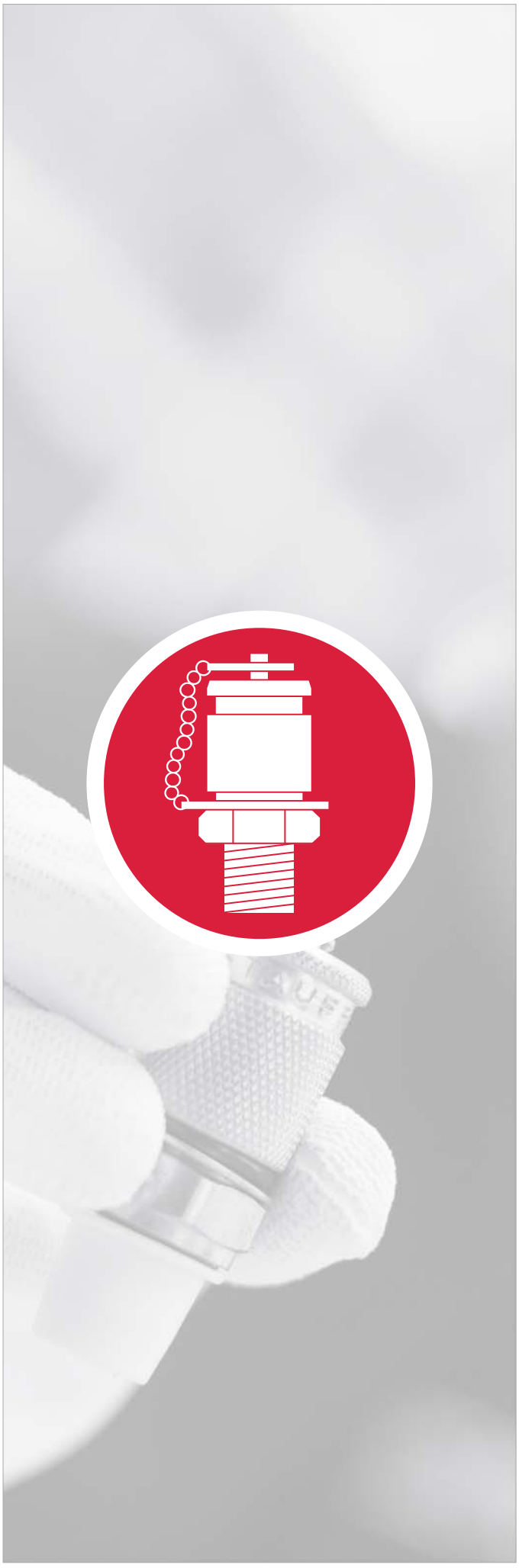


	Test 20 - Connection Thread M16 x 2	**SMK-20**	**14 - 25**
	Introduction		**14 - 15**
	Test Coupling with Ball Check		
	**Test Coupling**	**SMK-20**	**16**
	with Male Threaded Stud		
	**Test Coupling**	**SMK-20 Type G**	**17**
	with Straight 24° Fitting		
	**Test Coupling**	**SMK-20 Type K**	**19**
	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** **SMD-20**	**25**
	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**	**32 - 38**
	Introduction		**32 - 33**
	Test Coupling with Ball Check		
	**Test Coupling** with Male Threaded Stud	**SMK-15**	**34**
	**Test Coupling** with Straight 24° Fitting	**SMK-15 Type G**	**35**
	**Test Coupling** With 24° Taper / O-ring (DKO)	**SMK-15 Type K**	**36**
	**Bulkhead**	**SSK-15**	**37**
	**Swivel Run Tee** with 37° JIC Connection	**SGV-JIC Type FM**	**37**
	**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** with Male Threaded Stud	**SKK-12**	**42**
	**Test Coupling** with Straight 24° Fitting	**SKK-12 Type G**	**43**
	**Test Coupling** With 24° Taper / O-ring (DKO)	**SKK-12 Type K**	**44**
	**Bulkhead**	**SSKK-12**	**45**
	**Swivel Run Tee** with 37° JIC Connection	**SGV-JIC Type FM**	**45**
	**Test Adaptor**	**SAD-12**	**46**
	**Gauge Adaptor**	**SMA-12** **SMD-12**	**46**
	Test 10 - Plug In System	**SMK-10**	**48 - 52**
	Introduction		**48 - 49**
	Test Coupling with Ball Check		
	**Test Coupling** with Male Threaded Stud	**SMK-10**	**50**
	**Gauge Adaptor**	**SMA-10**	**50**
	**Test Coupling** with Straight 24° Fitting	**SMK-10 Type G**	**51**
	**Test Coupling** With 24° Taper / O-ring (DKO)	**SMK-10 Type K**	**52**
	**Special Test Coupling Solutions**		**53**

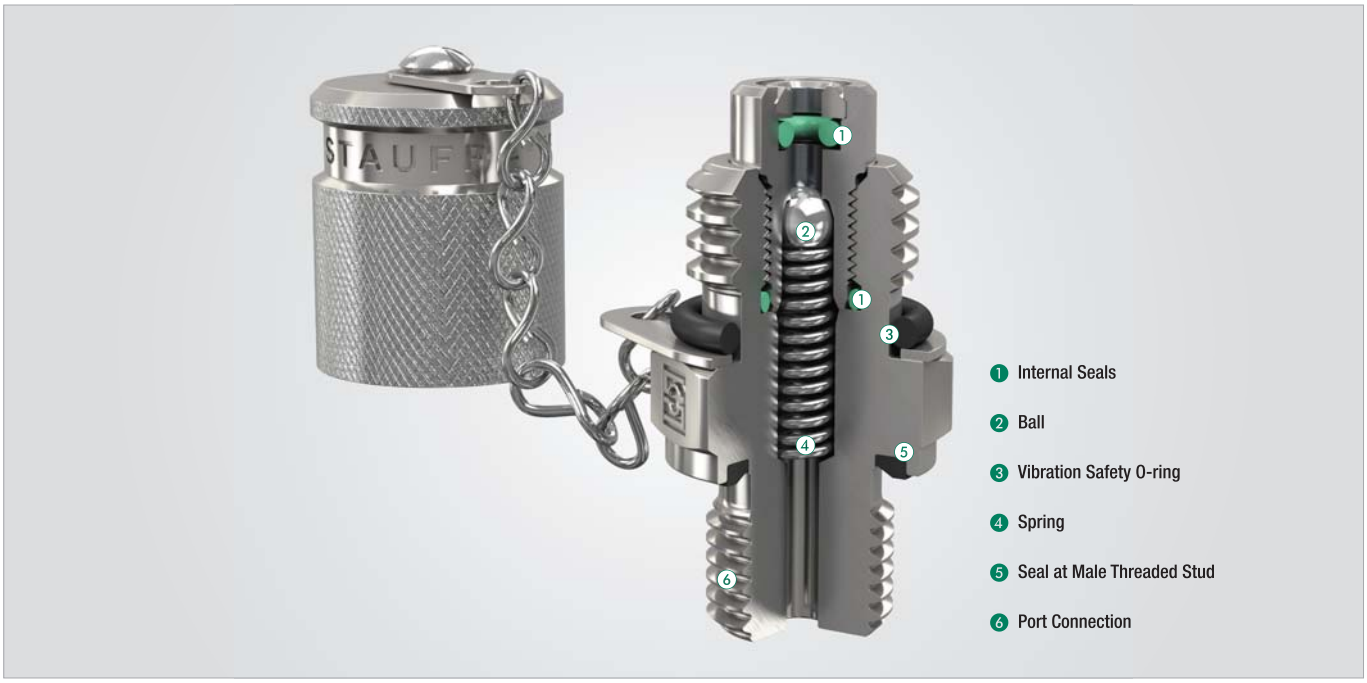
A

Test Coupling with Ball Check
SMK-20

A



Test Coupling with Ball Check
SMK-20



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

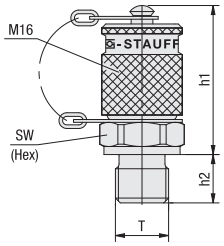
- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

