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Test Points and Test Hoses

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Test Couplings

INDEX

Series M16x2

Valve function by ball – zinc nickel, transparent 1
Valve function by piston – zinc nickel, transparent 7
Valve function by piston – for inert gases 13
Connectors and adaptors – zinc nickel, transparent 18
Test hose 22
Valve function by piston – stainless steel 23
Test hose – stainless steel 27

Series M16x1.5

Valve function by ball – zinc nickel, black 28
Valve function by piston – zinc nickel, black 33
Valve function by piston – stainless steel (upon request)
Connectors and adaptors – zinc nickel, black 38
Test hose 39

Series S12x1.5

Valve function by piston – zinc nickel, transparent 40
Connectors and adaptors – zinc nickel, transparent 44
Test hose 45

Series Steck

Valve function by ball – zinc nickel, transparent 46
Connectors and adaptors – zinc nickel, transparent 49
Test hose 50

Test Box

Spradow Test Box with 2 and more pressure gauges 51
Standard equipment or according to your specifications

Pressure Gauge

NG63, G1/4 A bottom, different pressure stages 53
NG63, 1/4 NPT bottom, different pressure stages 53

Hoses and Connectors

Hose material 54
Hose end fittings 56

Adaptor and Accessories

Fittings BE and GE as single parts 59
Caps and weld-on nipple 60

Annex

Port connection and seals 61
Definition of the hose assembly length 62
IC-Fluid Power to Spradow Part Number Crossover List 63

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Dimensions and specifications are for reference only and may be subject to change.

M16x2 - Ball

Application:
Spradow test couplings are applied for the monitoring and control pressure as well as the ventilation. The advantages of this system are - among other - connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection and the integrated vibration security of the metal cap.

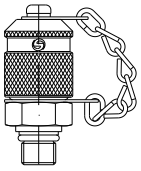
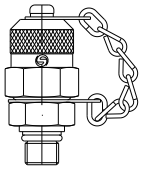
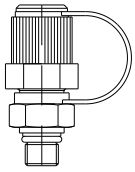
Media:
Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40 °C to +150 °C)
Hose: Polyamide (-35 °C to +100 °C)

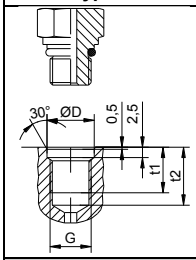
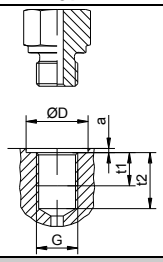
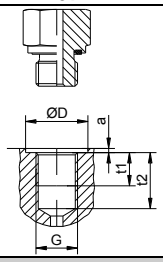
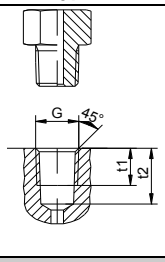
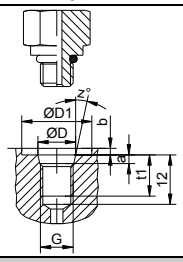
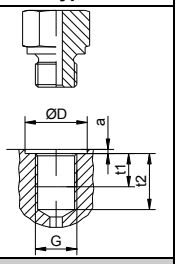
Surface:
Zinc nickel, transparent, CrVI-free.

Pressure:
Maximum working pressure (PN) of the test couplings - 630 bar, at 4-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		**(temperature range -20°C to +100°C)**

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Ball

test coupling
series M16x2 – valve function by ball

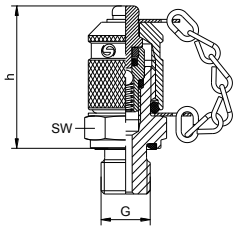


fig. 1

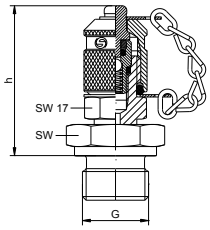


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1	250	17	38	1	o-ring type 1	1-906-20-21-600-CF	1-906-20-22-600-CF
M8x1		17	38	1	metallic sealing type 2	1-906-20-30-600-CF	1-906-20-32-600-CF
M10x1	630	17	38	1	o-ring type 1	1-906-22-21-600-CF	1-906-22-22-600-CF
M10x1	400	17	38	1	metallic sealing type 2	1-906-22-30-600-CF	1-906-22-32-600-CF
M10x1	400	17	39	1	soft sealing type 3	1-906-22-11-600-CF	1-906-22-12-600-CF
M10x1		17	38	1	metallic sealing type 6	1-906-22-40-600-CF	1-906-22-42-600-CF
M10x1,25		17	38	1	o-ring type 1	1-906-49-21-600-CF	1-906-49-22-600-CF
M10x1,25		17	38	1	soft sealing type 3	1-906-49-11-600-CF	1-906-49-12-600-CF
M12x1,5	630	17	38	1	metallic sealing type 2	1-906-23-30-600-CF	1-906-23-32-600-CF
M12x1,5	630	17	39	1	soft sealing type 3	1-906-23-11-600-CF	1-906-23-12-600-CF
M14x1,5	630	19	37	1	metallic sealing type 2	1-906-24-30-600-CF	1-906-24-32-600-CF
M14x1,5	630	19	37	1	soft sealing type 3	1-906-24-11-600-CF	1-906-24-12-600-CF
M14x1,5	630	19	38	1	o-ring type 5	1-906-24-61-600-CF	1-906-24-62-600-CF
M16x1,5	630	22	37	1	metallic sealing type 2	1-906-25-30-600-CF	1-906-25-32-600-CF
M16x1,5	630	22	37	1	soft sealing type 3	1-906-25-11-600-CF	1-906-25-12-600-CF
M18x1,5		24	39	1	metallic sealing type 2	1-906-26-30-600-CF	1-906-26-32-600-CF
M18x1,5		24	39	1	soft sealing type 3	1-906-26-11-600-CF	1-906-26-12-600-CF
M20x1,5		27	39	1	metallic sealing type 2	1-906-51-30-600-CF	1-906-51-32-600-CF
M20x1,5		27	39	1	soft sealing type 3	1-906-51-11-600-CF	1-906-51-12-600-CF
M22x1,5		27	39	1	metallic sealing type 2	1-906-27-30-600-CF	1-906-27-32-600-CF
M22x1,5		27	39	1	soft sealing type 3	1-906-27-11-600-CF	1-906-27-12-600-CF
M26x1,5		32	49	2	metallic sealing type 2	1-911-52-30-600-CF	1-911-52-32-600-CF
M27x2		36	49	2	metallic sealing type 2	1-911-53-30-600-CF	1-911-53-32-600-CF
M33x2		41	49	2	metallic sealing type 2	1-911-54-30-600-CF	1-911-54-32-600-CF
M42x2		50	50	2	metallic sealing type 2	1-911-55-30-600-CF	1-911-55-32-600-CF
M48x2		60	50	2	metallic sealing type 2	1-911-56-30-600-CF	1-911-56-32-600-CF
G 1/8	400	17	38	1	metallic sealing type 2	1-906-28-30-600-CF	1-906-28-32-600-CF
G 1/8	400	17	39	1	soft sealing type 3	1-906-28-11-600-CF	1-906-28-12-600-CF
G 1/4	630	19	37	1	metallic sealing type 2	1-906-29-30-600-CF	1-906-29-32-600-CF
G 1/4	630	19	37	1	soft sealing type 3	1-906-29-11-600-CF	1-906-29-12-600-CF
G 1/4		19	37	1	metallic sealing type 6	1-906-29-40-600-CF	1-906-29-42-600-CF
G 3/8	630	22	37	1	metallic sealing type 2	1-906-30-30-600-CF	1-906-30-32-600-CF
G 3/8	630	22	37	1	soft sealing type 3	1-906-30-11-600-CF	1-906-30-12-600-CF
G 1/2		27	39	1	metallic sealing type 2	1-906-31-30-600-CF	1-906-31-32-600-CF
G 1/2	630	27	39	1	soft sealing type 3	1-906-31-11-600-CF	1-906-31-12-600-CF
G 3/4		32	40	1	metallic sealing type 2	1-906-32-30-600-CF	1-906-32-32-600-CF
G 1		41	48	2	metallic sealing type 2	1-911-57-30-600-CF	1-911-57-32-600-CF
G 1 1/4		50	50	2	metallic sealing type 2	1-911-58-30-600-CF	1-911-58-32-600-CF
G 1 1/2		60	50	2	metallic sealing type 2	1-911-59-30-600-CF	1-911-59-32-600-CF
Rk 1/8*	400	17	36	1	thread type 4	1-906-33-00-600-CF	1-906-33-02-600-CF
Rk 1/4*	630	17	35	1	thread type 4	1-906-34-00-600-CF	1-906-34-02-600-CF
Rk 3/8*		19	35	1	thread type 4	1-906-35-00-600-CF	1-906-35-02-600-CF
5/16-24 UNF	400	17	38	1	o-ring type 5	1-906-38-30-600-CF	1-906-38-32-600-CF
7/16-20 UNF	630	17	38	1	o-ring type 5	1-906-39-30-600-CF	1-906-39-32-600-CF
1/2-20 UNF	630	17	38	1	o-ring type 5	1-906-61-30-600-CF	1-906-61-32-600-CF
9/16-18 UNF	630	19	38	1	o-ring type 5	1-906-40-30-600-CF	1-906-40-32-600-CF
3/4-16 UNF	630	27	40	1	o-ring type 5	1-906-41-30-600-CF	1-906-41-32-600-CF
1/8 NPT	400	17	36	1	thread type 4	1-906-43-00-600-CF	1-906-43-02-600-CF
1/4 NPT	630	17	35	1	thread type 4	1-906-44-00-600-CF	1-906-44-02-600-CF
3/8 NPT		19	36	1	thread type 4	1-906-45-00-600-CF	1-906-45-02-600-CF
1/2 NPT		22	37	1	thread type 4	1-906-46-00-600-CF	1-906-46-02-600-CF
					For metal cap type A (universal) with vibration security, replace 600 by	590	590
					For metal cap type B (round) **without vibration security**, replace 600 by	020	020
					For metal cap type A (universal) **without vibration security**, replace 600 by	010	010
					For yellow plastic cap type A (universal) **without vibration security**, replace 600 by	100	100

*acc. DIN3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Ball

fitting with test coupling
series M16x2 – valve function by ball

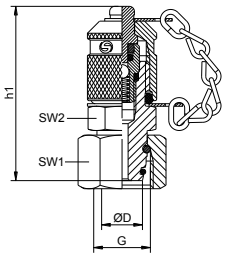


fig. 1

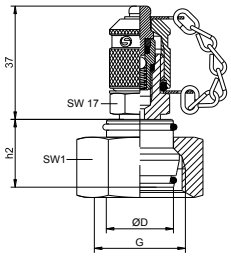


fig. 2

type DKO
test coupling with 24° taper adapter

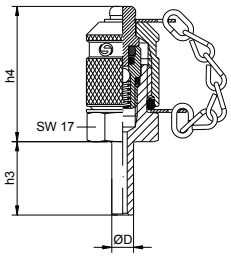


fig. 3

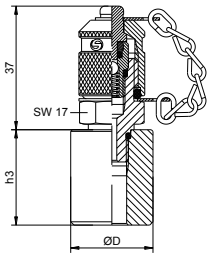


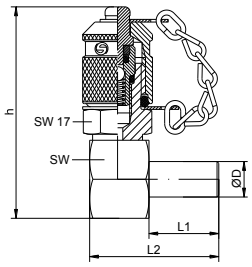
fig. 4

typ BE
test coupling for compression ring fittings

type	PN	tube ØD	h1	h2	h3	h4	SW1	SW2	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	53	-	20	39	14	17	M12x1,5	1-908-00-20-600-CF	1	1-909-00-00-601-CF	3
		8	53	-	20	39	17	17	M14x1,5	1-908-02-20-600-CF	1	1-909-02-00-601-CF	3
		10	50	-	22	37	19	17	M16x1,5	1-908-04-20-600-CF	1	1-909-04-00-601-CF	3
		12	50	-	22	37	22	17	M18x1,5	1-908-06-20-600-CF	1	1-909-06-00-601-CF	3
		15	51	-	22	37	27	19	M22x1,5	1-908-09-20-600-CF	1	1-909-09-00-601-CF	3
		18	-	22	28	-	32	-	M26x1,5	1-908-11-00-600-CF	2	1-909-11-00-601-CF	4
	160	22	-	22	30	-	36	-	M30x2	1-908-13-00-600-CF	2	1-909-13-00-601-CF	4
		28	-	24	32	-	41	-	M36x2	1-908-15-00-600-CF	2	1-909-15-00-601-CF	4
		35	-	27	42	-	50	-	M45x2	1-908-17-00-600-CF	2	1-909-17-00-601-CF	4
		42	-	28	45	-	60	-	M52x2	1-908-19-00-600-CF	2	1-909-19-00-601-CF	4
S	630	6	54	-	20	39	17	17	M14x1,5	1-908-01-20-600-CF	1	1-909-00-00-601-CF	3
		8	51	-	20	39	19	17	M16x1,5	1-908-03-20-600-CF	1	1-909-02-00-601-CF	3
		10	51	-	22	37	22	17	M18x1,5	1-908-05-20-600-CF	1	1-909-04-00-601-CF	3
		12	51	-	22	37	24	17	M20x1,5	1-908-07-20-600-CF	1	1-909-06-00-601-CF	3
		14	53	-	22	37	27	19	M22x1,5	1-908-08-00-600-CF	1	1-909-08-00-601-CF	3
		16	-	20	28	37	30	-	M24x1,5	1-908-10-00-600-CF	2	1-909-10-00-601-CF	3
	400	20	-	25	30	-	36	-	M30x2	1-908-12-00-600-CF	2	1-909-12-00-601-CF	4
		25	-	27	36	-	46	-	M36x2	1-908-14-00-600-CF	2	1-909-14-00-601-CF	4
		30	-	29	41	-	50	-	M42x2	1-908-16-00-600-CF	2	1-909-16-00-601-CF	4
	315	38	-	32	48	-	60	-	M52x2	1-908-18-00-600-CF	2	1-909-18-00-601-CF	4

For metal cap type A (universal) with vibration security	replace 600 by 590	replace 601 by 591
For metal cap type B (round) **without vibration security**	replace 600 by 020	replace 601 by 021
For metal cap type A (universal) **without vibration security**	replace 600 by 010	replace 601 by 011
For yellow plastic cap type A (universal) **without vibration security**	replace 600 by 100	replace 601 by 101
Design with sealings made of FKM	replace 20 by 22 or replace 00 by 02	replace 00-601 by 02-601

90° fitting type BE with test coupling
Series M16x2 – valve function by ball



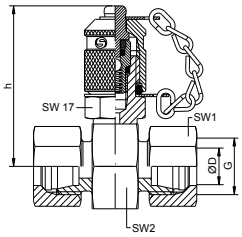
tube ØD	L1	L2	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	59	1-980-03-60-080-CF	1-980-03-60-081-CF
10	20	37	22	59	1-980-05-60-120-CF	1-980-05-60-121-CF

For metal cap type A (universal) with vibration security replace 60 by	59	59
For metal cap type B (round) **without vibration security** replace 60 by	02	02
For metal cap type A (universal) **without vibration security** replace 60 by	01	01
For yellow plastic cap type A (universal) **without vibration security** replace 60 by	10	10

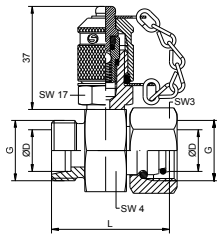
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Ball

fitting with test coupling
series M16x2 – valve function by ball



type GE

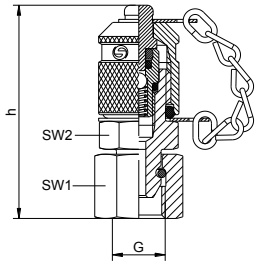


type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	48	43	14	24	1-910-00-00-600-CF	1-910-20-00-601-CF
		8	M14x1,5	17	24	49	43	17	24	1-910-02-00-600-CF	1-910-22-00-601-CF
		10	M16x1,5	19	24	49	45	19	24	1-910-04-00-600-CF	1-910-24-00-601-CF
		12	M18x1,5	22	27	51	41	22	27	1-910-06-00-600-CF	1-910-26-00-601-CF
		15	M22x1,5	27	30	53	43	27	30	1-910-09-00-600-CF	1-910-29-00-601-CF
		18	M26x1,5	32	32	53	54	32	32	1-910-11-00-600-CF	1-910-31-00-601-CF
	160	22	M30x2	36	36	55	57	36	36	1-910-13-00-600-CF	1-910-33-00-601-CF
		28	M36x2	41	41	58	upon request			1-910-15-00-600-CF	1-910-35-00-601-CF
		35	M45x2	50	46	60	upon request			1-910-17-00-600-CF	1-910-37-00-601-CF
		42	M52x2	60	55	65	upon request			1-910-19-00-600-CF	1-910-39-00-601-CF
S	630	6	M14x1,5	17	24	49	46	17	24	1-910-01-00-600-CF	1-910-21-00-601-CF
		8	M16x1,5	19	24	49	47	19	24	1-910-03-00-600-CF	1-910-23-00-601-CF
		10	M18x1,5	22	24	49	48	22	24	1-910-05-00-600-CF	1-910-25-00-601-CF
		12	M20x1,5	24	24	49	47	24	24	1-910-07-00-600-CF	1-910-27-00-601-CF
		14	M22x1,5	27	27	51	50	27	27	1-910-08-00-600-CF	1-910-28-00-601-CF
	400	16	M24x1,5	30	30	52	55	30	30	1-910-10-00-600-CF	1-910-30-00-601-CF
		20	M30x2	36	32	53	62	36	36	1-910-12-00-600-CF	1-910-32-00-601-CF
		25	M36x2	46	41	58	62	46	41	1-910-14-00-600-CF	1-910-34-00-601-CF
		30	M42x2	50	46	60	upon request			1-910-16-00-600-CF	1-910-36-00-601-CF
	315	38	M52x2	60	55	65	upon request			1-910-18-00-600-CF	1-910-38-00-601-CF

For metal cap type A (universal) with vibration security	replace 600 by 590	replace 601 by 591
For metal cap type B (round) **without vibration security**	replace 600 by 020	replace 601 by 021
For metal cap type A (universal) **without vibration security**	replace 600 by 010	replace 601 by 011
For yellow plastic cap type A (universal) **without vibration security**	replace 600 by 100	replace 601 by 101
Design with sealings made of FKM	replace 00-600 by 02-600	replace 00-601 by 02-601

test coupling with 60° sealing cone (DKR)
series M16x2 – valve function by ball



G	h	SW1	SW2	part number (NBR)	part number (FKM)
G 1/4	54	19	17	1-908-76-00-600-CF	1-908-76-02-600-CF

For metal cap type A (universal) with vibration security replace 600 by	590	590
For metal cap type B (round) **without vibration security** replace 600 by	020	020
For metal cap type A (universal) **without vibration security** replace 600 by	010	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Ball

bulkhead coupling
series M16x2 – valve function by ball

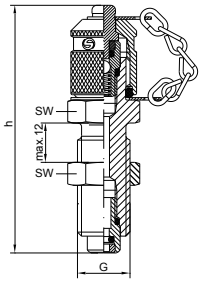


fig. 1

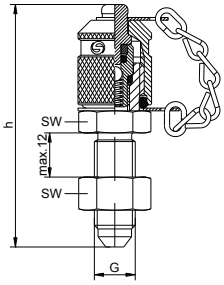
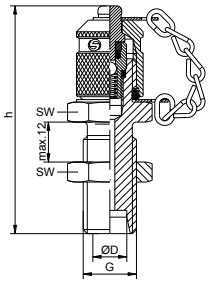


fig. 2

G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	72	1	1-980-48-60-040-CF	1-980-48-60-041-CF
7/16-20 UNF	17	67	2	1-980-39-60-090-CF	1-980-39-60-091-CF
For metal cap type A (universal) with vibration security replace 60 by				59	59
For metal cap type B (round) **without vibration security** replace 60 by				02	02
For metal cap type A (universal) **without vibration security** replace 60 by				01	01
For yellow plastic cap type A (universal) **without vibration security** replace 60 by				10	10

bulkhead coupling
series M16x2 – valve function by ball



type	PN	tube ØD	G	SW1	SW2	h	part number (NBR)	part number (FKM)
L	315	6	M12x1,5	17	17	69	1-922-00-00-601-CF	1-922-00-02-601-CF
		8	M14x1,5	19	19	72	1-922-02-00-601-CF	1-922-02-02-601-CF
		10	M16x1,5	22	22	68	1-922-04-00-601-CF	1-922-04-02-601-CF
		12	M18x1,5	22	24	72	1-922-06-00-601-CF	1-922-06-02-601-CF
S	630	6	M14x1,5	19	19	71	1-922-01-00-601-CF	1-922-01-02-601-CF
		8	M16x1,5	22	22	72	1-922-03-00-601-CF	1-922-03-02-601-CF
		10	M18x1,5	24	24	72	1-922-05-00-601-CF	1-922-05-02-601-CF
		12	M20x1,5	upon request			1-922-07-00-601-CF	1-922-07-02-601-CF
For metal cap type A (universal) with vibration security replace 601 by							591	591
For metal cap type B (round) **without vibration security** replace 601 by							021	021
For metal cap type A (universal) **without vibration security** replace 601 by							011	011
For yellow plastic cap type A (universal) **without vibration security** replace 601 by							101	101

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Ball

test coupling with 37° JIC female thread (DKJ)
series M16x2 – valve function by ball

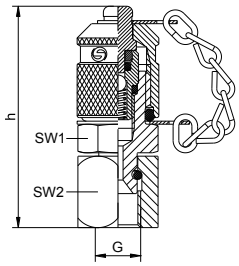


fig. 1

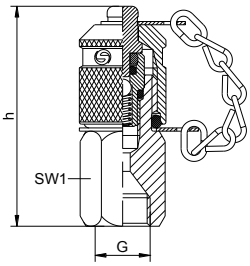
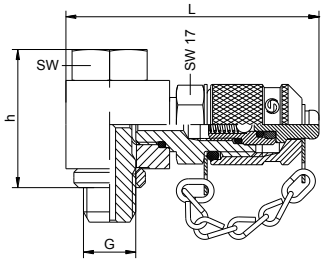


fig. 2

G	h	SW1	SW2	fig.	part number (NBR)	part number (FKM)
7/16 UNF	54	17	17	1	1-920-39-20-600-CF	1-920-39-22-600-CF
1/2 UNF	51	17	-	2	1-920-61-00-600-CF	1-920-61-02-600-CF
9/16 UNF	57	17	19	1	1-920-40-20-600-CF	1-920-40-22-600-CF
3/4 UNF	56	22	-	2	1-920-41-00-600-CF	1-920-41-02-600-CF
7/8 UNF	61	27	-	2	1-920-42-00-600-CF	1-920-42-02-600-CF
				For metal cap type A (universal) with vibration security replace 600 by	590	590
				For metal cap type B (round) **without vibration security** replace 600 by	020	020
				For metal cap type A (universal) **without vibration security** replace 600 by	010	010
				For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

90° swivel adaptor
series M16x2 – valve function by ball



G	h	L	SW	part number (NBR)	part number (FKM)
G1/4	34	64	19	1-926-29-05-600-CF	upon request
			For metal cap type A (universal) with vibration security replace 600 by	590	590
			For metal cap type B (round) **without vibration security** replace 600 by	020	020
			For metal cap type A (universal) **without vibration security** replace 600 by	010	010
			For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

Application:
Spradow test couplings are applied for monitoring and control pressure as well as the ventilation. The advantages of this system are - among other - connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection and the integrated vibration security of the metal cap.

