-B-K-GS-W3		
		.98	1.61			58,30			
35		30	50	M45 x 2	B	40,43	SMK-15-35L-B-K-GS-W3		
		1.18	1.97			88,95			
42	31	60	M52 x 2	B	58,40	SMK-15-42L-B-K-GS-W3			
	1.22	2.36			128,48				
S	630 9137	6	14,5	17	M14 x 1,5	A	7,90	SMK-15-06S-B-K-W3	
			.57	.67			17,38		
		8	16,5	19	M16 x 1,5	A	8,80	SMK-15-08S-B-K-W3	
			.65	.75			19,36		
		10	16,5	22	M18 x 1,5	A	10,30	SMK-15-10S-B-K-W3	
			.65	.87			22,66		
	12	17,5	24	M20 x 1,5	A	11,90	SMK-15-12S-B-K-W3		
		.69	.94			26,18			
	14	19,5	27	M22 x 1,5	B	14,60	SMK-15-14S-B-K-GS-W3		
		.77	1.06			32,12			
	400 5801	16	18	30	M24 x 1,5	B	15,20	SMK-15-16S-B-K-GS-W3	
			.71	1.18			33,44		
		20	24	36	M30 x 2	B	22,20	SMK-15-20S-B-K-GS-W3	
			.94	1.42			48,84		
25		26	46	M36 x 2	B	35,50	SMK-15-25S-B-K-GS-W3		
		1.02	1.81			78,10			
30	30	50	M42 x 2	B	43,40	SMK-15-30S-B-K-GS-W3			
	1.18	1.97			95,48				
315 4568	38	34	60	M52 x 2	B	63,80	SMK-15-38S-B-K-GS-W3		
		1.34	2.36			140,36			

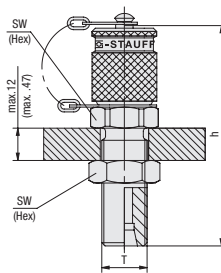
With 24° Taper / O-ring (DKO) Connection acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Bulkhead
SSK-15**

A



Version A



Version B



Thread	Dimensions (mm/in)		Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
	T	h Hex			
M16 x 1,5	72	19	A	11,20	SSK-15-W3
	2.83	.75		24.64	
M16 x 1,5 ¹	72	22	B	12,30	SSK-15/08S-W3
	2.83	.87		27.06	

Also available for gaseous media: Type SSKK

¹ Compression ring assembly 08S according to ISO 8434-1 / DIN 2353

Standard option: With Hexagon Lock Nut.

Standard option - Version B: Excluding cutting rings and union nuts

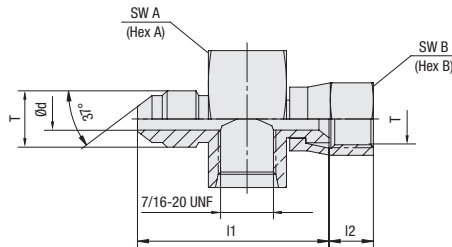
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

***SSK*-15/08S*-SK*-W3**

* Type	Bulkhead with Ball Check	SSK
* Series	STAUFF Test 15 (Connection Thread M16x1,5)	-15
* Outside Tube Diameter	acc. to dimension table	/08
* Series	Heavy Series	S
* Seal Material	FKM (Viton®) EPDM	none -E
* Protection Cap	Knurled protection cap Hexagonal protection cap	- -SK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

**Swivel Run Tee with 37° JIC Connection
SGV-JIC Type FM**



Pipe Ø inch	JIC- Size	Dimensions (mm/in)						Thread T inch	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
		Ø d	l1	l2	Hex A	Hex B				
1/4	04	4,37	37,74	8,74	27	14,29	7/16-20 UNF	8,96	SGV-7/16UNF-04-JIC1/4-FM-W66	
		.17	1.49	.34	1.06	.56		19.71		
3/8	06	7,54	40,01	9,53	27	17,46	9/16-18 UNF	9,60	SGV-7/16UNF-06-JIC3/8-FM-W66	
		.30	1.58	.38	1.06	.69		21.12		
1/2	08	9,93	44,65	10,72	27	22,23	3/4-16 UNF	11,20	SGV-7/16UNF-08-JIC1/2-FM-W66	
		.39	1.76	.42	1.06	.88		24.64		
5/8	10	12,29	48,26	12,70	28,58	25,40	7/8-14 UNF	17,10	SGV-7/16UNF-10-JIC5/8-FM-W66	
		.48	1.90	.50	1.13	1.00		37.62		
3/4	12	15,47	51,33	14,45	31,75	31,75	1-1/16-12 UN	20,40	SGV-7/16UNF-12-JIC3/4-FM-W66	
		.61	2.02	.57	1.25	1.25		44.88		
1	16	21,44	57,30	15,09	38,10	38,10	1-5/16-12 UN	30,80	SGV-7/16UNF-16-JIC1-FM-W66	
		.84	2.26	.59	1.50	1.50		67.76		

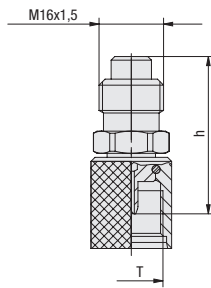
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes

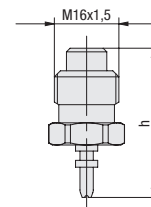
***SGV*-7/16UNF*-12*-JIC3/4*-FM*-W66**

* Type	Swivel Run Tee	SGV
* Port Connection	acc. to dimension table	-7/16UNF
* JIC Size	acc. to dimension table	-12
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Connection	Female/Male Thread	-FM
* Material Code	Carbon Steel, zinc-plated and thick-film passivated	-W66

**Test Adaptor
SAD-15**



Version A



Version B

Ordering Codes

***SAD*-15/20*-B*-W3**

* Type	Test Adaptor	SAD
* Connection Type	Version A	-15/20
	Version B	-15/10
* Seal Material	FKM (Viton®)	none
	EPDM	-E
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Thread	Dimensions (mm/in)	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M16 x 2	39	A	6,20	SAD-15/20-W3
	1.54		13.64	
S12 ¹	39	A	5,40	SAD-15/12-W3
	1.54		11.88	
Plug in	37	B	3,20	SAD-15/10-W3
	1.46		7.05	

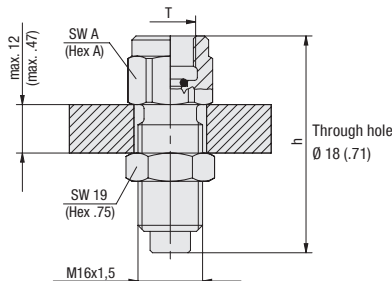
¹ Special thread: buttress thread S12,65 x1,5

