

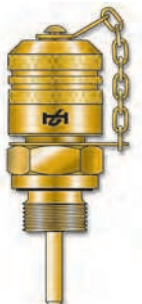
MINIMESS® – an overview

MINIMESS®-1620



Thread of screw-cap	Nominal Bore	Max Pressure	Material	Sealing material	Page
M 16 x 2	DN 2	63,0 MPa	Free-cutting steel 1.0718 Stainless steel 1.4571	NBR (Perbunan) FKM (Viton)	8

MINIMESS®-p/T 1620



Thread of screw-cap	Nominal Bore	Max Pressure	Material	Sealing material	Page
M 16 x 2	DN 2	63,0 MPa	Free-cutting steel 1.0718	NBR (Perbunan) FKM (Viton)	12

MINIMESS®-1215



Thread of screw-cap	Nominal Bore	Max Pressure	Material	Sealing material	Page
Fixing thread 12	DN 2	63,0 MPa	Free-cutting steel 1.0718 Stainless steel 1.4571	NBR (Perbunan) FKM (Viton)	13

MINIMESS®-1615



Thread of screw-cap	Nominal Bore	Max Pressure	Material	Sealing material	Page
M 16 x 1,5	DN 2	63,0 MPa	Free-cutting steel 1.0718 Stainless steel 1.4571	NBR (Perbunan) FKM (Viton)	16

MINIMESS®-1604



Thread of screw-cap	Nominal Bore	Max Pressure	Material	Sealing material	Page
Fixing thread 16	DN 4	40,0 MPa	Free-cutting steel 1.0718	NBR (Perbunan) FKM (Viton)	19

MINIMESS®-Technical data

Max. working pressure 63 MPa (630 bar) according to ISO 15171-2

Material

Coupling body and metal cap made of steel 1.0718
 Note: Unless stated otherwise, all products shown in this catalogue are made of free-cutting steel 1.0718

Sealing

Internal primary- and secondary sealing as well as sealing for screw-in threads are made of NBR (Perbunan). Option in FKM (Viton).

Vibration

NBR (Perbunan) and/or FKM (Viton) O-ring to prevent cap loosening due to vibration.

Screw-in thread

Large range of threads are available.

Media application

Suitable for hydraulic- and other oils on mineral oil basis

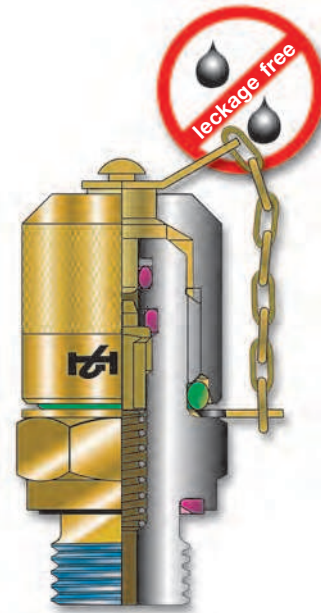
Temperature ranges at applications with metal cap (standard)

Sealing made of NBR (Perbunan): -25 °C to +100 °C,
 for a short time, can be also used up to +120 °C

Sealing made of FKM (Viton) as option: -20 °C to +200 °C

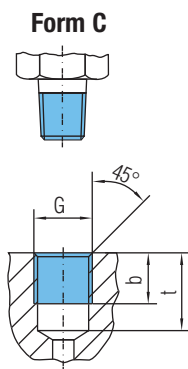
Application with plastic cap (option)
 and for both sealing materials: -20 °C to +100 °C

Application for low temperature: -54 °C on request



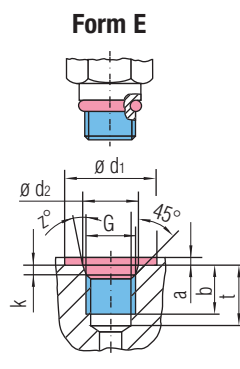
Gradually change over to chrome (VI)-free surface treatment

Thread form data



Thread port according to DIN 3852 part 1 and part 2, form Z (sealed with suitable sealant)

G	b	t
ISO 7/1 - R1/8	5,5	9,5
ISO 7/1 - R1/4	8,5	13,5



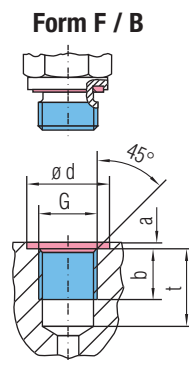
Thread port according to SAEJ 514 (UNF) or according to ISO 6149-1 (sealed with O-ring)

SAE J 514 (UNF)

G	d ₁	d ₂	b	k	t	a	z°
7/16-20 UNF	21,0	12,4	11,5	2,4	14,0	1,6	12,0
1/2-20 UNF	23,0	14,0	11,5	2,4	14,0	1,6	12,0
9/16-18 UNF	25,0	15,6	12,7	2,5	15,5	1,6	12,0
3/4-16 UNF	30,0	20,6	14,3	2,5	17,5	2,4	15,0

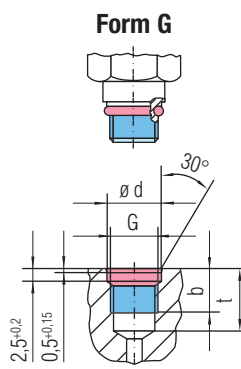
ISO 6149-1

M	d ₁	d ₂	b	k	t	a	z°
M 10 x 1	19,0	11,1	10,0	1,6	11,5	1,0	12,0
M 12 x 1,5	19,0	13,8	11,5	2,4	14,0	1,5	15,0
M 14 x 1,5	21,0	15,8	11,5	2,4	14,0	1,5	15,0
M 16 x 1,5	24,0	17,8	13,0	2,4	15,5	1,5	15,0