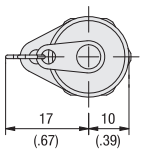
SMK-20 Test Coupling with Male Threaded Stud and optionally colour marking ring	**SMK-20 Type G** Test Coupling with Straight 24° Fitting	**SMK-20 Type K** Test Coupling With 24° Taper / O-ring (DKO)	**SMK-20-JIC** Test Coupling with 37° JIC Connection	**SSK-20** Bulkhead
				

A

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 D[1]


O-ring Type E

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

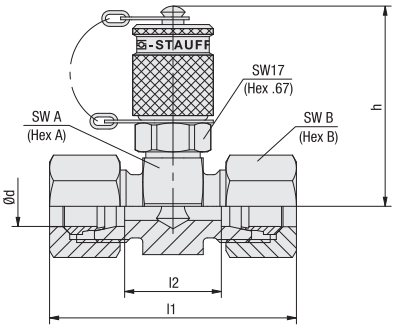
Thread T	Seal Type	Working Pressure (bar/PSI)	Dimensions (mm/in) h1	h2	Hex	Torque (N·m/ft-lb) ca. Thread T	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M8 x 1	Type A	250	38	8,5	17	6	6,10	SMK-20-M8x1-B-A-W3
		3625	1.50	.33	.67	4.4	13.42	
M10 x 1		630	38	9,8	17	12	6,70	SMK-20-M10x1-B-A-W3
		9137	1.50	.39	.67	8.8	14.74	
M10 x 1	Type B	400	37	8	17	18	6,60	SMK-20-M10x1-B-W3
		5801	1.46	.31	.67	13.3	14.52	
M12 x 1,5		630	37	12	17	35	7,00	SMK-20-M12x1.5-B-W3
		9137	1.46	.47	.67	25.8	15.40	
M14 x 1,5		630	37	12	19	55	7,50	SMK-20-M14x1.5-B-W3
		9137	1.46	.47	.75	40.6	16.50	
M16 x 1,5		630	37	12	22	70	8,40	SMK-20-M16x1.5-B-W3
		9137	1.46	.47	.87	51.6	18.48	
G1/8		400	39	8	17	18	6,90	SMK-20-G1/8-B-W3
		5801	1.54	.31	.67	13.3	15.18	
G1/4		630	37	12	19	55	7,30	SMK-20-G1/4-B-W3
		9137	1.46	.47	.75	40.6	16.06	
G3/8		630	37	12	22	90	8,90	SMK-20-G3/8-B-W3
		9137	1.46	.47	.87	66.4	19.58	
M10 x 1	Type C	400	39	8	17	18	6,80	SMK-20-M10x1-B-C-W3
		5801	1.54	.31	.67	13.3	14.96	
M12 x 1,5		630	37	12	17	35	6,90	SMK-20-M12x1.5-B-C-W3
		9137	1.46	.47	.67	25.8	15.18	
M14 x 1,5		630	37	12	19	50	7,70	SMK-20-M14x1.5-B-C-W3
		9137	1.46	.47	.75	36.9	16.94	
M16 x 1,5		630	37	12	22	60	8,70	SMK-20-M16x1.5-B-C-W3
		9137	1.46	.47	.87	44.2	19.14	
G1/8		400	39	8	17	18	6,80	SMK-20-G1/8-B-C-W3
		5801	1.54	.31	.67	13.3	14.96	
G1/4		630	37	12	19	45	8,10	SMK-20-G1/4-B-C-W3
		9137	1.46	.47	.75	33.2	17.82	
G3/8		630	37	12	22	80	8,90	SMK-20-G3/8-B-C-W3
		9137	1.46	.47	.87	59	19.58	
G1/2		630	39	14	27	110	12,80	SMK-20-G1/2-B-C-W3
		9137	1.54	.55	1.06	81.1	28.16	
R1/8 K	Type D[1]	400	37	8	17		6,70	SMK-20-R1/8K-D-W3
		5801	1.46	.31	.67		14.74	
R1/4 K		630	35	12	17		7,10	SMK-20-R1/4K-D-W3
		9137	1.38	.47	.67		15.62	
1/8 NPT		400	36	10	17		6,40	SMK-20-1/8NPT-D-W3
		5801	1.42	.39	.67		14.08	
1/4 NPT		630	35	15	17		7,30	SMK-20-1/4NPT-D-W3
		9137	1.38	.59	.67		16.06	
5/16–24 UNF	Type E	400	38	7,5	17	8	6,70	SMK-20-5/16UNF-B-E-W3
		5.801	1.50	.30	.67	5.9	14.74	
7/16–20 UNF		630	38	9,1	17	20	7,00	SMK-20-7/16UNF-B-E-W3
		9137	1.50	.36	.67	14.7	15.40	
1/2–20 UNF		630	38	9,2	17	25	7,20	SMK-20-1/2UNF-B-E-W3
		9137	1.50	.36	.67	18.4	15.84	
9/16–18 UNF		630	37	10	19	35	7,60	SMK-20-9/16UNF-B-E-W3
		9137	1.46	.39	.75	25.8	16.72	
3/4–16 UNF		630	37	11.1	19	70	9,58	SMK-20-3/4UNF-B-E-W3
		9137	1.46	.44	.75	51.6	21.08	
M10 x 1		630	38	9,5	17	18	6,60	SMK-20-M10x1-B-E-W3
		9137	1.50	.37	.67	13.3	14.52	
M12 x1,5		630	37	11	17	35	6,90	SMK-20-M12x1.5-B-E-W3
		9137	1.46	.43	.67	25.8	15.18	
M14 x 1,5		630	38	11	19	45	7,80	SMK-20-M14x1.5-B-E-W3
		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.

Dimensional drawings: All dimensions in mm (in).

A

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





Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes (Standard Option)[2]
		Ød	~l1[3]	l2	h	Hex A	Hex B	per 100[1]	
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**

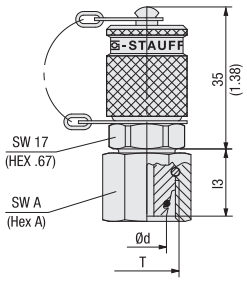
* Type	Test Coupling with Ball Check	**SMK**
* Series	STAUFF Test 20 (Connection Thread M16x2)	**-20**
* Outside Tube Diameter	acc. to dimension table	**-18**
* Series	Light Series	**L**
	Heavy Series	**S**
* Seal Material	FKM (Viton®)	**none**
	EPDM	**-E**
* Connection	Straight 24° Fitting	**-G**
* 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.