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

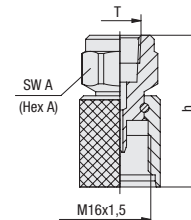
**Gauge Adaptor
SMA-15**



**Direct Gauge Adaptor
SMD-15**



Gauge Adaptor SMA-15



Direct Gauge Adaptor SMD-15

Ordering Codes

***SMA*-15*-G1/4*-B*-OR*-W3**

* Type	Gauge Adaptor	SMA
* Series	STAUFF Test 15 (Connection Thread M16x1,5)	-15
* Thread	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type without O-ring	none
* Seal Type	with O-ring	-OR
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Thread	Dimensions (mm/in)	Hex A	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
G1/4	54	19	7,40	SMA-15-G1/4-B-OR-W3
	2.13	.75	16.28	
G1/2	64	27	12,20	SMA-15-G1/2-B-OR-W3
	2.52	1.06	26.84	
1/4 NPT	54	19	7,80	SMA-15-1/4NPT-W3
	2.13	.75	17.16	
1/2 NPT	64	27	14,5	SMA-15-1/2NPT-W3
	2.52	1.06	31.97	
G1/4	41	19	5,60	SMD-15-G1/4-B-OR-W3
	1.61	.75	12.32	
G1/2	51	27	9,90	SMD-15-G1/2-B-OR-W3
	2.01	1.06	21.78	
1/4 NPT	41	19	5,60	SMD-15-1/4NPT-W3
	1.61	.75	12.32	
1/2 NPT	51	27	13,50	SMD-15-1/2NPT-W3
	2.01	1.06	29,76	

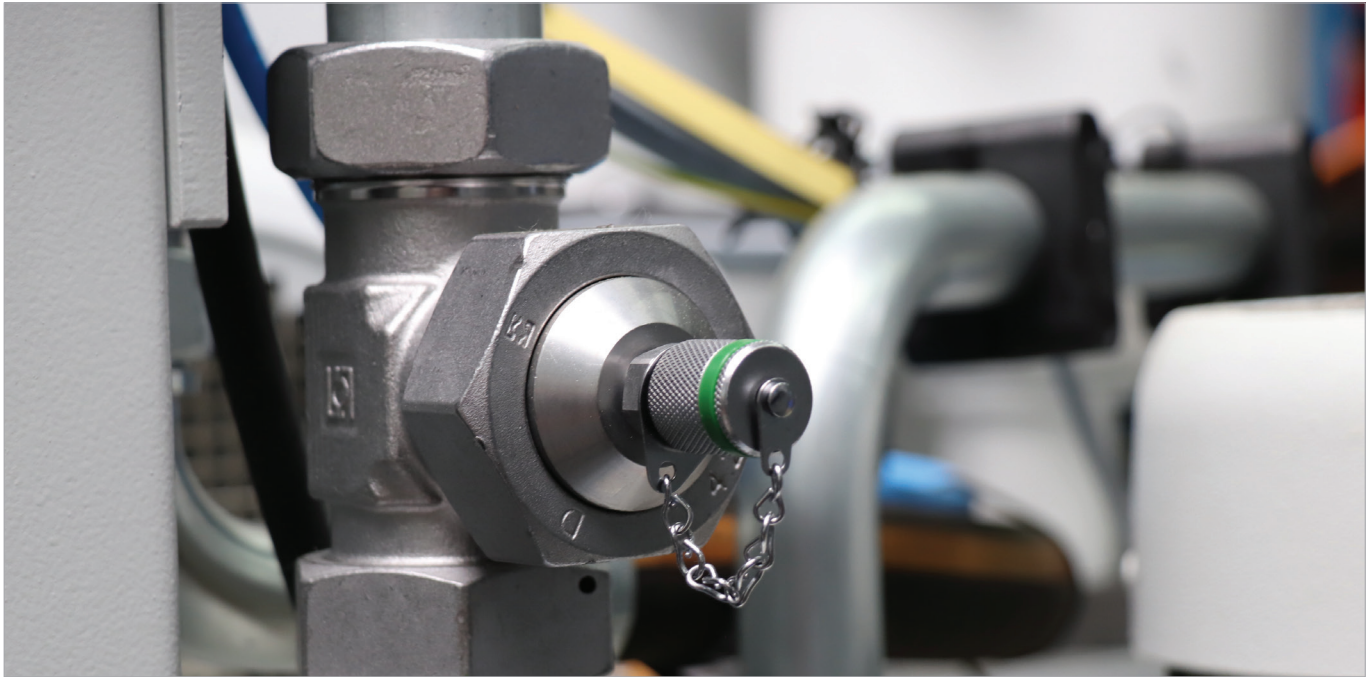
Standard option - SMA-15: With Hexagon Lock Nut.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Snubber on request.

Dimensional drawings: All dimensions in mm (in).

Colour Marking Rings for Test Couplings and Test Hose Assemblies

A



Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings.

Typical areas of application:

- distinguish between hydraulic circuits
- distinguish pressure ranges (suction line, pressure line, return line, etc.)
- distinguish between test intervals and test times
- distinguish between types of media (oil, gas, water, etc.)
- distinguish between types of couplings (ball check or poppet valve)
- Marking of suitable positions for sampling
- Marking of suitable positions for filling or venting the system

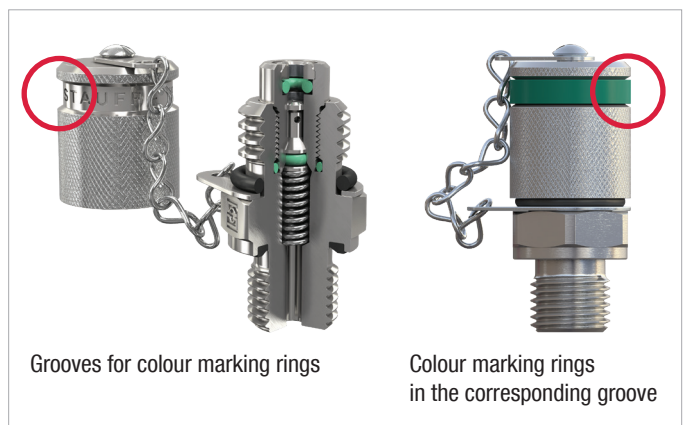
The colour marking rings are available as accessories in currently five standard colours:

Colour	RAL Code	Ordering Codes	Packaging Unit
	RAL 9005	MR-TEST-17.1x1x4-K-RD	25
	RAL 3000	MR-TEST-17.1x1x4-K-BK	25
	RAL 1018	MR-TEST-17.1x1x4-K-YE	25
	RAL 5005	MR-TEST-17.1x1x4-K-BU	25
	RAL 6002	MR-TEST-17.1x1x4-K-GN	25

Depending on the required quantities, other colours are also available on request. Please note: Slight colour deviations may occur due to production.

If required, the colour marking rings can be applied by the user very easily, flexibly and without the need for tools. Retrofitting on already installed couplings and test hose lines is also possible without any problems.

The rings are placed in the standard groove of the knurled protection and connection caps of test couplings and test hose connectors. The high resistance of the knurled caps made of steel and stainless steel to environmental influences is not limited by the use of the rings at all.