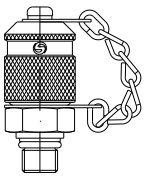
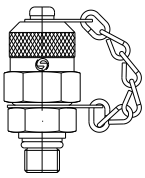
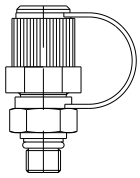
Media:
Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40°C to +150 °C)
Hose: Polyamide (-35 °C to +100 °C)

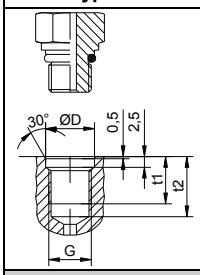
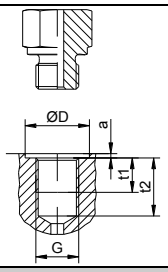
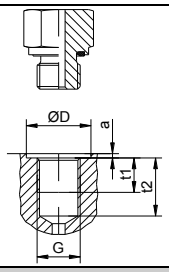
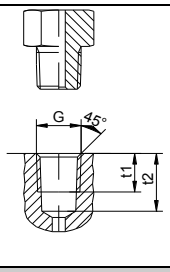
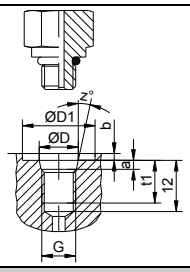
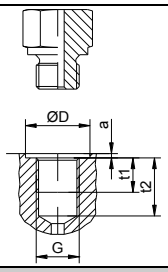
Surface:
Zinc nickel, transparent, CrVI-free.

Pressure:
Maximum working pressure (PN) of the test couplings - 630 bar, at 4-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		**(temperature range -20°C to +100°C)**

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

test coupling
series M16x2 – valve function by piston

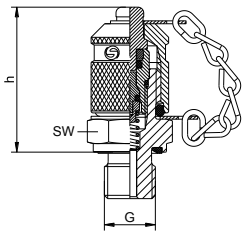


fig. 1

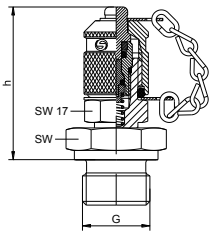


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1	250	17	38	1	o-ring type 1	1-Z06-20-21-600-CF	1-Z06-20-22-600-CF
M8x1		17	38	1	metal sealing type 2	1-Z06-20-30-600-CF	1-Z06-20-32-600-CF
M10x1	630	17	38	1	o-ring type 1	1-Z06-22-21-600-CF	1-Z06-22-22-600-CF
M10x1	400	17	38	1	metal sealing type 2	1-Z06-22-30-600-CF	1-Z06-22-32-600-CF
M10x1	400	17	39	1	soft sealing type 3	1-Z06-22-11-600-CF	1-Z06-22-12-600-CF
M10x1		17	38	1	metal sealing type 6	1-Z06-22-40-600-CF	1-Z06-22-42-600-CF
M10x1,25		17	38	1	o-ring type 1	1-Z06-49-21-600-CF	1-Z06-49-22-600-CF
M10x1,25		17	38	1	soft sealing type 3	1-Z06-49-11-600-CF	1-Z06-49-12-600-CF
M12x1,5	630	17	38	1	metal sealing type 2	1-Z06-23-30-600-CF	1-Z06-23-32-600-CF
M12x1,5	630	17	39	1	soft sealing type 3	1-Z06-23-11-600-CF	1-Z06-23-12-600-CF
M14x1,5	630	19	37	1	metal sealing type 2	1-Z06-24-30-600-CF	1-Z06-24-32-600-CF
M14x1,5	630	19	37	1	soft sealing type 3	1-Z06-24-11-600-CF	1-Z06-24-12-600-CF
M14x1,5	630	19	38	1	o-ring type 5	1-Z06-24-61-600-CF	1-Z06-24-62-600-CF
M16x1,5	630	22	37	1	metal sealing type 2	1-Z06-25-30-600-CF	1-Z06-25-32-600-CF
M16x1,5	630	22	37	1	soft sealing type 3	1-Z06-25-11-600-CF	1-Z06-25-12-600-CF
M18x1,5		24	39	1	metal sealing type 2	1-Z06-26-30-600-CF	1-Z06-26-32-600-CF
M18x1,5		24	39	1	soft sealing type 3	1-Z06-26-11-600-CF	1-Z06-26-12-600-CF
M20x1,5		27	39	1	metal sealing type 2	1-Z06-51-30-600-CF	1-Z06-51-32-600-CF
M20x1,5		27	39	1	soft sealing type 3	1-Z06-51-11-600-CF	1-Z06-51-12-600-CF
M22x1,5		27	39	1	metal sealing type 2	1-Z06-27-30-600-CF	1-Z06-27-32-600-CF
M22x1,5		27	39	1	soft sealing type 3	1-Z06-27-11-600-CF	1-Z06-27-12-600-CF
M26x1,5		32	49	2	metal sealing type 2	1-Z11-52-30-600-CF	1-Z11-52-32-600-CF
M27x2		36	49	2	metal sealing type 2	1-Z11-53-30-600-CF	1-Z11-53-32-600-CF
M33x2		41	49	2	metal sealing type 2	1-Z11-54-30-600-CF	1-Z11-54-32-600-CF
M42x2		50	50	2	metal sealing type 2	1-Z11-55-30-600-CF	1-Z11-55-32-600-CF
M48x2		60	50	2	metal sealing type 2	1-Z11-56-30-600-CF	1-Z11-56-32-600-CF
G 1/8	400	17	38	1	metal sealing type 2	1-Z06-28-30-600-CF	1-Z06-28-32-600-CF
G 1/8	400	17	39	1	soft sealing type 3	1-Z06-28-11-600-CF	1-Z06-28-12-600-CF
G 1/4	630	19	37	1	metal sealing type 2	1-Z06-29-30-600-CF	1-Z06-29-32-600-CF
G 1/4	630	19	37	1	soft sealing type 3	1-Z06-29-11-600-CF	1-Z06-29-12-600-CF
G 1/4		19	37	1	metal sealing type 6	1-Z06-29-40-600-CF	1-Z06-29-42-600-CF
G 3/8	630	22	37	1	metal sealing type 2	1-Z06-30-30-600-CF	1-Z06-30-32-600-CF
G 3/8	630	22	37	1	soft sealing type 3	1-Z06-30-11-600-CF	1-Z06-30-12-600-CF
G 1/2		27	39	1	metal sealing type 2	1-Z06-31-30-600-CF	1-Z06-31-32-600-CF
G 1/2	630	27	39	1	soft sealing type 3	1-Z06-31-11-600-CF	1-Z06-31-12-600-CF
G 3/4		32	40	1	metal sealing type 2	1-Z06-32-30-600-CF	1-Z06-32-32-600-CF
G 1		41	48	2	metal sealing type 2	1-Z11-57-30-600-CF	1-Z11-57-32-600-CF
G 1 1/4		50	50	2	metal sealing type 2	1-Z11-58-30-600-CF	1-Z11-58-32-600-CF
G 1 1/2		60	50	2	metal sealing type 2	1-Z11-59-30-600-CF	1-Z11-59-32-600-CF
Rk 1/8*	400	17	36	1	thread type 4	1-Z06-33-00-600-CF	1-Z06-33-02-600-CF
Rk 1/4*	630	17	35	1	thread type 4	1-Z06-34-00-600-CF	1-Z06-34-02-600-CF
Rk 3/8*		19	35	1	thread type 4	1-Z06-35-00-600-CF	1-Z06-35-02-600-CF
5/16-24 UNF	400	17	38	1	o-ring type 5	1-Z06-38-30-600-CF	1-Z06-38-32-600-CF
7/16-20 UNF	630	17	38	1	o-ring type 5	1-Z06-39-30-600-CF	1-Z06-39-32-600-CF
1/2-20 UNF	630	17	38	1	o-ring type 5	1-Z06-61-30-600-CF	1-Z06-61-32-600-CF
9/16-18 UNF	630	19	38	1	o-ring type 5	1-Z06-40-30-600-CF	1-Z06-40-32-600-CF
3/4-16 UNF	630	27	40	1	o-ring type 5	1-Z06-41-30-600-CF	1-Z06-41-32-600-CF
1/8 NPT	400	17	36	1	thread type 4	1-Z06-43-00-600-CF	1-Z06-43-02-600-CF
1/4 NPT	630	17	35	1	thread type 4	1-Z06-44-00-600-CF	1-Z06-44-02-600-CF
3/8 NPT		19	36	1	thread type 4	1-Z06-45-00-600-CF	1-Z06-45-02-600-CF
1/2 NPT		22	37	1	thread type 4	1-Z06-46-00-600-CF	1-Z06-46-02-600-CF

For metal cap type A (universal) with vibration security replace 600 by	590	590
For metal cap type B (round) **without vibration security** replace 600 by	020	020
For metal cap type A (universal) **without vibration security** replace 600 by	010	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

fitting with test coupling
series M16x2 – valve function by piston

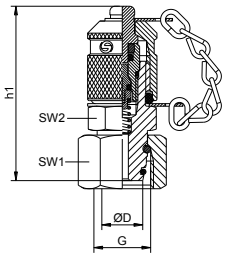


fig. 1

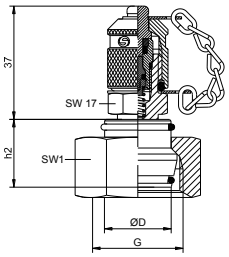


fig. 2

type DKO
test coupling with 24° taper adapter

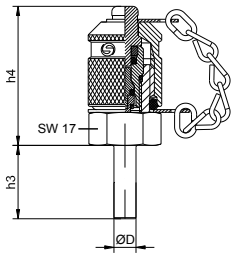


fig. 3

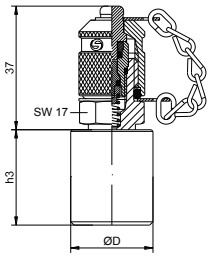


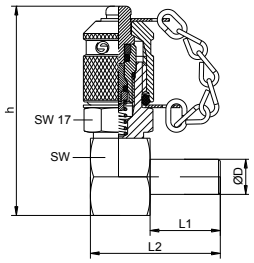
fig. 4

type BE
test coupling for compression ring fittings

type	PN	tube ØD	h1	h2	h3	h4	SW1	SW2	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	53	-	20	39	14	17	M12x1,5	1-Z08-00-10-600-CF	1	1-Z09-00-00-601-CF	3
		8	53	-	20	39	17	17	M14x1,5	1-Z08-02-10-600-CF	1	1-Z09-02-00-601-CF	3
		10	50	-	22	37	19	17	M16x1,5	1-Z08-04-10-600-CF	1	1-Z09-04-00-601-CF	3
		12	50	-	22	37	22	17	M18x1,5	1-Z08-06-10-600-CF	1	1-Z09-06-00-601-CF	3
		15	51	-	22	37	27	19	M22x1,5	1-Z08-09-00-600-CF	1	1-Z09-09-00-601-CF	3
		18	-	22	28	-	32	-	M26x1,5	1-Z08-11-00-600-CF	2	1-Z09-11-00-601-CF	4
	160	22	-	22	30	-	36	-	M30x2	1-Z08-13-00-600-CF	2	1-Z09-13-00-601-CF	4
		28	-	24	32	-	41	-	M36x2	1-Z08-15-00-600-CF	2	1-Z09-15-00-601-CF	4
		35	-	27	42	-	50	-	M45x2	1-Z08-17-00-600-CF	2	1-Z09-17-00-601-CF	4
		42	-	28	45	-	60	-	M52x2	1-Z08-19-00-600-CF	2	1-Z09-19-00-601-CF	4
S	630	6	54	-	20	39	17	17	M14x1,5	1-Z08-01-10-600-CF	1	1-Z09-00-00-601-CF	3
		8	51	-	20	39	19	17	M16x1,5	1-Z08-03-10-600-CF	1	1-Z09-02-00-601-CF	3
		10	51	-	22	37	22	17	M18x1,5	1-Z08-05-10-600-CF	1	1-Z09-04-00-601-CF	3
		12	51	-	22	37	24	17	M20x1,5	1-Z08-07-10-600-CF	1	1-Z09-06-00-601-CF	3
		14	-	24	22	37	27	-	M22x1,5	1-Z08-08-00-600-CF	1	1-Z09-08-00-601-CF	3
		16	-	20	28	37	30	-	M24x1,5	1-Z08-10-00-600-CF	2	1-Z09-10-00-601-CF	3
	400	20	-	25	30	-	36	-	M30x2	1-Z08-12-00-600-CF	2	1-Z09-12-00-601-CF	4
		25	-	27	36	-	46	-	M36x2	1-Z08-14-00-600-CF	2	1-Z09-14-00-601-CF	4
		30	-	29	41	-	50	-	M42x2	1-Z08-16-00-600-CF	2	1-Z09-16-00-601-CF	4
	315	38	-	32	48	-	60	-	M52x2	1-Z08-18-00-600-CF	2	1-Z09-18-00-601-CF	4

For metal cap type A (universal) with vibration security	replace 600 by 590	replace 601 by 591
For metal cap type B (round) **without vibration security**	replace 600 by 020	replace 601 by 021
For metal cap type A (universal) **without vibration security**	replace 600 by 010	replace 601 by 011
For yellow plastic cap type A (universal) **without vibration security**	replace 600 by 100	replace 601 by 101
Design with sealings made of FKM	replace 10 by 12 or replace 00 by 02	replace 00-601 by 02-601

90° fitting type BE with test coupling
series M16x2 – valve function by piston



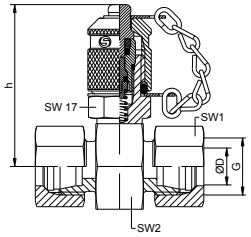
tube ØD	L1	L2	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	59	1-Z80-03-60-080-CF	1-Z80-03-60-081-CF
10	20	37	22	59	1-Z80-05-60-120-CF	1-Z80-05-60-121-CF

For metal cap type A (universal) with vibration security replace 60 by	59	59
For metal cap type B (round) **without vibration security** replace 60 by	02	02
For metal cap type A (universal) **without vibration security** replace 60 by	01	01
For yellow plastic cap type A (universal) **without vibration security** replace 60 by	10	10

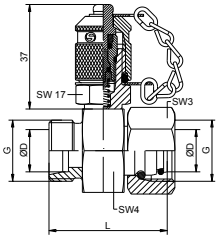
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

fitting with test coupling
series M16x2 – valve function by piston



type GE

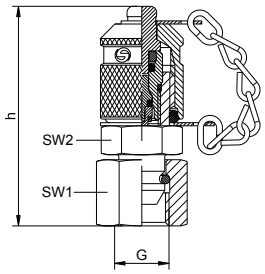


type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	48	43	14	24	1-Z10-00-00-600-CF	1-Z10-20-00-601-CF
		8	M14x1,5	17	24	49	43	17	24	1-Z10-02-00-600-CF	1-Z10-22-00-601-CF
		10	M16x1,5	19	24	49	45	19	24	1-Z10-04-00-600-CF	1-Z10-24-00-601-CF
		12	M18x1,5	22	27	51	41	22	27	1-Z10-06-00-600-CF	1-Z10-26-00-601-CF
		15	M22x1,5	27	30	53	43	27	30	1-Z10-09-00-600-CF	1-Z10-29-00-601-CF
		18	M26x1,5	32	32	53	54	32	32	1-Z10-11-00-600-CF	1-Z10-31-00-601-CF
	160	22	M30x2	36	36	55	57	36	36	1-Z10-13-00-600-CF	1-Z10-33-00-601-CF
		28	M36x2	41	41	58		upon request		1-Z10-15-00-600-CF	1-Z10-35-00-601-CF
		35	M45x2	50	46	60		upon request		1-Z10-17-00-600-CF	1-Z10-37-00-601-CF
		42	M52x2	60	55	65		upon request		1-Z10-19-00-600-CF	1-Z10-39-00-601-CF
S	630	6	M14x1,5	17	24	49	46	17	24	1-Z10-01-00-600-CF	1-Z10-21-00-601-CF
		8	M16x1,5	19	24	49	47	19	24	1-Z10-03-00-600-CF	1-Z10-23-00-601-CF
		10	M18x1,5	22	24	49	48	22	24	1-Z10-05-00-600-CF	1-Z10-25-00-601-CF
		12	M20x1,5	24	24	49	47	24	24	1-Z10-07-00-600-CF	1-Z10-27-00-601-CF
		14	M22x1,5	27	27	51	50	27	27	1-Z10-08-00-600-CF	1-Z10-28-00-601-CF
	400	16	M24x1,5	30	30	52	55	30	30	1-Z10-10-00-600-CF	1-Z10-30-00-601-CF
		20	M30x2	36	32	53	62	36	36	1-Z10-12-00-600-CF	1-Z10-32-00-601-CF
		25	M36x2	46	41	58	62	46	41	1-Z10-14-00-600-CF	1-Z10-34-00-601-CF
		30	M42x2	50	46	60		upon request		1-Z10-16-00-600-CF	1-Z10-36-00-601-CF
	315	38	M52x2	60	55	65		upon request		1-Z10-18-00-600-CF	1-Z10-38-00-601-CF

For metal cap type A (universal) with vibration security	replace 600 by 590	replace 601 by 591
For metal cap type B (round) **without vibration security**	replace 600 by 020	replace 601 by 021
For metal cap type A (universal) **without vibration security**	replace 600 by 010	replace 601 by 011
For yellow plastic cap type A (universal) **without vibration security**	replace 600 by 100	replace 601 by 101
Design with sealings made of FKM	replace 00-600 by 02-600	replace 00-601 by 02-601

test coupling with 60° sealing cone (DKR)
series M16x2 – valve function by piston



G	h	SW1	SW2	part number (NBR)	part number (FKM)
G 1/4	54	19	17	1-Z08-76-00-600-CF	1-Z08-76-02-600-CF

For metal cap type A (universal) with vibration security replace 600 by	590	590
For metal cap type B (round) **without vibration security** replace 600 by	020	020
For metal cap type A (universal) **without vibration security** replace 600 by	010	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

bulkhead coupling
series M16x2 – valve function by piston

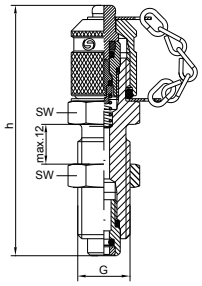


fig. 1

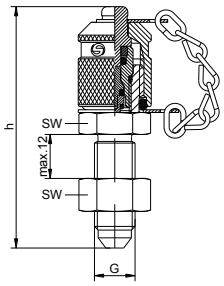
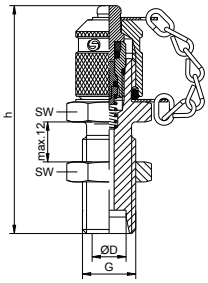


fig. 2

G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	72	1	1-Z80-48-60-040-CF	1-Z80-48-60-041-CF
7/16-20 UNF	17	68	2	upon request	upon request
For metal cap type A (universal) with vibration security replace 60 by				59	59
For metal cap type B (round) **without vibration security** replace 60 by				02	02
For metal cap type A (universal) **without vibration security** replace 60 by				01	01
For yellow plastic cap type A (universal) **without vibration security** replace 60 by				10	10

bulkhead coupling
series M16x2 – valve function by piston



type	PN	tube ØD	G	SW1	SW2	h	part number (NBR)	part number (FKM)
L	315	6	M12x1,5	17	17	69	1-Z22-00-00-601-CF	1-Z22-00-02-601-CF
		8	M14x1,5	19	19	72	1-Z22-02-00-601-CF	1-Z22-02-02-601-CF
		10	M16x1,5	22	22	68	1-Z22-04-00-601-CF	1-Z22-04-02-601-CF
		12	M18x1,5	22	24	72	1-Z22-06-00-601-CF	1-Z22-06-02-601-CF
S	630	6	M14x1,5	19	19	71	1-Z22-01-00-601-CF	1-Z22-01-02-601-CF
		8	M16x1,5	22	22	72	1-Z22-03-00-601-CF	1-Z22-03-02-601-CF
		10	M18x1,5	24	24	72	1-Z22-05-00-601-CF	1-Z22-05-02-601-CF
		12	M20x1,5	upon request			1-Z22-07-00-601-CF	1-Z22-07-02-601-CF
For metal cap type A (universal) with vibration security replace 601 by							591	591
For metal cap type B (round) **without vibration security** replace 601 by							021	021
For metal cap type A (universal) **without vibration security** replace 601 by							011	011
For yellow plastic cap type A (universal) **without vibration security** replace 601 by							101	101

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Piston

test coupling with 37° JIC female thread (DKJ) series M16x2 – valve function by piston

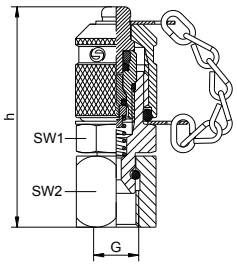


fig. 1

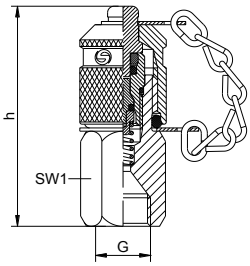
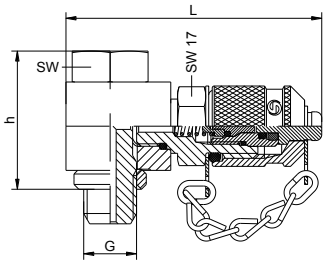


fig. 2

G	h	SW1	SW2	fig.	part number (NBR)	part number (FKM)
7/16 UNF	54	17	17	1	1-Z20-39-20-600-CF	1-Z20-39-22-600-CF
1/2 UNF	51	17	-	2	1-Z20-61-00-600-CF	1-Z20-61-02-600-CF
9/16 UNF	57	17	19	1	1-Z20-40-20-600-CF	1-Z20-40-22-600-CF
3/4 UNF	56	22	-	2	1-Z20-41-00-600-CF	1-Z20-41-02-600-CF
7/8 UNF	61	27	-	2	1-Z20-42-00-600-CF	1-Z20-42-02-600-CF

For metal cap type A (universal) with vibration security replace 600 by	590	590
For metal cap type B (round) **without vibration security** replace 600 by	020	020
For metal cap type A (universal) **without vibration security** replace 600 by	010	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

90° swivel adaptor series M16x2 – valve function by piston



G	h	L	SW	part number (NBR)	part number (FKM)
G1/4	34	64	17	1-Z26-29-05-600-CF	upon request

For metal cap type A (universal) with vibration security replace 600 by	590	590
For metal cap type B (round) **without vibration security** replace 600 by	020	020
For metal cap type A (universal) **without vibration security** replace 600 by	010	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - gas*

*Media:
These spradow test couplings are designed for nitrogen and other inert gases.

