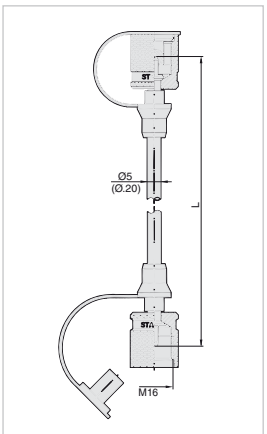
Technical Data for Test Hose

			A	B	C	D
Nominal Bore (DN)		(mm)	**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		4 / .16	
Outside Diameter		(mm / in)	5 / .20		8,6 / .34	
Bending Radius	at working pressure	(mm / in)	20 / .79		40 / 1.57	
	at -20 °C / 4 °F		30 / 1.18		60 / 2.36	
Max. Coil Length		(m / ft)	100 / 328			
Weight / m		(g / oz)	16 / .50		42 / 1.35	
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

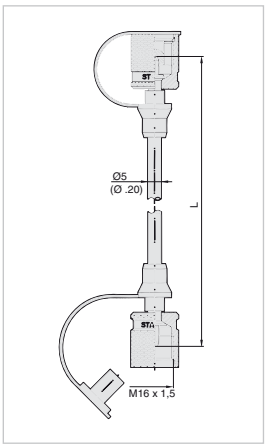
Standard Hose

STAUFF-Test 20/20



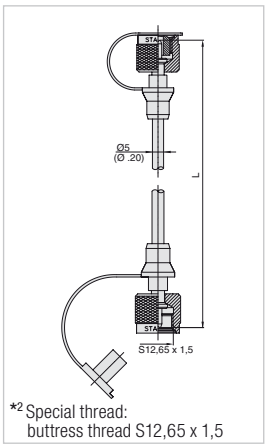
- Max. Working Pressure: 400 bar / 5801 PSI
- Burst Pressure: 1100 bar / 15954 PSI
- Pressure/t° factor:
  to 0 °C 122 %
  at 30 °C 110 %
  at 50 °C 100 %
  at 80 °C 86 %
  at 100 °C 77 %

STAUFF-Test 15/15



- 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 %

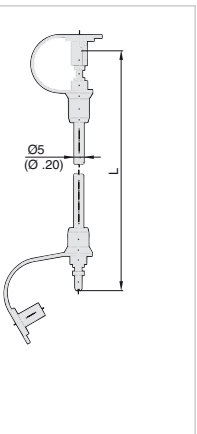
STAUFF-Test 12/12*2



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

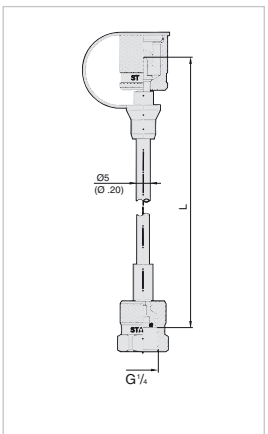
- Max. Working Pressure: 400 bar / 5801 PSI
- Burst Pressure: 1100 bar / 15954 PSI
- Pressure/t° factor:
  to 0 °C 122 %
  at 30 °C 110 %
  at 50 °C 100 %
  at 80 °C 86 %
  at 100 °C 77 %

STAUFF-Test 10/10



- 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 %

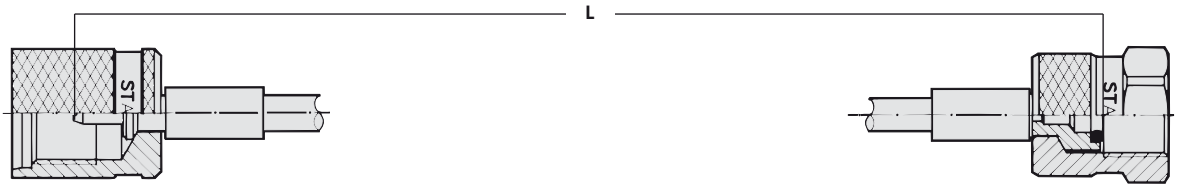
Gauge Adaptor



- Gauge adaptor 1/4 NPT, G1/2 and 1/2 NPT on request
- Gauge adaptor available for all STAUFF-Test series

Dimensional drawings: All dimensions in mm (in).

Order Code STAUFF Test Hose



SMS *1	20	/ M	3000	A	C6F

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

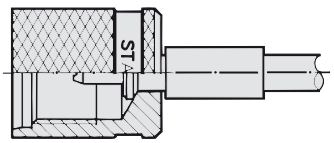
***2 Standard test hose option for North America is version B.**

*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

Bending protection on request.