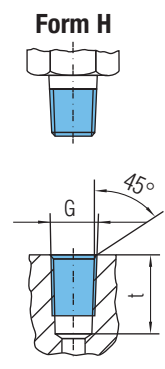
Thread Port up to Ø d according to DIN 3852 part 1 and part 2, form X (sealed with flat seal or sealing edge)

G	d	a	b	t
ISO 228-G 1/8	15,0	1,0	8,0	13,0
ISO 228-G 1/4	20,0	1,5	12,0	18,5
ISO 228-G 3/8	23,0	2,0	12,0	18,5
ISO 228-G 1/2	27,0	2,5	14,0	22,0
M 12 x 1,5	18,0	1,5	12,0	18,5
M 14 x 1,5	20,0	1,5	12,0	18,5
M 16 x 1,5	22,0	1,5	12,0	18,5



Thread Port according to HYDROTECHNIK standard N901-01-14 (sealed with O-ring)

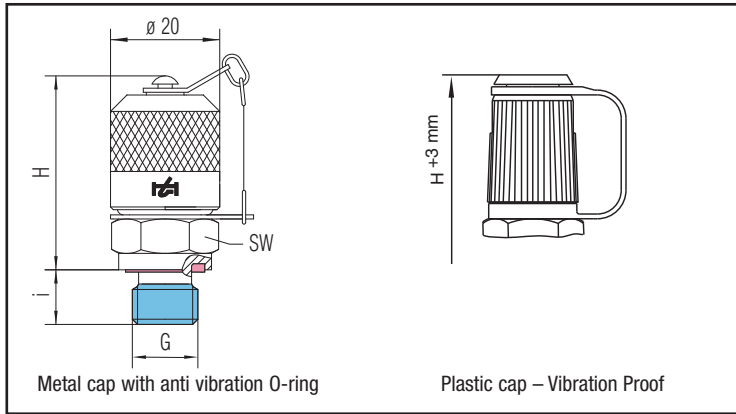
G	d	b	t
M 8 x 1	9,5	9,0	13,0
M 10 x 1	11,5	9,0	13,0



Thread Port according to ANSI/ASME B 1.20.1-1983 (self sealing thread)

G	t
1/8 NPTF	12,0
1/4 NPTF	17,5
1/2 NPTF	22,9

MINIMESS®-1620 Test Points



Thread G	Type of seal A	Torque in Nm	Technical data				Part-number with NBR - sealing	Part-number with NBR - sealing	Part-number with FKM - sealing
			p max	H in mm	i in mm	SW in mm			
M 8 x 1*	Form G	6	25 MPa	41	8,5	17	2103-01-32.00	2103-30-32.00	on request
M 10 x 1		12		37,5	8,5	17	2103-01-33.00	2103-30-33.00	2703-01-33.10
M 12 x 1,5	Form F	30	63 MPa	36	10	17	2103-01-13.00	2103-30-13.00	on request
M 14 x 1,5		40		36	10	19	2103-01-14.00	2103-30-14.00	2703-01-14.10
M 16 x 1,5		60		36	10	22	2103-01-15.00	2103-30-15.00	on request
M 14 x 1,5	Form E**	45		35,5	11	19	2103-01-96.00	2103-30-96.00	on request
ISO 228-G 1/8	Form F	18	40 MPa	38	8	17	2103-01-17.00	2103-30-17.00	2703-01-17.10
ISO 228-G 1/4		40		36	10	19	2103-01-18.00	2103-30-18.00	2703-01-18.10
ISO 228-G 3/8		60		36	10	22	2103-01-16.00	2103-30-16.00	on request
1/8 NPTF	Form H	-	40 MPa	33	9,5	17	2103-01-46.00	2103-30-46.00	on request
1/4 NPTF		-		33	16,5	17	2103-01-47.00	2103-30-47.00	2703-01-47.10
7/16-20 UNF	Form E	20	63 MPa	37	9	17	2103-01-21.00	2103-30-21.00	on request
9/16-18 UNF		35		36	10	19	2103-01-53.00	2103-30-53.00	on request
ISO 7/I-R 1/8	Form C	-	40 MPa	33	13	17	2103-01-40.00	2103-30-40.00	on request
ISO 7/I-R 1/4		-		33	13	17	2103-01-41.00	2103-30-41.00	on request

* M8x1 - Please do not use for new machinery design.
 ** Form E - ISO 6149-2.

Option

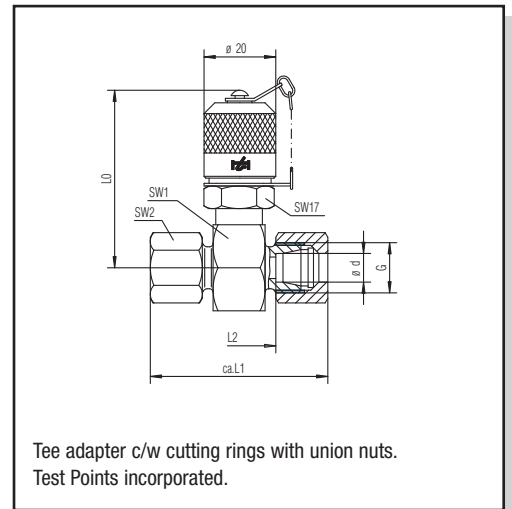
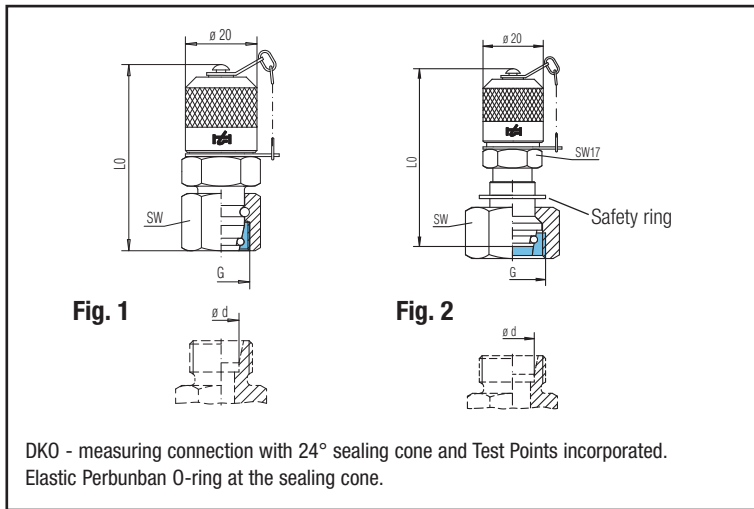
For sealing in FKM (Viton) Exchange end digits from 00 to 10	10
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Other materials, designs, sealing and screw-in threads on request.
 We reserve the right to carry out technical modifications.