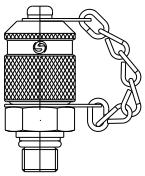
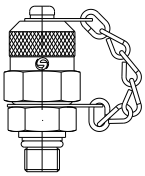
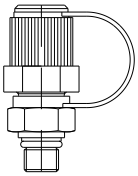
Application:
Spradow nitrogen test couplings are applied for the monitoring and control pressure as well as the ventilation. The advantages of this system are – among other – connection at system pressure leve, the easy connection to measurement control and wsitching devices, the leakproof connection and the integrated vibration security of the metal cap.

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: material 1 (-20 °C to +100 °C) - standard
material 2 (-47 °C to +100 °C)
Hose: Polyamide (-35 °C to +100 °C)

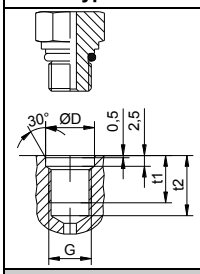
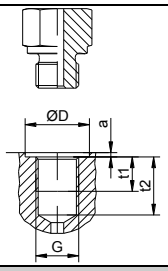
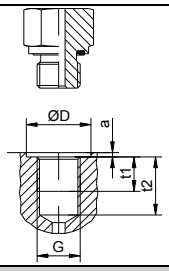
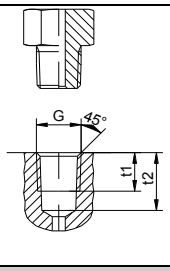
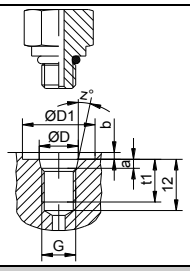
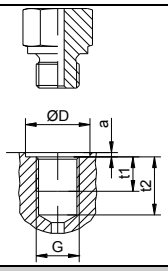
Surface:
CrVI-free.

Pressure:
Maximum working pressure (PN) of the test couplings - 630 bar at 4-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		**(temperature range -20°C to +100°C)**

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - gas*

test coupling
series M16x2 - GAS

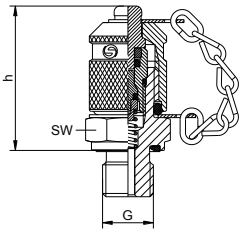


fig. 1

G	PN	SW	h	fig.	sealing	part number (NBR)
M8x1	250	17	38	1	o-ring type 1	1-G06-20-21-600-CF
M10x1	630	17	38	1	o-ring type 1	1-G06-22-21-600-CF
M10x1	400	17	39	1	soft sealing type 3	1-G06-22-11-600-CF
M10x1,25		17	38	1	o-ring type 1	1-G06-49-21-600-CF
M10x1,25		17	38	1	soft sealing type 3	1-G06-49-11-600-CF
M12x1,5	630	17	39	1	soft sealing type 3	1-G06-23-11-600-CF
M14x1,5	630	19	37	1	soft sealing type 3	1-G06-24-11-600-CF
M14x1,5	630	19	38	1	o-ring type 5	1-G06-24-61-600-CF
M16x1,5	630	22	37	1	soft sealing type 3	1-G06-25-11-600-CF
M18x1,5		24	39	1	soft sealing type 3	1-G06-26-11-600-CF
M20x1,5		27	39	1	soft sealing type 3	1-G06-51-11-600-CF
M22x1,5		27	39	1	soft sealing type 3	1-G06-27-11-600-CF
G 1/8	400	17	39	1	soft sealing type 3	1-G06-28-11-600-CF
G 1/4	630	19	37	1	soft sealing type 3	1-G06-29-11-600-CF
G 3/8	630	22	37	1	soft sealing type 3	1-G06-30-11-600-CF
G 1/2	630	27	39	1	soft sealing type 3	1-G06-31-11-600-CF
5/16-24 UNF	400	17	38	1	o-ring type 5	1-G06-38-30-600-CF
7/16-20 UNF	630	17	38	1	o-ring type 5	1-G06-39-30-600-CF
1/2-20 UNF	630	17	38	1	o-ring type 5	1-G06-61-30-600-CF
9/16-18 UNF	630	19	38	1	o-ring type 5	1-G06-40-30-600-CF
3/4-16 UNF	630	27	40	1	o-ring type 5	1-G06-41-30-600-CF

For metal cap type A (universal) with vibration security replace 600 by	590
For metal cap type B (round) **without vibration security** replace 600 by	020
For metal cap type A (universal) **without vibration security** replace 600 by	010
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - gas*

test coupling
series M16x2 – GAS for arctic temperature

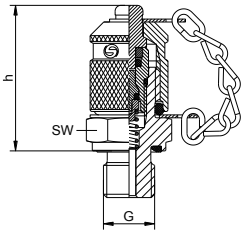


fig. 1

G	PN	SW	h	fig.	sealing	part number
					for arctic temperature use (sealings material 2; metal parts stainless steel 1.4305)	
M8x1	250	17	38	1	o-ring type 1	upon request
M10x1	630	17	38	1	o-ring type 1	upon request
M10x1	400	17	39	1	soft sealing type 3	upon request
M10x1,25		17	38	1	o-ring type 1	upon request
M10x1,25		17	38	1	soft sealing type 3	upon request
M12x1,5	630	17	39	1	soft sealing type 3	upon request
M14x1,5	630	19	37	1	soft sealing type 3	upon request
M14x1,5	630	19	38	1	o-ring type 5	upon request
M16x1,5	630	22	37	1	soft sealing type 3	1-T12-29-23-660-05[1]
M18x1,5		24	39	1	soft sealing type 3	upon request
M20x1,5		27	39	1	soft sealing type 3	upon request
M22x1,5		27	39	1	soft sealing type 3	upon request
G 1/8	400	17	39	1	soft sealing type 3	upon request
G 1/4	630	19	37	1	soft sealing type 3	upon request
G 3/8	630	22	37	1	soft sealing type 3	upon request
G 1/2	630	27	39	1	soft sealing type 3	upon request
5/16-24 UNF	400	17	38	1	o-ring type 5	upon request
7/16-20 UNF	630	17	38	1	o-ring type 5	upon request
1/2-20 UNF	630	17	38	1	o-ring type 5	upon request
9/16-18 UNF	630	19	38	1	o-ring type 5	upon request
3/4-16 UNF	630	27	40	1	o-ring type 5	upon request

[1]Sealing elememt is an o-ring

For metal cap type A (universal) with vibration security replace 600 by	650
For metal cap type B (round) **without vibration security** replace 600 by	080
For metal cap type A (universal) **without vibration security** replace 600 by	070
For yellow plastic cap type A (universal) **without vibration security** replace 600 by	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - gas*

fitting with test coupling series M16x2 - GAS

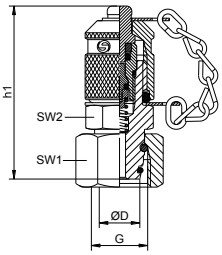


fig. 1

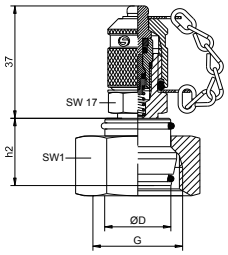


fig. 2

type DKO
test coupling with 24° taper adapter

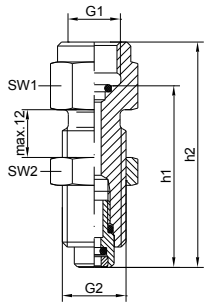
type	PN	tube ØD	h1	h2	SW1	SW2	G	type DKO part number	fig.
L	315	6	53	-	14	17	M12x1,5	upon request	1
		8	53	-	17	17	M14x1,5	upon request	1
		10	50	-	19	17	M16x1,5	upon request	1
		12	50	-	22	17	M18x1,5	upon request	1
		15	51	-	27	19	M22x1,5	upon request	1
		18	-	22	32	-	M26x1,5	upon request	2
	160	22	-	22	36	-	M30x2	upon request	2
		28	-	24	41	-	M36x2	upon request	2
		35	-	27	50	-	M45x2	upon request	2
		42	-	28	60	-	M52x2	upon request	2
S	630	6	54	-	17	17	M14x1,5	upon request	1
		8	51	-	19	17	M16x1,5	upon request	1
		10	51	-	22	17	M18x1,5	upon request	1
		12	51	-	24	17	M20x1,5	upon request	1
		14	53	-	27	19	M22x1,5	upon request	1
	400	16	-	20	30	-	M24x1,5	upon request	2
		20	-	25	36	-	M30x2	upon request	2
		25	-	27	46	-	M36x2	upon request	2
		30	-	29	50	-	M42x2	upon request	2
	315	38	-	32	60	-	M52x2	upon request	2

For metal cap type A (universal) with vibration security	upon request
For metal cap type B (round) **without vibration security**	upon request
For metal cap type A (universal) **without vibration security**	upon request
For yellow plastic cap type A (universal) **without vibration security**	upon request

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

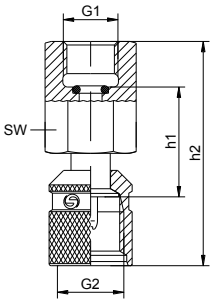
M16x2 - gas*

bulkhead pressure gauge connector series M16x2 – GAS – without valve function



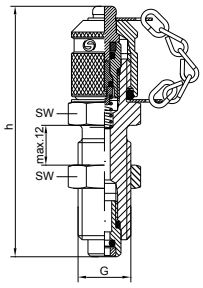
G1	SW1	SW2	h1	h2	G2	sealing	part number
G 1/4	19	19	46	57	M16x2	o-ring	1-918-29-01-240-CF
G 1/2	27	24	49	66	M16x2	o-ring	1-918-31-01-240-CF

direct pressure gauge connector Series M16x2 - GAS – without valve function



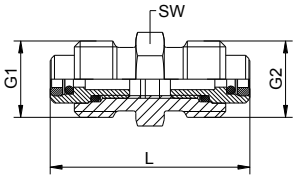
G1	SW	h1	h2	G2	sealing	part number
G 1/4	19	27	54	M16x2	o-ring	1-927-29-01-020-CF
G 1/2	27	25	58	M16x2	o-ring	1-927-31-01-020-CF
					For metal cap type A (universal) replace 020 by	010

bulkhead coupling series M16x2 - GAS



G	SW	h	part number
M16x2	19	72	upon request
		For metal cap type A (universal) with vibration security	upon request
		For metal cap type B (round) **without vibration security**	upon request
		For metal cap type A (universal) **without vibration security**	upon request
		For yellow plastic cap type A (universal) **without vibration security**	upon request

hose connector series M16x2 – GAS – without valve function

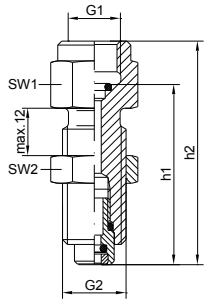


G1	SW	L	G2	part number	arctic temperature part number
M16x2	17	42	M16x2	1-T80-48-00-020-CF	1-980-48-00-020-CF
M16x2	17	42	M16x1,5	1-T80-48-00-030	1-980-48-00-030

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

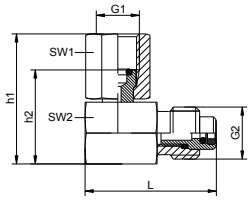
M16x2 - Connectors and Adaptors

bulkhead pressure gauge connector series M16x2 – without valve function



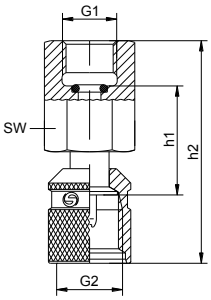
G1	SW1	SW2	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	46	57	M16x2	o-ring	1-918-29-01-240-CF	1-918-29-21-240-CF
G 1/2	27	24	49	66	M16x2	o-ring	1-918-31-01-240-CF	1-918-31-21-240-CF
1/4 NPT	19	19	-	58	M16x2	thread	1-918-44-00-240-CF	1-918-44-20-240-CF
1/2 NPT	27	24	-	66	M16x2	thread	1-918-46-00-240-CF	1-918-46-20-240-CF
For design with damping element replace 918 by							930	930

pressure gauge connector 90° series M16x2 – without valve function



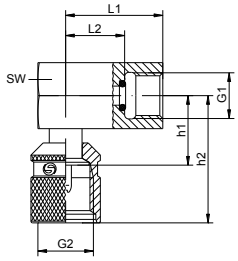
G1	SW1	SW2	L	h1	h2	G2	part number (NBR)	part number (FKM)
G 1/4	17	19	40	40	29	M16x2	1-928-29-01-240-CF	1-928-29-21-240-CF
G 1/2	upon request					M16x2	1-928-31-01-240-CF	1-928-31-21-240-CF

direct pressure gauge connector series M16x2 – without valve function



G1	SW	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	27	54	M16x2	o-ring	1-927-29-01-020-CF	1-927-29-21-020-CF
G 1/2	27	25	58	M16x2	o-ring	1-927-31-01-020-CF	1-927-31-21-020-CF
1/4 NPT	19	-	53	M16x2	thread	1-927-44-00-020-CF	1-927-44-20-020-CF
1/2 NPT	27	-	59	M16x2	thread	1-927-46-00-020-CF	1-927-46-20-020-CF
For metal cap type A (universal) replace 020 by						010	010
For design with damping element replace 927 by						929	929

direct pressure gauge connector 90° series M16x2 – without valve function

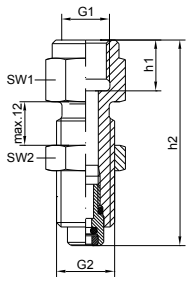


G1	SW	L1	L2	h1	h2	G2	part number (NBR)	part number (FKM)
G 1/4	19	28	17	20	37	M16x2	1-928-29-01-020-CF	1-928-29-21-020-CF
G 1/2	27	28	11	24	41	M16x2	1-928-31-01-020-CF	1-928-31-21-020-CF
1/4 NPT	19	22	-	20	37	M16x2	1-928-44-00-020-CF	1-928-44-20-020-CF
1/2 NPT	27	28	-	24	41	M16x2	1-928-46-00-020-CF	1-928-46-20-020-CF
For metal cap type A (universal) replace 020 by							010	010

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

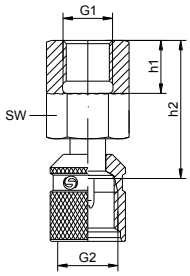
M16x2 - Connectors and Adaptors

bulkhead sensor connector series M16x2 – without valve function



G1	SW1	SW2	h1	h2	G2	part number (NBR)	part number (FKM)
G 1/4	19	19	14	57	M16x2	1-718-29-00-240-CF	upon request

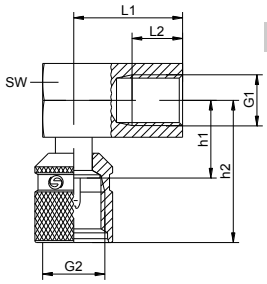
direct sensor connector series M16x2 – without valve function



G1	SW	h1	h2	G2	part number (NBR)	part number (FKM)
G 1/4	19	14	37	M16x2	1-727-29-00-021-CF	upon request
G 1/2	27	15	38	M16x2	1-727-31-00-020-CF	upon request

For metal cap type A (universal) — replace 020 by 010 respectively replace 021 by 011

direct sensor connector 90° series M16x2 – without valve function



G1	SW	L1	L2	h1	h2	G2	part number (NBR)	part number (FKM)
G 1/4	19	28	13	20	37	M16x2	1-728-29-00-021-CF	upon request

For metal cap type A (universal) — replace 021 by 011

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Connectors and Adaptors

adaptor for test coupling series M16x2 – without valve function

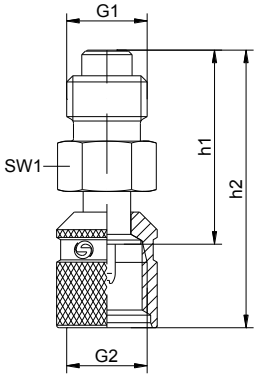


fig. 1

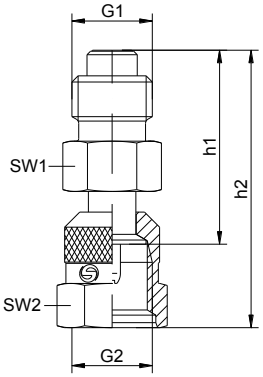


fig. 2

G1	G2	h1	h2	SW1	SW2	fig.	part number (NBR)	part number (FKM)
M16x2	M16x1,5	39	56	17	-	1	1-980-25-00-050	upon request
M16x2	S12x1,5	39	50	17	-	1	1-980-49-00-100-CF	upon request
M16x1,5	M16x2	39	56	17	19	2	1-980-48-00-120	upon request
S12x1,5	M16x2	36	47	17	19	2	1-980-48-00-110-CF	upon request

adaptor for series 5/8“-14 BSF (HSP) series M16x2 – valve function by ball

This adapter has been constructed to enable an adaptation between the 5/8"-14 BSF system (HSP) to the world wide used M16x2 system. Just screw our adapter onto the HSP - test coupling. The result is a regular M16x2 system connection. Now you can use your hoses and fittings from the M16x2 system.

with valve function (ball)

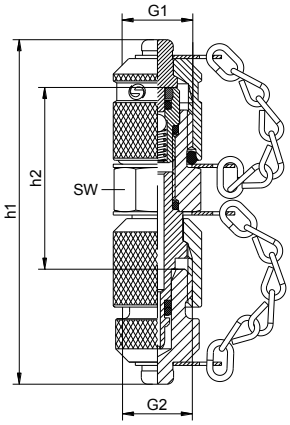


fig.1

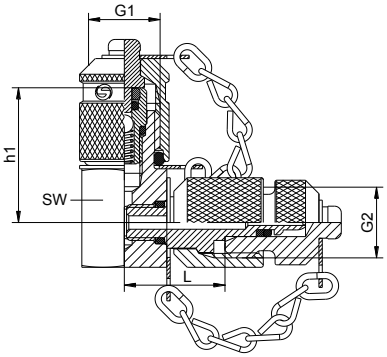


fig.2

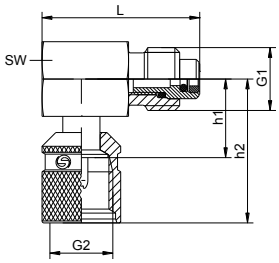
G1	G2	h1	h2	L	SW	fig.	part number (NBR)	part number (FKM)
M16x2	5/8“-14 BSF	78	41	-	17	1	1-880-67-60-001-CF	upon request
M16x2	5/8“-14 BSF	30	-	23	19	2	1-880-67-60-002-CF	upon request

For metal cap type A (universal) with vibration security replace 60 by	59	upon request
For metal cap type B (round) **without vibration security** replace 60 by	02	upon request
For metal cap type A (universal) **without vibration security** replace 60 by	01	upon request
For yellow plastic cap type A (universal) **without vibration security** replace 60 by	10	upon request

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - Connectors and Adaptors

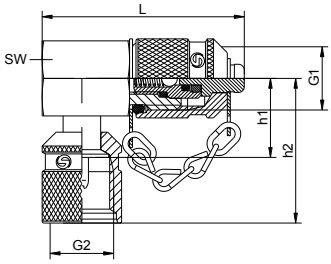
adaptor for test coupling 90°
series M16x2 – without valve function



without valve function

G1	G2	L	h1	h2	SW		part number (NBR)	part number (FKM)
M16x2	M16x2	40	20	37	19		1-924-02-00-241-CF	1-924-02-02-241-CF
						metal cap type A (universal)	1-924-01-00-241-CF	1-924-01-02-241-CF

adaptor for test coupling 90°
series M16x2 – valve function by ball



with valve function

G1	G2	L	h1	h2	SW		part number (NBR)	part number (FKM)
M16x2	M16x2	51	20	37	19		1-924-02-00-600-CF	1-924-02-02-600-CF
						metal cap type A (universal) with vibration security	1-924-01-00-590-CF	1-924-01-02-590-CF
						metal cap type B (round) **without vibration security**	1-924-02-00-020-CF	1-924-02-02-020-CF
						metal cap type A (universal) **without vibration security**	1-924-01-00-010-CF	1-924-01-02-010-CF
						plastic cap type A (universal) yellow **without vibration security**	1-924-01-00-100-CF	1-924-01-02-100-CF

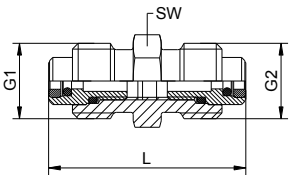
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x2 - test hose

high pressure hose
series M16x2

See page 55 for hose details

hose connector
series M16x2 – without valve function



G1	SW	L	G2	part number (NBR)	part number (FKM)
M16x2	17	42	M16x2	1-980-48-00-020-CF	upon request
M16x2	17	42	M16x1,5	1-980-48-00-030-CF	upon request

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Stainless Steel M16x2 - Piston

Application:

Spradow test couplings are applied for the monitoring and control pressure as well as the ventilation. The advantages of this system are – among other – connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection and the intregrated vibration security of the metal cap.