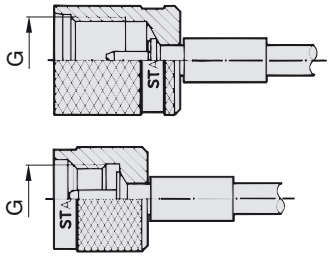
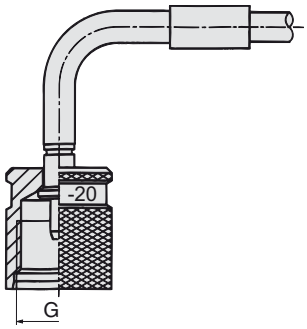
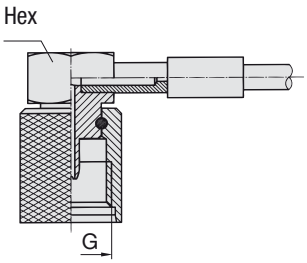
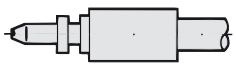
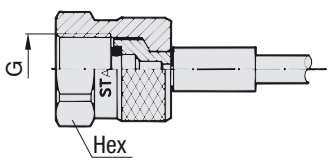
Order Code STAUFF Hose End



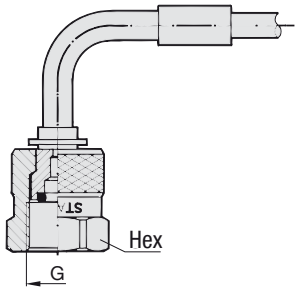
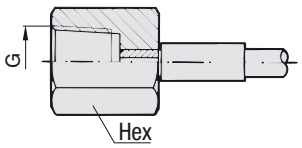
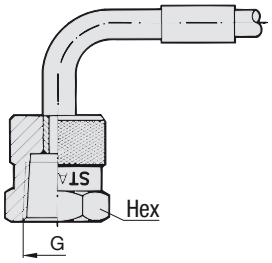
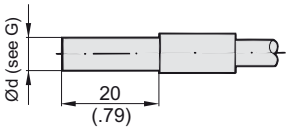
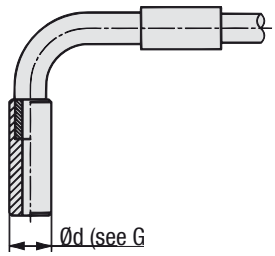
HE	20	A	C6F

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

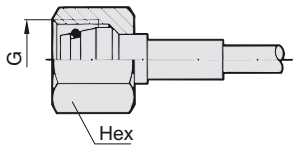
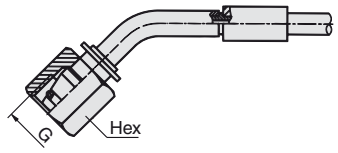
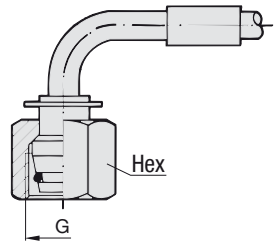
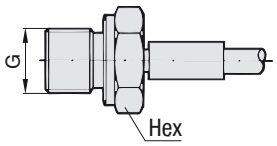
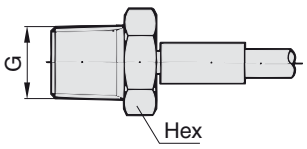
Hose End	Description	Type		G	Hex (mm/in)		DN Hose Size
	STAUFF-Test Screw-type suitable for test points		**20**	M16 x 2			2 and 4
			15	M16 x 1,5			
			12	S12,62 x 1,5			
	STAUFF-Test Screw-type 90° elbow suitable for test points	**0**	**20**	M16 x 2			2
			15	M16 x 1,5			
			12	S12,62 x 1,5			
	STAUFF-Test Screw-type 90° elbow suitable for test points (short wire version)	**0X**	**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	27	1.06	
			3/8	G3/8	22	.87	2
			14	M14 x 1,5	19	.75	
			20	M20 x 1,5	27	1.06	