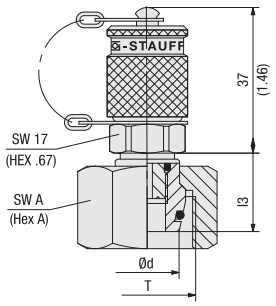
Dimensional drawings: All dimensions in mm (in).

A

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



Version A



Version B



Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)		Thread	Version	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
		Ød	l3	Hex A	T		per 100	
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	

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.

Ordering Codes

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

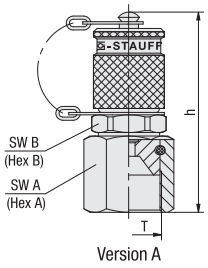
* Type	Test Coupling with Ball Check	SMK
* Series	STAUFF Test 20 (Connection Thread M16x2)	-20
* Outside Tube Diameter	acc. to dimension table	-18
* Series	Light Series	L
	Heavy Series	S
* Seal Material	NBR (Buna-N®)	-B
	FKM (Viton®)	-V
	EPDM	-E
* Connection	24° Taper / O-ring (DKO)	-K
* Design	One-piece 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

Dimensional drawings: All dimensions in mm (in).

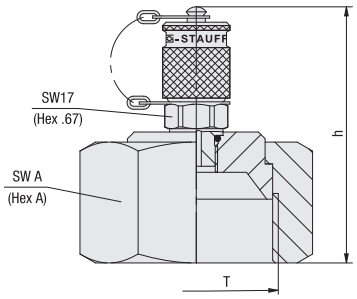
A

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





Version A



Version B

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®)	**none**
	EPDM	**-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	**-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**

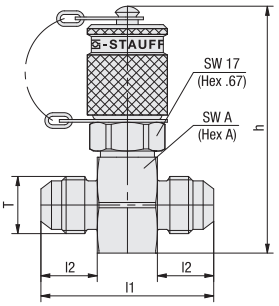
Pipe Ø inch	JIC-Size	Dimensions (mm/in) h	Hex A	Hex B	Thread T	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
1/4	-4	53	17	17	7/16–20 UNF	A	8,40	SMK-20-JIC1/4-K-W3
		2.09	.67	.67			18.48	
5/16	-5	53,5	17	17	1/2–20 UNF	A	8,30	SMK-20-JIC5/16-K-W3
		2.11	.67	.67			18.26	
3/8	-6	55,5	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.

Dimensional drawings: All dimensions in mm (in).

A

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





Pipe Ø	JIC-Size	Dimensions (mm/in)				Thread	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
inch		l1	l2	h	Hex A	T	per 100	
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**

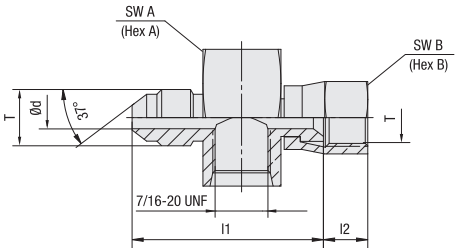
* Type	Test Coupling with Ball Check	**SMK**
* Series	STAUFF Test 20 (Connection Thread M16x2)	**-20**
* Connection	37° JIC Connection	**-JIC**
* Outside Tube Diameter	acc. to dimension table	**3/4**
* Seal Material	FKM (Viton®)	**none**
	EPDM	**-E**
* Connection	Straight Fitting	**-G**
* Protection 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**

Dimensional drawings: All dimensions in mm (in).

A

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





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**

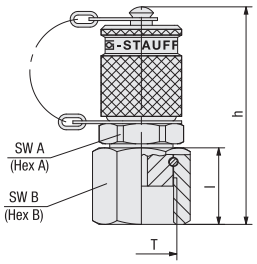
Pipe Ø	JIC-Size	Dimensions (mm/in)					Thread T	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
inch		Ø d	l1	l2	Hex A	Hex B	inch	per 100	
1/4	04	4,37	37,74	8,74	27	14,29	7/16–20 UNF	8,96	SGV-7/16UNF-04-JIC1/4-FM-W66
		.17	1.49	.34	1.06	.56		19.71	
3/8	06	7,54	40,01	9,53	27	17,46	9/16–18 UNF	9,60	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.

Dimensional drawings: All dimensions in mm (in).

A

Test Coupling with ORFS Connection
SMK-20 Type ORFS





Thread T	ORFS-Size	Dimensions (mm/in) h	l	Hex A	Hex B	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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**

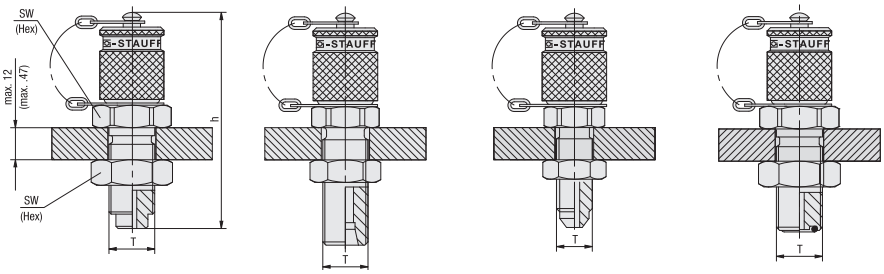
* Type	Test Coupling with Ball Check	**SMK**
* Series	STAUFF Test 20 (Connection Thread M16x2)	**-20**
* ORFS-Size	acc. to dimension table	**-06**
* Connection	ORFS	**-ORFS**
* Seal Material	FKM (Viton®)	**none**
	EPDM	**-E**
* Protection Cap	Knurled protection cap	**–**
	Hexagonal protection cap	**-SK**
	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**

Dimensional drawings: All dimensions in mm (in).

A

Bulkhead
SSK-20





Version A | Version B | Version C | Version D

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®)	**-B**
	FKM (Viton®)	**-V**
	EPDM	**-E**
	Version A/B/C	**none**
* 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**

Thread T	Dimensions (mm/in) h	Hex	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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





Version A | Version B

Ordering Codes

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

* Type	Test Adaptor	**SAD**
* Connection Type	Version A	**-20/15**
	Version A	**-20/12**
	Version B	**-20/10**
* 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**

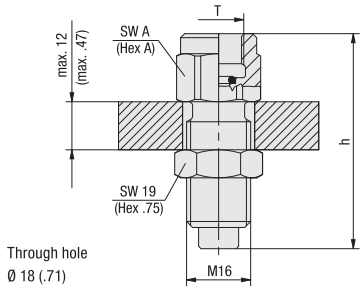
Thread T	Dimensions (mm/in) h	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M16 x 1,5	39	A	5,80	SAD-20/15-W3
	1.54		12.76	
S12[1]	39	A	5,30	SAD-20/12-W3
	1.54		11.66	
Plug in	37	B	3,40	SAD-20/10-W3
	1.46		7.48	

[1] Special thread: buttress thread S12,65 x1,5
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

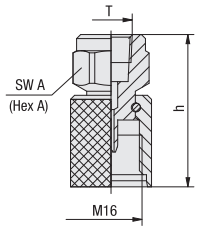
Dimensional drawings: All dimensions in mm (in).