Media:

Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)
For nitrogen and other inert gases upon request.

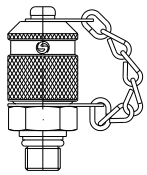
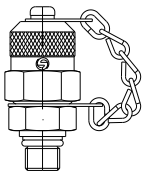
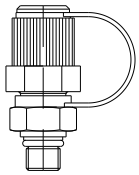
Materials:

Metal parts: stainless steel
Seals: NBR (-20 °C bis +100 °C)
FKM (-20 °C bis +200 °C)(**standard**)
EPDM (-40°C bis +150 °C)
Hose: polyamide (-35 °C bis +100 °C);

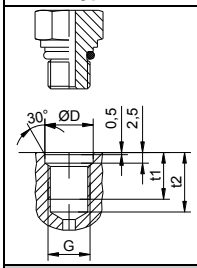
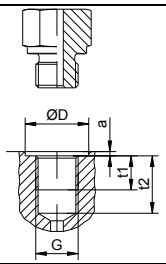
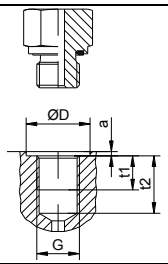
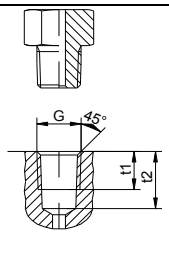
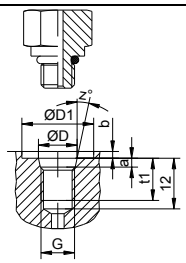
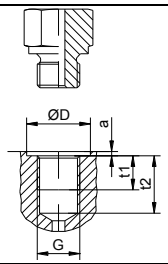
Pressure:

Maximum working pressure (PN) of the test couplings - 630 bar at 4-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		**(temperature range -20°C to +100°C)**

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Stainless Steel M16x2 - Piston

test coupling – stainless steel
series M16x2 – valve function by piston
seals made of FKM

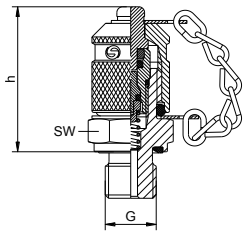


fig. 1

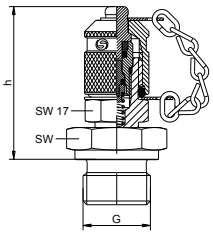


fig. 2

G	PN	SW	h	fig.	sealing	main parts	part number
M10x1		17	38	1	o-ring type 1	1.4571	1-912-22-22-660
M12x1,5		17	39	1	soft sealing type 3	1.4571	1-912-23-12-660
M14x1,5		19	37	1	soft sealing type 3	1.4571	1-912-24-12-660
G 1/8		17	39	1	soft sealing type 3	1.4571	1-912-28-12-660
G 1/4		19	37	1	metallic sealing type 2	1.4571	1-912-29-32-660
G 1/4		19	37	1	soft sealing type 3	1.4571	1-912-29-12-660[1)]
G 3/8		22	37	1	metallic sealing type 2	1.4571	1-912-30-32-660
G 3/8		22	37	1	soft sealing type 3	1.4571	1-912-30-12-660
G 1/2		27	39	1	metallic sealing type 2	1.4571	1-912-31-32-660
G 1/2		27	39	1	soft sealing type 3	1.4571	1-912-31-12-660
Rk 1/8*		17	36	1	thread type 4	1.4571	1-912-33-02-660
Rk 1/4*		19	35	1	thread type 4	1.4571	1-912-34-02-660
7/16-20 UNF		17	38	1	o-ring type 5	1.4571	1-912-39-32-660
9/16-18 UNF		19	38	1	o-ring type 5	1.4571	1-912-40-32-660
1/8 NPT		17	36	1	thread type 4	1.4571	1-912-43-02-660
1/4 NPT		17	35	1	thread type 4	1.4571	1-912-44-02-660

For metal cap type A (universal) with vibration security replace 660 by	650
For metal cap type B (round) **without vibration security** replace 660 by	080
For metal cap type A (universal) **without vibration security** replace 660 by	070
For yellow plastic cap type A (universal) **without vibration security** replace 660 by	100
[1)] For body made from stainless steel 1.4305 add -05 at the end	

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Stainless Steel M16x2 - Piston

fitting with test coupling – stainless steel series M16x2 – valve function by piston seals made from FKM

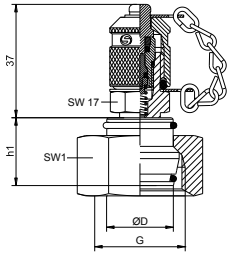


fig. 1
type DKO
test coupling with 24° taper adapter

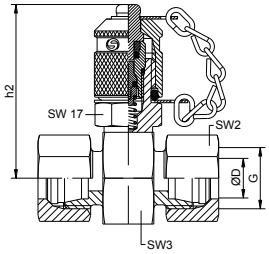


fig. 2
type GE
test coupling with straight fitting

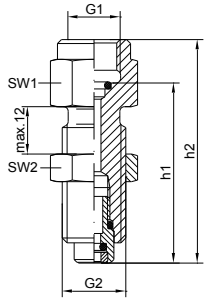
type	PN	tube ØD	G	h1	h2	SW1	SW2	SW3	material main parts	type DKO part number	fig.	type GE part number	fig.
L	315	6	M12x1,5			14			1.4571	1-914-00-00-660	1	1-916-00-00-660	2
		8	M14x1,5			17			1.4571	1-914-02-00-660	1	1-916-02-00-660	2
		10	M16x1,5			19			1.4571	1-914-04-00-660	1	1-916-04-00-660	2
		12	M18x1,5			22			1.4571	1-914-06-00-660	1	1-916-06-00-660	2
		15	M22x1,5			27			1.4571	1-914-09-00-660	1	1-916-09-00-660	2
		18	M26x1,5			32			1.4571	1-914-11-00-660	1	1-916-11-00-660	2
	160	22	M30x2			36			1.4571	1-914-13-00-660	1	1-916-13-00-660	2
		28	M36x2			41			1.4571	1-914-15-00-660	1	1-916-15-00-660	2
		35	M45x2			50			1.4571	1-914-17-00-660	1	1-916-17-00-660	2
		42	M52x2			60			1.4571	1-914-19-00-660	1	1-916-19-00-660	2
S	630	6	M14x1,5			17			1.4571	1-914-01-00-660	1	1-916-01-00-660	2
		8	M16x1,5			19			1.4571	1-914-03-00-660	1	1-916-03-00-660	2
		10	M18x1,5			22			1.4571	1-914-05-00-660	1	1-916-05-00-660	2
		12	M20x1,5			24			1.4571	1-914-07-00-660	1	1-916-07-00-660	2
		14	M22x1,5			27			1.4571	1-914-08-00-660	1	1-916-08-00-660	2
	400	16	M24x1,5			30			1.4571	1-914-10-00-660	1	1-916-10-00-660	2
		20	M30x2			36			1.4571	1-914-12-00-660	1	1-916-12-00-660	2
		25	M36x2			46			1.4571	1-914-14-00-660	1	1-916-14-00-660	2
		30	M42x2			50			1.4571	1-914-16-00-660	1	1-916-16-00-660	2
	315	38	M52x2			60			1.4571	1-914-18-00-660	1	1-916-18-00-660	2

For metal cap type A (universal) with vibration security replace 660 by	650	650
For metal cap type B (round) **without vibration security** replace 660 by	080	080
For metal cap type A (universal) **without vibration security** replace 660 by	070	070
For yellow plastic cap type A (universal) **without vibration security** replace 660 by	100	100

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

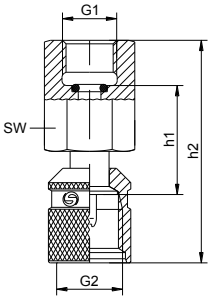
Stainless Steel M16x2 - Piston

bulkhead pressure gauge connector – stainless steel series M16x2 – without valve function



G1	SW1	SW2	h1	h2	G2	sealing	main parts	part number
G 1/4	19	19	46	57	M16x2	o-ring	1.4571	1-939-29-22-240
G 1/2	27	24	49	66	M16x2	o-ring	1.4571	1-939-31-22-240
1/4 NPT	19	19	-	58	M16x2	thread	1.4571	1-939-44-02-240
1/2 NPT	19	24	-	66	M16x2	thread	1.4571	1-939-46-02-240

direct pressure gauge connector – stainless steel series M16x2 – without valve function



G1	SW	h1	h2	G2	sealing	main parts	part number
G 1/4	19	27	54	M16x2	o-ring	1.4305	1-940-29-22-080
G 1/2	27	25	58	M16x2	o-ring	1.4305	1-940-31-22-080
1/4 NPT	19	-	53	M16x2	thread	1.4305	1-940-44-02-080
1/2 NPT	27	-	59	M16x2	thread	1.4305	1-940-46-02-080

For design with cap type A (universal) replace 080 by 070

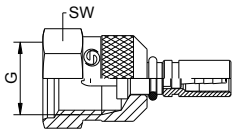
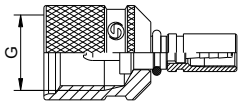
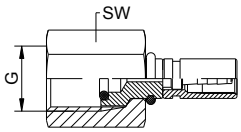
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Stainless Steel M16x2 - test hoses

high pressure hose – stainless steel
series M16x2
seals made from FKM

See page 55 for hose details

single parts for test hoses

view	no.	G	SW	DN	part number	material	description
	06	M16x2	19	2	2-970-06-02-001	1.4305	connector for test coupling metal cap type A (universal) inclusive ferrule*
	87	M16x2	19	2	2-970-87-02-001	1.4571	
	07	M16x2	-	2	2-970-07-02-001	1.4305	connector for test coupling metal cap type B (round) inclusive ferrule*
	0H	M16x2	-	2	2-970-0H-02-001	1.4571	
	52	G 1/4	17	2	2-970-52-02-004	1.4305	pressure gauge connector with Whitworth - thread sealing to pressure gauge by o-ring inclusive ferrule
	88	G 1/4	17	2	2-970-88-02-001	1.4571	

For connector without ferrule replace 970 by 971

* incl. strap

For hose material please see chapter hoses and connectors.
The information on the definition of the hose assembly lengths, please see the annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Ball

Application:
Spradow test couplings are applied for the monitoring and control pressure as well as the ventilation. The advantages of this system are – among other – connection at system pressure level, the easy connection to measurement contol and switching devices, the leakproof connection and the integrated vibration security of the metal cap.

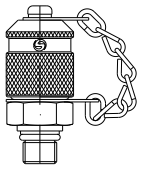
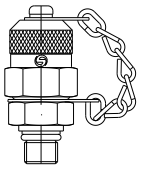
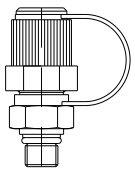
Media:
Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)
For nitrogen and other inert gases upon request.

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40 °C to +150 °C)
Hose: polyamide (-35 °C to +100 °C)

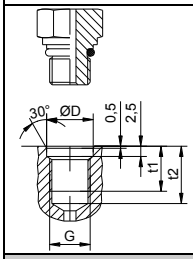
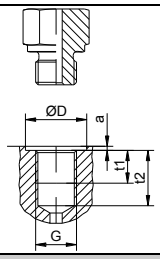
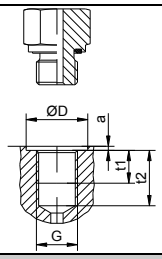
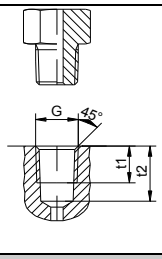
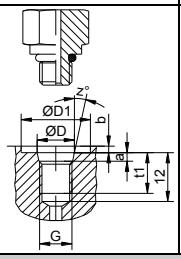
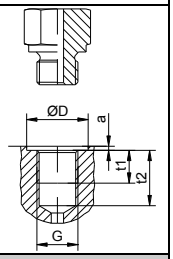
Surface:
Zinc nickel, black, CrVI-free.

Pressure:
Maximum working pressure (PN) for the test couplings - 630 bar at 4-fold security. Connection under pressure up to 630 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		(temperature range -20°C to +100°C)

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Ball

test coupling
series M16x1,5 – valve function by ball

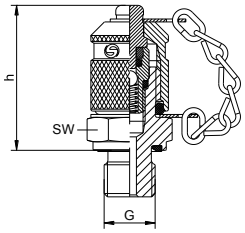


fig. 1

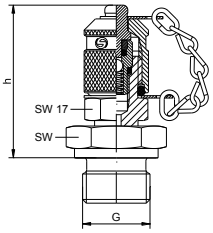


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1	250	17	38	1	o-ring type 1	1-906-20-21-630	1-906-20-22-630
M8x1		17	38	1	metallic sealing type 2	1-906-20-30-630	1-906-20-32-630
M10x1	630	17	38	1	o-ring type 1	1-906-22-21-630	1-906-22-22-630
M10x1	400	17	38	1	metallic sealing type 2	1-906-22-30-630	1-906-22-32-630
M10x1	400	17	39	1	soft sealing type 3	1-906-22-11-630	1-906-22-12-630
M10x1		17	38	1	metallic sealing type 6	1-906-22-40-630	1-906-22-42-630
M10x1,25		17	38	1	o-ring type 1	1-906-49-21-630	1-906-49-22-630
M10x1,25		17	38	1	soft sealing type 3	1-906-49-11-630	1-906-49-12-630
M12x1,5	630	17	38	1	metallic sealing type 2	1-906-23-30-630	1-906-23-32-630
M12x1,5	630	17	39	1	soft sealing type 3	1-906-23-11-630	1-906-23-12-630
M14x1,5	630	19	37	1	metallic sealing type 2	1-906-24-30-630	1-906-24-32-630
M14x1,5	630	19	37	1	soft sealing type 3	1-906-24-11-630	1-906-24-12-630
M14x1,5	630	19	38	1	o-ring type 5	1-906-24-61-630	1-906-24-62-630
M16x1,5	630	22	37	1	metallic sealing type 2	1-906-25-30-630	1-906-25-32-630
M16x1,5	630	22	37	1	soft sealing type 3	1-906-25-11-630	1-906-25-12-630
M18x1,5		24	39	1	metallic sealing type 2	1-906-26-30-630	1-906-26-32-630
M18x1,5		24	39	1	soft sealing type 3	1-906-26-11-630	1-906-26-12-630
M20x1,5		27	39	1	metallic sealing type 2	1-906-51-30-630	1-906-51-32-630
M20x1,5		27	39	1	soft sealing type 3	1-906-51-11-630	1-906-51-11-630
M22x1,5		27	39	1	metallic sealing type 2	1-906-27-30-630	1-906-27-32-630
M22x1,5		27	39	1	soft sealing type 3	1-906-27-11-630	1-906-27-12-630
M26x1,5		32	49	2	metallic sealing type 2	1-911-52-30-630	1-911-52-32-630
M27x2		36	49	2	metallic sealing type 2	1-911-53-30-630	1-911-53-32-630
M33x2		41	49	2	metallic sealing type 2	1-911-54-30-630	1-911-54-32-630
M42x2		50	50	2	metallic sealing type 2	1-911-55-30-630	1-911-55-32-630
M48x2		60	50	2	metallic sealing type 2	1-911-56-30-630	1-911-56-32-630
G 1/8	400	17	38	1	metallic sealing type 2	1-906-28-30-630	1-906-28-32-630
G 1/8	400	17	39	1	soft sealing type 3	1-906-28-11-630	1-906-28-12-630
G 1/4	630	19	37	1	metallic sealing type 2	1-906-29-30-630	1-906-29-32-630
G 1/4	630	19	37	1	soft sealing type 3	1-906-29-11-630	1-906-29-12-630
G 1/4		19	37	1	metallic sealing type 6	1-906-29-40-630	1-906-29-42-630
G 3/8	630	22	37	1	metallic sealing type 2	1-906-30-30-630	1-906-30-32-630
G 3/8	630	22	37	1	soft sealing type 3	1-906-30-11-630	1-906-30-12-630
G 1/2		27	39	1	metallic sealing type 2	1-906-31-30-630	1-906-31-32-630
G 1/2	630	27	39	1	soft sealing type 3	1-906-31-11-630	1-906-31-12-630
G 3/4		32	40	1	metallic sealing type 2	1-906-32-30-630	1-906-32-32-630
G 1		41	48	2	metallic sealing type 2	1-911-57-30-630	1-911-57-32-630
G 1 1/4		50	50	2	metallic sealing type 2	1-911-58-30-630	1-911-58-32-630
G 1 1/2		60	50	2	metallic sealing type 2	1-911-59-30-630	1-911-59-32-630
Rk 1/8*	400	17	36	1	thread type 4	1-906-33-00-630	1-906-33-02-630
Rk 1/4*	630	17	35	1	thread type 4	1-906-34-00-630	1-906-34-02-630
Rk 3/8*		19	35	1	thread type 4	1-906-35-00-630	1-906-35-02-630
5/16-24 UNF	400	17	38	1	o-ring type 5	1-906-38-30-630	1-906-38-32-630
7/16-20 UNF	630	17	38	1	o-ring type 5	1-906-39-30-630	1-906-39-32-630
1/2-20 UNF	630	17	38	1	o-ring type 5	1-906-61-30-630	1-906-61-32-630
9/16-18 UNF	630	19	38	1	o-ring type 5	1-906-40-30-630	1-906-40-32-630
3/4-16 UNF	630	27	40	1	o-ring type 5	1-906-41-30-630	1-906-41-32-630
1/8 NPT	400	17	36	1	thread type 4	1-906-43-00-630	1-906-43-02-630
1/4 NPT	630	17	35	1	thread type 4	1-906-44-00-630	1-906-44-02-630
3/8 NPT		19	36	1	thread type 4	1-906-45-00-630	1-906-45-02-630
1/2 NPT		22	37	1	thread type 4	1-906-46-00-630	1-906-46-02-630
					For metal cap type A (universal) with vibration security replace 630 by	620	620
					For metal cap type B (round) **without vibration security** replace 630 by	050	050
					For metal cap type A (universal) **without vibration security** replace 630 by	040	040
					For yellow plastic cap type A (universal) **without vibration security** replace 630 by	110	110

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Ball

fitting with test coupling series M16x1,5 – valve function by ball

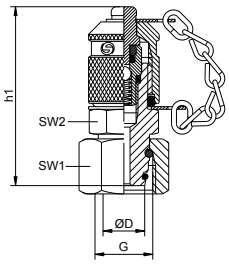


fig. 1

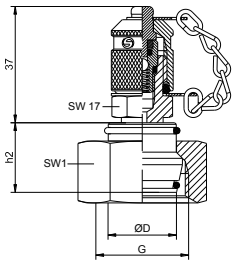


fig. 2

type DKO
test coupling with 24° taper adaptor

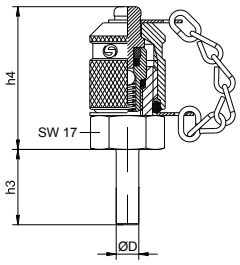


fig. 3

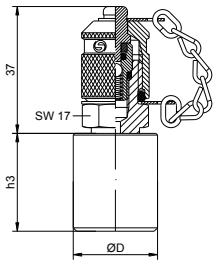


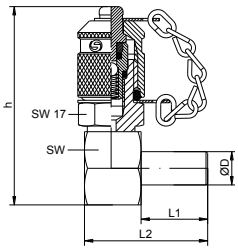
fig. 4

type BE
test coupling for compression ring fittings

type	PN	tube ØD	h1	h2	h3	h4	SW1	SW2	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	53	-	20	39	14	17	M12x1,5	1-908-00-10-630	1	1-909-00-00-631	3
		8	53	-	20	39	17	17	M14x1,5	1-908-02-10-630	1	1-909-02-00-631	3
		10	50	-	22	37	19	17	M16x1,5	1-908-04-10-630	1	1-909-04-00-631	3
		12	50	-	22	37	22	17	M18x1,5	1-908-06-10-630	1	1-909-06-00-631	3
		15	51	-	22	37	27	19	M22x1,5	1-908-09-00-630	1	1-909-09-00-631	3
		18	-	22	28	-	32	-	M26x1,5	1-908-11-00-630	2	1-909-11-00-631	4
	160	22	-	22	30	-	36	-	M30x2	1-908-13-00-630	2	1-909-13-00-631	4
		28	-	24	32	-	41	-	M36x2	1-908-15-00-630	2	1-909-15-00-631	4
		35	-	27	42	-	50	-	M45x2	1-908-17-00-630	2	1-909-17-00-631	4
		42	-	28	45	-	60	-	M52x2	1-908-19-00-630	2	1-909-19-00-631	4
S	630	6	54	-	20	39	17	17	M14x1,5	1-908-01-10-630	1	1-909-00-00-631	3
		8	51	-	20	39	19	17	M16x1,5	1-908-03-10-630	1	1-909-02-00-631	3
		10	51	-	22	37	22	17	M18x1,5	1-908-05-10-630	1	1-909-04-00-631	3
		12	51	-	22	37	24	17	M20x1,5	1-908-07-10-630	1	1-909-06-00-631	3
		14	-	20	22	37	27	-	M22x1,5	1-908-08-00-630	2	1-909-08-00-631	3
		16	-	20	28	37	30	-	M24x1,5	1-908-10-00-630	2	1-909-10-00-631	3
	400	20	-	25	30	-	36	-	M30x2	1-908-12-00-630	2	1-909-12-00-631	4
		25	-	27	36	-	46	-	M36x2	1-908-14-00-630	2	1-909-14-00-631	4
		30	-	29	41	-	50	-	M42x2	1-908-16-00-630	2	1-909-16-00-631	4
	315	38	-	32	48	-	60	-	M52x2	1-908-18-00-630	2	1-909-18-00-631	4

