

Technical Data for Test Hose

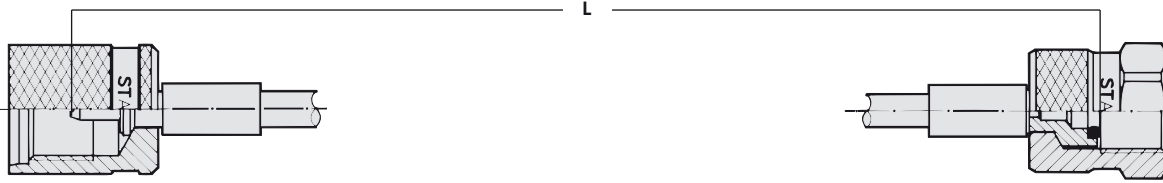


		(mm)	A	B	C	D
Nominal Bore (DN)			DN 2		DN 4	
Max. Working Pressure (PN)		(bar / PSI)	400 / 5801	630 / 9135	340 / 4931	630 / 9135
Min. Burst Pressure		(bar / PSI)	1100 / 15954	1900 / 27557	850 / 12328	1900 / 27557
Testing Pressure		(bar / PSI)	600 / 8702	950 / 13778	570 / 8267	950 / 13779
Pressure Rating in bar / PSI at Indicated Temperature	at 0 °C / 32 °F	(bar / PSI)	488 / 7077	768 / 11138	463 / 6715	768 / 11139
	at 30 °C / 86 °F		440 / 6381	693 / 10051	418 / 6063	693 / 10051
	at 50 °C / 122 °F		400 / 5801	630 / 9137	380 / 5511	630 / 9137
	at 80 °C / 176 °F		344 / 4989	542 / 7861	327 / 4743	542 / 7861
	at 100 °C / 212 °F		308 / 4467	485 / 7034	293 / 4250	485 / 7034
Working Temperature	(°C / °F)		-35 °C ... +100 °C / -31 °F ... +212 °F (momentary +120 °C / +248 °F)			
Inside Diameter	(mm / in)		2 / .08			
Outside Diameter	(mm / in)		5 / .20			
Bending Radius	at working pressure	(mm / in)	20 / .79			
	at -20 °C / 4 °F	(mm / in)	30 / 1.18			
Max. Coil Length	(m / ft)		100 / 328			
Weight / m	(g / oz)		16 / .50			
Inner / Outer Tube			PA			
Reinforcement			Synthetic Fibre			
Standard hose end material is Steel 11 S Mn Pb 30 (1.0718), zinc/ nickel-plated (Type 15: Steel, black zinc/nickel-plated)						
Stainless Steel: V2A (1.4305/AISI 303), V4A (1.4571/AISI 316Ti) on request						

Standard Hose

<p>STAUFF-Test 20/20</p>	<p>STAUFF-Test 15/15</p>	<p>STAUFF-Test 12/12*2</p> <p>*2 Special thread: buttress thread S12,65 x 1,5</p>	<p>STAUFF-Test 10/10</p>	<p>Gauge Adaptor</p>
<ul style="list-style-type: none"> ▪ Max. Working Pressure: 400 bar / 5801 PSI ▪ Burst Pressure: 1100 bar / 15954 PSI ▪ Pressure/t° factor: to 0 °C 122 % at 30 °C 110 % at 50 °C 100 % at 80 °C 86 % at 100 °C 77 % 	<ul style="list-style-type: none"> ▪ Max. Working Pressure: 630 bar / 9137 PSI ▪ Burst Pressure: 1900 bar / 27557 PSI ▪ Pressure/t° factor: to 0 °C 122 % at 30 °C 110 % at 50 °C 100 % at 80 °C 86 % at 100 °C 77 % 	<ul style="list-style-type: none"> ▪ Max. Working Pressure: 400 bar / 5801 PSI ▪ Burst Pressure: 1100 bar / 15954 PSI ▪ Pressure/t° factor: to 0 °C 122 % at 30 °C 110 % at 50 °C 100 % at 80 °C 86 % at 100 °C 77 % 	<ul style="list-style-type: none"> ▪ Max. Working Pressure: 400 bar / 5801 PSI ▪ Burst Pressure: 1100 bar / 15954 PSI ▪ Pressure/t° factor: to 0 °C 122 % at 30 °C 110 % at 50 °C 100 % at 80 °C 86 % at 100 °C 77 % 	<ul style="list-style-type: none"> ▪ Gauge adaptor 1/4 NPT, G1/2 and 1/2 NPT on request ▪ Gauge adaptor available for all STAUFF-Test series