MINIMESS®-1620 Test Points

Metric DKO, Tee Adaptors - 1620

For solder free screw-in pipe connections according to DIN 2353; free-cutting steel 1.0718; sealing NBR



Series Ø d	p max	Thread G
L 6	31,5 MPa	M 12 x 1,5
L 8		M 14 x 1,5
L 10		M 16 x 1,5
L 12		M 18 x 1,5
L 15		M 22 x 1,5
L 18		M 26 x 1,5
L 22	16 MPa	M 30 x 2
L 28		M 36 x 2
L 35		M 45 x 2
L 42		M 52 x 2

Fig.	L ₀	SW	Part-number
1	52	14	2103-93-06.00
	52	17	2103-93-08.00
	52	19	2103-93-10.00
	52	22	2103-93-12.00
	52	27	2103-93-15.00
	52	32	2103-93-18.00
2	60	36	2103-40-22.00
	61	41	2103-40-28.00
	63	50	2103-40-35.00
	63	60	2103-40-42.00

L ₁	L ₂	L ₀	SW ₁	SW ₂	Part-number
50,5	20,5	49,5	24	14	2103-11-06.00
50,5	20,5	49,5	24	17	2103-11-08.00
52,5	22,5	49,5	24	19	2103-11-10.00
52,5	22,5	49,5	24	22	2103-11-12.00
54,5	24,5	52,5	30	27	2103-11-15.00
56,5	23,5	53,5	32	32	2103-11-18.00
60,5	27,5	55,5	36	36	2103-11-22.00
60,5	27,5	58	41	41	2103-11-28.00
68,5	25,5	60,5	46	50	2103-11-35.00
70,5	24,5	65	55	60	2103-11-42.00

Series Ø d	p max	Thread G
S 6	63 MPa	M 14 x 1,5
S 8		M 16 x 1,5
S 10		M 18 x 1,5
S 12		M 20 x 1,5
S 14		M 22 x 1,5
S 16	40 MPa	M 24 x 1,5
S 20		M 30 x 2
S 25		M 36 x 2
S 30		M 42 x 2
S 38	31,5 MPa	M 52 x 2

Fig.	L ₀	SW	Part-number	
1	52	17	2103-94-06.00	
	52	19	2103-94-08.00	
	52	22	2103-94-10.00	
	52	24	2103-94-12.00	
2	63	27	2103-41-14.00	
1	52	30	2103-94-16.00	
	63	36	2103-41-20.00	
	2	64,5	46	2103-41-25.00
		66	50	2103-41-30.00
		69	60	2103-41-38.00

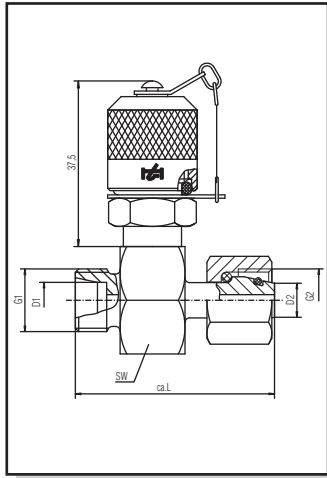
L ₁	L ₂	L ₀	SW ₁	SW ₂	Part-number
54,5	24,5	49,5	24	17	2103-12-06.00
54,5	24,5	49,5	24	19	2103-12-08.00
56,5	23,5	49,5	24	22	2103-12-10.00
56,5	23,5	49,5	24	24	2103-12-12.00
62,5	26,5	51	27	27	2103-12-14.00
62,5	25,5	52,5	30	30	2103-12-16.00
68,5	25,5	55,5	36	36	2103-12-20.00
74,5	26,5	58	41	46	2103-12-25.00
80,5	27,5	60,5	46	50	2103-12-30.00
91	29	65	55	60	2103-12-38.00

Options

All sealing made of Viton with metal cap (when ordering, exchange end digits from 00 to 10)	10
With mounted plastic cap (when ordering, exchange end digits from 00 to 90)	90
All sealing made of Viton with plastic cap (when ordering, exchange end digits from 00 to 95)	95