For metal cap type A (universal) with vibration security	replace 630 by 620	replace 631 by 621
For metal cap type B (round) **without vibration security**	replace 630 by 050	replace 631 by 051
For metal cap type A (universal) **without vibration security**	replace 630 by 040	replace 631 by 041
For yellow plastic cap type A (universal) **without vibration security**	replace 630 by 110	replace 631 by 111
Design with sealings made of FKM	replace 10-630 by 12-630 or replace 00-630 by 02-630	replace 00-631 by 02-631

90° fitting type BE with test coupling series M16x1,5 – valve function by ball



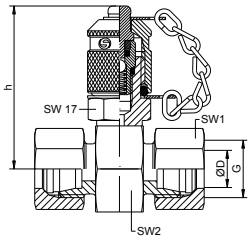
tube ØD	L1	L2	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	59	1-980-03-63-080	1-980-03-63-081
10	20	37	22	59	1-980-05-63-120	1-980-05-63-121

For metal cap type A (universal) with vibration security	replace 63 by 62	replace 63 by 62
For metal cap type B (round) **without vibration security**	replace 63 by 05	replace 63 by 05
For metal cap type A (universal) **without vibration security**	replace 63 by 04	replace 63 by 04
For yellow plastic cap type A (universal) **without vibration security**	replace 63 by 11	replace 63 by 11

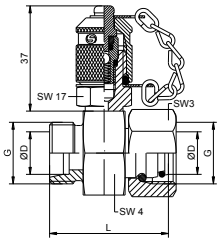
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Ball

fitting with test coupling
series M16x1,5 – valve function by ball



type GE



type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	48	43	14	24	1-910-00-00-630	1-910-20-00-631
		8	M14x1,5	17	24	49	43	17	24	1-910-02-00-630	1-910-22-00-631
		10	M16x1,5	19	24	49	45	19	24	1-910-04-00-630	1-910-24-00-631
		12	M18x1,5	22	27	51	41	22	27	1-910-06-00-630	1-910-26-00-631
		15	M22x1,5	27	30	53	43	27	30	1-910-09-00-630	1-910-29-00-631
		18	M26x1,5	32	32	53	54	32	32	1-910-11-00-630	1-910-31-00-631
	160	22	M30x2	36	36	55	57	36	36	1-910-13-00-630	1-910-33-00-631
		28	M36x2	41	41	58	upon request			1-910-15-00-630	1-910-35-00-631
		35	M45x2	50	46	60	upon request			1-910-17-00-630	1-910-37-00-631
		42	M52x2	60	55	65	upon request			1-910-19-00-630	1-910-39-00-631
S	630	6	M14x1,5	17	24	49	46	17	24	1-910-01-00-630	1-910-21-00-631
		8	M16x1,5	19	24	49	47	19	24	1-910-03-00-630	1-910-23-00-631
		10	M18x1,5	22	24	49	48	22	24	1-910-05-00-630	1-910-25-00-631
		12	M20x1,5	24	24	49	47	24	24	1-910-07-00-630	1-910-27-00-631
		14	M22x1,5	27	27	51	50	27	27	1-910-08-00-630	1-910-28-00-631
	400	16	M24x1,5	30	30	52	55	30	30	1-910-10-00-630	1-910-30-00-631
		20	M30x2	36	32	53	62	36	36	1-910-12-00-630	1-910-32-00-631
		25	M36x2	46	41	58	62	46	41	1-910-14-00-630	1-910-34-00-631
		30	M42x2	50	46	60	upon request			1-910-16-00-630	1-910-36-00-631
	315	38	M52x2	60	55	65	upon request			1-910-18-00-630	1-910-38-00-631

For metal cap type A (universal) with vibration security	replace 630 by 620	631 by 621
For metal cap type B (round) **without vibration security**	replace 630 by 050	631 by 051
For metal cap type A (universal) **without vibration security**	replace 630 by 040	631 by 041
For yellow plastic cap type A (universal) **without vibration security**	replace 630 by 110	631 by 111
Design with sealings made of FKM	replace 00-630 by 02-630	00-631 by 02-631

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Ball

bulkhead coupling
series M16x1,5 – valve function by ball

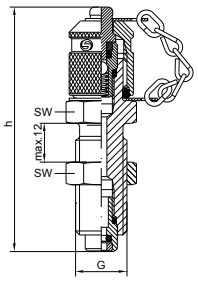


fig. 1

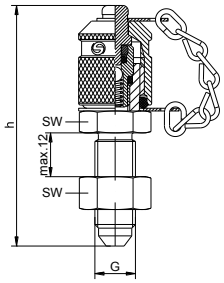


fig. 2

G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	72	1	1-980-48-63-040	upon request
7/16-20 UNF	17	67	2	upon request	upon request
			For metal cap type A (universal) with vibration security 63 by	62	62
			For metal cap type B (round) **without vibration security** 63 by	05	05
			For metal cap type A (universal) **without vibration security** 63 by	04	04
			For metal cap type A (universal) **without vibration security** 63 by	11	11

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Piston

Application:
Spradow test couplings are applied for the nonitoring and control pressure as well as the ventilation. The advantages of this system are – among other –connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection and the integrated vibration security of the metal cap.

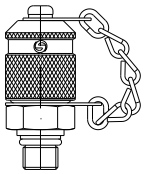
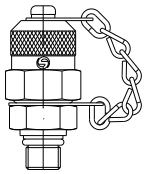
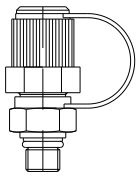
Media:
Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)
For nitrogen and other inert gases upon request.

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40 °C to +150 °C)
Hose: polyamide (-35 °C to +100 °C)

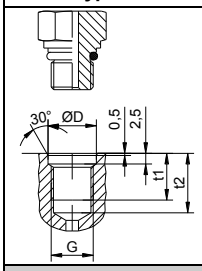
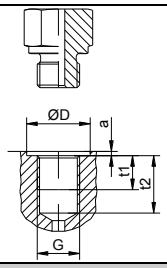
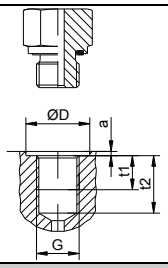
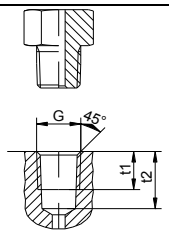
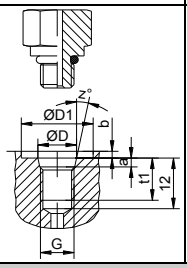
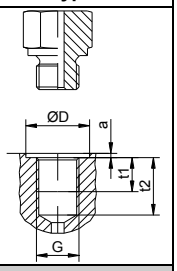
Surface:
Zinc nickel, black, CrVI-free

Pressure:
Maximal working pressure (PN) of the test couplings – 630 bar, at 4-fold security. Connection under pressure upt to 630 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type A (universal)	type A (universal) plastic
		
standard: incl. vibration security		(temperature range -20°C to +100°C)

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Piston

test coupling
series M16x1,5 – valve function by piston

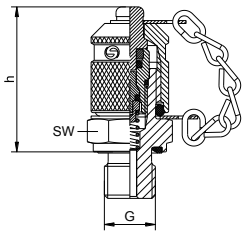


fig. 1

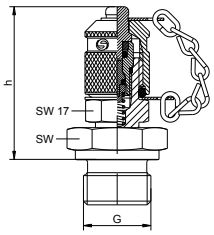


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1	250	17	38	1	o-ring type 1	1-Z06-20-21-630	1-Z06-20-22-630
M8x1		17	38	1	metallic sealing type 2	1-Z06-20-30-630	1-Z06-20-32-630
M10x1	630	17	38	1	o-ring type 1	1-Z06-22-21-630	1-Z06-22-22-630
M10x1	400	17	38	1	metallic sealing type 2	1-Z06-22-30-630	1-Z06-22-32-630
M10x1	400	17	39	1	soft sealing type 3	1-Z06-22-11-630	1-Z06-22-12-630
M10x1		17	38	1	metallic sealing type 6	1-Z06-22-40-630	1-Z06-22-42-630
M10x1,25		17	38	1	o-ring type 1	1-Z06-49-21-630	1-Z06-49-22-630
M10x1,25		17	38	1	soft sealing type 3	1-Z06-49-11-630	1-Z06-49-12-630
M12x1,5	630	17	38	1	metallic sealing type 2	1-Z06-23-30-630	1-Z06-23-32-630
M12x1,5	630	17	39	1	soft sealing type 3	1-Z06-23-11-630	1-Z06-23-12-630
M14x1,5	630	19	37	1	metallic sealing type 2	1-Z06-24-30-630	1-Z06-24-32-630
M14x1,5	630	19	37	1	soft sealing type 3	1-Z06-24-11-630	1-Z06-24-12-630
M14x1,5	630	19	38	1	o-ring type 5	1-Z06-24-61-630	1-Z06-24-62-630
M16x1,5	630	22	37	1	metallic sealing type 2	1-Z06-25-30-630	1-Z06-25-32-630
M16x1,5	630	22	37	1	soft sealing type 3	1-Z06-25-11-630	1-Z06-25-12-630
M18x1,5		24	39	1	metallic sealing type 2	1-Z06-26-30-630	1-Z06-26-32-630
M18x1,5		24	39	1	soft sealing type 3	1-Z06-26-11-630	1-Z06-26-12-630
M20x1,5		27	39	1	metallic sealing type 2	1-Z06-51-30-630	1-Z06-51-32-630
M20x1,5		27	39	1	soft sealing type 3	1-Z06-51-11-630	1-Z06-51-12-630
M22x1,5		27	39	1	metallic sealing type 2	1-Z06-27-30-630	1-Z06-27-32-630
M22x1,5		27	39	1	soft sealing type 3	1-Z06-27-11-630	1-Z06-27-12-630
M26x1,5		32	49	2	metallic sealing type 2	1-Z11-52-30-630	1-Z11-52-32-630
M27x2		36	49	2	metallic sealing type 2	1-Z11-53-30-630	1-Z11-53-32-630
M33x2		41	49	2	metallic sealing type 2	1-Z11-54-30-630	1-Z11-54-32-630
M42x2		50	50	2	metallic sealing type 2	1-Z11-55-30-630	1-Z11-55-32-630
M48x2		60	50	2	metallic sealing type 2	1-Z11-56-30-630	1-Z11-56-32-630
G 1/8	400	17	38	1	metallic sealing type 2	1-Z06-28-30-630	1-Z06-28-32-630
G 1/8	400	17	39	1	soft sealing type 3	1-Z06-28-11-630	1-Z06-28-12-630
G 1/4	630	19	37	1	metallic sealing type 2	1-Z06-29-30-630	1-Z06-29-32-630
G 1/4	630	19	37	1	soft sealing type 3	1-Z06-29-11-630	1-Z06-29-12-630
G 1/4		19	37	1	metallic sealing type 6	1-Z06-29-40-630	1-Z06-29-42-630
G 3/8	630	22	37	1	metallic sealing type 2	1-Z06-30-30-630	1-Z06-30-32-630
G 3/8	630	22	37	1	soft sealing type 3	1-Z06-30-11-630	1-Z06-30-12-630
G 1/2		27	39	1	metallic sealing type 2	1-Z06-31-30-630	1-Z06-31-32-630
G 1/2	630	27	39	1	soft sealing type 3	1-Z06-31-11-630	1-Z06-31-12-630
G 3/4		32	40	1	metallic sealing type 2	1-Z06-32-30-630	1-Z06-32-32-630
G 1		41	48	2	metallic sealing type 2	1-Z11-57-30-630	1-Z11-57-32-630
G 1 1/4		50	50	2	metallic sealing type 2	1-Z11-58-30-630	1-Z11-58-32-630
G 1 1/2		60	50	2	metallic sealing type 2	1-Z11-59-30-630	1-Z11-59-32-630
Rk 1/8*	400	17	36	1	thread type 4	1-Z06-33-00-630	1-Z06-33-02-630
Rk 1/4*	630	17	35	1	thread type 4	1-Z06-34-00-630	1-Z06-34-02-630
Rk 3/8*		19	35	1	thread type 4	1-Z06-35-00-630	1-Z06-35-02-630
5/16-24 UNF	400	17	38	1	o-ring type 5	1-Z06-38-30-630	1-Z06-38-32-630
7/16-20 UNF	630	17	38	1	o-ring type 5	1-Z06-39-30-630	1-Z06-39-32-630
1/2-20 UNF	630	17	38	1	o-ring type 5	1-Z06-61-30-630	1-Z06-61-32-630
9/16-18 UNF	630	19	38	1	o-ring type 5	1-Z06-40-30-630	1-Z06-40-32-630
3/4-16 UNF	630	27	40	1	o-ring type 5	1-Z06-41-30-630	1-Z06-41-32-630
1/8 NPT	400	17	36	1	thread type 4	1-Z06-43-00-630	1-Z06-43-02-630
1/4 NPT	630	17	35	1	thread type 4	1-Z06-44-00-630	1-Z06-44-02-630
3/8 NPT		19	36	1	thread type 4	1-Z06-45-00-630	1-Z06-45-02-630
1/2 NPT		22	37	1	thread type 4	1-Z06-46-00-630	1-Z06-46-02-630
					For metal cap type A (universal) with vibration security, replace 630 by	620	620
					For metal cap type B (round) **without vibration security**, replace 630 by	050	050
					For metal cap type A (universal) **without vibration security**, replace 630 by	040	040
					For yellow plastic cap type A (universal) **without vibration security**, replace 630 by	110	110

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Piston

fittings with test coupling
series M16x1,5 – valve function by piston

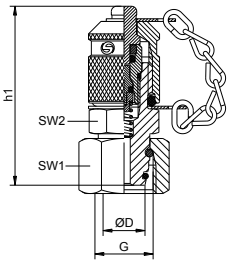


fig. 1

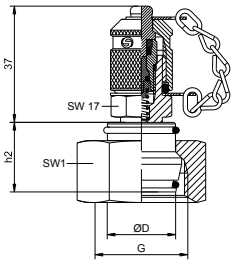


fig. 2

type DKO
test coupling with 24° taper adapter

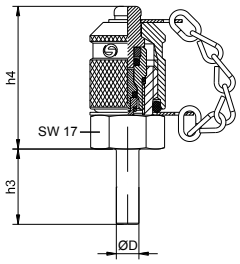


fig. 3

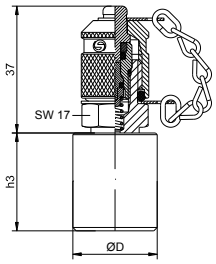


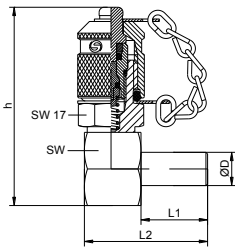
fig. 4

type BE
test coupling for compression ring fittings

type	PN	tube ØD	h1	h2	h3	h4	SW1	SW2	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	53	-	20	39	14	17	M12x1,5	1-Z08-00-10-630	1	1-Z09-00-00-631	3
		8	53	-	20	39	17	17	M14x1,5	1-Z08-02-10-630	1	1-Z09-02-00-631	3
		10	50	-	22	37	19	17	M16x1,5	1-Z08-04-10-630	1	1-Z09-04-00-631	3
		12	50	-	22	37	22	17	M18x1,5	1-Z08-06-10-630	1	1-Z09-06-00-631	3
		15	51	-	22	37	27	19	M22x1,5	1-Z08-09-00-630	1	1-Z09-09-00-631	3
		18	-	22	28	-	32	-	M26x1,5	1-Z08-11-00-630	2	1-Z09-11-00-631	4
	160	22	-	22	30	-	36	-	M30x2	1-Z08-13-00-630	2	1-Z09-13-00-631	4
		28	-	24	32	-	41	-	M36x2	1-Z08-15-00-630	2	1-Z09-15-00-631	4
		35	-	27	42	-	50	-	M45x2	1-Z08-17-00-630	2	1-Z09-17-00-631	4
		42	-	28	45	-	60	-	M52x2	1-Z08-19-00-630	2	1-Z09-19-00-631	4
S	630	6	54	-	20	39	17	17	M14x1,5	1-Z08-01-10-630	1	1-Z09-00-00-631	3
		8	51	-	20	39	19	17	M16x1,5	1-Z08-03-10-630	1	1-Z09-02-00-631	3
		10	51	-	22	37	22	17	M18x1,5	1-Z08-05-10-630	1	1-Z09-04-00-631	3
		12	51	-	22	37	24	17	M20x1,5	1-Z08-07-10-630	1	1-Z09-06-00-631	3
		14	-	20	22	37	27	-	M22x1,5	1-Z08-08-00-630	2	1-Z09-08-00-631	3
		16	-	20	28	37	30	-	M24x1,5	1-Z08-10-00-630	2	1-Z09-10-00-631	3
	400	20	-	25	30	-	36	-	M30x2	1-Z08-12-00-630	2	1-Z09-12-00-631	4
		25	-	27	36	-	46	-	M36x2	1-Z08-14-00-630	2	1-Z09-14-00-631	4
		30	-	29	41	-	50	-	M42x2	1-Z08-16-00-630	2	1-Z09-16-00-631	4
	315	38	-	32	48	-	60	-	M52x2	1-Z08-18-00-630	2	1-Z09-18-00-631	4

For metal cap type A (universal) with vibration security	replace 630 by 620	replace 631 by 621
For metal cap type B (round) **without vibration security**	replace 630 by 050	replace 631 by 051
For metal cap type A (universal) **without vibration security**	replace 630 by 040	replace 631 by 041
For yellow plastic cap type A (universal) **without vibration security**	replace 630 by 110	replace 631 by 111
Design with sealings made of FKM	replace 10-630 by 12-630 or 00-630 by 02-630	replace 00-631 by 02-631

90° fitting type BE with test coupling
series M16x1,5 – valve function by piston



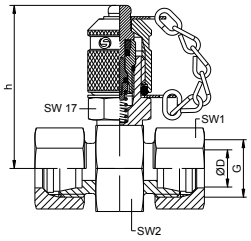
tube ØD	L1	L2	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	59	1-Z80-03-63-080	1-Z80-03-63-081
10	20	37	22	59	1-Z80-05-63-120	1-Z80-05-63-121

For metal cap type A (universal) with vibration security replace 63 by	62	62
For metal cap type B (round) **without vibration security** replace 63 by	05	05
For metal cap type A (universal) **without vibration security** replace 63 by	04	04
For yellow plastic cap type A (universal) **without vibration security** replace 63 by	11	11

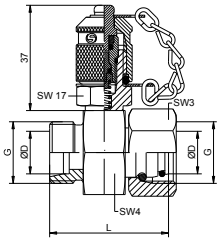
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Piston

fitting with test coupling
series M16x1,5 – valve function by piston



type GE



type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	48	43	14	24	1-Z10-00-00-630	1-Z10-20-00-631
		8	M14x1,5	17	24	49	43	17	24	1-Z10-02-00-630	1-Z10-22-00-631
		10	M16x1,5	19	24	49	45	19	24	1-Z10-04-00-630	1-Z10-24-00-631
		12	M18x1,5	22	27	51	41	22	27	1-Z10-06-00-630	1-Z10-26-00-631
		15	M22x1,5	27	30	53	43	27	30	1-Z10-09-00-630	1-Z10-29-00-631
		18	M26x1,5	32	32	53	54	32	32	1-Z10-11-00-630	1-Z10-31-00-631
	160	22	M30x2	36	36	55	57	36	36	1-Z10-13-00-630	1-Z10-33-00-631
		28	M36x2	41	41	58		upon request		1-Z10-15-00-630	1-Z10-35-00-631
		35	M45x2	50	46	60		upon request		1-Z10-17-00-630	1-Z10-37-00-631
		42	M52x2	60	55	65		upon request		1-Z10-19-00-630	1-Z10-39-00-631
S	630	6	M14x1,5	17	24	49	46	17	24	1-Z10-01-00-630	1-Z10-21-00-631
		8	M16x1,5	19	24	49	47	19	24	1-Z10-03-00-630	1-Z10-23-00-631
		10	M18x1,5	22	24	49	48	22	24	1-Z10-05-00-630	1-Z10-25-00-631
		12	M20x1,5	24	24	49	47	24	24	1-Z10-07-00-630	1-Z10-27-00-631
		14	M22x1,5	27	27	51	50	27	27	1-Z10-08-00-630	1-Z10-28-00-631
	400	16	M24x1,5	30	30	52	55	30	30	1-Z10-10-00-630	1-Z10-30-00-631
		20	M30x2	36	32	53	62	36	36	1-Z10-12-00-630	1-Z10-32-00-631
		25	M36x2	46	41	58	62	46	41	1-Z10-14-00-630	1-Z10-34-00-631
		30	M42x2	50	46	60		upon request		1-Z10-16-00-630	1-Z10-36-00-631
	315	38	M52x2	60	55	65		upon request		1-Z10-18-00-630	1-Z10-38-00-631

For metal cap type A (universal) with vibration security	replace 630 by 620	replace 631 by 621
For metal cap type B (round) **without vibration security**	replace 630 by 050	replace 631 by 051
For metal cap type A (universal) **without vibration security**	replace 630 by 040	replace 631 by 041
For yellow plastic cap type A (universal) **without vibration security**	replace 630 by 110	replace 631 by 111
Design with sealings made of FKM	replace 00-630 by 02-630	replace 00-631 by 02-631

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - Piston

bulkhead coupling
series M16x1,5 – valve function by piston

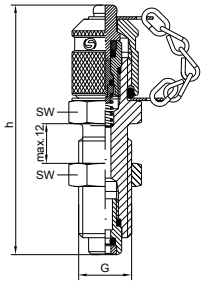


fig. 1

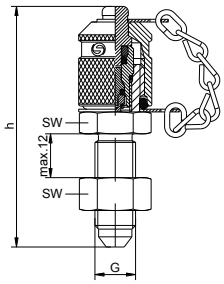


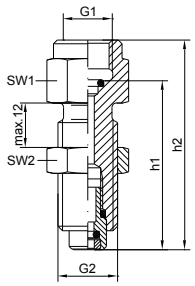
fig. 2

G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	72	1	1-Z80-48-63-040	upon request
7/16-20 UNF	17	67	2	upon request	upon request
For metal cap type A (universal) with vibration security replace 63 by				62	62
For metal cap type B (round) **without vibration security** replace 63 by				05	05
For metal cap type A (universal) **without vibration security** replace 63 by				04	04
For yellow plastic cap type A (universal) **without vibration security** replace 63 by				11	11

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

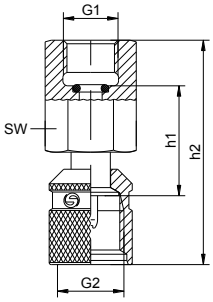
M16x1.5 - Connectors and Adaptors

bulkhead pressure gauge connector series M16x1,5 – without valve function



G1	SW1	SW2	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	46	57	M16x1,5	o-ring	1-918-29-01-250	1-918-29-21-250
G 1/2	27	24	49	66	M16x1,5	o-ring	1-918-31-01-250	1-918-31-21-250
						For design with damping element replace 918 by	930	930

direct pressure gauge connector series M16x1,5 – without valve function



G1	SW	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	27	54	M16x1,5	o-ring	1-927-29-01-050	1-927-29-21-050
G 1/2	27	25	58	M16x1,5	o-ring	1-927-31-01-050	1-927-31-21-050
1/4 NPT	19	-	53	M16x1,5	thread	1-927-44-00-050	1-927-44-20-050
					For metal cap type A (universal) replace 050 by	040	040
					For design with damping element replace 927 by	929	929

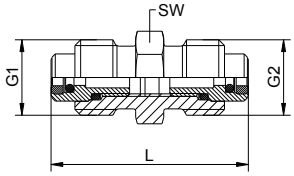
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

M16x1.5 - test hoses

high pressure hose

See page 55 for hose details

hose connector
series M16x1,5 – without valve function



G1	SW	L	G2	part number (NBR)	part number (FKM)
M16x2	17	42	M16x1,5	1-980-48-00-030	upon request
M16x1,5	17	42	M16x1,5	1-980-25-00-030	upon request

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

S12x1.5 - Piston

Application:
Spradow test couplings are applied for monitoring and control pressure as well as the ventilation. The advantages of this system are - among other - connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection and the integrated vibration security of the metal cap.