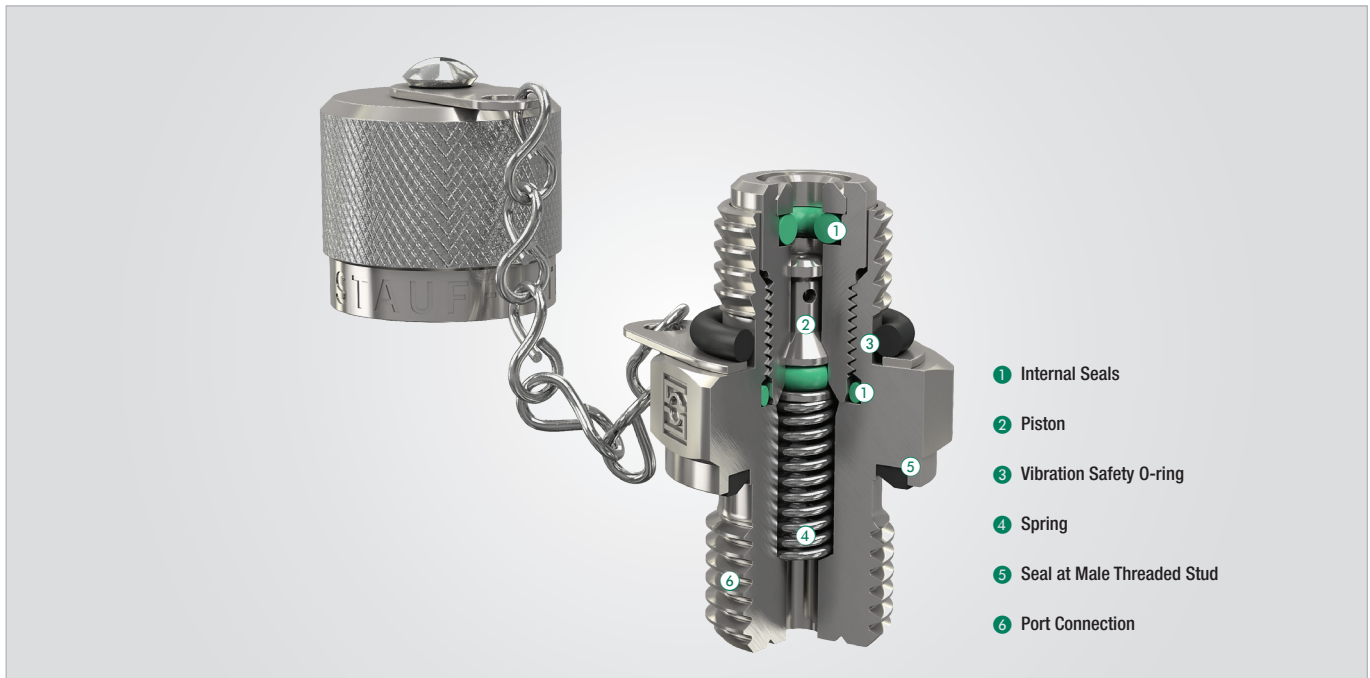
The colour marking rings are manufactured from thermoplastic polyurethane (TPU). TPU is a lightweight, elastic material with very good abrasion and wear resistance, paired with high resilience.

Selecting the right material was one of the crucial criteria for the development of the colour marking rings. Resistance to all media generally used in hydraulic systems was therefore of great importance. In addition to this, the ring material is also resistant to other oils, greases and a number of common solvents. The thermoplastic polyurethane (TPU) used is thermally stable and also features excellent UV resistance.

Test Coupling with Piston Valve
SKK-12

A



**Test Coupling with Piston Valve
SKK-12**
A


- 1 Internal Seals
- 2 Piston
- 3 Vibration Safety O-ring
- 4 Spring
- 5 Seal at Male Threaded Stud
- 6 Port Connection

Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems
- Filling of accumulators (special filling-version)

Advantages

- Test system at working pressure
- Leakproof connection before **piston valve** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap

Working Pressure

- Max. working pressure 630 bar / 9137 PSI
For SKK Type G and K the recommended working pressure of fitting manufacturer should be noted.
- Connection under pressure up to 400 bar / 5801 PSI max.

DVGW

- DVGW registration as test points for gas pressure controlsystems, issued by the German Technical and Scientific Association for Gas and Water
- The DVGW approval relates solely to the SKK-12 and SKK-20 series with connection types:
 - M8x1-V-A-DVGW
 - M10x1-V-A-DVGW
 - 1/8NPT-V-D-DVGW
 - 1/4NPT-V-D-DVGW

Materials
▪ Metal Parts:

Standard material: Steel, zinc/nickel-plated = **W3**
 Optional:
 Stainless Steel **W4** (1.4305 / AISI 303) on request
 Stainless Steel **W5** (1.4571 / AISI 316Ti) on request

▪ Seal Types:
B = NBR (Buna-N®)

(Temperature range -20 °C ... +100°C / -4 °F ... +212 °F)

Note: Internal sealings made of FKM, even for standard NBR-type.

V = FKM (Viton®)

(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

E = EPDM Ethylene Propylene Diene Monomer Rubber

(for Brake fluid,
 Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)





Vibration safety O-ring made of NBR (Buna-N®).

Media

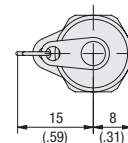
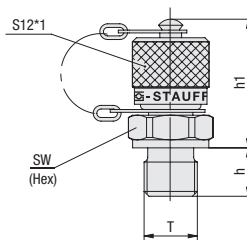
- Suitable for hydraulic oils and other Mineral oil based fluids (Check compatibility of seal material)
- For use with other liquid media please contact STAUFF
- In case of ultimate tightness requirements for gaseous media, a special Gas-type is available

Protection Cap

- The complete STAUFF-Test-12-type-SKK range is also available with a plastic protection cap.

SKK-12 Test Coupling with Male Threaded Stud	SKK-12 Type G Test Coupling with Straight 24° Fitting	SMK-12 Type K Test Coupling With 24° Taper / O-ring (DKO)	SSKK-12 Bulkhead
			

Test Coupling with Male Threaded Stud SKK-12



Ordering Codes

SKK-12*-G1/4*-B*-C*-KK*-W3

* Type	Test Coupling with Piston Valve	SKK
* Series	STAUFF Test 12 (Connection Thread S12,65 x 1,5)	-12
* Port Connection	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type B and D	none
* Seal Type	O-ring Type A	-A
	Metal Joint Type B	-B
	Elastomeric Sealing Type C	-C
	Taper Type D	-D
	O-ring Type E	-E
* Protection Cap	Knurled protection cap	-
	Plastic protection cap	-KK
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Seal Type