MINIMESS®-1620 Test Points Metric DKO 1620 Male/Female Tee Adaptors

For solder free screw-in pipe connections according to DIN 2353

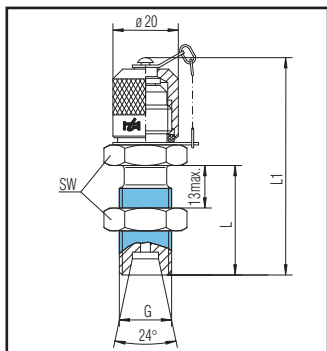


Series	p max	G1	D1	G2	D2	SW	L	Part-number
L 6	31,5 MPa	M 12 x 1,5	6	M 12 x 1,5	6	24	44,5	2103-KL-06.00
L 8		M 14 x 1,5	8	M 14 x 1,5	8	24	44,5	2103-KL-08.00
L 10		M 16 x 1,5	10	M 16 x 1,5	10	24	47,5	2103-KL-10.00
L 12		M 18 x 1,5	12	M 18 x 1,5	12	24	48,5	2103-KL-12.00
L 15		M 22 x 1,5	15	M 22 x 1,5	15	30	51,5	2103-KL-15.00
L 18	16 MPa	M 26 x 1,5	18	M 26 x 1,5	18	32	55,5	2103-KL-18.00
L 22		M 30 x 2	22	M 30 x 2	22	36	58,5	2103-KL-22.00
L 28		M 36 x 2	28	M 36 x 2	28	41	59	2103-KL-28.00
L 35		M 45 x 2	35	M 45 x 2	35	46	68	2103-KL-35.00
L 42		M 52 x 2	42	M 52 x 2	42	55	68	2103-KL-42.00

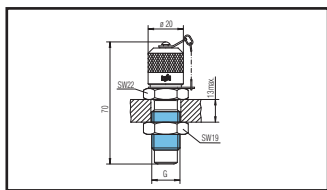
Series		G1	D1	G2	D2	SW	L	Part-number
S 6	63 MPa	M 14 x 1,5	6	M 14 x 1,5	6	24	46,5	2103-KS-06.00
S 8		M 16 x 1,5	8	M 16 x 1,5	8	24	48,5	2103-KS-08.00
S 10		M 18 x 1,5	10	M 18 x 1,5	10	24	49,5	2103-KS-10.00
S 12		M 20 x 1,5	12	M 20 x 1,5	12	24	50	2103-KS-12.00
S 14		M 22 x 1,5	14	M 22 x 1,5	14	27	53,5	2103-KS-14.00
S 16	40 MPa	M 24 x 1,5	16	M 24 x 1,5	16	30	56,5	2103-KS-16.00
S 20		M 30 x 2	20	M 30 x 2	20	36	64,5	2103-KS-20.00
S 25		M 36 x 2	25	M 36 x 2	25	41	66	2103-KS-25.00

MINIMESS®-1620 Test Points 1620 Bulkhead Adaptors

For solder free screw-in pipe connections according to DIN 2353, to MINIMESS® - 1620 Test Points, NBR sealing



Thread G	p max	Connectoin	L in mm	L ₁ in mm	SW in mm	Part-number
M 12 x 1,5	31,5 MPa	L 6	34	67	17	2103-04-22.00
M 14 x 1,5		L 8	34	67	19	2103-04-23.00
M 16 x 1,5		L 10	33,5	66,5	22	2103-04-18.00
M 14 x 1,5	63 MPa	S 6	36	69	19	2103-04-24.00
M 16 x 1,5		S 8	33,5	66,5	22	2103-04-25.00
M 18 x 1,5		S 10	37	70	24	2103-04-26.00

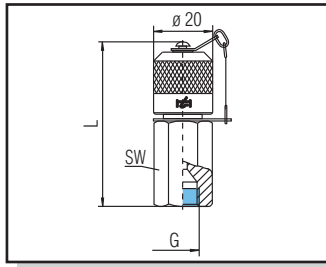


Thread G	p max	Connectoin	Part-number
M 16 x 2	63 MPa	Both sides for MINIMESS® 1620 (M 16 x 2)	2103-04-16.00

MINIMESS®-1620 Test Points

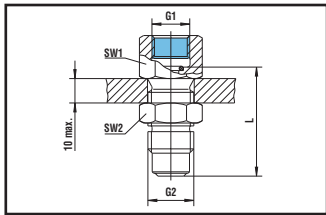
1620 Standpipe adaptor 37° - edged screwing SAE J514

NBR sealing



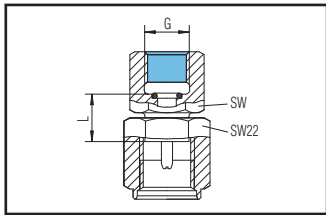
Thread G	p max	Pipe Ø in mm	Pipe Ø in inch	L in mm	SW in mm	Part-number
7/16-20 UNF	60 MPa	6	1/4"	55	17	2103-85-21.00
1/2 -20 UNF	42 MPa	8	5/16"	56,5	17	2103-85-22.00
9/16-18 UNF	31,5 MPa	10	3/8"	57,5	19	2103-85-23.00
3/4- 16 UNF		12	1/2"	60,5	22	2103-85-24.00

MINIMESS®- pressure gauge connection for bulkhead fitting



Internal thread G1	p max	Connection G2	L in mm	SW in mm	Note	Part-number
ISO 228-G 1/4	63 MPa	1620 / M 16 x 2	38	19	Without return valve	2103-05-11.00
ISO 228-G 1/2			42,5	27		2103-05-12.00
1/4 NPT			-	19		2103-05-23.00

MINIMESS®-1620 pressure gauge – direct connection

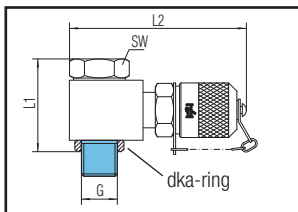


Internal thread G	p max	L in mm	SW in mm	Part-number
ISO 228-G 1/4	63 MPa	14,5	19	2103-07-11.62
ISO 228-G 1/2		17	27	2103-07-12.62
1/4 NPT		-	19	2103-07-23.62

MINIMESS®-1620

90° Swivel screw connection

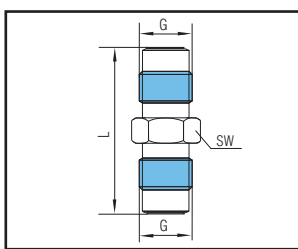
NBR sealing



Thread G	p max	L ₁ in mm	L ₂ in mm	SW in mm	Part-number
ISO 228-G 1/4	63 MPa	34,5	64,5	19	2115-22-34.00

Sealing on screw-in thread (hollow screw) via dka-ring, on hexagon via Gi-ring (NBR). Other options on request.