Gauge Adaptor SMA-20

Direct Gauge Adaptor SMD-20



Gauge Adaptor SMA-20



Direct Gauge Adaptor SMD-20





Thread	Dimensions (mm/in)		Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
T	h	Hex A	per 100	
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®)	**-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**

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.

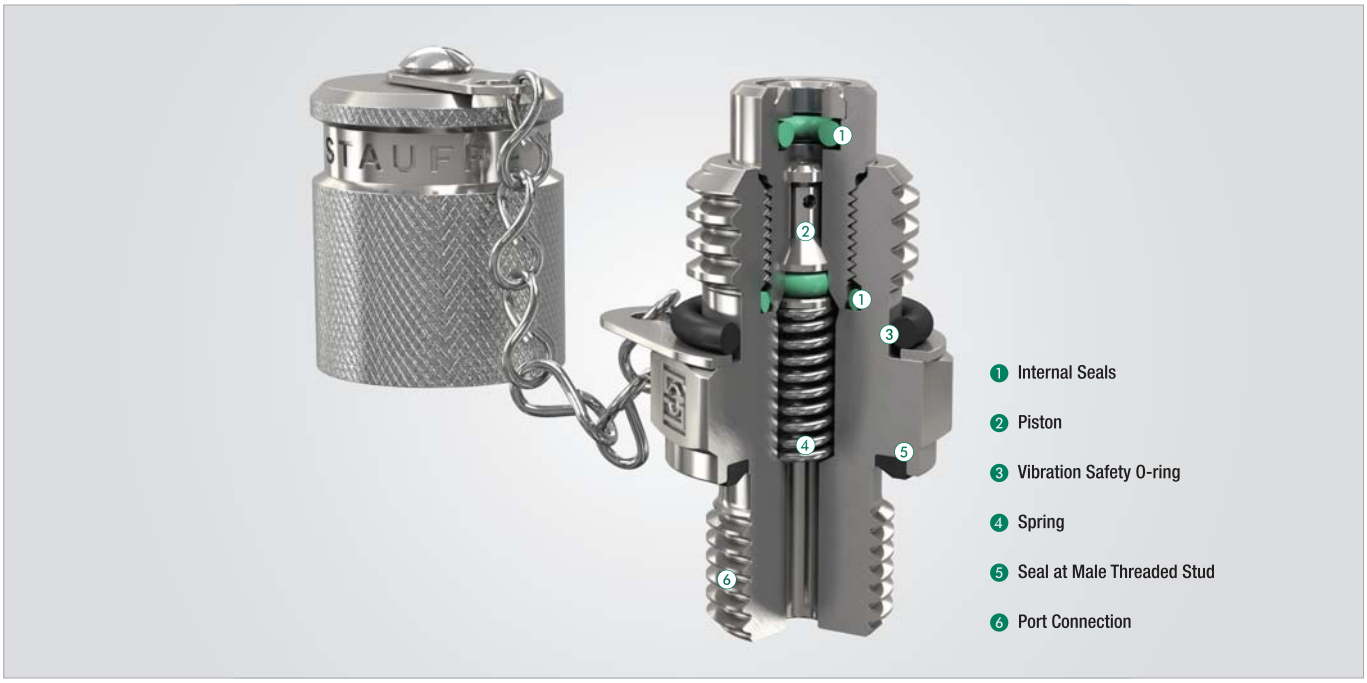
Dimensional drawings: All dimensions in mm (in).

Test Coupling with Piston Valve
SKK-20

A



Test Coupling with Piston Valve SKK-20



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

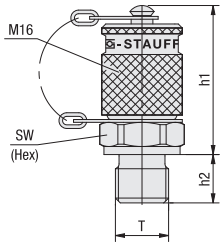
- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

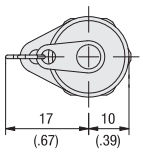
SKK-20 Test Coupling with Male Threaded Stud and optionally colour marking ring	SKK-20 Type G Test Coupling with Straight 24° Fitting	SKK-20 Type K Test Coupling With 24° Taper / O-ring (DKO)
		

A

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 D[1]


O-ring Type E

Thread T	Seal Type	Working Pressure (bar/PSI)	Dimensions (mm/in) h1	h2	Hex	Torque (N·m/ft-lb) ca. Thread T	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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		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 B	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		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		630	37	12	22	70	8,80	SKK-20-M16x1.5-B-W3
		9137	1.46	.47	.87	51.6	19.36	
G1/4		630	37	12	19	55	7,60	SKK-20-G1/4-B-W3
		9137	1.46	.47	.75	40.6	16.72	
G3/8		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		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		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		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		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		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		630	37	12	22	80	9,20	SKK-20-G3/8-B-C-W3
		9137	1.46	.47	.87	59	20.24	
G1/2		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		630	35	12	17		7,20	SKK-20-R1/4K-D-W3
		9137	1.38	.47	.67		15.84	
1/8 NPT		400	36	10	17		6,30	SKK-20-1/8NPT-D-W3
		5801	1.42	.39	.67		13.86	
1/4 NPT		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		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		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		630	37	10	19	35	7,80	SKK-20-9/16UNF-B-E-W3
		9137	1.46	.39	.75	25.8	17.16	
M12 x1,5		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		630	38	11	19	45	7,60	SKK-20-M14x1.5-B-E-W3
		9137	1.50	.43	.75	33.2	16.72	

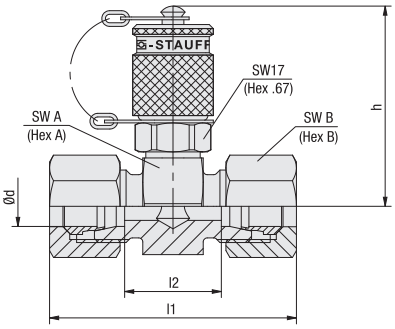
[1] Suitable liquid / plastic sealant required.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.
Torque recommendations for Steel mating material.

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

Dimensional drawings: All dimensions in mm (in).