O-ring Type A



Metal Joint Type B



Elastomeric Sealing Type C



Taper Type D¹



O-ring Type E

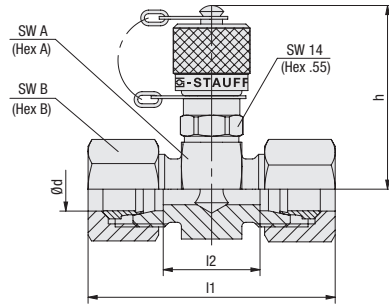
Thread	Seal Type	Working Pressure (^{bar} / _{psi})	Dimensions (^{mm} / _{in})			Torque (^{Nm} / _{ft-lb}) ca.	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			h1	h2	Hex Thread T			
M8 x 1	Type A	250	38	8,5	14	6	5,50	SKK-12-M8x1-B-A-W3
		3625	1.50	.33	.55	4.4	12.10	
M10 x 1	Type A	630	35	9,8	14	12	5,30	SKK-12-M10x1-B-A-W3
		9137	1.38	.39	.67	8.8	11.66	
M12 x 1,5	Type A	630	31	12	17	35	5,60	SKK-12-M12x1.5-B-W3
		9137	1.22	.47	.67	25.8	12.35	
M14 x 1,5	Type A	630	31	12	19	55	6,40	SKK-12-M14x1.5-B-W3
		9137	1.22	.47	.75	40.6	14.08	
M16 x 1,5	Type B	630	31	12	22	70	8,10	SKK-12-M16x1.5-B-W3
		9137	1.22	.47	.87	51.6	17.82	
G1/4	Type B	630	30	12	19	55	6,10	SKK-12-G1/4-B-W3
		9137	1.18	.47	.75	40.6	13.42	
G3/8	Type B	630	31	12	22	90	7,80	SKK-12-G3/8-B-W3
		9137	1.22	.47	.87	66.4	17.16	
M12 x 1,5	Type C	630	31	12	17	35	5,70	SKK-12-M12x1.5-B-C-W3
		9137	1.22	.47	.67	25.8	12.54	
G1/8	Type C	400	40	8	14	18	5,90	SKK-12-G1/8-B-C-W3
		5801	1.57	.31	.55	13.3	12.98	
G1/4	Type C	630	31	12	19	45	6,30	SKK-12-G1/4-B-C-W3
		9137	1.22	.47	.75	33.2	13.86	
R1/8 K	Type D ²	400	33	8	17		5,00	SKK-12-R1/8K-D-W3
		5801	1.30	.31	.55		11.00	
R1/4 K	Type D ²	630	30	12	17		5,40	SKK-12-R1/4K-D-W3
		9137	1.18	.47	.55		11.88	
1/8 NPT	Type D ²	400	33	10	14		5,00	SKK-12-1/8NPT-D-W3
		5801	1.30	.39	.55		11.00	
1/4 NPT	Type D ²	630	28	15	14		5,50	SKK-12-1/4NPT-D-W3
		9137	1.10	.59	.55		12.10	
5/16-24 UNF	Type E	400	38	7,5	14	8	5,40	SKK-12-5/16UNF-B-E-W3
		5801	1.50	.30	.55	5.9	11.88	
7/16-20 UNF	Type E	630	33	9,1	17	20	5,90	SKK-12-7/16UNF-B-E-W3
		9137	1.30	.36	.67	14.7	12.98	
1/2-20 UNF	Type E	630	32	9,2	17	25	5,90	SKK-12-1/2UNF-B-E-W3
		9137	1.26	.36	.67	18.4	12.98	
9/16-18 UNF	Type E	630	31	10	19	35	6,30	SKK-12-9/16UNF-B-E-W3
		9137	1.22	.39	.75	25.8	13.86	
M12 x 1,5	Type E	630	32	11	17	35	5,80	SKK-12-M12x1.5-B-E-W3
		9137	1.26	.43	.67	25.8	12.79	

¹ Special thread: butress thread S12,65 x1,5

² Suitable liquid / plastic sealant required.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

For further information on Seal Types,
please see page 74-77.

**Test Coupling with Straight 24° Fitting
SKK-12 Type G**
A


Series	PN (^{MS} / _{FS})	Pipe Ød	Dimensions (mm/in)					Weight (^{kg} / _{lbs}) ca. per 100 ¹	Ordering Codes (Standard Option) ²
			~I ³	I2	h	Hex A	Hex B		
L	315 4568	6	51	21	46	24	14	13,00	SKK-12-06L-G-W3-MS
			2.01	.83	1.81	.94	.55	28.60	
		8	51	21	46	24	17	14,10	SKK-12-08L-G-W3-MS
			2.01	.83	1.81	.94	.67	31.02	
		10	53	23	46	24	19	15,30	SKK-12-10L-G-W3-MS
			2.09	.91	1.81	.94	.75	33.66	
		12	53	23	47,5	27	22	18,20	SKK-12-12L-G-W3-MS
			2.09	.91	1.87	1.06	.87	40.04	
		15	55	25	49	30	27	24,50	SKK-12-15L-G-W3-MS
			2.17	.98	1.92	1.18	1.06	53.90	
		18	57	24	50	32	32	19,00	SKK-12-18L-G-W3-MS
			2.24	.94	1.97	1.26	1.26	41.89	
	160 2320	22	61	28	52	36	36	32,20	SKK-12-22L-G-W3-MS
			2.40	1.10	2.05	1.42	1.42	70.84	
		28	61	28	54,5	41	41	44,00	SKK-12-28L-G-W3-MS
			2.40	1.10	2.15	1.61	1.61	96.80	
		35	69	26	57	46	50	39,50	SKK-12-35L-G-W3-MS
			2.72	1.02	2.24	1.81	1.97	87.08	
42	71	25	61,5	55	60	85,80	SKK-12-42L-G-W3-MS		
	2.80	.98	2.42	2.17	2.36	188.76			
S	630 9137	6	55	25	46	24	17	15,60	SKK-12-06S-G-W3-MS
			2.17	.98	1.81	.94	.67	34.32	
		8	55	25	46	24	19	16,50	SKK-12-08S-G-W3-MS
			2.17	.98	1.81	.94	.75	36.30	
		10	57	24	46	24	22	19,04	SKK-12-10S-G-W3-MS
			2.24	.94	1.81	.94	.87	41.89	
	12	57	24	46	24	24	20,90	SKK-12-12S-G-W3-MS	
		2.24	.94	1.81	.94	.94	45.98		
	14	63	27	47,5	27	27	27,00	SKK-12-14S-G-W3-MS	
		2.50	1.06	1.87	1.06	1.06	59.40		
	400 5801	16	63	26	49	30	30	31,10	SKK-12-16S-G-W3-MS
			2.50	1.02	1.93	1.18	1.18	68.42	
		20	69	26	52	36	36	48,20	SKK-12-20S-G-W3-MS
			2.72	1.02	2.05	1.42	1.42	106.04	
		25	75	27	54,5	41	46	73,50	SKK-12-25S-G-W3-MS
			2.95	1.06	2.15	1.61	1.81	161.70	
	30	81	28	57	46	50	85,45	SKK-12-30S-G-W3-MS	
		3.19	1.10	2.24	1.81	1.97	187.99		
315 4568	38	91	29	61,5	55	60	63,20	SKK-12-38S-G-W3-MS	
		3.58	1.14	2.42	2.17	2.36	139.33		

Ordering Codes
***SKK*-12*-18L*-G*-SK*-W3*-MS**

* Type	Test Coupling with Piston Valve	SKK
* Series	STAUFF Test 12 (Connection Thread S12,65 x 1,5)	-12
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series Heavy Series	L S
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight 24° Fitting	-G
* Protection Cap	Knurled protection cap	-
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5
* Assembling / Kitting	Fitting body only	-
	Fitting body supplied with Cutting rings and union nuts	-MS
	Fitting body supplied with soft-sealing cutting rings and union nuts	-MSV

¹ Weight including cutting rings and union nuts.