MINIMESS®-1620 hose adaptor

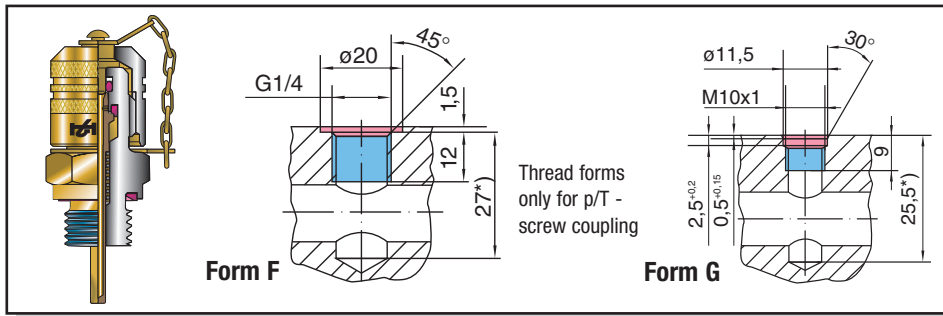
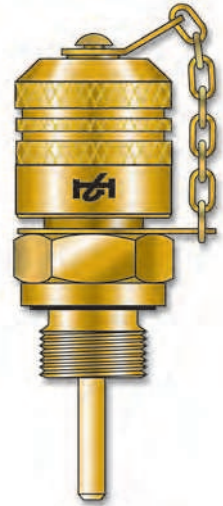


Thread G	p max	L in mm	SW in mm	Note	Part-number
M 16 x 2	63 MPa	42	17	Without return valve	2146-01-00.00

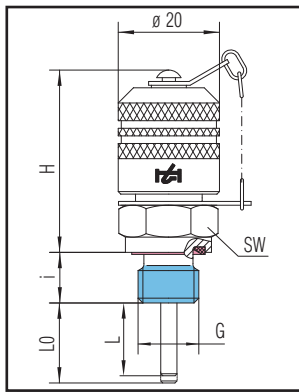
Other materials, further executions, sealing and screw-in threads on request.


MINIMESS®-1620 p/T Test Points

for pressure and temperature measurement



*) = recommended min. depth of drill



		Torque in Nm	Technical data							Material: Free cutting steel 1.0718  Metal cap
Thread G	Type of sealing A		p max	H in mm	i in mm	L ₀ in mm	L in mm	SW in mm	Part-number with NBR - sealing	
ISO 228-G 1/4	Form F	40	63 MPa	36,5	10	16	14,5	19	2149-04-15.13	
M 10 x 1	Form G	12		38	8,5	16	14,5	17	2149-04-19.13	

L₀ = max. immersion depth in coupled state, L = not coupled state

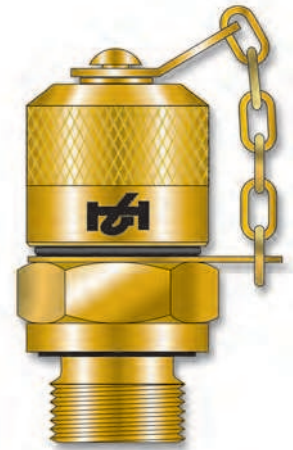
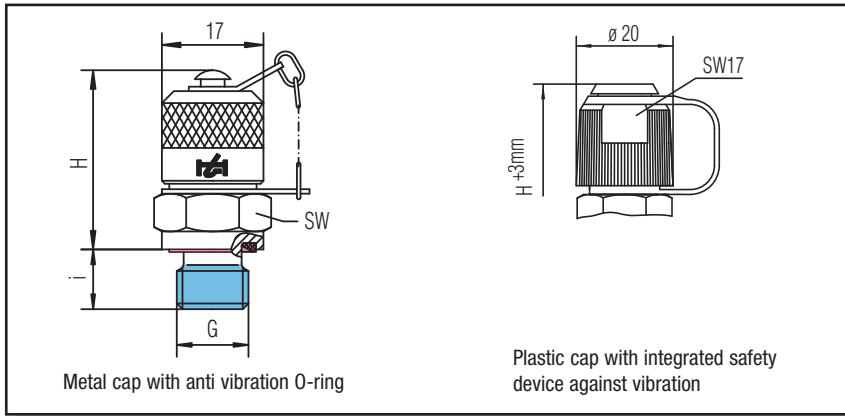
Option

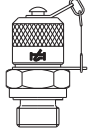
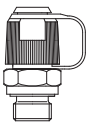
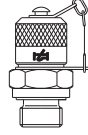
For FKM (Viton) - exchange end digits from 13 to 53

53

Other materials, further options, sealing and screw-in threads on request.
We reserve the right to carry out technical modifications.