STAUFF Hose End

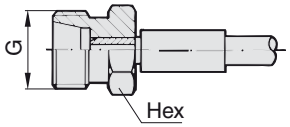
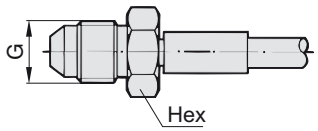
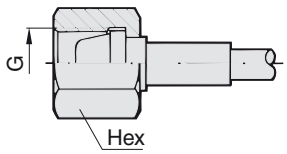
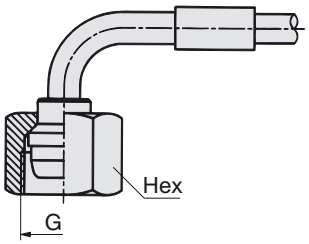
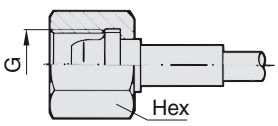
Hose End	Description	Type		G	Hex (mm/in)		DN Hose Size
	90° elbow gauge adaptor BSP-thread for G1/2 swivel nut like type N	W	1/4	G1/2	19	.75	2 and 4
			1/2	G1/2	27	1.06	
	Gauge adaptor NPT-thread for 1/4 NPT swivel nut like type M	N	1/4	1/4 NPT	19	.75	2
			1/2	1/2 NPT	27	1.06	
	90° elbow gauge adaptor 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			
			12	12 L - 12 S			2
			1/4	1/4			2 and 4
	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			

Dimensional drawings: All dimensions in mm (in).

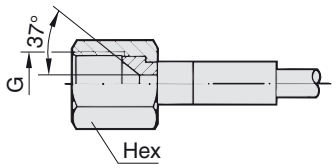
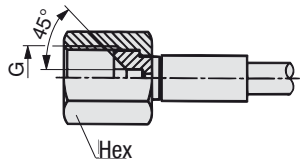
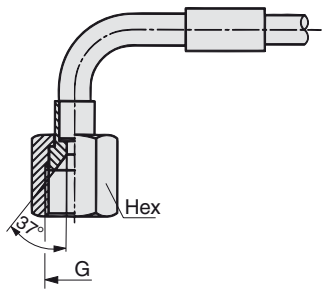
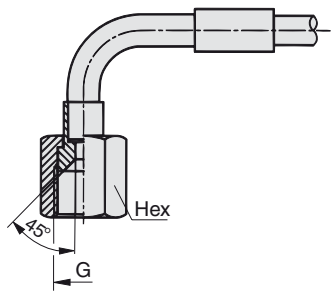
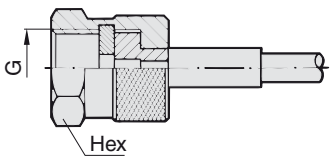
STAUFF Hose End

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	

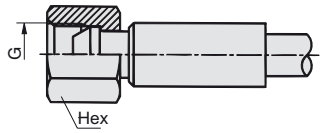
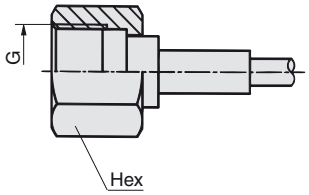
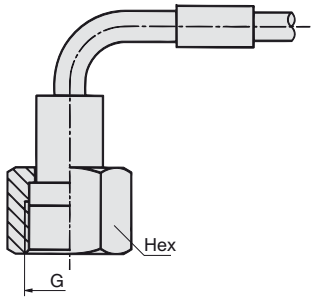
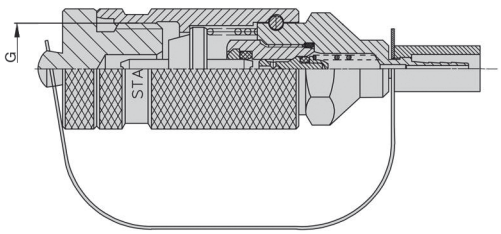
STAUFF Hose End

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	
			12 S	M20 x 1,5	24	.94	
	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	

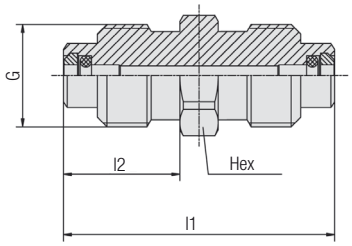
STAUFF Hose End

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

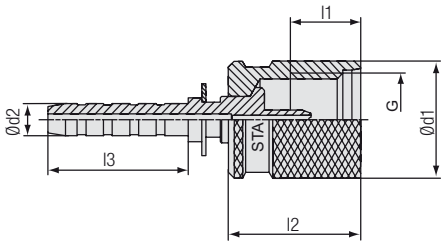
Internal sealings made of FPM (Viton®).