Order Code STAUFF Test Hose



SMS *1	20	/ M	3000	A	C6F
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Hose End 1 (see pages B38 - B43)	Hose End 2 (see pages B38 - B43)		Length	DN / Hose Size	Material Hose End
20 A J	only specify when 2 different hose ends are required		Length in mm (see L above) Standard Lengths see table below.	A = DN 2 400 bar / 5802 PSI	Standard hose end material is Steel 11 S Mn Pb 30 (1.0718), zinc/nickel-plated = C6F Type 15: Steel, black zinc/nickel-plated = C6F Stainless Steel: V2A (1.4305/AISI 303), V4A (1.4571/AISI 316Ti) on request
15 S D				B*2 = DN 2 630 bar / 9137 PSI	
12 K B				C*3 = DN 4 340 bar / 4931 PSI	
10 L U				D*3 = DN 4 630 bar / 9137 PSI	
M G P					
N F etc.					
W C					

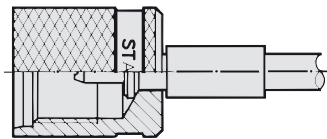
*1 for gaseous media type SGS - Test hoses are perforated
 *2 Standard test hose option for North America is version B.
 *3 Type C and D - are perforated

Standard Length L*	
in mm	in in
200	7.87
400	15.75
630	24.80
800	31.50
1000	39.37
1500	59.06
2000	78.74
2500	98.43
3200	125.98
4000	157.48


 STAUFF
Test

B

Order Code STAUFF Hose End



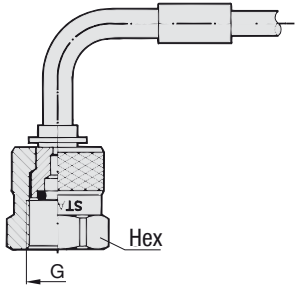
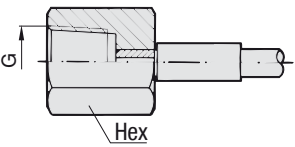
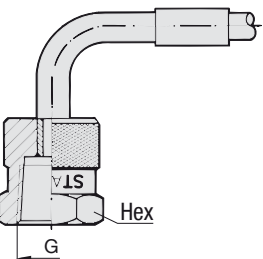
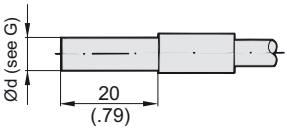
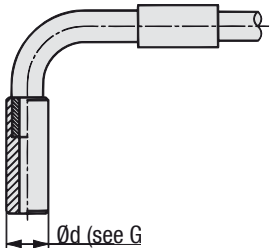
HE	20	A	C6F
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Hose End (see pages B38 - B43)			DN / Hose Size	Material Hose End
20 A J			A = DN 2 400 bar / 5802 PSI	Standard hose end material is Steel 11 S Mn Pb 30 (1.0718), zinc/nickel-plated = C6F Type 15: Steel, black zinc/nickel-plated = C6F Stainless Steel: V2A (1.4305/AISI 303), V4A (1.4571/AISI 316Ti) on request
15 S D			B = DN 2 630 bar / 9137 PSI	
12 K B			C = DN 4 340 bar / 4931 PSI	
10 L U			D = DN 4 630 bar / 9137 PSI	
M G P				
N F etc.				
W C				