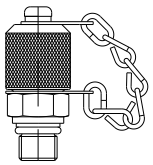
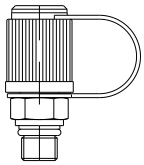
Media:
Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)
For nitrogen and other inert gases upon request.

Materials:
Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40 °C to +150 °C)
Hose: polyamide (-35 °C to +100 °C)

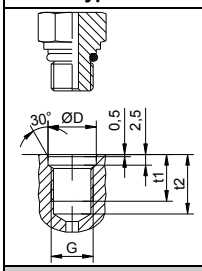
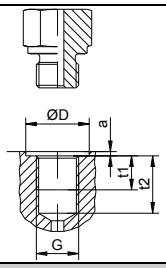
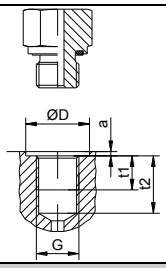
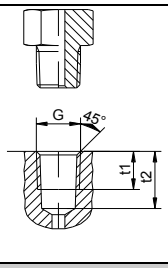
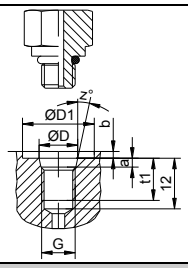
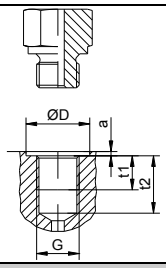
Surface:
Zinc nickel, transparent, CrVI-free.

Pressure:
Maximum working pressure (PN) of the test couplings - 630 bar, at 3-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.

design types of caps

type B (round)	type B (round) plastic
	
standard: incl. vibration security	(temperature range -20°C to +100°C)

port connection and seals

type 1	type 2	type 3	type 4	type 5	type 6
					

Design types of port connection and seals please see annex.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

S12x1.5 - Piston

test coupling
series S12x1,5 – valve function by piston

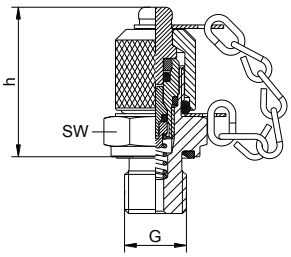


fig. 1

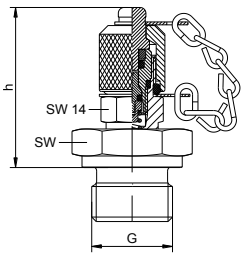


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1		14	38	1	metallic sealing type 2	1-S06-20-30-680-CF	1-S06-20-32-680-CF
M10x1	630	14	32	1	o-ring type 1	1-S06-22-21-680-CF	1-S06-22-22-680-CF
M10x1		14	38	1	metallic sealing type 2	1-S06-22-30-680-CF	1-S06-22-32-680-CF
M12x1,5		17	32	1	metallic sealing type 2	1-S06-23-30-680-CF	1-S06-23-32-680-CF
M12x1,5	630	17	34	1	soft sealing type 3	1-S06-23-11-680-CF	1-S06-23-12-680-CF
M14x1,5		19	33	1	metallic sealing type 2	1-S06-24-30-680-CF	1-S06-24-32-680-CF
M14x1,5		19	34	1	soft sealing type 3	1-S06-24-11-680-CF	1-S06-24-12-680-CF
M14x1,5		19	34	1	o-ring type 5	1-S06-24-61-680-CF	1-S06-24-62-680-CF
M16x1,5		22	32	1	metallic sealing type 2	1-S06-25-30-680-CF	1-S06-25-32-680-CF
M18x1,5		24	42	2	metallic sealing type 2	1-S11-26-30-680-CF	1-S11-26-32-680-CF
M18x1,5		24	42	2	soft sealing type 3	1-S11-26-11-680-CF	1-S11-26-12-680-CF
M20x1,5		27	42	2	metallic sealing type 2	1-S11-51-30-680-CF	1-S11-51-32-680-CF
M20x1,5		27	42	2	soft sealing type 3	1-S11-51-11-680-CF	1-S11-51-12-680-CF
M22x1,5		27	42	2	metallic sealing type 2	1-S11-27-30-680-CF	1-S11-27-32-680-CF
M22x1,5		27	42	2	soft sealing type 3	1-S11-27-11-680-CF	1-S11-27-12-680-CF
M26x1,5		32	43	2	metallic sealing type 2	1-S11-52-30-680-CF	1-S11-52-32-680-CF
M27x2		36	43	2	metallic sealing type 2	1-S11-53-30-680-CF	1-S11-53-32-680-CF
M33x2		41	43	2	metallic sealing type 2	1-S11-54-30-680-CF	1-S11-54-32-680-CF
M42x2		50	44	2	metallic sealing type 2	1-S11-55-30-680-CF	1-S11-55-32-680-CF
M48x2		60	44	2	metallic sealing type 2	1-S11-56-30-680-CF	1-S11-56-32-680-CF
G 1/8		14	38	1	metallic sealing type 2	1-S06-28-30-680-CF	1-S06-28-32-680-CF
G 1/8	400	14	39	1	soft sealing type 3	1-S06-28-11-680-CF	1-S06-28-12-680-CF
G 1/4		19	35	1	metallic sealing type 2	1-S06-29-30-680-CF	1-S06-29-32-680-CF
G 1/4	630	19	35	1	soft sealing type 3	1-S06-29-11-680-CF	1-S06-29-12-680-CF
G 1/2		27	42	2	metallic sealing type 2	1-S11-31-30-680-CF	1-S11-31-32-680-CF
G 1/2		27	42	2	soft sealing type 3	1-S11-31-11-680-CF	1-S11-31-12-680-CF
G 3/4		32	43	2	metallic sealing type 2	1-S11-32-30-680-CF	1-S11-32-32-680-CF
G 1		41	43	2	metallic sealing type 2	1-S11-57-30-680-CF	1-S11-57-32-680-CF
G 1 1/4		50	44	2	metallic sealing type 2	1-S11-58-30-680-CF	1-S11-58-32-680-CF
G 1 1/2		60	44	2	metallic sealing type 2	1-S11-59-30-680-CF	1-S11-59-32-680-CF
Rk 1/8*		14	33	1	thread type 4	1-S06-33-00-680-CF	1-S06-33-02-680-CF
Rk 1/4*		14	30	1	thread type 4	1-S06-34-00-680-CF	1-S06-34-02-680-CF
7/16-20 UNF	630	14	32	1	o-ring type 5	1-S06-39-30-680-CF	1-S06-39-32-680-CF
1/8 NPT	400	14	33	1	thread type 4	1-S06-43-00-680-CF	1-S06-43-02-680-CF
1/4 NPT	630	14	29	1	thread type 4	1-S06-44-00-680-CF	1-S06-44-02-680-CF
1/2 NPT		22	31	1	thread type 4	1-S06-46-00-680-CF	1-S06-46-02-680-CF
					For yellow plastic cap **without vibration security** replace 680 by	260	260
					For metal cap **without vibration security** replace 680 by	290	290

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

S12x1.5 - Piston

fitting with test coupling
series S12x1,5 – valve function by piston

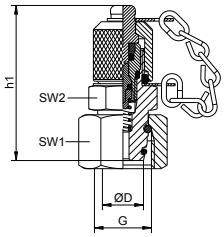


fig. 1

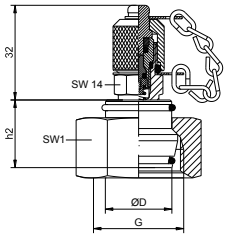


fig. 2

type DKO
test coupling with 24° taper adaptor

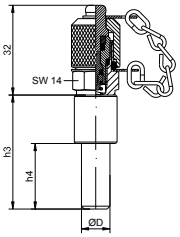


fig. 3

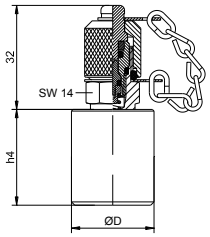


fig. 4

type BE
test coupling for compression ring fittings

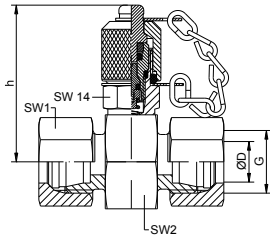
type	PN	tube ØD	h1	h2	h3	h4	SW1	SW2	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	47	-	38	20	14	17	M12x1,5	1-S08-00-10-680-CF	1	1-S09-00-00-681-CF	3
		8	47	-	38	20	17	17	M14x1,5	1-S08-02-10-680-CF	1	1-S09-02-00-681-CF	3
		10	45	-	40	22	19	17	M16x1,5	1-S08-04-10-680-CF	1	1-S09-04-00-681-CF	3
		12	45	-	40	22	22	17	M18x1,5	1-S08-06-10-680-CF	1	1-S09-06-00-681-CF	3
		15	46	-	-	28	27	19	M22x1,5	1-S08-09-00-680-CF	1	1-S09-09-00-681-CF	3
		18	-	22	-	28	32	-	M26x1,5	1-S08-11-00-680-CF	2	1-S09-11-00-681-CF	4
	160	22	-	22	-	30	36	-	M30x2	1-S08-13-00-680-CF	2	1-S09-13-00-681-CF	4
		28	-	24	-	32	41	-	M36x2	1-S08-15-00-680-CF	2	1-S09-15-00-681-CF	4
		35	-	27	-	42	50	-	M45x2	1-S08-17-00-680-CF	2	1-S09-17-00-681-CF	4
		42	-	28	-	45	60	-	M52x2	1-S08-19-00-680-CF	2	1-S09-19-00-681-CF	4
S	630	6	48	-	38	20	17	17	M14x1,5	1-S08-01-10-680-CF	1	1-S09-00-00-681-CF	3
		8	46	-	38	20	19	17	M16x1,5	1-S08-03-10-680-CF	1	1-S09-02-00-681-CF	3
		10	46	-	40	22	22	17	M18x1,5	1-S08-05-10-680-CF	1	1-S09-04-00-681-CF	3
		12	46	-	40	22	24	17	M20x1,5	1-S08-07-10-680-CF	1	1-S09-06-00-681-CF	3
		14	-	20	40	22	27	-	M22x1,5	1-S08-08-00-680-CF	2	1-S09-08-00-681-CF	3
	400	16	-	20	-	28	30	-	M24x1,5	1-S08-10-00-680-CF	2	1-S09-10-00-681-CF	3
		20	-	25	-	30	36	-	M30x2	1-S08-12-00-680-CF	2	1-S09-12-00-681-CF	4
		25	-	27	-	36	46	-	M36x2	1-S08-14-00-680-CF	2	1-S09-14-00-681-CF	4
		30	-	29	-	41	50	-	M42x2	1-S08-16-00-680-CF	2	1-S09-16-00-681-CF	4
	315	38	-	32	-	48	60	-	M52x2	1-S08-18-00-680-CF	2	1-S09-18-00-681-CF	4

For yellow plastic cap **without vibration security**	replace 680 by 260	replace 681 by 261
For metal cap **without vibration security**	replace 680 by 290	replace 681 by 291
Design with sealings made of FKM	replace 10-680 by 12-680 or 00-680 by 02-680	replace 00-681 by 02-681

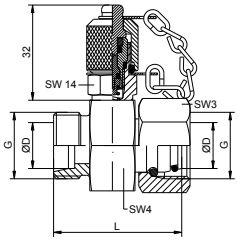
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

S12x1.5 - Piston

fitting with test coupling
series S12x1,5 – valve function by piston



type GE

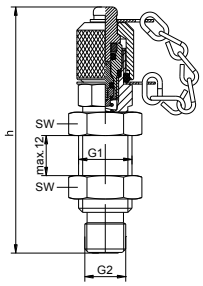


type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	43	43	14	24	1-S10-00-00-680-CF	1-S10-20-00-681-CF
		8	M14x1,5	17	24	44	43	17	24	1-S10-02-00-680-CF	1-S10-22-00-681-CF
		10	M16x1,5	19	24	44	45	19	24	1-S10-04-00-680-CF	1-S10-24-00-681-CF
		12	M18x1,5	22	27	45	41	22	27	1-S10-06-00-680-CF	1-S10-26-00-681-CF
		15	M22x1,5	27	30	47	43	27	30	1-S10-09-00-680-CF	1-S10-29-00-681-CF
		18	M26x1,5	32	32	48	54	32	32	1-S10-11-00-680-CF	1-S10-31-00-681-CF
	160	22	M30x2	36	36	50	57	36	36	1-S10-13-00-680-CF	1-S10-33-00-681-CF
		28	M36x2	41	41	52		upon request		1-S10-15-00-680-CF	1-S10-35-00-681-CF
		35	M45x2	50	46	55		upon request		1-S10-17-00-680-CF	1-S10-37-00-681-CF
		42	M52x2	60	55	59		upon request		1-S10-19-00-680-CF	1-S10-39-00-681-CF
S	630	6	M14x1,5	17	24	44	46	17	24	1-S10-01-00-680-CF	1-S10-21-00-681-CF
		8	M16x1,5	19	24	44	47	19	24	1-S10-03-00-680-CF	1-S10-23-00-681-CF
		10	M18x1,5	22	24	44	48	22	24	1-S10-05-00-680-CF	1-S10-25-00-681-CF
		12	M20x1,5	24	24	44	47	24	24	1-S10-07-00-680-CF	1-S10-27-00-681-CF
		14	M22x1,5	27	27	45	50	27	27	1-S10-08-00-680-CF	1-S10-28-00-681-CF
	400	16	M24x1,5	30	30	47	55	30	30	1-S10-10-00-680-CF	1-S10-30-00-681-CF
		20	M30x2	36	32	48	62	36	36	1-S10-12-00-680-CF	1-S10-32-00-681-CF
		25	M36x2	46	41	52	62	46	41	1-S10-14-00-680-CF	1-S10-34-00-681-CF
		30	M42x2	50	46	55		upon request		1-S10-16-00-680-CF	1-S10-36-00-681-CF
	315	38	M52x2	60	55	59		upon request		1-S10-18-00-680-CF	1-S10-38-00-681-CF

For yellow plastic cap **without vibration security**	replace 680 by 260	replace 681 by 261
For metal cap **without vibration security**	replace 680 by 290	replace 681 by 291
Design with sealings made of FKM	replace 00-680 by 02-680	replace 00-681 by 02-681

bulkhead coupling
series S12x1,5 – valve function by piston



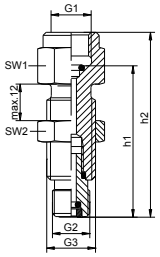
G1	G2	SW	h	part number (NBR)	part number (FKM)
M16x2	S12x1,5	19	74	1-S80-48-68-040-CF	upon request

For yellow plastic cap **without vibration security** replace 68 by	26	26
For metal cap **without vibration security** replace 68 by	29	29

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

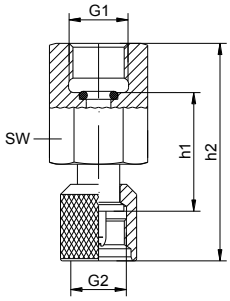
S12x1.5 - Connectors and Adaptors

bulkhead pressure gauge connector series S12x1,5 – without valve function



G1	SW1	SW2	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	50	61	S12x1,5	o-ring	1-918-29-01-430-CF	1-918-29-21-430-CF
G 1/2	27	24	53	70	S12x1,5	o-ring	1-918-31-01-430-CF	1-918-31-21-430-CF
1/4 NPT	19	19	-	62	S12x1,5	thread	1-918-44-00-430-CF	1-918-44-20-430-CF
1/2 NPT	27	24	-	70	S12x1,5	thread	1-918-46-00-430-CF	1-918-46-20-430-CF
						For design with damping element replace 918 by	929	929

direct pressure gauge connector series S12x1,5 – without valve function



G1	SW	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	27	49	S12x1,5	o-ring	1-927-29-01-290-CF	1-927-29-21-290-CF
G 1/2	27	25	53	S12x1,5	o-ring	1-927-31-01-290-CF	1-927-31-21-290-CF
1/4 NPT	19	-	48	S12x1,5	thread	1-927-44-00-290-CF	1-927-44-20-290-CF
1/2 NPT	27	-	54	S12x1,5	thread	1-927-46-00-290-CF	1-927-46-20-290-CF
					For design with damping element replace 927 by	929	929

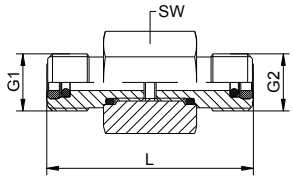
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

S12x1.5 - test hoses

high pressure hose
series S12x1,5

See page 55 for hose details

hose connector
series S12x1,5 – without valve function



G1	SW	L	G2	part number (NBR)	part number (FKM)
S12x1,5	19	44	S12x1,5	1-980-49-00-010-CF	upon request

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Steck - Ball

Application:

Spradow test couplings are applied for the monitoring and control pressure as well as the ventilation. The advantages of this system are – among other – connection at system pressure level, the easy connection to measurement control and switching devices, the leakproof connection.

Media:

Hydraulic oils and mineral based fluids.
(Please check compatibility of seal material.)

Materials:

Metal parts: Steel, Stainless steel upon request
Seals: NBR (-20 °C to +100 °C)
FKM (-20 °C to +200 °C)
EPDM (-40 °C to +150 °C)
Hose: polyamide (-35 °C to +100 °C)

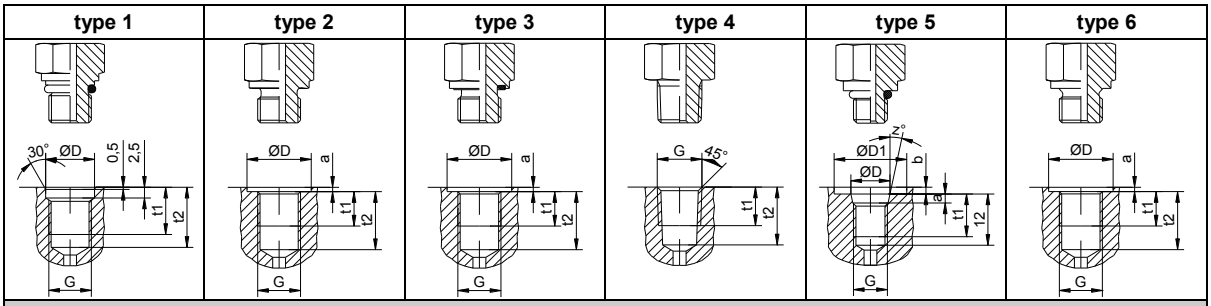
Surface:

Zinc nickel, transparent, CrVI-free.