A

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





Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes (Standard Option)[2]
		Ød	~l1[3]	l2	h	Hex A	Hex B	per 100[1]	
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
			2.80	.98	2.54	2.17	2.36	194.26	
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
			3.19	1.10	2.36	1.81	1.97	192.94	
	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®)	**none**
	EPDM	**-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**

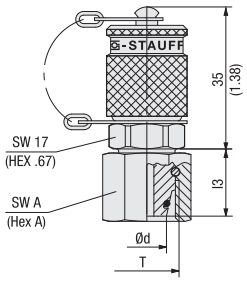
[1] Weight including cutting rings and union nuts.
[2] Standard option: Fitting body supplied with Cutting rings and union nuts.
[3] Approximate dimension in assembled condition.
Port acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

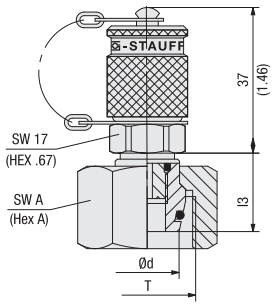
A

A

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



Version A



Version B



Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)		Thread	Version	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
		Ød	l3	Hex A	T		per 100	
L	315 4568	6	15,5 .61	14 .55	M12 x 1,5	A	8,10 17.82	SKK-20-06L-B-K-W3
		8	15,5 .61	17 .67	M14 x 1,5	A	7,80 17.16	SKK-20-08L-B-K-W3
		10	16,5 .65	19 .75	M16 x 1,5	A	9,20 20.24	SKK-20-10L-B-K-W3
		12	17,5 .69	22 .87	M18 x 1,5	A	10,50 23.10	SKK-20-12L-B-K-W3
		15	21 .83	27 1.06	M22 x 1,5	B	13,10 28.82	SKK-20-15L-B-K-GS-W3
		18	19,5 .77	32 1.26	M26 x 1,5	B	16,40 36.08	SKK-20-18L-B-K-GS-W3
	160 2320	22	20,5 .81	36 1.42	M30 x 2	B	20,00 44.00	SKK-20-22L-B-K-GS-W3
		28	25 .98	41 1.61	M36 x 2	B	26,50 58.30	SKK-20-28L-B-K-GS-W3
		35	30 1.18	50 1.97	M45 x 2	B	46,20 101.64	SKK-20-35L-B-K-GS-W3
		42	31 1.22	60 2.36	M52 x 2	B	58,90 129.58	SKK-20-42L-B-K-GS-W3
S	630 9137	6	14,5 .57	17 .67	M14 x 1,5	A	8,00 17.60	SKK-20-06S-B-K-W3
		8	16,5 .65	19 .75	M16 x 1,5	A	8,80 19.36	SKK-20-08S-B-K-W3
		10	16,5 .65	22 .87	M18 x 1,5	A	10,30 22.66	SKK-20-10S-B-K-W3
		12	17,5 .69	24 .94	M20 x 1,5	A	12,00 26.40	SKK-20-12S-B-K-W3
		14	19,5 .77	27 1.06	M22 x 1,5	B	13,20 29.04	SKK-20-14S-B-K-GS-W3
	400 5801	16	18 .71	30 1.18	M24 x 1,5	B	15,40 33.88	SKK-20-16S-B-K-GS-W3
		20	24 .94	36 1.42	M30 x 2	B	22,10 48.62	SKK-20-20S-B-K-GS-W3
		25	26 1.02	46 1.81	M36 x 2	B	36,20 79.64	SKK-20-25S-B-K-GS-W3
		30	30 1.18	50 1.97	M42 x 2	B	43,20 95.04	SKK-20-30S-B-K-GS-W3
	315 4568	38	34 1.34	60 2.36	M52 x 2	B	64,60 142.12	SKK-20-38S-B-K-GS-W3

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.

Dimensional drawings: All dimensions in mm (in).

Test Coupling with Ball Check
SMK-15

A



Test Coupling with Ball Check
SMK-15



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

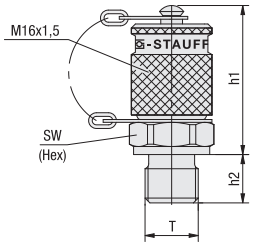
- On request TEST 15 is also available as SKK-type including "Gas"- and "Filling"-versions.

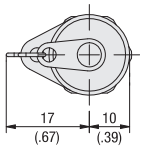
SMK-15 Test Coupling with Male Threaded Stud and optionally colour marking ring	**SMK-15 Type G** Test Coupling with Straight 24° Fitting	**SMK-15 Type K** Test Coupling With 24° Taper / O-ring (DKO)	**SSK-15** Bulkhead
			

A

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**

Seal Type


O-ring Type A


Metal Joint Type B


Elastomeric Sealing Type C


Taper Type D[1]


O-ring Type E

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

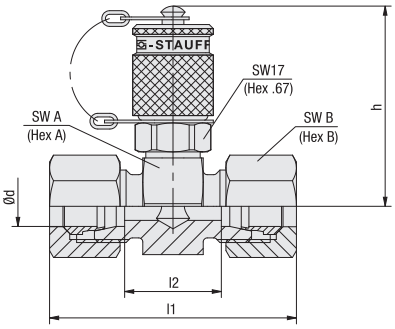
Thread T	Seal Type	Working Pressure (bar/PSI)	Dimensions (mm/in) h1	h2	Hex	Torque (N·m/ft-lb) ca. Thread T	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M10 x 1	Type A	630	38	9,8	17	12	6,90	SMK-15-M10x1-B-A-W3
		9137	1.50	.39	.67	8.8	15.18	
M14 x 1,5	Type B	630	37	12	19	55	7,90	SMK-15-M14x1.5-B-W3
		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		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	Type C	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		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	Type D[1]	630	35	12	17		7,10	SMK-15-R1/4K-D-W3
		9137	1.38	.47	.67		15.62	
1/8 NPT		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	Type E	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		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	

[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.

Dimensional drawings: All dimensions in mm (in).

A

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





Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes (Standard Option)[2]
		Ød	~l1[3]	l2	h	Hex A	Hex B	per 100[1]	
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®)	**none**
	EPDM	**-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**

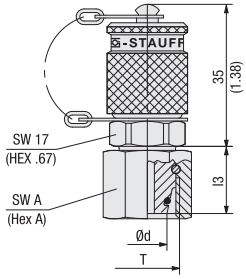
[1] Weight including cutting rings and union nuts.
[2] Standard option: Fitting body supplied with Cutting rings and union nuts.
[3] Approximate dimension in assembled condition.
Port acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

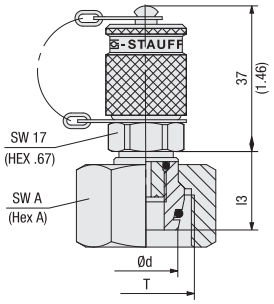
A

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





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 (Connection Thread M16x1,5)	**-15**
* Outside Tube Diameter	acc. to dimension table	**-18**
* Series	Light Series Heavy Series	**L** **S**
* Seal Material	NBR (Buna-N®) FKM (Viton®) EPDM	**-B** **-V** **-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 - 1.4305 (AISI 303)	**-W4**
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	**-W5**