STAUFF Hose End

Hose End	Description	Type	G	Hex (mm/in)	DN Hose Size	
	STAUFF-Test Screw-type suitable for test points		20	M16 x 2	2 and 4	
			15	M16 x 1,5		
			12	S12,62 x 1,5		
	STAUFF-Test Screw-type 90° elbow suitable for test points	0	20	M16 x 2	2	
			15	M16 x 1,5		
			12	S12,62 x 1,5		
	STAUFF-Test Screw-type 90° elbow suitable for test points (short wire version)	OX	20	M16 x 2	17 .67 2	
			15	M16 x 1,5		
			12	S12,62 x 1,5		
	STAUFF-Test Plug in-type		10	Plug in system	2	
	Gauge adaptor BSP-thread for G3/8, G1/2, M14 x 1,5 and M20 x 1,5 swivel nut like type N	M	1/4	G1/4	19 .75 2 and 4	
			1/2	G1/2		
			3/8	G3/8	22 .87	
			14	M14 x 1,5	19 .75	2
			20	M20 x 1,5	27 1.06	

STAUFF Hose End

Hose End	Description	Type	G	Hex (mm/in)	DN Hose Size	
	90° elbow gauge adaptor BSP-thread for G1/2 swivel nut like type N	W	1/4	G1/4	19 .75	2 and 4
			1/2	G1/2	27 1.06	
	Gauge adaptor NPT-thread for 1/4 NPT swivel nut like type M	N	1/4	1/4 NPT	19 .75	2
			1/2	1/2 NPT	27 1.06	
	90° elbow gauge adaptor NPT-thread for 1/2 NPT swivel nut like type N	A	1/4	1/4 NPT	19 .75	2 and 4
			1/2	1/2 NPT	27 1.06	
	Standpipe for compression ring fittings according to ISO 8434-1 / DIN 2353 Note: Standpipe version is not in accordance with the state of the art. Use at own risk. We recommend the use of the series K, R or L.	S	4	4 LL		2
			6	6 L - 6 S		2 and 4
			8	8 L - 8 S		
			10	10 L - 10 S		2
			12	12 L - 12 S		2
	Standpipe for compression ring fittings according to ISO 8434-1 / DIN 2353 90° elbow Note: Standpipe version is not in accordance with the state of the art. Use at own risk. We recommend the use of the series K, R or L.	SG	6	6 L - 6 S		2 and 4
			8	8 L - 8 S		

STAUFF Hose End

Hose End	Description	Type	G	Hex (mm/in)	DN Hose Size	
	Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut	K	6 L	M12 x 1,5	14 .55	2 and 4
			8 L	M14 x 1,5	17 .67	
			10 L	M16 x 1,5	19 .75	
			12 L	M18 x 1,5	22 .87	
			6 S	M14 x 1,5	17 .67	
			8 S	M16 x 1,5	19 .75	
			10 S	M18 x 1,5	22 .87	
			12 S	M20 x 1,5	24 .94	
	Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut 45° elbow	R	6 L	M12 x 1,5	14 .55	2 and 4
			6 S	M14 x 1,5	14 .67	
	Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut 90° elbow	L	6 L	M12 x 1,5	14 .55	2 and 4
			8 L	M14 x 1,5	17 .67	
			10 L	M16 x 1,5	19 .75	
			6 S	M14 x 1,5	17 .67	
			8 S	M16 x 1,5	19 .75	
			10 S	M18 x 1,5	24 .94	
	Male thread according to DIN 3852-B	G	12	M12 x 1,5	17 .67	2 and 4
			1/8	G1/8	14 .55	
			1/4	G1/4	19 .75	
			1/2	G1/2	27 1.06	
	Male thread NPT according to ANSI-standard	F	1/8	1/8 NPT	13 .51	2 and 4
			1/4	1/4 NPT	17 .67	