Pressure:

Maximum working pressure (PN) of the test couplings - 400 bar at 3-fold security. For the union pieces please observe the instructions given by the corresponding producer.

port connection and seals



Design types of port connection and seals please see annex.

test coupling series Steck

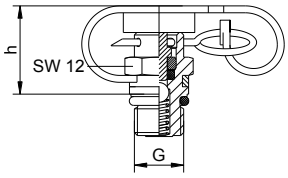


fig. 1

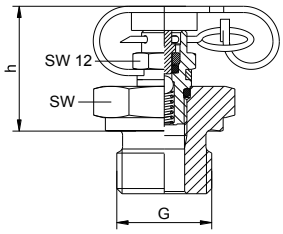


fig. 2

G	PN	SW	h	fig.	sealing	part number (NBR)	part number (FKM)
M8x1	250	-	18	1	o-ring type 1	1-900-20-21-180-CF	1-900-20-22-180-CF
M10x1	400	-	18	1	o-ring type 1	1-900-22-21-180-CF	1-900-22-22-180-CF
Rk 1/8*	400	-	18	1	thread type 4	1-900-33-00-180-CF	1-900-33-02-180-CF
1/8 NPT		-	18	1	thread type 4	1-900-43-00-180-CF	1-900-43-02-180-CF
M10x1		17	37	2	metallic sealing type 2	1-905-22-30-180-CF	1-905-22-32-180-CF
G 1/4		19	27	2	soft sealing type 3	1-905-29-11-180-CF	1-905-29-12-180-CF

*acc. DIN 3858

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Steck - Ball

fitting with test coupling series Steck

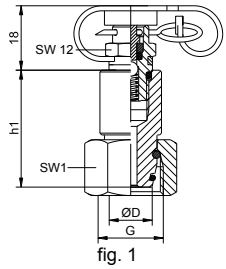


fig. 1

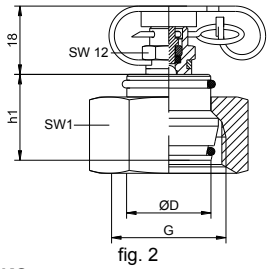


fig. 2

type DKO
test coupling with 24° taper adaptor

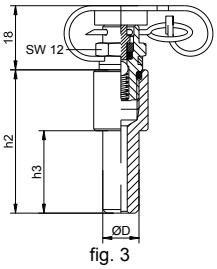


fig. 3

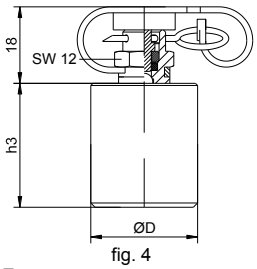
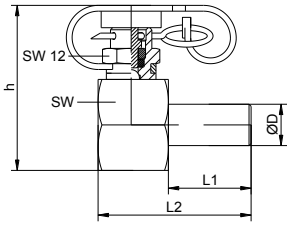


fig. 4

type BE
test coupling for compression ring fittings

type	PN	tube ØD	h1	h2	h3	SW1	G	type DKO part number	fig.	type BE part number	fig.
L	315	6	33	38	20	14	M12x1,5	1-902-00-10-180-CF	1	1-903-00-00-181-CF	3
		8	33	38	20	17	M14x1,5	1-902-02-10-180-CF	1	1-903-02-00-181-CF	3
		10	33	40	22	19	M16x1,5	1-902-04-10-180-CF	1	1-903-04-00-181-CF	3
		12	33	40	22	22	M18x1,5	1-902-06-10-180-CF	1	1-903-06-00-181-CF	3
		15	20	-	28	27	M22x1,5	1-902-09-00-180-CF	2	1-903-09-00-181-CF	4
		18	22	-	28	32	M26x1,5	1-902-11-00-180-CF	2	1-903-11-00-181-CF	4
	160	22	22	-	30	36	M30x2	1-902-13-00-180-CF	2	1-903-13-00-181-CF	4
		28	24	-	32	41	M36x2	1-902-15-00-180-CF	2	1-903-15-00-181-CF	4
		35	27	-	42	50	M45x2	1-902-17-00-180-CF	2	1-903-17-00-181-CF	4
		42	28	-	45	60	M52x2	1-902-19-00-180-CF	2	1-903-19-00-181-CF	4
S	400	6	34	38	20	17	M14x1,5	1-902-01-10-180-CF	1	1-903-00-00-181-CF	3
		8	34	38	20	19	M16x1,5	1-902-03-10-180-CF	1	1-903-02-00-181-CF	3
		10	34	40	22	22	M18x1,5	1-902-05-10-180-CF	1	1-903-04-00-181-CF	3
		12	34	40	22	24	M20x1,5	1-902-07-10-180-CF	1	1-903-06-00-181-CF	3
		14	20	40	22	27	M22x1,5	1-902-08-00-180-CF	2	1-903-08-00-181-CF	3
		16	20	-	28	30	M24x1,5	1-902-10-00-180-CF	2	1-903-10-00-181-CF	4
	400	20	25	-	30	36	M30x2	1-902-12-00-180-CF	2	1-903-12-00-181-CF	4
		25	27	-	36	46	M36x2	1-902-14-00-180-CF	2	1-903-14-00-181-CF	4
		30	29	-	41	50	M42x2	1-902-16-00-180-CF	2	1-903-16-00-181-CF	4
	315	38	32	-	48	60	M52x2	1-902-18-00-180-CF	2	1-903-18-00-181-CF	4
							Design with sealings made of FKM	replace 00-180 by 02-180 or 10-180 by 12-180		replace 00-181 by 02-181	

90° fitting type BE with test coupling series Steck

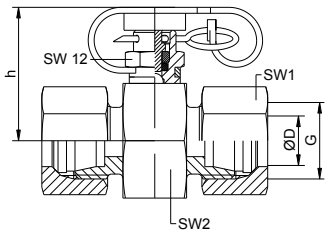


tube ØD	L1	L2	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	40	1-980-03-20-080-CF	1-980-03-20-081-CF
10	20	37	22	40	1-980-05-20-120-CF	1-980-05-20-121-CF

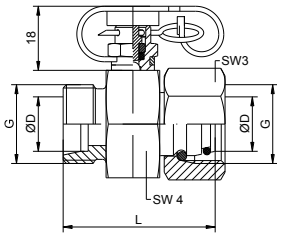
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Steck - Ball

fitting with test coupling series Steck



type GE



type DKOGE

type	PN	tube ØD	G	SW1	SW2	h	L	SW3	SW4	type GE part number	type DKOGE part number
L	315	6	M12x1,5	14	22	29	43	14	24	1-904-00-00-180-CF	1-904-20-00-181-CF
		8	M14x1,5	17	24	30	43	17	24	1-904-02-00-180-CF	1-904-22-00-181-CF
		10	M16x1,5	19	24	30	45	19	24	1-904-04-00-180-CF	1-904-24-00-181-CF
		12	M18x1,5	22	27	32	41	22	27	1-904-06-00-180-CF	1-904-26-00-181-CF
		15	M22x1,5	27	30	33	43	27	30	1-904-09-00-180-CF	1-904-29-00-181-CF
		18	M26x1,5	32	32	34	54	32	32	1-904-11-00-180-CF	1-904-31-00-181-CF
	160	22	M30x2	36	36	36	57	36	36	1-904-13-00-180-CF	1-904-33-00-181-CF
		28	M36x2	41	41	39		upon request		1-904-15-00-180-CF	1-904-35-00-181-CF
		35	M45x2	50	46	41		upon request		1-904-17-00-180-CF	1-904-37-00-181-CF
		42	M52x2	60	55	46		upon request		1-904-19-00-180-CF	1-904-39-00-181-CF
S	630	6	M14x1,5	17	24	30	46	17	24	1-904-01-00-180-CF	1-904-21-00-181-CF
		8	M16x1,5	19	24	30	47	19	24	1-904-03-00-180-CF	1-904-23-00-181-CF
		10	M18x1,5	22	24	30	48	22	24	1-904-05-00-180-CF	1-904-25-00-181-CF
		12	M20x1,5	24	24	30	47	24	24	1-904-07-00-180-CF	1-904-27-00-181-CF
		14	M22x1,5	27	27	32	50	27	27	1-904-08-00-180-CF	1-904-28-00-181-CF
	400	16	M24x1,5	30	30	33	55	30	30	1-904-10-00-180-CF	1-904-30-00-181-CF
		20	M30x2	36	32	34	62	36	36	1-904-12-00-180-CF	1-904-32-00-181-CF
		25	M36x2	46	41	39	62	46	41	1-904-14-00-180-CF	1-904-34-00-181-CF
		30	M42x2	50	46	41		upon request		1-904-16-00-180-CF	1-904-36-00-181-CF
	315	38	M52x2	60	55	46		upon request		1-904-18-00-180-CF	1-904-38-00-181-CF
							Design with sealings made of FKM			replace 00-180 by 02-180	replace 00-181 by 02-181

bulkhead connector series Steck

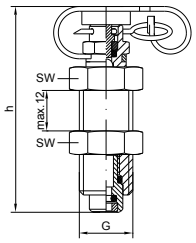


fig. 1

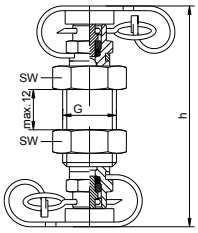


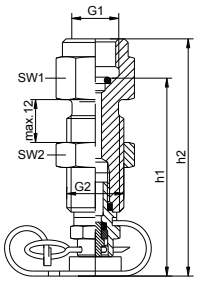
fig. 2

G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	61	1	1-980-48-20-040-CF	1-980-48-20-041-CF
M16x2	19	71	2	1-980-48-20-050-CF	1-980-48-20-051-CF

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Steck - Connectors and Adaptors

bulkhead pressure gauge connector series Steck – without valve function



G1	SW1	SW2	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	55	66	M16x2	o-ring	1-918-29-01-210-CF	1-918-29-21-210-CF
G 1/2	27	24	58	75	M16x2	o-ring	1-918-31-01-210-CF	1-918-31-21-210-CF
1/4 NPT	19	19	-	68	M16x2	thread	1-918-44-00-210-CF	1-918-44-20-210-CF
1/2 NPT	27	24	-	75	M16x2	thread	1-918-46-00-210-CF	1-918-46-20-210-CF

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Steck - test hoses

high pressure hose series Steck

See page 55 for hose details

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Test Box

for max. 2 pressure gauges

The TEST BOX is a solid, oil-resistant plastic box utilizing Pelican Protector-Series cases. It is available either pre-assembled with an assortment of our most popular components or equipped to your specific needs. The pressure gauges, the gauge adapters and the hose are safely nestled in an oil-repellent cross-linked polyethylene foam cushion.

The test couplings and reducers of the instant pressure checking equipment are safely and clearly arranged in separate arrays, which can be securely locked. **Cases can also be custom-designed for your individual requirements.**

standard equipment:		**PEL-25115-Kit** (without pressure gauges)
QTY	**Description**	**Description**
2	Test hose 60" length, M16x2 / M16x2	H992-0060
2	Pressure gauges to your specifications	**See page 53**
2	1/4" NPT pressure gauge connector	H900-0082
1	Male M16x2 to male M16x2 test hose union	H900-0089
1	Test connector male 7/16-20 UNF (#4 SAE)	H900-0011
1	Test connector male 9/16-18 UNF (#6 SAE)	H900-0012
1	Test connector male 1/8" NPT	H900-0020
1	Test connector male 1/4" NPT	H900-0021

Pressure gauges will be ordered as separate line items.

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Test Box

for max. 9 pressure gauges

The **TEST BOX** is a solid, oil-resistant plastic box utilizing Pelican Protector-Series cases. It is available either pre-assembled with an assortment of our most popular components or equipped to your specific needs. The pressure gauges, the gauge adapters and the hose are safely nestled in an oil-repellent cross-linked polyethylene foam cushion.

The test couplings and reducers of the instant pressure checking equipment are safely and clearly arranged in separate arrays, which can be securely locked. **Cases can also be custom-designed for your individual requirements.**

standard equipment:		**PEL-25335-Kit** (without pressure gauges)
QTY	**Description**	**Part Number**
2	Test hose 72" length, M16x2 / M16x2	H992-0072
4	Test hose 36" length, M16x2 / M16x2	H992-0036
2	Test hose 18" length, M16x2 / M16x2	H992-0018
4	Test connector male 1/4" NPT	H900-0021
4	Test connector male 7/16-20 UNF (#4 SAE)	H900-0011
4	Test connector male 9/16-18 UNF (#6 SAE)	H900-0012
2	Test connector male G1/8 (BSPP) , Type 3 Seal	H900-0030
4	Test connector male G1/4 (BSPP) , Type 3 Seal	H900-0031
up to 9	Pressure gauges to your specifications	**See page 53**
2	Test connector male G3/8 (BSPP)	H900-0032
2	Test connector male M8x1, Type 1 Seal	H900-0001
2	Test connector male M10x1, Type 1 Seal	H900-0025
6	Male M16x2 to male M16x2 Test Hose Union	H900-0089
9	Male 1/4" NPT Direct Gage Connector	H900-0086

Pressure gauges will be ordered as separate line items.

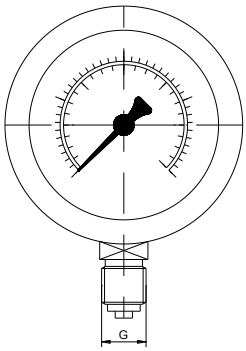
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Pressure gauge

Type gauges feature a stainless steel case for protection in harsh environments. The O-ring seal around the connection makes this gauge field liquid fillable. When filled, the 213.53 is excellent for high vibration and pulsation applications.

Standard Features:

Size:	2.5"	Pointer:	Black aluminum with plastic hub
Case:	304 stainless steel	Accuracy:	± 2/1/2% of span ASME B40.100 Grade A
Wetted parts:	Copper alloy polycarbonate	Connection:	Lower mount
Window:	White aluminum	Includes:	PSI / Bar scale, brass 0.3mm restrictor

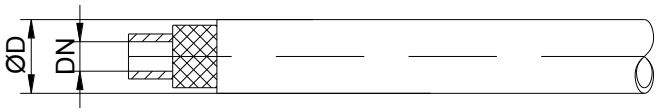


pressure rating	1/4" NPT part number	G1/4" part number
0 - 600 psi	52858982	52858993
0 - 800 psi	52858984	52858994
0 - 1,000 psi	52858985	52858995
0 - 2,000 psi	52858986	52858996
0 - 3,000 psi	52858987	52858997
0 - 5,000 psi	52858988	52858998
0 - 6,000 psi	52858989	52859000
0 - 10,000 psi	52858990	52859002
0 - 15,000 psi	52858991	52859004

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Hose

hose



DN	PN	pricked	øD	part no.
2	400 bar / 5,800 psi	no	5	9-946-02-00-012
2	630 bar / 9,100 psi	no	5	9-946-02-00-020
2	630 bar / 9,100 psi	yes	5	9-946-02-01-020

technical data of the hose

nominal diameter	DN 2	DN 2	DN 2
nominal pressure	400 bar	630 bar	630 bar
inner material	Hytrel®	Hytrel®	Hytrel®
reinforcement material	polyester fibre	aramid fibre	aramid fibre
cover material	PA	PA	PA - pricked
max. working pressure	400 bar	630 bar	630 bar
min. bursting pressure	1200 bar	1890 bar	1890 bar
min. bending radius at working pressure	20 mm	20 mm	20 mm
inner diameter	2.1 mm	2.1 mm	2.1 mm
outer diameter	5 mm	5 mm	5 mm
weight / meter	16 g	16 g	16 g
temperature strength	-40 °C to +100 °C*	-40 °C to +100 °C*	-40 °C to +100 °C
number for the type of hose	970	971	975
crimping diameter	$7.0^{+0,.}$	$7.0^{+0.1}$	$7.0^{+0.1}$

*for water and hydrous media up to +70 °C

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Hose Assembly

construction of the SPRADOW order number for hose assemblies

Application:

IC-Fluid Power, Inc. stocks select hose components. This can be found in the table with M16x2 hoses below. These hoses are made-to-order and can be at any length required. For hose assemblies that fall outside of this, the hoses can be ordered as-required and will use the part numbers as described in the hose assembly part numbering schematic below. If a specific hose end is required that is not found in the catalog, please contact IC-Fluid Power, Inc. with your request. IC-Fluid Power, Inc. only stocks pricked hose which is suitable for both gas and liquid applications. Furthermore, hose assemblies are rated to 630 bar / 9,100 psi

Hose Assembly Part Numbering:

DN2P-XX-YY-LLLL-ZZ

DN2: Hose size. (See page 54)
P: Pricked hose. Omit for non-pricked hose. Pricked hose stocked at IC and is suitable for most fluid and gas applications.
XX & YY: These represent the type of fittings on each end of the hose respectively. On the following pages you will find a two-digit number in the the column labeled "Nr."
LLLL: Length of hose in inches
ZZ: Used for special options such as "SS" for stainless steel

M16x2 Hoses

IC Number	Description
H992-XXXX	Spradow Hose Assembly: Female M16x2 on Both Ends with DN2 Hose
H993-XXXX	Spradow Hose Assembly: Female M16x2 to Female 1/4" NPT with DN2 Hose
H994-XXXX	Spradow Hose Assembly: Female 7/16-20 JIC 37° Flare Swivel Both Ends w/ DN2 Hose
H995-XXXX	Spradow Hose Assembly: Female 7/16-20 JIC Swivel to Female 1/4" NPT with DN2 Hose
H996-XXXX	Spradow Hose Assembly: Female M16x2 to Female 7/16-20 #4 JIC 37° Flare with DN2 Hose
H997-XXXX	Spradow Hose Assembly: Female M16x2 to Nipple with DN2 Hose
H998-XXXX	Spradow Hose Assembly: Female M16x2 to Male 1/8" NPT with DN2 Hose
H999-XXXX	Spradow Hose Assembly: Female 1/4" NPT to Female 1/4" NPT with DN2 Hose

XXXX Represents hose length in inches.

M16 x 1.5 Hoses

Available by special order. Please contact IC-Fluid Power with your request.

S12 x 1.5 Hoses

Available by special order. Please contact IC-Fluid Power with your request.

STECK Hoses

Available by special order. Please contact IC-Fluid Power with your request.

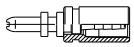
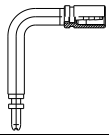
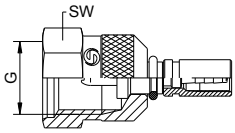
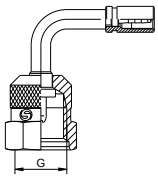
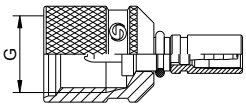
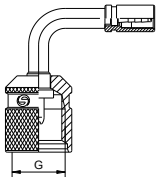
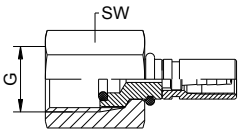
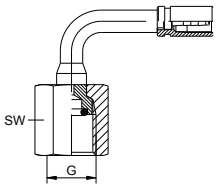
technical data of the hose fittings

material	steel, 1.0718 (stainless steel upon request)
sealings	NBR (other material upon request)

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Hose end Fittings

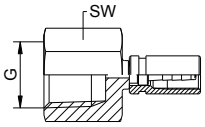
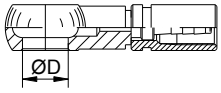
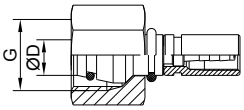
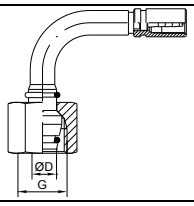
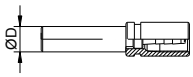
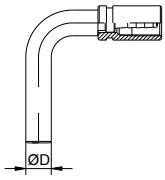
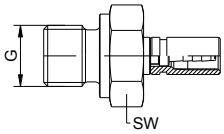
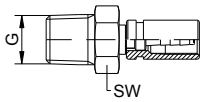
connectors for hose

view	Nr.	G	SW / øD	DN	with ferrule	without ferrule	description
	01			2	2-970-01-00-001-CF	2-971-01-00-001-CF	connector for test coupling series: Steck incl. strap
	16			2	2-970-16-00-001-CF	2-971-16-00-001-CF	connector for test coupling series: Steck 90° elbow incl. strap
	03	M16x2	19	2	2-970-03-02-001-CF	2-971-03-02-001-CF	connector for test coupling metal cap type A (universal) incl. strap
	09	M16x1,5	19	2	2-970-09-02-001	2-971-09-02-001	
	0J	M16x2	19	2	2-970-0J-02-001-CF	2-971-0J-02-001-CF	connector for test coupling metal cap type A (universal) 90° elbow incl. strap
	0Z	M16x1,5	19	2	2-970-0Z-02-001	2-971-0Z-02-001	
	04	M16x2		2	2-970-04-02-001-CF	2-971-04-02-001-CF	connector for test coupling metal cap type B (round) incl. strap
	10	M16x1,5		2	2-970-10-02-001	2-971-10-02-001	
	12	S12x1,5		2	2-970-12-02-001-CF	2-971-12-02-001-CF	
	50	M16x2		2	2-970-50-02-001-CF	2-971-50-02-001-CF	connector for test coupling metal cap type B (round) 90° elbow incl. strap
	61	M16x1,5		2	2-970-61-02-001	2-971-61-02-001	
	57	S12x1,5		2	2-970-57-02-001-CF	2-971-57-02-001-CF	
	02	G 1/4	17	2	2-970-02-02-004-CF	2-971-02-02-004-CF	pressure gauge connector with Whitworth - thread sealing to pressure gauge by o-ring
	25	G 1/2	27	2	2-970-25-02-001-CF	2-971-25-02-001-CF	
	58	G 1/4	17	2	2-970-58-02-001-CF	2-971-58-02-001-CF	pressure gauge connector with Whitworth - thread sealing to pressure gauge by o-ring 90° elbow
	54	G 1/2	27	2	2-970-54-02-001-CF	2-971-54-02-001-CF	

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Hose end Fittings

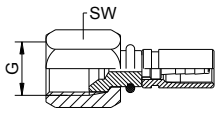
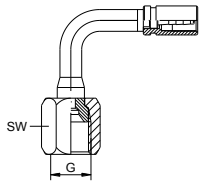
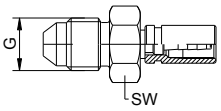
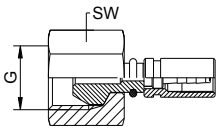
connectors for hose