² Standard option: Fitting body supplied with Cutting rings and union nuts.

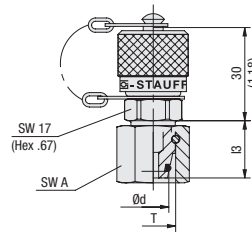
³ Approximate dimension in assembled condition.

Port acc. to ISO 8434-1 / DIN 2353

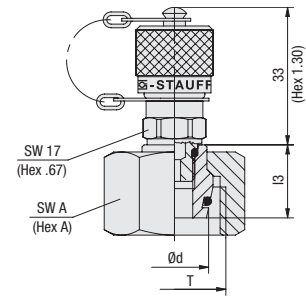
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with 24° Taper / O-ring (DKO)
SKK-12 Type K**

A



Version A



Version B

Ordering Codes

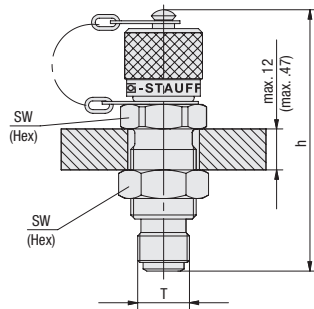
***SKK*-12*-18L*-B*-K*-GS*-SK*-W3**

- * Type Test Coupling with Piston Valve **SKK**
- * Series STAUFF Test 12 **-12**
(Connection Thread S12,65 x 1,5)
- * Outside Tube Diameter acc. to dimension table **-18**
- * Series Light Series **L**
 Heavy Series **S**
- * Seal Material NBR (Buna-N®) **-B**
 FKM (Viton®) **-V**
 EPDM **-E**
- * Connection 24° Taper / O-ring (DKO) **-K**
- * Design One-piece design (Version A) **-**
 Screwed design (Version B) **-GS**
- * Protection Cap Knurled protection cap **-**
- * Material Code Steel, zinc/nickel-plated **-W3**
 Stainless Steel V2A - **-W4**
 1.4305 (AISI 303)
 Stainless Steel V4A - **-W5**
 1.4571 (AISI 316 Ti)

Series	PN (^{mm} / _{psi})	Pipe $\varnothing d$	Dimensions (^{mm} / _{in})			Thread	Version	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			l_3	Hex A	T				
L	315 4568	6	15,5	14	M12 x 1,5	A	6,40	SKK-12-06L-B-K-W3	
			.61	.55			14,08		
		8	15,5	17	M14 x 1,5	A	6,50	SKK-12-08L-B-K-W3	
			.61	.67			14,30		
		10	16,5	19	M16 x 1,5	A	7,90	SKK-12-10L-B-K-W3	
			.65	.75			17,38		
	12	17,5	22	M18 x 1,5	A	9,00	SKK-12-12L-B-K-W3		
		.69	.87			19,80			
	15	21	27	M22 x 1,5	B	11,70	SKK-12-15L-B-K-GS-W3		
		.83	1.06			25,74			
	18	19,5	32	M26 x 1,5	B	19,00	SKK-12-18L-B-K-GS-W3		
		.77	1.26			41,80			
	160 2320	22	20,5	36	M30 x 2	B	18,70	SKK-12-22L-B-K-GS-W3	
			.81	1.42			41,14		
28		25	41	M36 x 2	B	24,70	SKK-12-28L-B-K-GS-W3		
		.98	1.61			54,34			
35		30	50	M45 x 2	B	39,50	SKK-12-35L-B-K-GS-W3		
		1.18	1.97			86,90			
42	31	60	M52 x 2	B	85,80	SKK-12-42L-B-K-GS-W3			
	1.22	2.36			189,16				
S	630 9137	6	14,5	17	M14 x 1,5	A	6,60	SKK-12-06S-B-K-W3	
			.57	.67			14,52		
		8	16,5	19	M16 x 1,5	A	7,70	SKK-12-08S-B-K-W3	
			.65	.75			16,94		
		10	16,5	22	M18 x 1,5	A	8,80	SKK-12-10S-B-K-W3	
			.65	.87			19,36		
	12	17,5	24	M20 x 1,5	A	10,50	SKK-12-12S-B-K-W3		
		.69	.94			23,10			
	14	19,5	27	M22 x 1,5	B	12,40	SKK-12-14S-B-K-GS-W3		
		.77	1.06			27,28			
	400 5801	16	18	30	M24 x 1,5	B	13,70	SKK-12-16S-B-K-GS-W3	
			.71	1.18			30,14		
20		24	36	M30 x 2	B	19,80	SKK-12-20S-B-K-GS-W3		
		.94	1.42			43,56			
25		26	46	M36 x 2	B	35,20	SKK-12-25S-B-K-GS-W3		
		1.02	1.81			77,44			
30	30	50	M42 x 2	B	41,70	SKK-12-30S-B-K-GS-W3			
	1.18	1.97			91,74				
315 4568	38	34	60	M52 x 2	B	63,20	SKK-12-38S-B-K-GS-W3		
		1.34	2.36			139,04			

With 24° Taper / O-ring (DKO) Connection acc. to ISO 8434-1 / DIN 2353

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Bulkhead
SSKK-12**
A


Thread	Dimensions (mm/in)		Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
T	h	Hex		
S12 ¹	63	19	10,30	SSKK-12-W3
	2.48	0.75	22.66	

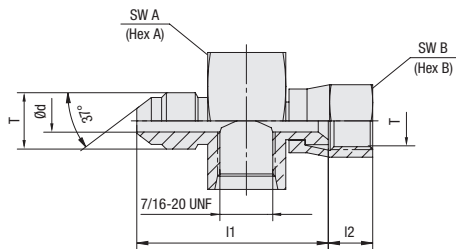
¹ Special thread: buttress thread S12,65 x 1,5

Standard option: With Hexagon Lock Nut.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes
***SSKK*-12*-SK*-W3**

* Type	Bulkhead with Piston Valve	SSKK
* Series	STAUFF Test 12 (Connection Thread S12,65 x 1,5)	-12
* Seal Material	FKM (Viton®) EPDM	none -E
* Protection Cap	Knurled protection cap	-
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