MINIMESS®-1215 Test Points



Thread G	Type of sealing A	Torque in Nm	Technical data				Material: Free cutting steel 1.0718  Metal cap	Part-number with NBR - sealing	Material: Free cutting steel 1.0718  Plastic cap	Part-number with NBR - sealing	Material: Stainless steel 1.4571  Metal cap	Part-number with FKM - sealing
			p max	H in mm	i in mm	SW in mm						
M 8 x 1*	Form G	6	25 MPa	30	8,5	14	2101-06-32.00	2101-01-32.00	on request			
M 10 x 1		12		30	8,5	14	2101-06-33.00	2101-01-33.00	2701-06-33.10			
M 12 x 1,5	Form F	30	63 MPa	29	10	17	2101-06-13.00	2101-01-13.00	on request			
M 14 x 1,5		40		29	10	19	2101-06-14.00	2101-01-14.00	on request			
ISO 228-G 1/8		18	40 MPa	30	8	14	2101-06-17.00	2101-01-17.00	on request			
ISO 228-G 1/4		40	63 MPa	29	10	19	2101-06-18.00	2101-01-18.00	2701-06-18.10			
1/8 NPTF	Form H	–	40 MPa	26	12	14	2101-06-46.00	2101-01-46.00	on request			
1/4 NPTF		–		26	15	14	2101-06-47.00	2101-01-47.00	2701-06-47.10			
7/16-20 UNF	Form E	20	63 MPa	29	9	17	2101-06-21.00	2101-01-21.00	on request			
9/16-18 UNF		35		28	10	19	2101-06-53.00	2101-01-53.00	on request			
ISO 7/-R 1/8	Form C	–	40 MPa	26	12	14	2101-06-40.00	2101-01-40.00	on request			

* M 8 x 1 – please do not use for new constructions.

Option

For FKM (Viton) - Exchange end digits from 00 to 10

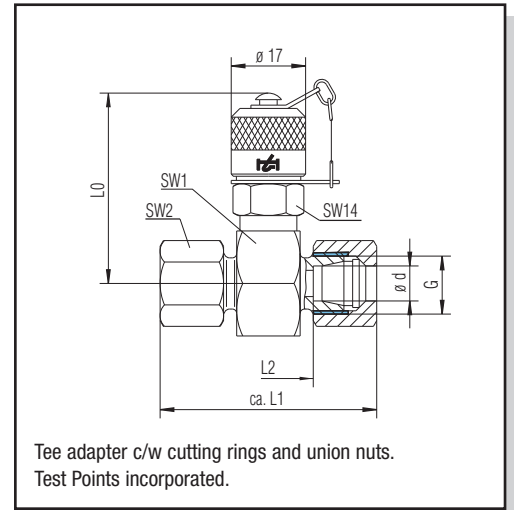
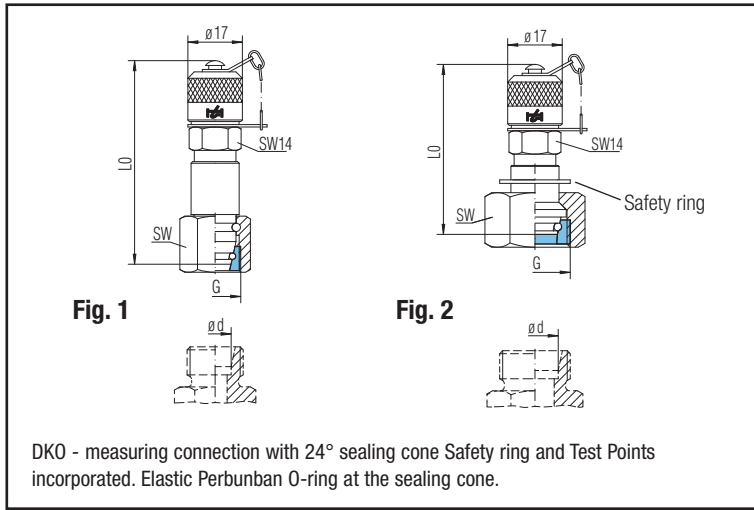
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Other materials, further options, sealing and screw-in threads on request.
We reserve the right to carry out technical modifications.

MINIMESS®-1215 Test Points

Metric DKO, Tee Adaptors-1215

For solder free screw-in pipe connections according to DIN 2353; execution free-cutting steel 1.0718; sealing NBR



Series Ø d	p max	Thread G
L 6	31,5 MPa	M 12 x 1,5
L 8		M 14 x 1,5
L 10		M 16 x 1,5
L 12		M 18 x 1,5
L 15		M 22 x 1,5
L 18	16 MPa	M 26 x 1,5
L 22		M 30 x 2
L 28		M 36 x 2
L 35		M 45 x 2
L 42		M 52 x 2

Fig.	L ₀	SW	Part-number
1	62	17	2101-40-06.90
	62	19	2101-40-08.90
	62	19	2101-40-10.90
	58	22	2101-40-12.90
	51,5	27	2101-40-15.90
2	52,5	32	2101-40-18.90
	52,5	36	2101-40-22.90
	53,5	41	2101-40-28.90
	55,5	50	2101-40-35.90
	55,5	60	2101-40-42.90

L ₁	L ₂	L ₀	SW ₁	SW ₂	Part-number
50,5	20,5	42	24	14	2101-11-06.90
50,5	20,5	42	24	17	2101-11-08.90
52,5	22,5	42	24	19	2101-11-10.90
52,5	22,5	42	24	22	2101-11-12.90
54,5	24,5	45	30	27	2101-11-15.90
56,5	23,5	46	32	32	2101-11-18.90
60,5	27,5	48	36	36	2101-11-22.90
60,5	27,5	50,5	41	41	2101-11-28.90
68,5	25,5	53	46	50	2101-11-35.90
70,5	24,5	57,5	55	60	2101-11-42.90

Series Ø d	p max	Thread G
S 6	63 MPa	M 14 x 1,5
S 8		M 16 x 1,5
S 10		M 18 x 1,5
S 12		M 20 x 1,5
S 14		M 22 x 1,5
S 16	40 MPa	M 24 x 1,5
S 20		M 30 x 2
S 25		M 36 x 2
S 30		M 42 x 2
S 38		31,5 MPa