STAUFF Hose End

Hose End	Description	Type	G	Hex (mm/in)		DN Hose Size	
	Male thread for 24° cone fitting according to ISO 8434-1 / DIN 2353	C	6 L	M12 x 1,5	14	.55	2 and 4
			8 L	M14 x 1,5	17	.67	
			6S	M14 x 1,5	17	.67	
			8 S	M16 x 1,5	17	.67	
	Male thread according to SAE J 514	J	1/4	7/16-20 UNF	14	.55	2 and 4
			5/16	1/2-20 UNF	14	.55	
			3/8	9/16-18 UNF	17	.67	
	Universal sealing head with swivel nut for 24° cone fitting according to ISO 8434-1 / DIN 2353	D	6 L	M12 x 1,5	14	.55	2 and 4
			8 L	M14 x 1,5	17	.67	
			10 L	M16 x 1,5	19	.75	
			12 L	M18 x 1,5	22	.87	
			6 S	M14 x 1,5	17	.67	
			8 S	M16 x 1,5	19	.75	
			10 S	M18 x 1,5	22	.87	
	Universal sealing head with swivel nut for 24° cone fitting according to ISO 8434-1 / DIN 2353 90° elbow	Q	10 L	M16 x 1,5	19	.75	2 and 4
			10 S	M18 x 1,5	22	.87	
	Sealing head with swivel nut for cone fitting according to DIN EN 560	B	1/8	G1/8	12	.47	2 and 4
			1/4	G1/4	17	.67	

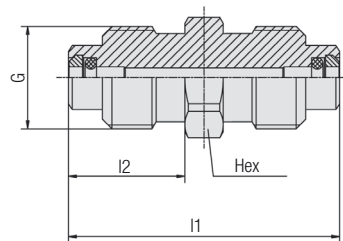
STAUFF Hose End

Hose End	Description	Type	G	Hex (mm/in)		DN Hose Size	
	Sealing head with swivel nut according to SAE J 514 37° cone	U	1/4	7/16-20 UNF	14	.55	2 and 4
			5/16	1/2-20 UNF	17	.67	
			3/8	9/16-18 UNF	19	.75	
	Sealing head with swivel nut according to SAE J 516 45° cone	UR	1/4	7/16-20 UNF	14	.55	2
	Sealing head with swivel nut according to SAE J 516 37° cone 90° elbow	E	1/4	7/16-20 UNF	14	.55	2 and 4
	Sealing head with swivel nut according to SAE J 516 45° cone 90° elbow	ER	1/4	7/16-20 UNF	14	.55	2
	Test hose for air brake systems	P	2	M16 x 1,5	19	.75	2

STAUFF Hose End

Hose End	Description	Type		G	Hex (mm/in)		DN Hose Size
	Sealing head with swivel nut 60° cone	H	1/4	G1/4	17	.67	2 and 4
	Screw-type ORFS according to SAE J 1453	T	9/16	9/16-18 UNF	17	.67	2
			11/16	11/16-16 UN	21	.83	
	Screw-type ORFS according to SAE J 1453 90° elbow	V	11/16	11/16-16 UN	21	.83	2 and 4
	Hose end with integrated check valve	RV	20	M16 x 2			2
			15	M16 x 1,5			

**Hose Connector
SSV**



Sealings

Internal sealings made of FPM (Viton®).

Metal Parts

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**

Standard material SSV15:

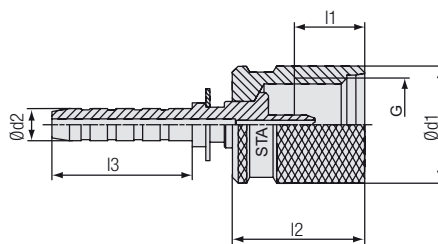
Steel, black zinc/nickel-plated = **C6F (CrVI-free)**

For ordering **V2A (1.4305 / AISI 303)** replace "C6F" with "V2A".

For ordering **V4A (1.4571 / AISI 316Ti)** replace "C6F" with "V4A".

Thread	Dimensions (mm/in)			Order Codes
	l1	l2	Hex	
M16 x 2	42,5	18,5	17	SSV20-C6F
	1.67	.73	.67	
M16 x 1,5	42,5	18,5	17	SSV15-C6F
	1.67	.73	.67	
S12,65 x 1,5	31	12,5	14	SSV12-C6F
	1.22	.49	.55	

**Sampling Hose Adaptor
SHA**



Metal Parts

Standard material: Steel, zinc/nickel-plated = **C6F (CrVI-free)**

Dimensions (mm/in)						Order Code
$\varnothing d1$	$\varnothing d2$	l1	l2	l3	G	
22	5,5	13	23	24	18	SHA20-5.5MM-C6F
.87	.22	.51	.91	.94	.71	