**Swivel Run Tee with 37° JIC Connection
SGV-JIC Type FM**


Pipe Ø inch	JIC- Size	Dimensions (mm/in)						Thread T inch	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
		Ø d	l1	l2	Hex A	Hex B				
1/4	04	4,37	37,74	8,74	27	14,29	7/16-20 UNF	8,96	SGV-7/16UNF-04-JIC1/4-FM-W66	
		.17	1.49	.34	1.06	.56		19.71		
3/8	06	7,54	40,01	9,53	27	17,46	9/16-18 UNF	9,60	SGV-7/16UNF-06-JIC3/8-FM-W66	
		.30	1.58	.38	1.06	.69		21.12		
1/2	08	9,93	44,65	10,72	27	22,23	3/4-16 UNF	11,20	SGV-7/16UNF-08-JIC1/2-FM-W66	
		.39	1.76	.42	1.06	.88		24.64		
5/8	10	12,29	48,26	12,70	28,58	25,40	7/8-14 UNF	17,10	SGV-7/16UNF-10-JIC5/8-FM-W66	
		.48	1.90	.50	1.13	1.00		37.62		
3/4	12	15,47	51,33	14,45	31,75	31,75	1-1/16-12 UNF	20,40	SGV-7/16UNF-12-JIC3/4-FM-W66	
		.61	2.02	.57	1.25	1.25		44.88		
1	16	21,44	57,30	15,09	38,10	38,10	1-5/16-12 UNF	30,80	SGV-7/16UNF-16-JIC1-FM-W66	
		.84	2.26	.59	1.50	1.50		67.76		

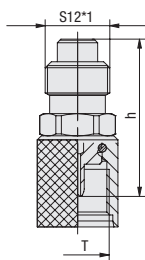
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Ordering Codes
***SGV*-7/16UNF*-12*-JIC3/4*-FM*-W66**

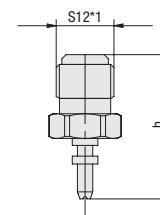
* Type	Swivel Run Tee	SGV
* Port Connection	acc. to dimension table	-7/16UNF
* JIC Size	acc. to dimension table	-12
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Connection	Female/Male Thread	-FM
* Material Code	Carbon Steel, zinc-plated and thick-film passivated	-W66

**Test Adaptor
SAD-12**

A



Version A



Version B

Ordering Codes

***SAD*-12/20*-W3**

* Type	Test Adaptor	SAD
* Connection Type	Version A	-12/20
	Version B	-12/10
* Seal Material	FKM (Viton®)	none
	EPDM	-E
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

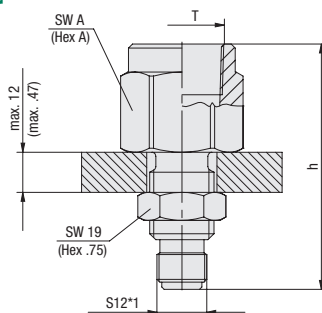
Thread	Dimensions (mm/in)	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M16 x 2	33	A	4,70	SAD-12/20-W3
	1.30		10.34	
M16 x 1,5	33	A	4,60	SAD-12/15-W3
	1.30		10.12	
Plug in	31	B	1,80	SAD-12/10-W3
	1.22		3.96	

¹ Special thread: buttress thread S12,65 x1,5

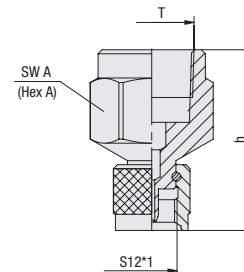
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Gauge Adaptor
SMA-12**

**Direct Gauge Adaptor
SMD-12**



Gauge Adaptor SMA-12



Direct Gauge Adaptor SMD-12

Ordering Codes

***SMA*-12*-G1/4*-B*-OR*-W3**

* Type	Gauge Adaptor	SMA
* Series	STAUFF Test 12 (Connection Thread S12,65 x 1,5)	-12
* Thread	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
	Seal Type without O-ring	none
* Seal Type	with O-ring	-OR
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Thread	Dimensions (mm/in)	Hex A	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
G1/4	51	19	6,70	SMA-12-G1/4-B-OR-W3
	2.01	.75	14.74	
G1/2	61	27	12,10	SMA-12-G1/2-B-OR-W3
	2.40	1.06	26.62	
1/4 NPT	51	19	6,70	SMA-12-1/4NPT-W3
	2.01	.75	14.74	
1/2 NPT	61	27	12,80	SMA-12-1/2NPT-W3
	2.40	1.06	28.16	
G1/4	35	19	5,20	SMD-12-G1/4-B-OR-W3
	1.38	.75	11.44	
G1/2	45	27	9,40	SMD-12-G1/2-B-OR-W3
	1.77	1.06	20.68	
1/4 NPT	35	19	5,10	SMD-12-1/4NPT-W3
	1.38	.75	11.22	
1/2 NPT	45	27	10,30	SMD-12-1/2NPT-W3
	1.77	1.06	22.66	

¹ Special thread: buttress thread S12,65 x1,5

Standard option - SMA-12: With Hexagon Lock Nut.

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information. Snubber on request.

Dimensional drawings: All dimensions in mm (in).

Test Coupling with Ball Check
SMK-10

A



Test Coupling with Ball Check
 SMK-10

A



- 1 Internal Seals
- 2 Ball
- 3 Spring
- 4 Seal at Male Threaded Stud
- 5 Port Connection

Fast Coupling for

- Monitoring and control of pressure
- Venting
- Sampling in high- and low-pressure systems

Advantages

- Leak proof connection before **Ball Check** is open
- Simple connection to measurement, control and switching devices

Working Pressure

- Max. working pressure 400 bar / 5801 PSI
For SMK Type G and K the recommended working pressure of fitting manufacturer should be noted.

Materials

- **Metal Parts:**
Standard material: Steel, zinc/nickel-plated = **W3**
- **Ball:** Stainless Steel
- **Strap:** Polyethylene

Seal Types:
B = NBR (Buna-N®)

(Temperature range -20 °C ... +100 °C / -4 °F ... +212 °F)

Note: Internal sealings made of FKM, even for standard NBR-type.