Fig.	L ₀	SW	Part-number
1	62	17	2101-41-06.90
	62	19	2101-41-08.90
	62	22	2101-41-10.90
	58	24	2101-41-12.90
	55	27	2101-41-14.90
2	55	30	2101-41-16.90
	55,5	36	2101-41-20.90
	57	46	2101-41-25.90
	58,5	50	2101-41-30.90
	61,5	60	2101-41-38.90

L ₁	L ₂	L ₀	SW ₁	SW ₂	Part-number
54,5	24,5	42	24	17	2101-12-06.90
54,5	24,5	42	24	19	2101-12-08.90
56,5	23,5	42	24	22	2101-12-10.90
56,5	23,5	42	24	24	2101-12-12.90
62,5	26,5	43,5	27	27	2101-12-14.90
62,5	25,5	45	30	30	2101-12-16.90
68,5	25,5	48	36	36	2101-12-20.90
74,5	26,5	50,5	41	46	2101-12-25.90
80,5	27,5	53	46	50	2101-12-30.90
91	29	57,5	55	60	2101-12-38.90

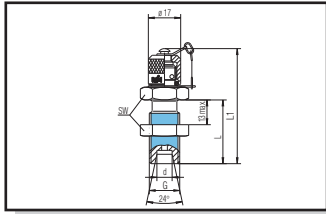
Options

All sealing made of Viton with metal cap (when ordering, exchange end digits from 00 to 10)	00
With mounted plastic cap (when ordering, exchange end digits from 00 to 90)	95

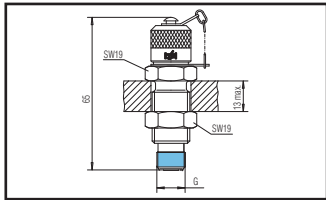
Other materials, further options, sealing and screw-in threads on request.

MINIMESS®-1215 Test Points 1215 Bulkhead Adaptors

For solder free screw-in pipe connections according to DIN 2353; execution free-cutting steel 1.0718; sealing NBR

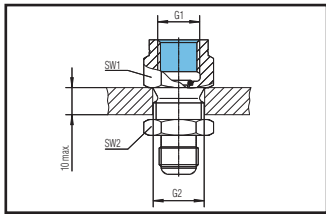


Thread G	p max	Connection	L in mm	L ₁ in mm	SW in mm	Part-number
M 12 x 1,5	31,5 MPa	L 6	34	60,5	17	2101-04-22.90
M 14 x 1,5		L 8	34	60,5	19	2101-04-23.90
M 14 x 1,5	63 MPa	S 6	36	62,5	19	2101-04-24.90



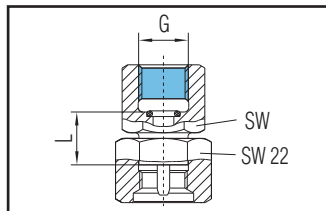
Thread G	p max	Connection	Part-number
Fixing thread 12	63 MPa	On both sides MINIMESS® - 1215 connection	2101-04-16.90

MINIMESS®-1215 pressure gauge connection for bulkhead fitting



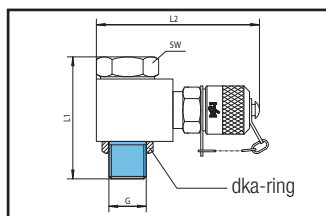
Internal thread G1	p max	Connection G2	L in mm (approx.)	SW in mm	Note	Part-number
ISO 228-G 1/4	63 MPa	1215	31	19	Without return valve	2101-05-11.00
ISO 228-G 1/2			38,5	27		2101-05-12.00
1/4 NPT			-	22		2101-05-23.00

MINIMESS®-pressure gauge – direct connection



Internal thread G	p max	L in mm	SW in mm	Part-number
ISO 228-G 1/4	63 MPa	14,5	19	2101-07-11.62
ISO 228-G 1/2		17	27	2101-07-12.62
1/4 NPT		-	19	2101-07-23.62

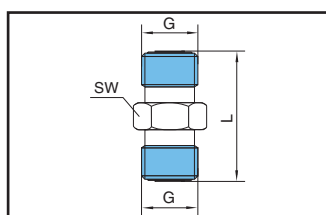
MINIMESS®-1215 Test Points 1215 90° Swivel screw connection



Thread G	p max	L ₁ in mm	L ₂ in mm	SW in mm	Part-number
ISO 228-G 1/4	63 MPa	34,5	46	19	2115-22-14.00

Sealing on screw-in thread (hollow screw) via dka-ring, on hexagon via Gi-ring (NBR). Other options on request.

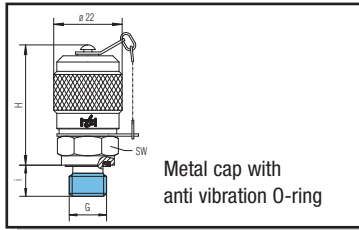
MINIMESS®-1215 hose adaptors



Thread G	p max	L in mm	SW in mm	Note	Part-number
Fixing thread 12	63 MPa	29	14	Without return valve	2146-20-00.20

Other materials, further options, sealing and screw-in threads on request.