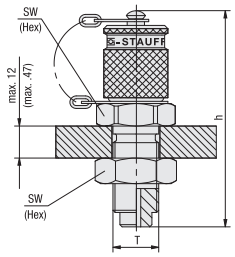
Series	PN (bar/PSI)	Pipe Ød	Dimensions (mm/in) l3	Hex A	Thread T	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
L	315 4568	6	15,5 .61	14 .55	M12 x 1,5	A	8,00 17.60	SMK-15-06L-B-K-W3
		8	15,5 .61	17 .67	M14 x 1,5	A	8,00 17.60	SMK-15-08L-B-K-W3
		10	16,5 .65	19 .75	M16 x 1,5	A	9,30 20.46	SMK-15-10L-B-K-W3
		12	17,5 .69	22 .87	M18 x 1,5	A	10,60 23.32	SMK-15-12L-B-K-W3
		15	21 .83	27 1.06	M22 x 1,5	B	13,00 28.60	SMK-15-15L-B-K-GS-W3
		18	19,5 .77	32 1.26	M26 x 1,5	B	16,30 35.86	SMK-15-18L-B-K-GS-W3
	160 2320	22	20,5 .81	36 1.42	M30 x 2	B	19,00 41.80	SMK-15-22L-B-K-GS-W3
		28	25 .98	41 1.61	M36 x 2	B	26,50 58.30	SMK-15-28L-B-K-GS-W3
		35	30 1.18	50 1.97	M45 x 2	B	40,43 88.95	SMK-15-35L-B-K-GS-W3
		42	31 1.22	60 2.36	M52 x 2	B	58,40 128.48	SMK-15-42L-B-K-GS-W3
S	630 9137	6	14,5 .57	17 .67	M14 x 1,5	A	7,90 17.38	SMK-15-06S-B-K-W3
		8	16,5 .65	19 .75	M16 x 1,5	A	8,80 19.36	SMK-15-08S-B-K-W3
		10	16,5 .65	22 .87	M18 x 1,5	A	10,30 22.66	SMK-15-10S-B-K-W3
		12	17,5 .69	24 .94	M20 x 1,5	A	11,90 26.18	SMK-15-12S-B-K-W3
		14	19,5 .77	27 1.06	M22 x 1,5	B	14,60 32.12	SMK-15-14S-B-K-GS-W3
	400 5801	16	18 .71	30 1.18	M24 x 1,5	B	15,20 33.44	SMK-15-16S-B-K-GS-W3
		20	24 .94	36 1.42	M30 x 2	B	22,20 48.84	SMK-15-20S-B-K-GS-W3
		25	26 1.02	46 1.81	M36 x 2	B	35,50 78.10	SMK-15-25S-B-K-GS-W3
		30	30 1.18	50 1.97	M42 x 2	B	43,40 95.48	SMK-15-30S-B-K-GS-W3
	315 4568	38	34 1.34	60 2.36	M52 x 2	B	63,80 140.36	SMK-15-38S-B-K-GS-W3

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.

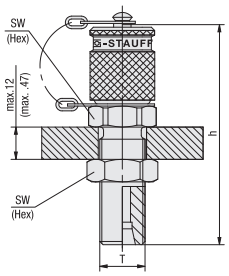
Dimensional drawings: All dimensions in mm (in).

A

Bulkhead
SSK-15



Version A



Version B



Thread	Dimensions (mm/in)		Version	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
T	h	Hex		per 100	
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	

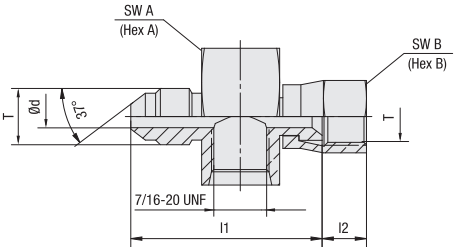
Also available for gaseous media: Type SSKK
[1] Compression ring assembly 08S according to ISO 8434-1 / DIN 2353
Standard option: With Hexagon Lock Nut.
Standard option - Version B: Excluding cutting rings and union nuts
Alternative materials and surface finishings are available upon request. Contact 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®)	none
	EPDM	-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	JIC-Size	Dimensions (mm/in)					Thread T	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
inch		Ø d	l1	l2	Hex A	Hex B	inch	per 100	
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**

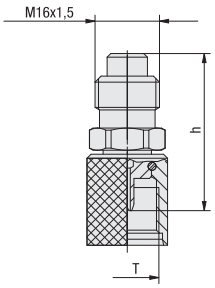
* Type	Swivel Run Tee	SGV
* Port Connection	acc. to dimension table	-7/16UNF
* JIC Size	acc. to dimension table	-12
* Connection	37° JIC Connection	-JIC
* Outside Tube Diameter	acc. to dimension table	3/4
* Connection	Female/Male Thread	-FM
* Material Code	Carbon Steel, zinc-plated and thick-film passivated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

Dimensional drawings: All dimensions in mm (in).

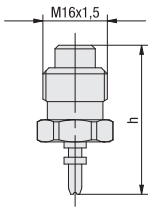
A

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 A	**-15/12**
	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 T	Dimensions (mm/in) h	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	

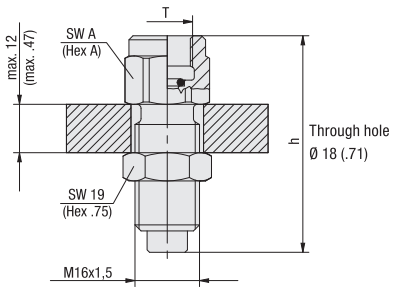
[1] Special thread: buttress thread S12,65 x1,5
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Gauge Adaptor
SMA-15

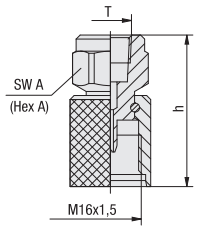


Direct Gauge Adaptor
SMD-15





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 T	Dimensions (mm/in) h	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



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.



Grooves for colour marking rings



Colour marking rings in the corresponding groove

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.

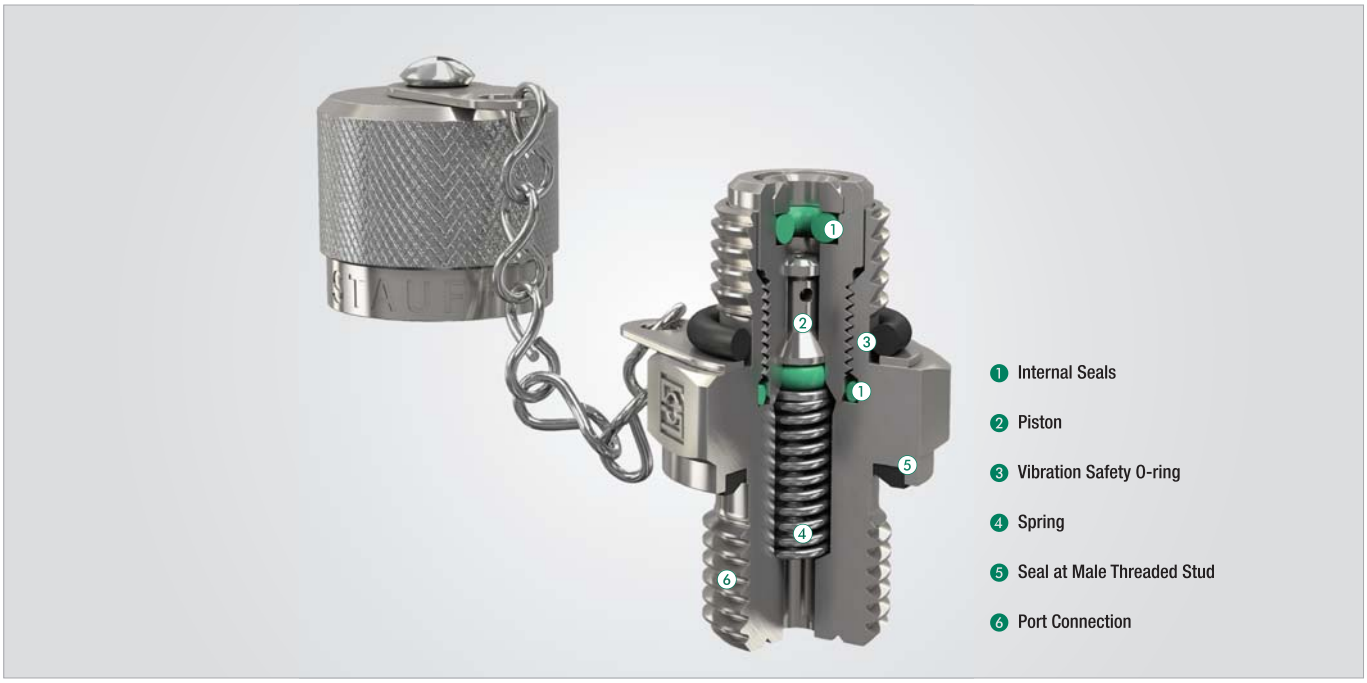
Selecting the right material was one of the crucial criteria for the development of the colour marking rings. Resistance to all media generally used in hydraulic systems was therefore of great importance. In addition to this, the ring material is also resistant to other oils, greases and a number of 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