V = FKM (Viton®)

(Temperature range -20 °C ... +200 °C / -4 °F ... +392 °F)

E = EPDM Ethylene Propylene Diene Monomer Rubber

(for Brake fluid,

Temperature range -40 °C ... +150 °C / -40 °F ... +302 °F)

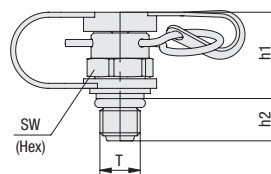
Media

- Suitable for hydraulic oils and other Mineral oil based fluids
(Check compatibility of seal material)
- For use with other liquid media please contact STAUFF

SMK-10 Test Coupling with Male Threaded Stud	SMK-10 Type G Test Coupling with Straight 24° Fitting	SMK-10 Type K Test Coupling With 24° Taper / O-ring (DK0)
		

Test Coupling with Male Threaded Stud SMK-10

A



Ordering Codes

***SMK*-10*-M10x1*-B*-A*-W3**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 10 Plug In System	-10
* Port Connection	acc. to dimension table	-M10x1
* Seal Material	NBR (Buna-N®) FKM (Viton®) EPDM Seal Type D	-B -V -E none
* Seal Type	O-ring Type A Taper Type D	-A -D
* Material Code	Steel, zinc/nickel-plated Stainless Steel V2A - 1.4305 (AISI 303) Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W3 -W4 -W5

Thread	Seal Type	Working Pressure (^{bar} / _{psi})	Dimensions (^{mm} / _{in})			Torque (^{Nm} / _{ft-lb}) ca.	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			h1	h2	Hex			
M8 x 1	Type A	250	17,5	8,5	12	6	1,50	SMK-10-M8x1-B-A-W3
		3625	.69	.33	.47	4.4	3.30	
M10 x 1	Type A	400	17,5	9,8	12	12	1,70	SMK-10-M10x1-B-A-W3
		5801	.69	.39	.47	8.8	3.74	
R1/8 K	Type D ¹	400	17,5	8	12		1,70	SMK-10-R1/8K-B-W3
		5801	.69	.31	.47		3.74	

¹ Suitable liquid / plastic sealant required.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

Seal Type



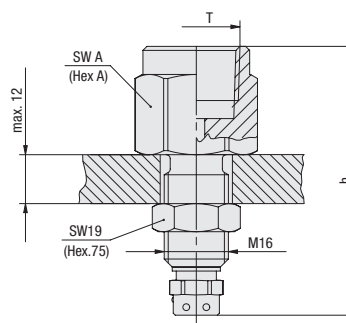
O-ring Type A



Taper Type D¹

For further information on Seal Types, please see page 74-77.

Gauge Adaptor SMA-10



Ordering Codes

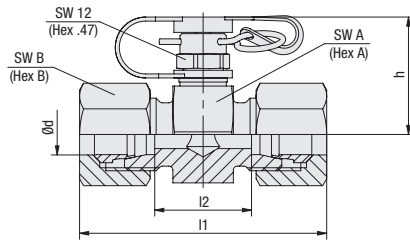
***SMA*-10*-G1/4*-B*-OR*-W3**

* Type	Gauge Adaptor	SMA
* Series	STAUFF Test 10 Plug In System	-10
* Thread	acc. to dimension table	-G1/4
* Seal Material	NBR (Buna-N®) FKM (Viton®) EPDM Seal Type without O-ring	-B -V -E none
* Seal Type	with O-ring	-OR
* Material Code	Steel, zinc/nickel-plated Stainless Steel V2A - 1.4305 (AISI 303) Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W3 -W4 -W5

Thread	Dimensions (^{mm} / _{in})		Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
	h	Hex A		
G1/4	57	19	7,60	SMA-10-G1/4-B-OR-W3
	2.24	.75	16.72	
G1/2	67	27	12,70	SMA-10-G1/2-B-OR-W3
	2.64	1.06	27.94	
1/4 NPT	57	19	7,40	SMA-10-1/4NPT-W3
	2.24	.75	16.31	
1/2 NPT	67	27	12,70	SMA-10-1/2NPT-W3
	2.64	1.06	27.99	

Standard option: With Hexagon Lock Nut.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Snubber on request.

Dimensional drawings: All dimensions in mm (in).

**Test Coupling with Straight 24° Fitting
SMK-10 Type G**
A


Series	PN (^{MS} / _{PS})	Pipe Ø d	Dimensions (mm/in)					Weight (^{kg} / _{lbs}) ca. per 100 ¹	Ordering Codes (Standard Option) ²
			~l ³	l2	h	Hex A	Hex B		
L	315 4568	6	51	21	29,5	24	14	9,40	SMK-10-06L-G-W3-MS
			2.01	.83	1.16	.94	.55	20.68	
		8	51	21	29,5	24	17	10,80	SMK-10-08L-G-W3-MS
			2.01	.83	1.16	.94	.67	23.76	
		10	53	23	29,5	24	19	11,90	SMK-10-10L-G-W3-MS
			2.09	.91	1.16	.94	.75	26.18	
	12	53	23	31	27	22	14,70	SMK-10-12L-G-W3-MS	
		2.09	.91	1.22	1.06	.87	32.34		
	15	55	25	32,5	30	27	21,20	SMK-10-15L-G-W3-MS	
		2.17	.98	1.28	1.18	1.06	46.64		
	18	57	24	33,5	32	32	27,40	SMK-10-18L-G-W3-MS	
		2.24	.94	1.32	1.26	1.26	60.28		
	160 2320	22	61	28	33,5	36	36	33,90	SMK-10-22L-G-W3-MS
			2.40	1.10	1.32	1.42	1.42	74.74	
		28	61	28	38	41	41	40,90	SMK-10-28L-G-W3-MS
			2.40	1.10	1.50	1.61	1.61	89.98	
		35	69	26	40,5	46	50	58,90	SMK-10-35L-G-W3-MS
			2.72	1.02	1.59	1.81	1.97	129.85	
42	71	25	45	55	60	82,70	SMK-10-42L-G-W3-MS		
	2.80	.98	1.77	2.17	2.36	182.32			
S	400 5801	6	55	25	29,5	24	17	12,10	SMK-10-06S-G-W3-MS
			2.17	.98	1.16	.94	.67	26.62	
		8	55	25	29,5	24	19	13,00	SMK-10-08S-G-W3-MS
			2.17	.98	1.16	.94	.75	28.60	
		10	57	24	29,5	24	22	15,40	SMK-10-10S-G-W3-MS
			2.24	.94	1.16	.94	.87	33.88	
	12	57	24	29,5	24	24	16,70	SMK-10-12S-G-W3-MS	
		2.24	.94	1.16	.94	.94	36.74		
	14	63	27	31	27	27	22,80	SMK-10-14S-G-W3-MS	
		2.50	1.06	1.22	1.06	1.06	50.27		
	16	63	26	32,5	30	30	27,60	SMK-10-16S-G-W3-MS	
		2.50	1.02	1.28	1.18	1.18	60.72		
	20	69	26	35,5	36	36	41,90	SMK-10-20S-G-W3-MS	
		2.72	1.02	1.40	1.42	1.42	92.18		
	25	75	27	38	41	46	68,20	SMK-10-25S-G-W3-MS	
		2.95	1.06	1.50	1.61	1.81	150.04		
	30	81	28	40,5	46	50	81,80	SMK-10-30S-G-W3-MS	
		3.19	1.10	1.59	1.81	1.97	179.96		
315 4568	38	91	29	45	55	60	122,70	SMK-10-38S-G-W3-MS	
		3.58	1.14	1.77	2.17	2.36	270.51		

Ordering Codes
***SMK*-10*-18L*-G*-W3*-MS**

* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 10 Plug In System	-10
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series Heavy Series	L S
* Seal Material	FKM (Viton®) EPDM	none -E
* Connection	Straight 24° Fitting	-G
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5
* Assembling / Kitting	Fitting body only	-
	Fitting body supplied with Cutting rings and union nuts	-MS
	Fitting body supplied with soft-sealing cutting rings and union nuts	-MSV

¹ Weight including cutting rings and union nuts.

