STAUFF SMK-20-M10x1-B-A-W3 pressure test coupling

Manufacturer: STAUFF

Manufacturer part number / published order designation: 1210026076

Published model: SMK-20-M10x1-B-A-W3

About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

Execution notes and conditions

NBR execution does not mean every internal seal is NBR: source explicitly states internal FKM seals even in standard NBR types.

Optional DVGW/gas configurations and alternative seals on the page are not assigned to this article.

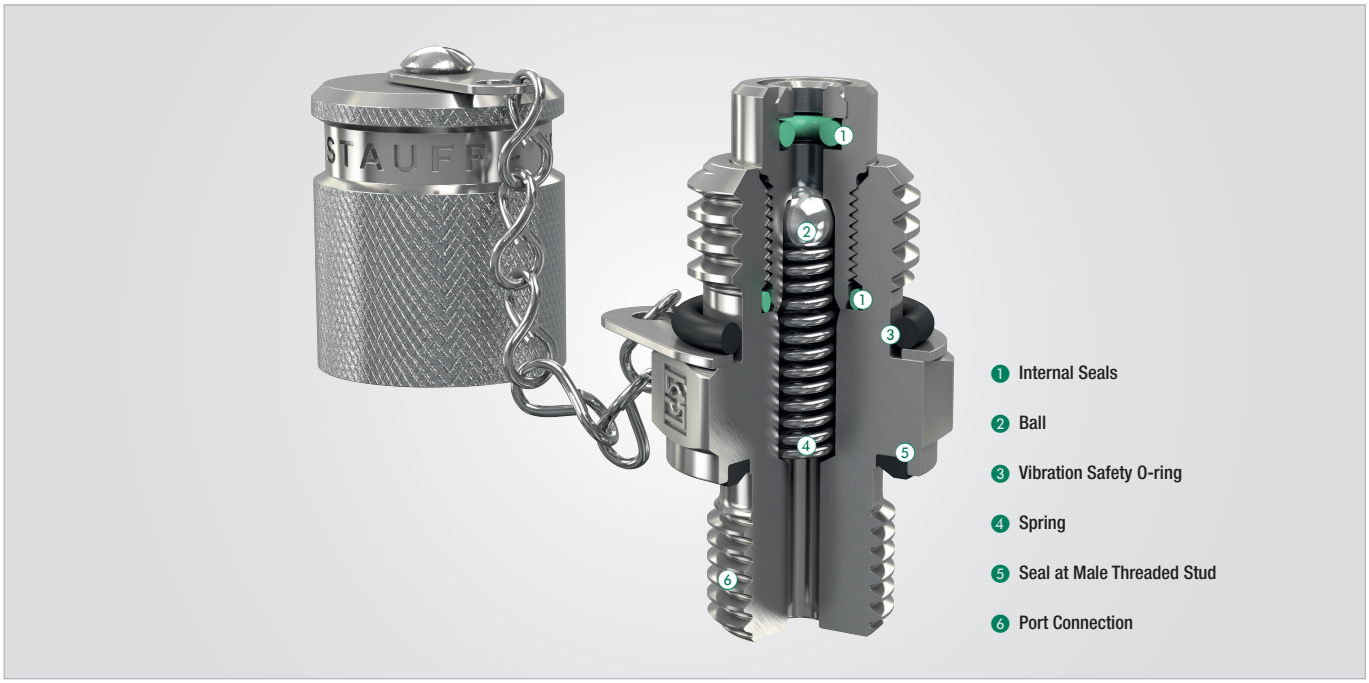
Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

Source A: Stauff Test Pressure Test Couplings

Original pages	Compiled pages	Relevant content
15-16	2-3	Correct ball-check SMK sectional construction, seal locations/material limits, media, maximum pressure and 400bar connection-under-pressure limit.; Exact complete ordering row and port/seal type, installation thread, M16x2 measurement interface, dimensions, mounting torque and row pressure.

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

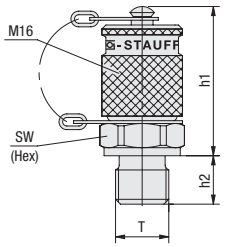
- Hydraulic test couplings and test hose assemblies of the STAUFF Test 20 and STAUFF Test 15 series made of steel and stainless steel can optionally be equipped with colour marking rings. Please see page 39 for more information.

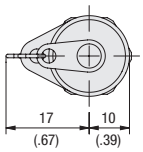
SMK-20 Test Coupling with Male Threaded Stud and optionally colour marking ring	**SMK-20 Type G** Test Coupling with Straight 24° Fitting	**SMK-20 Type K** Test Coupling With 24° Taper / O-ring (DKO)	**SMK-20-JIC** Test Coupling with 37° JIC Connection	**SSK-20** Bulkhead
				

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).