MINIMESS®-1604 Test Points

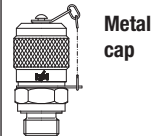


Metal cap with anti vibration O-ring



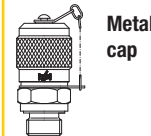
Thread G	Type of sealing A	Torque in Nm	Technical data				Part-number with NBR - sealing
			p max	H in mm	i in mm	SW in mm	
M 10 x 1	Form G	12	40 MPa	43	8,5	17	2106-01-33.00
M 14 x 1,5	Form F	40		40	10	19	2106-01-14.00
ISO 228-G 1/4		40		40	10	19	2106-01-18.00

Material:
Free cutting steel
1.0718



Metal cap

Material:
Stainless steel
1.4571



Metal cap

Part-number
with NBR - sealing

on request

on request

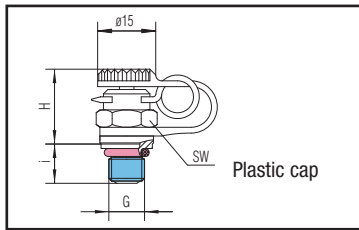
2706-01-18.10

Option

For FKM (Viton) Exchange end digits from 00 to 10	10
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MINIMESS®-plug-in Test Points

Internal Ball Sealing

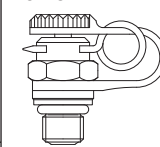


Plastic cap

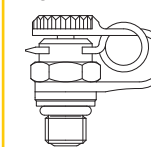


Thread G	Type of sealing A	Torque in Nm	Technical data				Part-number with FKM - sealing
			p max	H in mm	i in mm	SW in mm	
M 8 x 1	Form G	6	40 MPa	17,5	8,5	12	2104-30-32.00
M 10 x 1		12		17,5	8,5	12	2104-30-33.00
ISO 7/ I-R 1/8	Suitable sealant	—		17,5	8,5	12	2104-30-40.00
1/8 NPT		—		17,5	8,5	12	2104-30-43.00

Material:
Free cutting steel
1.0718



Material:
Stainless steel
1.4571



Part-number
with FKM - sealing

2704-30-32.10

on request

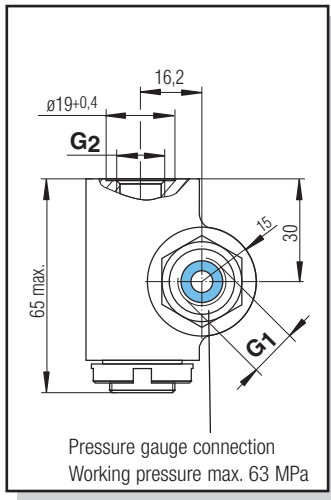
on request

on request

MINIMESS®-Pressure inhibitors and accessories

Pressure limiter valve

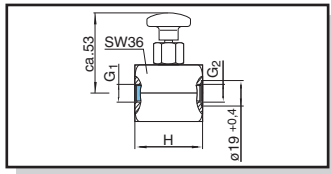
- Used for protection of pressure gauges against overload



Adjustable pressure range	Pressure gauge connection G 1	Connection G 2	Part-number
0,5 bis 0,9 MPa	ISO 228-G 1/4 according to DIN 16288	ISO 228-G 1/4 according to DIN 3852 Form X	5110-01-20.00
0,1 bis 2,5 MPa			5110-02-20.00
0,25 bis 6,3 MPa			5110-03-20.00
6,3 bis 10 MPa			5110-04-20.00
10 bis 25 MPa			5110-05-20.00
25 bis 60 MPa			5110-07-20.00

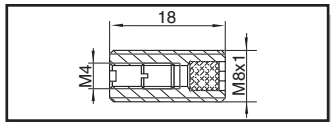
0,5 bis 0,9 MPa	ISO 228-G 1/2 according to DIN 16288	ISO 228-G 1/4 according to DIN 3852 Form X	5110-01-30.00
0,1 bis 2,5 MPa			5110-02-30.00
0,25 bis 6,3 MPa			5110-03-30.00
6,3 bis 10 MPa			5110-04-30.00
10 bis 25 MPa			5110-05-30.00
25 bis 60 MPa			5110-07-30.00

Restrictor valve



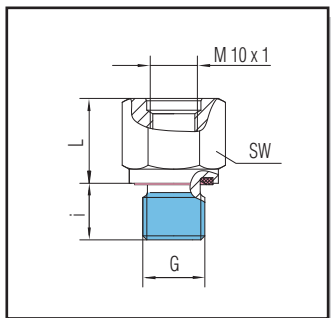
Thread G1	Thread G2	H	p max	Execution	Part-number
ISO 228-G 1/4	ISO 228-G 1/4	53	63 MPa	Adjustable under pressure up to 150 bar in-line connection	5104-03-00.00
ISO 228-G 1/2	ISO 228-G 1/4	58			5104-02-00.00

Damping cartridge (snubber)



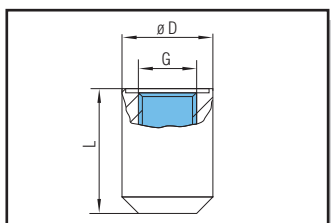
Borehole: nozzle	Material	Application	Part-number
$\varnothing 0,5$ mm	2.0401	Choking element for dampening of fluidity vibrations	2100-24-01.00

Threaded adaptor M 10 x 1, Form G



External thread G	Type of sealing	p max	L in mm	i in mm	SW in mm	Part-number Free cutting steel 1.0718	Part-number Stainless steel 1.4571
M 12 x 1,5	Form F	63 MPa	19	10	17	2134-13-00.00	auf Anfrage
ISO 228-G 1/8			19	8	17	2134-07-01.00	2734-07-01.10
ISO 228-G 1/2			10	14	27	2134-21-00.00	2734-21-00.10
ISO 228-G 3/4			13	12	32	2134-51-00.00	2734-51-00.10
1/2 NPTF	Form H		10	18	24	2134-45-01.01	on request

Welding adapter



Thread G	Screw-in hole	p max	L in mm	SW in mm	Part-number Free cutting steel 1.0718	Part-number Stainless steel 1.4571
M 10 x 1	Form G	63 MPa	25	20	2126-33-00.01	on request
M 14 x 1,5	Form F		30	22	2126-04-00.01	on request
ISO 228-G 1/4					2126-08-00.01	2726-08-00.01

Other materials, further executions, sealing and screw-in threads on request.