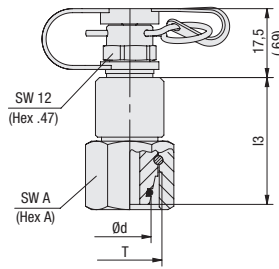
² Standard option: Fitting body supplied with Cutting rings and union nuts.

³ Approximate dimension in assembled condition.

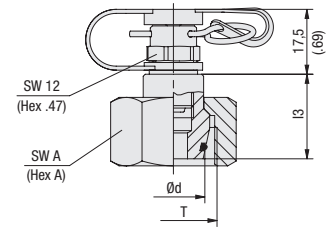
Port acc. to ISO 8434-1 / DIN 2353

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

**Test Coupling with 24° Taper / O-ring (DKO)
SMK-10 Type K**



Version A



Version B

Ordering Codes

***SMK*-10*-18L*-B*-K*-GS*-W3**

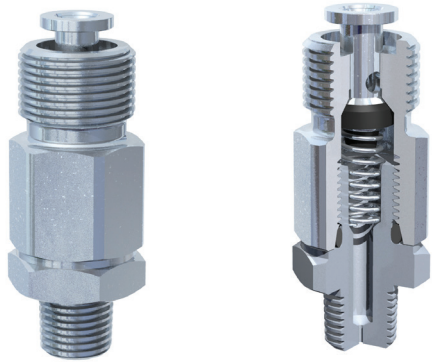
* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 10 Plug In System	-10
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
* Connection	24° Taper / O-ring (DKO)	-K
* Design	One-piece design (Version A)	-
	Screwed design (Version B)	-GS
* Material Code	Steel, zinc/nickel-plated	-W3
	Stainless Steel V2A - 1.4305 (AISI 303)	-W4
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	-W5

Series	PN (^{mm} / _{inch})	Pipe Ø d	Dimensions (^{mm} / _{inch})			Thread	Version	Weight (^{kg} / _{lbs}) ca. per 100	Ordering Codes (Standard Option)
			l3	Hex A	T				
L	315 4568	6	15,5	14	M12 x 1,5	A	4,60	SMK-10-06L-B-K-GS-W3	
			.61	.55			10,12		
		8	15,5	17	M14 x 1,5	A	5,30	SMK-10-08L-B-K-GS-W3	
			.61	.67			11,66		
		10	16,5	19	M16 x 1,5	A	6,50	SMK-10-10L-B-K-GS-W3	
			.65	.75			14,30		
	12	17,5	22	M18 x 1,5	A	8,00	SMK-10-12L-B-K-GS-W3		
		.69	.87			17,60			
	15	21	27	M22 x 1,5	B	8,10	SMK-10-15L-B-K-GS-W3		
		.83	1.06			17,82			
	18	19,5	32	M26 x 1,5	B	10,90	SMK-10-18L-B-K-GS-W3		
		.77	1.26			23,98			
	160 2320	22	20,5	36	M30 x 2	B	15,30	SMK-10-22L-B-K-GS-W3	
			.81	1.42			33,66		
		28	25	41	M36 x 2	B	21,10	SMK-10-28L-B-K-GS-W3	
			.98	1.61			270,51		
35		30	50	M45 x 2	B	35,75	SMK-10-35L-B-K-GS-W3		
		1.18	1.97			78,82			
42	31	60	M52 x 2	B	53,10	SMK-10-42L-B-K-GS-W3			
	1.22	2.36			117,07				
S	400 5801	6	14,5	17	M14 x 1,5	A	5,10	SMK-10-06S-B-K-GS-W3	
			.57	.67			11,22		
		8	16,5	19	M16 x 1,5	A	6,10	SMK-10-08S-B-K-GS-W3	
			.65	.75			13,42		
		10	16,5	22	M18 x 1,5	A	7,80	SMK-10-10S-B-K-GS-W3	
			.65	.87			17,16		
		12	17,5	24	M20 x 1,5	A	9,80	SMK-10-12S-B-K-GS-W3	
			.69	.94			21,56		
		14	19,5	27	M22 x 1,5	B	8,60	SMK-10-14S-B-K-GS-W3	
			.77	1.06			18,92		
		16	18	30	M24 x 1,5	B	10,20	SMK-10-16S-B-K-GS-W3	
			.71	1.18			22,44		
20	24	36	M30 x 2	B	17,00	SMK-10-20S-B-K-GS-W3			
	.94	1.42			37,40				
25	26	46	M36 x 2	B	30,70	SMK-10-25S-B-K-GS-W3			
	1.02	1.81			67,54				
30	30	50	M42 x 2	B	37,80	SMK-10-30S-B-K-GS-W3			
	1.18	1.97			83,33				
315 4568	38	34	60	M52 x 2	B	59,50	SMK-10-38S-B-K-GS-W3		
		1.34	2.36			131,18			

With 24° Taper / O-ring (DKO) Connection acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Special Test Coupling Solutions
STAUFF Test

A



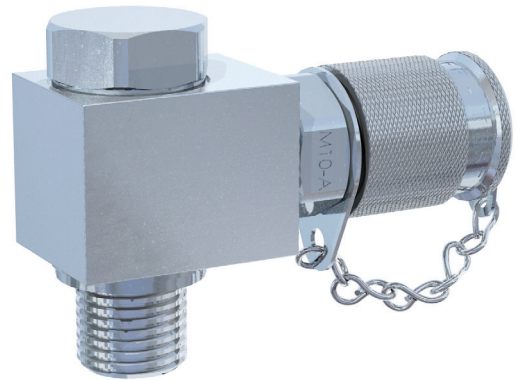
Pressure Test Connection for Compressed-Air Pneumatic Braking Equipment (according to ISO 3583)



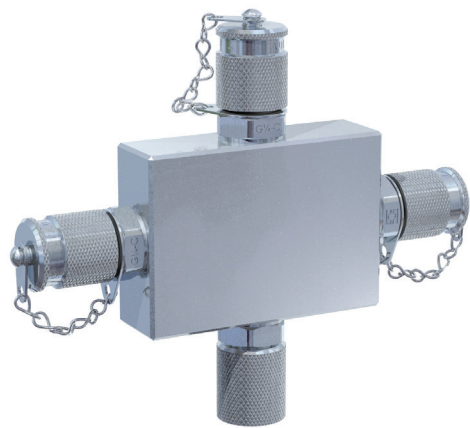
Test Coupling with Female Connection Port



Gauge Adaptor with Test Coupling



Banjo Fitting with Test Coupling



Triple Manifold Block with Test Couplings

Custom-designed test coupling solutions in addition to the Original-STAUFF-Test range according to customers specifications or based on STAUFF developments.

If you have similar requirements please contact STAUFF.