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

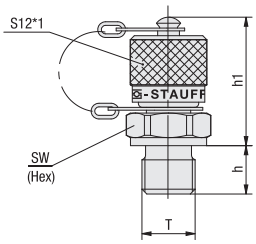
- The complete STAUFF-Test-12-type-SKK range is also available with a plastic protection cap.

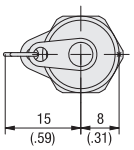
SKK-12 Test Coupling with Male Threaded Stud	**SKK-12 Type G** Test Coupling with Straight 24° Fitting	**SMK-12 Type K** Test Coupling With 24° Taper / O-ring (DKO)	**SSKK-12** Bulkhead
			

A

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 D[1]


O-ring Type E

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

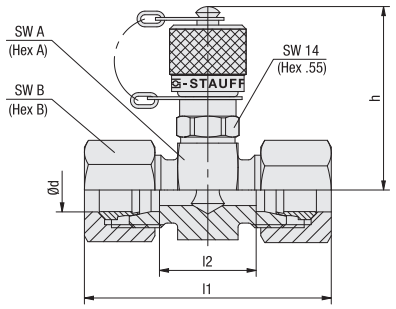
Thread T	Seal Type	Working Pressure (bar/PSI)	Dimensions (mm/in) h1	h2	Hex	Torque (N·m/ft·lb) ca. Thread T	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
M8 x 1	Type A	250	38	8,5	14	6	5,50	SKK-12-M8x1-B-A-W3
		3625	1.50	.33	.55	4.4	12.10	
M10 x 1		630	35	9,8	14	12	5,30	SKK-12-M10x1-B-A-W3
		9137	1.38	.39	.67	8.8	11.66	
M12 x 1,5	Type B	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		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		630	31	12	22	70	8,10	SKK-12-M16x1.5-B-W3
		9137	1.22	.47	.87	51.6	17.82	
G1/4		630	30	12	19	55	6,10	SKK-12-G1/4-B-W3
		9137	1.18	.47	.75	40.6	13.42	
G3/8		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		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		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		630	30	12	17		5,40	SKK-12-R1/4K-D-W3
		9137	1.18	.47	.55		11.88	
1/8 NPT		400	33	10	14		5,00	SKK-12-1/8NPT-D-W3
		5801	1.30	.39	.55		11.00	
1/4 NPT		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		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		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		630	31	10	19	35	6,30	SKK-12-9/16UNF-B-E-W3
		9137	1.22	.39	.75	25.8	13.86	
M12 x1,5		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: buttress 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.

Dimensional drawings: All dimensions in mm (in).

A

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





Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes (Standard Option)[2]
		Ød	~l1[3]	l2	h	Hex A	Hex B	per 100[1]	
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	**L**
	Heavy Series	**S**
* Seal Material	FKM (Viton®)	**none**
	EPDM	**-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**

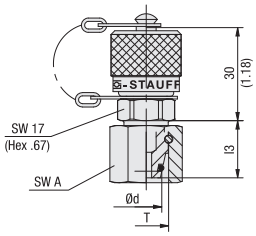
[1] Weight including cutting rings and union nuts.
[2] Standard option: Fitting body supplied with Cutting rings and union nuts.
[3] Approximate dimension in assembled condition.
Port acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

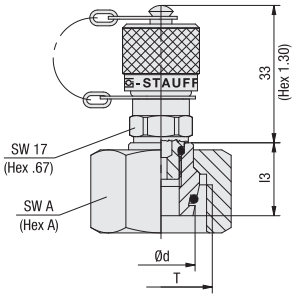
A

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





Version A



Version B

Ordering Codes

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

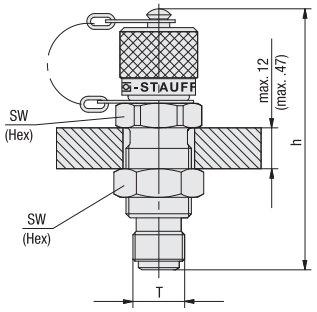
* Type	Test Coupling with Piston Valve	**SKK**
* Series	STAUFF Test 12 (Connection Thread S12,65 x 1,5)	**-12**
* Outside Tube Diameter	acc. to dimension table	**-18**
* Series	Light Series	**L**
	Heavy Series	**S**
* Seal Material	NBR (Buna-N®)	**-B**
	FKM (Viton®)	**-V**
	EPDM	**-E**
* Connection	24° 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 - 1.4305 (AISI 303)	**-W4**
	Stainless Steel V4A - 1.4571 (AISI 316 Ti)	**-W5**

Series	PN (bar/PSI)	Pipe Ød	Dimensions (mm/in) l3	Hex A	Thread T	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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.

Dimensional drawings: All dimensions in mm (in).

Bulkhead
SSKK-12





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

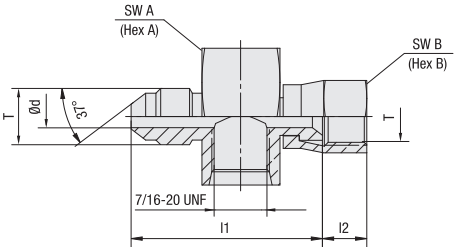
[1] Special thread: buttress thread S12,65 x1,5
Standard option: With Hexagon Lock Nut.
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

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®)	**none**
	EPDM	**-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	JIC-Size	Dimensions (mm/in)					Thread T	Weight (kg/lbs) ca.	Ordering Codes (Standard Option)
inch		Ø d	l1	l2	Hex A	Hex B	inch	per 100	
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**

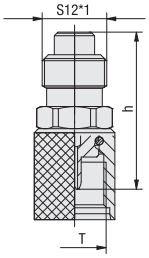
Dimensional drawings: All dimensions in mm (in).