Port Connections and Sealing Details

<p>Type A</p>	<p>Type A - Threaded port according to factory standard Sealing: O-ring Type A</p>			
	Thread	Dimensions (mm/in)		
G	d1 +0,1	t1 min.	t2 min	
M8 x 1	9,5 .37	11 .43	15,5 .61	
M10 x 1	11,5 .45	12 .47	16,5 .64	

<p>Type B and C</p>	<p>Type B and C - Threaded port type X acc. to DIN 3852 Part 1 and 2; ISO 9974-1 (metric); ISO 1179-1 (inch) Sealing: Metal joint Type B / Elastomeric sealing Type C</p>				
	Thread	Dimensions (mm/in)			
G	d1 min.	t1 min.	t2 min.	a max.	
M10 x 1	15 .59	8 .31	10 .39	1 .04	
M12 x 1,5	18 .71	12 .47	15 .59	1,5 .06	
M14 x 1,5	20 .79	12 .47	15 .59	1,5 .06	
M16 x 1,5	23 .91	12 .47	15 .59	1,5 .06	
M18 x 1,5	25 .98	12 .47	15 .59	2 .08	
M20 x 1,5	27 1.06	14 .55	17 .67	2 .08	
M22 x 1,5	28 1.10	14 .55	17 .67	2,5 .10	
G1/8	15 .59	8,5 .33	10,5 .41	1 .04	
G1/4	20 .79	12,5 .49	15,5 .61	1,5 .06	
G3/8	23 .91	12,5 .49	15,5 .61	2 .08	
G1/2	28 1.10	14,5 .57	18,5 .73	2,5 .10	

<p>Type D</p>	<p>Type D - Parallel threaded port type Z according to DIN 3852 Part 2 (inch) Sealing: Taper Type D suitable sealant required</p>		
	Thread	Dimensions (mm/in)	
G	t1 min.	t2 min.	
Rp1/8	5,5 .22	9,5 .37	
Rp1/4	8,5 .33	13,5 .53	
Rp3/8	8,5 .33	13,5 .53	
Rp1/2	10,5 .41	16,5 .65	

Port Connections and Sealing Details

Type D	Type D - Taper threaded port according to ANSI/ASME B1.20.1-1983 (NPT) Sealing: Taper Type D suitable sealant required		
	Thread	Dimensions (^{mm} / _{in})	
	G	t1 min.	t2 min.
	1/8-27 NPT	6,9 .27	11,6 .46
	1/4-18 NPT	10 .39	16,4 .65
	1/2-14 NPT	13,6 .54	22,6 .89

Type E	Type E - Threaded port according to ISO 6149-1 (metric); ISO 11926-1 (UNF) Sealing: O-ring Type E							
	Thread	Dimensions (^{mm} / _{in})						
	G	d1 +0,1	d2 min.	t1 min.	t2 min.	a +0,4	b max.	z° ±1°
	M10 x 1	11,1 .44	16 .63	10 .39	11,5 .45	1,6 .06	1 .04	12°
	M12 x 1,5	13,8 .54	19 .75	11,5 .45	14 .55	2,4 .09	1,5 .06	15°
	M14 x 1,5	15,8 .62	21 .83	11,5 .45	14 .55	2,4 .09	1,5 .06	15°
	M16 x 1,5	17,8 .70	24 .94	13 .51	15,5 .61	2,4 .09	1,5 .06	15°
	M22 x 1,5	23,8 .94	29 1.14	15,5 .61	18 .71	2,4 .09	2 .08	15°
	M27 x 2	29,4 1.16	34 1.34	19 .75	22 .87	3,1 .91	2 .08	15°
	5/16-24 UNF	9,1 .36	17 .67	10 .39	12 .47	1,9 .07	1,6 .06	12°
	7/16-24 UNF	12,4 .49	21 .83	11,5 .45	14 .55	2,4 .09	1,6 .06	12°
	1/2-20 UNF	14 .55	23 .91	11,5 .45	14 .55	2,4 .09	1,6 .06	12°
	9/16-18 UNF	15,65 .62	25 .98	12,7 .50	15,5 .61	2,5 .10	1,6 .06	12°
	7/8-14 UNF	23,95 .94	34 1.34	16,7 .66	20 .79	2,5 .10	2,4 .09	15°