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
G	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



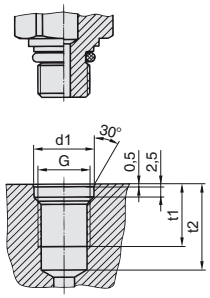
Metal Parts

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

Dimensions (mm/in)						Order Code
Ød1	Ød2	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

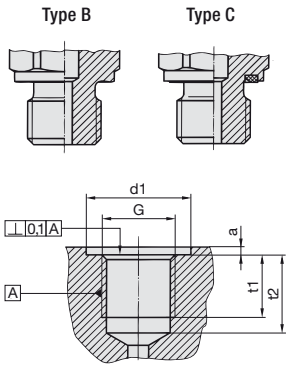
Type A



Type A - **Threaded port according to factory standard**
Sealing: O-ring Type A

Thread	Dimensions (mm/in)		
G	d1 +0,1	t1 min.	t2 min
M8 x 1	9,5	11	15,5
	.37	.43	.61
M10 x 1	11,5	12	16,5
	.45	.47	.64

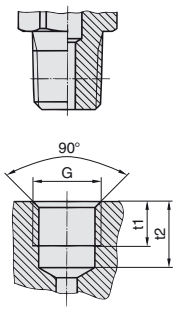
Type B and C



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

Thread	Dimensions (mm/in)			
G	d1 min.	t1 min.	t2 min.	a max.
M10 x 1	15	8	10	1
	.59	.31	.39	.04
M12 x 1,5	18	12	15	1,5
	.71	.47	.59	.06
M14 x 1,5	20	12	15	1,5
	.79	.47	.59	.06
M16 x 1,5	23	12	15	1,5
	.91	.47	.59	.06
M18 x 1,5	25	12	15	2
	.98	.47	.59	.08
M20 x 1,5	27	14	17	2
	1.06	.55	.67	.08
M22 x 1,5	28	14	17	2,5
	1.10	.55	.67	.10
G1/8	15	8,5	10,5	1
	.59	.33	.41	.04
G1/4	20	12,5	15,5	1,5
	.79	.49	.61	.06
G3/8	23	12,5	15,5	2
	.91	.49	.61	.08
G1/2	28	14,5	18,5	2,5
	1.10	.57	.73	.10

Type D



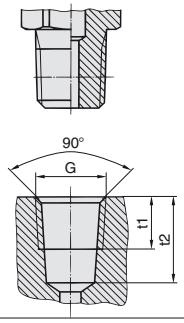
Type D - **Parallel threaded port type Z according to DIN 3852 Part 2 (inch)**
Sealing: Taper Type D suitable sealant required

Thread	Dimensions (mm/in)	
G	t1 min.	t2 min.
Rp1/8	5,5	9,5
	.22	.37
Rp1/4	8,5	13,5
	.33	.53
Rp3/8	8,5	13,5
	.33	.53
Rp1/2	10,5	16,5
	.41	.65

Port Connections and Sealing Details

Type D

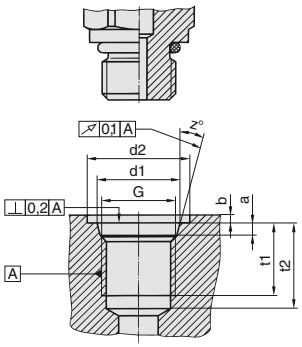
Type D - Taper threaded port according to ANSI/ASME B1.20.1-1983 (NPT)
Sealing: Taper Type D suitable sealant required



Thread	Dimensions (mm/in)	
G	t1 min.	t2 min.
1/8–27 NPT	6,9	11,6
	.27	.46
1/4–18 NPT	10	16,4
	.39	.65
1/2–14 NPT	13,6	22,6
	.54	.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	16	10	11,5	1,6	1	12°
	.44	.63	.39	.45	.06	.04	
M12 x 1,5	13,8	19	11,5	14	2,4	1,5	15°
	.54	.75	.45	.55	.09	.06	
M14 x 1,5	15,8	21	11,5	14	2,4	1,5	15°
	.62	.83	.45	.55	.09	.06	
M16 x 1,5	17,8	24	13	15,5	2,4	1,5	15°
	.70	.94	.51	.61	.09	.06	
M22 x 1,5	23,8	29	15,5	18	2,4	2	15°
	.94	1.14	.61	.71	.09	.08	
M27 x 2	29,4	34	19	22	3,1	2	15°
	1.16	1.34	.75	.87	.91	.08	
5/16–24 UNF	9,1	17	10	12	1,9	1,6	12°
	.36	.67	.39	.47	.07	.06	
7/16–24 UNF	12,4	21	11,5	14	2,4	1,6	12°
	.49	.83	.45	.55	.09	.06	
1/2–20 UNF	14	23	11,5	14	2,4	1,6	12°
	.55	.91	.45	.55	.09	.06	
9/16–18 UNF	15,65	25	12,7	15,5	2,5	1,6	12°
	.62	.98	.50	.61	.10	.06	
7/8–14 UNF	23,95	34	16,7	20	2,5	2,4	15°
	.94	1.34	.66	.79	.10	.09	