A

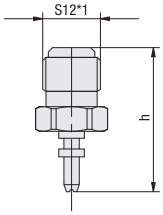
Test Adaptor
SAD-12







Version A



Version B

Ordering Codes

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

* Type	Test Adaptor	**SAD**
* Connection Type	Version A	**-12/20**
	Version A	**-12/15**
	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 T	Dimensions (mm/in) h	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	

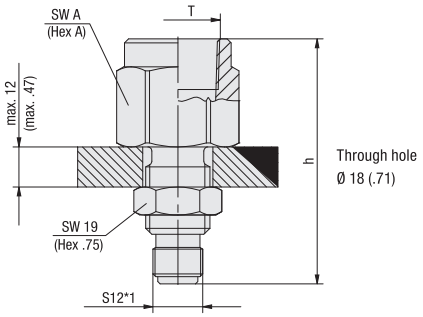
[1] Special thread: buttress thread S12,65 x1,5
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Gauge Adaptor
SMA-12

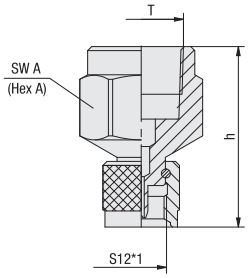
Direct Gauge Adaptor
SMD-12







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 T	Dimensions (mm/in) h	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



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

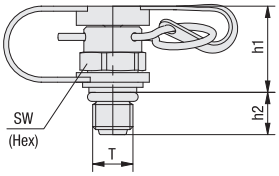
- Suitable for hydraulic oils and other Mineral oil based fluids
  (Check compatibility of seal material)
- For use with other liquid media please contact STAUFF

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 (DKO)
		

A

Test Coupling with Male Threaded Stud
SMK-10





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®)	**-B**
	FKM (Viton®)	**-V**
	EPDM	**-E**
	Seal Type D	**none**
* Seal Type	O-ring Type A	**-A**
	Taper Type D	**-D**
* 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 T	Seal Type	Working Pressure (bar/PSI)	Dimensions (mm/in) h1	h2	Hex	Torque (N-m/ft-lb) ca. Thread T	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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		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

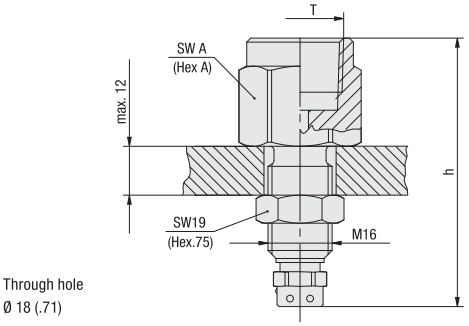


Taper Type D[1]

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

Gauge Adaptor
SMA-10





Ordering Codes

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

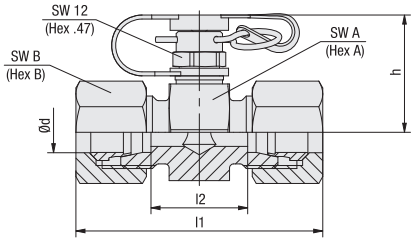
* Type	Gauge Adaptor	**SMA**
* Series	STAUFF Test 10 Plug In System	**-10**
* Thread	acc. to dimension table	**-G1/4**
* Seal Material	NBR (Buna-N®)	**-B**
	FKM (Viton®)	**-V**
	EPDM	**-E**
	Seal Type without O-ring	**none**
* Seal Type	with O-ring	**-OR**
* Material Code	Steel, zinc/nickel-plated	**-W3**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

Thread T	Dimensions (mm/in) h	Hex A	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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





Series	PN (bar/PSI)	Pipe	Dimensions (mm/in)					Weight (kg/lbs) ca.	Ordering Codes (Standard Option)[2]
		Ø d	~l1[3]	l2	h	Hex A	Hex B	per 100[1]	
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	**L**
	Heavy Series	**S**
* Seal Material	FKM (Viton®)	**none**
	EPDM	**-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**

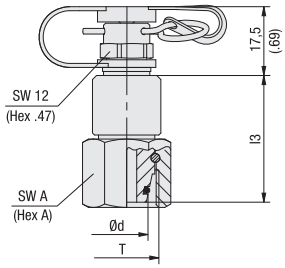
[1] Weight including cutting rings and union nuts.
[2] Standard option: Fitting body supplied with Cutting rings and union nuts.
[3] Approximate dimension in assembled condition.
Port acc. to ISO 8434-1 / DIN 2353
Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).

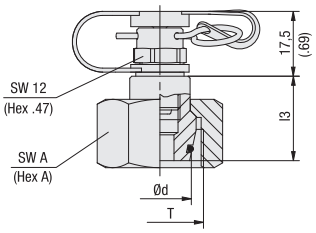
A

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**

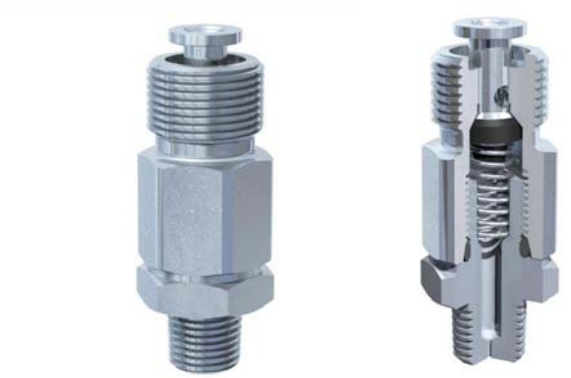
* Type	Test Coupling with Ball Check	**SMK**
* Series	STAUFF Test 10 Plug In System	**-10**
* Outside Tube Diameter	acc. to dimension table	**-18**
* Series	Light Series	**L**
	Heavy Series	**S**
* Seal Material	NBR (Buna-N®)	**-B**
	FKM (Viton®)	**-V**
	EPDM	**-E**
* Connection	24° Taper / O-ring (DKO)	**-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 (bar/PSI)	Pipe Ø d	Dimensions (mm/in) l3	Hex A	Thread T	Version	Weight (kg/lbs) ca. per 100	Ordering Codes (Standard Option)
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.

Dimensional drawings: All dimensions in mm (in).

Special Test Coupling Solutions STAUFF Test



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



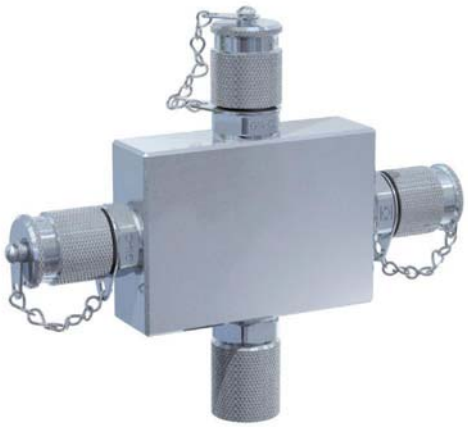
Test Coupling with Female Connection Port



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.