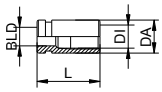
view	no.	G	SW / øD	DN	with ferrule	without ferrule	description
	26	1/4 NPT	17	2	2-970-26-00-001-CF	2-971-26-00-001-CF	pressure gauge connector with NPT-thread
	27	1/2 NPT	27	2	2-970-27-00-001-CF	2-971-27-00-001-CF	
	75		8	2	2-970-75-00-001-CF	2-971-75-00-001-CF	ring connection to hollow screw (RGN)
	19	M12x1,5	6L	2	2-970-19-02-001-CF	2-971-19-02-001-CF	seal cone with o-ring and swivel nut for 24° cone fitting (DKO)
	20	M14x1,5	6S	2	2-970-20-02-001-CF	2-971-20-02-001-CF	
	21	M14x1,5	8L	2	2-970-21-02-001-CF	2-971-21-02-001-CF	
	22	M16x1,5	8S	2	2-970-22-02-001-CF	2-971-22-02-001-CF	
	23	M16x1,5	10L	2	2-970-23-02-001-CF	2-971-23-02-001-CF	
	24	M18x1,5	10S	2	2-970-24-02-001-CF	2-971-24-02-001-CF	
	44	M12x1,5	6L	2	2-970-44-02-001-CF	2-971-44-02-001-CF	seal cone with o-ring and swivel nut for 24° cone fitting (DKO) 90° elbow
	45	M14x1,5	6S	2	2-970-45-02-001-CF	2-971-45-02-001-CF	
	46	M14x1,5	8L	2	2-970-46-02-001-CF	2-971-46-02-001-CF	
	47	M16x1,5	8S	2	2-970-47-02-001-CF	2-971-47-02-001-CF	
	48	M16x1,5	10L	2	2-970-48-02-001-CF	2-971-48-02-001-CF	
	49	M18x1,5	10S	2	2-970-49-02-001-CF	2-971-49-02-001-CF	
	64		4	2	2-970-64-00-001-CF	2-971-64-00-001-CF	standpipe for use with nut and ring (BE) acc. to DIN 2353
	13		6	2	2-970-13-00-001-CF	2-971-13-00-001-CF	
	15		8	2	2-970-15-00-001-CF	2-971-15-00-001-CF	
	28		6	2	2-970-28-00-001-CF	2-971-28-00-001-CF	standpipe for use with nut and ring (BE) acc. to DIN 2353 90° elbow
	94		8	2	2-970-94-00-001-CF	2-971-94-00-001-CF	
	32	M12x1,5	17	2	2-970-32-00-001-CF	2-971-32-00-001-CF	connector with male thread (AGM/AGR) acc. to DIN 3852
	33	G 1/8 A	14	2	2-970-33-00-001-CF	2-971-33-00-001-CF	
	34	G 1/4 A	19	2	2-970-34-00-001-CF	2-971-34-00-001-CF	
	35	1/8 NPT	12	2	2-970-35-00-001-CF	2-971-35-00-001-CF	connector with male thread (AGN) acc. to ANSI-Norm
	36	1/4 NPT	17	2	2-970-36-00-001-CF	2-971-36-00-001-CF	

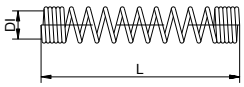
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Hose end Fittings

connectors for hose

view	no.	G	SW / øD	DN	with ferrule	without ferrule	description
	41	7/16 UNF	14	2	2-970-41-02-001-CF	2-971-41-02-001-CF	connector to fit male connection acc. to SAE J514 (DKJ)
	42	1/2 UNF	17	2	2-970-42-02-001-CF	2-971-42-02-001-CF	
	43	9/16 UNF	19	2	2-970-43-02-001-CF	2-971-43-02-001-CF	
	0K	7/16 UNF	14	2	2-970-0K-02-001-CF	2-971-0K-02-001-CF	connector to fit male connection acc. to SAE J514 (DKJ) 90° elbow
	1E	9/16 UNF	19	2	2-970-1E-02-001-CF	2-971-1E-02-001-CF	
	37	7/16 UNF	14	2	2-970-37-00-001-CF	2-971-37-00-001-CF	connector with male thread acc. to SAE J514 (AGJ)
	38	1/2 UNF	17	2	2-970-38-00-001-CF	2-971-38-00-001-CF	
	39	9/16 UNF	19	2	2-970-39-00-001-CF	2-971-39-00-001-CF	
	60	G1/8	14	2	2-970-60-02-001-CF	2-971-60-02-001-CF	connector with 60° cone (DKR) acc. BS5200
	40	G1/4	17	2	2-970-40-02-001-CF	2-971-40-02-001-CF	

	L	DA	DI	BLD	PM	DN	part no.	
	15	8	5,6	4,5	$7^{+0,1}$	2	4-999-03-01-160-CF	ferrule

	L	DI	DN	part no.	
	50	7	2	4-946-00-05-020	bend protection

	DN	part no.	
	2	4-934-00-08-170	strap

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Adaptor and Accessories

standpipe fitting with female thread M10x1

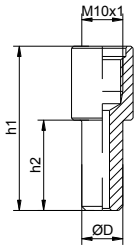


fig. 1

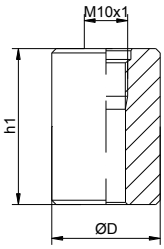
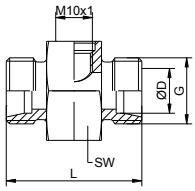


fig. 2

tube ØD	h1	h2	fig.	part number
6	38	20	1	4-922-03-01-430-CF
8	38	20	1	4-922-03-01-440-CF
10	40	22	1	4-922-03-01-450-CF
12	40	22	1	4-922-03-01-460-CF
14	40	22	1	4-922-03-01-470-CF
15	28		2	4-922-03-01-480-CF
16	28		2	4-922-03-01-490-CF
18	28		2	4-922-03-01-500-CF
20	30		2	4-922-03-01-510-CF
22	30		2	4-922-03-01-520-CF
25	36		2	4-922-03-01-530-CF
28	32		2	4-922-03-01-540-CF
30	41		2	4-922-03-01-550-CF
35	42		2	4-922-03-01-560-CF
38	48		2	4-922-03-01-570-CF
42	45		2	4-922-03-01-580-CF

straight fitting with female thread M10x1

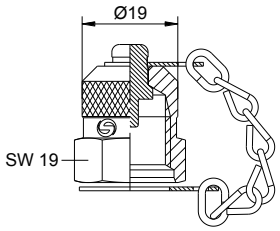


type	PN	tube ØD	L	SW	G	type GE without nut and ring part number	type GE with mounted nut and ring part number
L	315	6	35	22	M12x1,5	2-921-00-00-011-CF	2-921-00-00-010-CF
		8	35	24	M14x1,5	2-921-00-00-031-CF	2-921-00-00-030-CF
		10	37	24	M16x1,5	2-921-00-00-051-CF	2-921-00-00-050-CF
		12	37	27	M18x1,5	2-921-00-00-071-CF	2-921-00-00-070-CF
		15	39	30	M22x1,5	2-921-00-00-101-CF	2-921-00-00-100-CF
		18	39	32	M26x1,5	2-921-00-00-121-CF	2-921-00-00-120-CF
	160	22	43	36	M30x2	2-921-00-00-141-CF	2-921-00-00-140-CF
		28	43	41	M36x2	2-921-00-00-161-CF	2-921-00-00-160-CF
		35	47	46	M45x2	2-921-00-00-181-CF	2-921-00-00-180-CF
		42	47	55	M52x2	2-921-00-00-201-CF	2-921-00-00-200-CF
S	630	6	39	24	M14x1,5	2-921-00-00-021-CF	2-921-00-00-020-CF
		8	39	24	M16x1,5	2-921-00-00-041-CF	2-921-00-00-040-CF
		10	39	24	M18x1,5	2-921-00-00-061-CF	2-921-00-00-060-CF
		12	39	24	M20x1,5	2-921-00-00-081-CF	2-921-00-00-080-CF
		14	43	27	M22x1,5	2-921-00-00-091-CF	2-921-00-00-090-CF
	400	16	43	30	M24x1,5	2-921-00-00-111-CF	2-921-00-00-110-CF
		20	47	32	M30x2	2-921-00-00-131-CF	2-921-00-00-130-CF
		25	51	41	M36x2	2-921-00-00-151-CF	2-921-00-00-150-CF
		30	55	46	M42x2	2-921-00-00-171-CF	2-921-00-00-170-CF
	315	38	61	55	M52x2	2-921-00-00-191-CF	2-921-00-00-190-CF

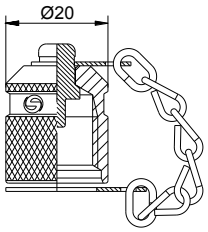
Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Adaptor and Accessories

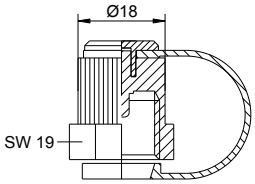
caps
complete with chain / strap



metal cap type A (FA)
fig. 1



metal cap type B (FB)
fig. 2



plastic cap (FAK)
fig. 3

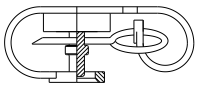
G	material	part number (FA)	part number (FB)	part number (FAK)
M16x2	steel	2-910-00-00-560-CF	2-910-00-00-550-CF	-
M16x2	stainless steel	2-910-00-00-600	2-910-00-00-570	-
M16x2	plastic	-	-	2-911-00-00-020
M16x1,5	steel	2-910-00-00-260	2-910-00-00-580	-
M16x1,5	stainless steel	2-910-00-00-590	-	-
M16x1,5	plastic	-	-	2-911-00-00-100
S12x1,5	steel	-	2-910-00-00-620-CF	-
S12x1,5	stainless steel	-	-	-
S12x1,5	plastic	-	-	2-911-00-00-210 (rund)

The caps made from steel and stainless steel are also designed for the use with vibration security.
The vibration security can be ordered with the following numbers.

made from NBR - 6-936-00-06-570

made from FKM - 6-936-00-07-570

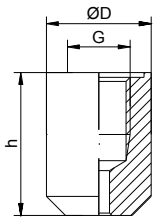
plug for series Steck
complete with security pin



plug for series Steck

G	material	part number
Steck	plastic / steel	2-915-00-00-010-CF

weld-on nozzle

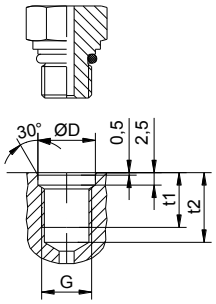
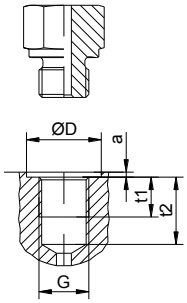
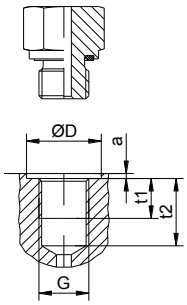


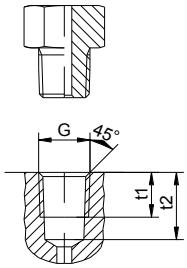
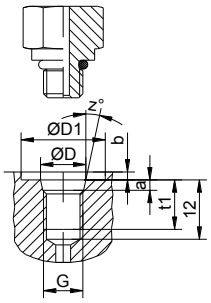
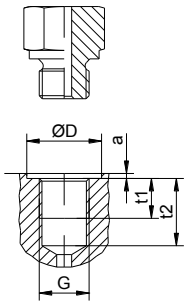
Ø D	h	G	part number	stainless steel part number
22	30	G1/4	4-921-00-01-020	4-921-00-04-020

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Annex

port connection and seals

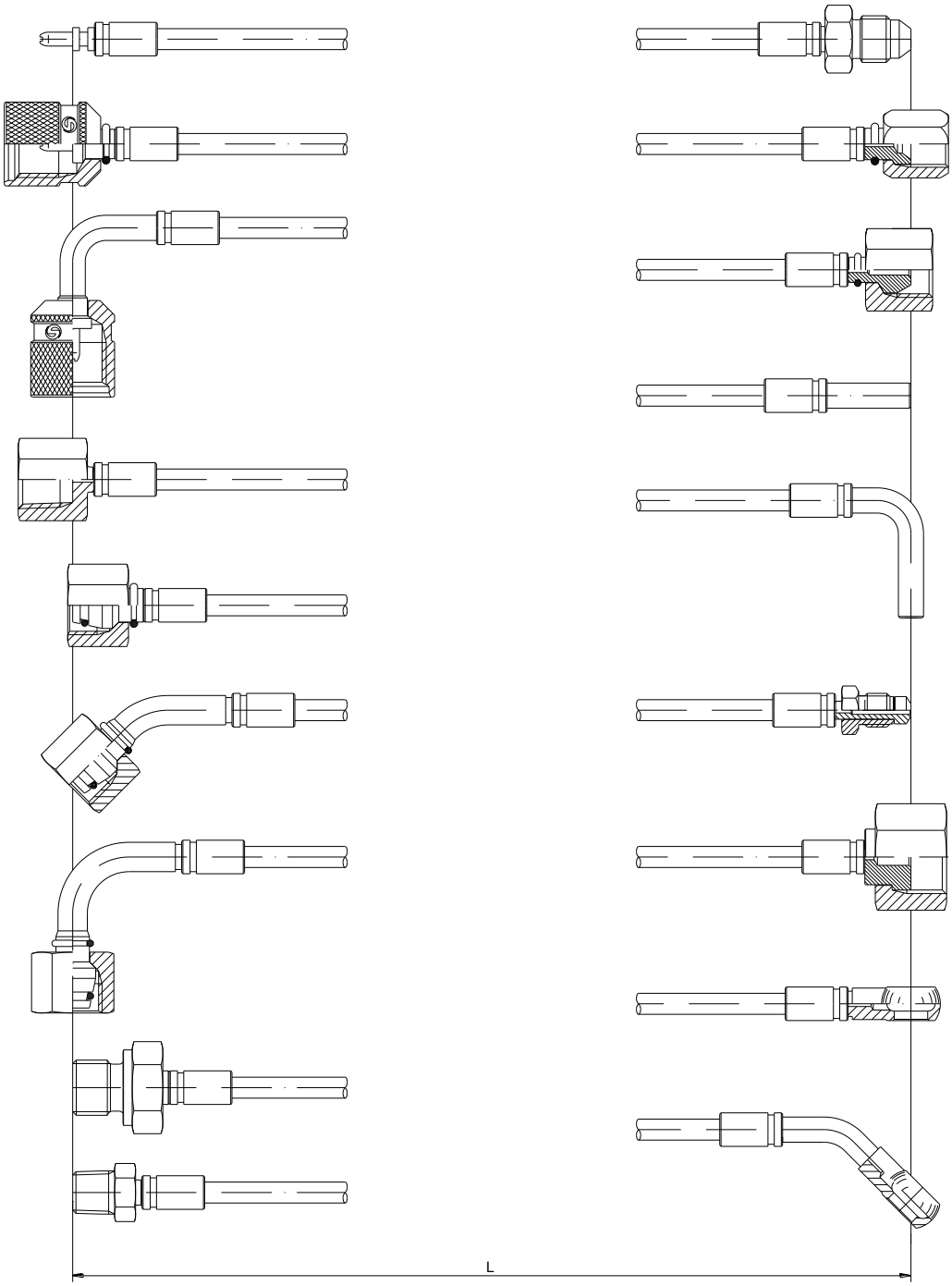
typ	figure	G	øD	a	t1	t2
1		M 8x1	9,5		11	14
		M 10x1	11,5		11	14
		M 10x1,25	11		10	14
2		M 8x1	13	1	8	10
		M 10 x 1	15	1	8	10
		M 12 x 1,5	18	1,5	12	15
		M 14 x 1,5	20	1,5	12	15
		M 16 x 1,5	23	1,5	12	15
		M 18 x 1,5	25	2	12	15
		M 20 x 1,5	27	2	14	17
		M 22 x 1,5	28	2,5	14	17
		M 26 x 1,5	32	2,5	16	19
		M 27 x 2	33	2,5	16	20
		M 33 x 2	40	2,5	18	22
		M 42 x 2	50	2,5	20	24
		M 48 x 2	56	2,5	22	26
		G 1/8	15	1	8	10,5
		G 1/4	20	1,5	12	15,5
		G 3/8	23	2	12	15,5
		G 1/2	28	2,5	14	18,5
		G 3/4	33	2,5	16	20
		G 1	40	2,5	18	23
		G 1 1/4	50	2,5	20	25
		G 1 1/2	56	2,5	22	27
3		M 10 x 1	15	1	8	10
		M 10x1,25	18	1,5	10	15
		M 12 x 1,5	18	1,5	12	15
		M 14 x 1,5	20	1,5	12	15
		M 16 x 1,5	23	1,5	12	15
		M 18 x 1,5	25	2	12	15
		M 20 x 1,5	27	2	14	17
		M 22 x 1,5	28	2,5	14	17
		M 26 x 1,5	32	2,5	16	19
		M 27 x 2	33	2,5	16	20
		M 33 x 2	40	2,5	18	22
		M 42 x 2	50	2,5	20	24
		M 48 x 2	56	2,5	22	26
		G 1/8	15	1	8	10,5
		G 1/4	20	1,5	12	15,5
		G 3/8	23	2	12	15,5
		G 1/2	28	2,5	14	18,5
		G 3/4	33	2,5	16	20
		G 1	40	2,5	18	23
		G 1 1/4	50	2,5	20	25
		G 1 1/2	56	2,5	22	27

typ	figure	G	øD1	øD	a	t1	t2	b	Z°
4		1/8 NPT				6,9	11,6		
		1/4 NPT				10	16,4		
		3/8 NPT				10,3	17,6		
		1/2 NPT				13,6	22,6		
		Rk 1/8				5,5	9,5		
		Rk 1/4				8,5	13,5		
		Rk 3/8				8,5	13,5		
		Suitable sealant has to be used.							
5		5/16-24 UNF	17	9,1	1,9	10	12	1,6	12°
		7/16-20 UNF	21	12,4	2,4	11,5	14	1,6	12°
		1/2-20 UNF	23	14	2,4	11,2	14	1,6	12°
		9/16-18 UNF	25	15,7	2,5	12,7	15,5	1,6	12°
		3/4-16 UNF	30	20,6	2,5	14,3	17,5	2,4	15°
		M14x1,5	21	15,8	2,4	11,5	14	1,5	15°
6		M10x1		15	1	8	10		
		G1/4		20	1,5	12	15,5		

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

Annex

definition of the hose assembly length



definition of the hose assembly length according DIN 20066

Other dimensions on request. We reserve the right to change the technical performance. All dimensions in mm.

IC-Fluid Power to Spradow Part Number Crossover List

TEST FITTINGS

IC NUMBER	DESCRIPTION	SPRADOW NUMBER	CATALOG PAGE
H900-0001	Spradow M8x1 Test Connector, Type 1 Sealing	1-906-20-21-600-CF	2
H900-0002	Spradow M18x1.5 Test Connector	1-906-26-30-600-CF	2
H900-0003	Spradow M20x1.5 Test Connector	1-906-51-30-600-CF	2
H900-0004	Spradow M22x1.5 Test Connector	1-906-27-30-600-CF	2
H900-0005	Spradow M26x1.5 Test Connector	1-911-52-30-600-CF	2
H900-0006	Spradow M27x2 Test Connector	1-911-53-30-600-CF	2
H900-0007	Spradow M33x2 Test Connector	1-911-54-30-600-CF	2
H900-0008	Spradow M42x2 Test Connector	1-911-55-30-600-CF	2
H900-0009	Spradow M48x2 Test Connector	1-911-56-30-600-CF	2
H900-0010	Spradow 5/16-24 UNF (#2 SAE) Test Connector	1-906-38-30-600-CF	2
H900-0011	Spradow 7/16-20 UNF (#4 SAE) Test Connector	1-906-39-30-600-CF	2
H900-0012	Spradow 9/16-18 UNF (#6 SAE) Test Connector	1-906-40-30-600-CF	2
H900-0013	Spradow 3/4-16 UNF (#8 SAE) Test Connector	1-906-41-30-600-CF	2
H900-0020	Spradow 1/8 NPT Test Connector	1-906-43-00-600-CF	2
H900-0021	Spradow 1/4 NPT Test Connector	1-906-44-00-600-CF	2
H900-0022	Spradow 3/8” NPT Test Connector	1-906-45-00-600-CF	2
H900-0023	Spradow 1/2” NPT Test Connector	1-906-46-00-600-CF	2
H900-0024	Spradow 1/4” NPT Test Connector, Female	1-980-44-60-020-CF	NA
H900-0025	Spradow M10x1 Test Connector	1-906-22-21-600-CF	2
H900-0026	Spradow M12x1.5 Test Connector	1-906-23-11-600-CF	2
H900-0027	Spradow M14x1.5 Test Connector	1-906-24-11-600-CF	2
H900-0028	Spradow M16x1.5 Test Connector	1-906-25-11-600-CF	2
H900-0030	Spradow G1/8 (BSPP) Parallel Thread	1-906-28-11-600-CF	2
H900-0031	Spradow G1/4 (BSPP) Parallel Thread	1-906-29-11-600-CF	2
H900-0032	Spradow G3/8 (BSPP) Parallel Thread Test Connector	1-906-30-11-600-CF	2
H900-0033	Spradow G1/2 (BSPP) Parallel Thread Test Connector	1-906-31-30-600-CF	2
H900-0034	Spradow G3/4 (BSPP) Parallel Thread Test Connector - Type 2 Sealing	1-906-32-30-600-CF	2
H900-0035	Spradow G1 (BSPP) Parallel Thread Test Connector	1-911-57-30-600-CF	2
H900-0036	Spradow G1-1/4 (BSPP) Parallel Thread Test Connector	1-911-58-30-600-CF	2
H900-0037	Spradow G1-1/2 (BSPP) Parallel Thread Test Connector	1-911-59-30-600-CF	2
H900-0038	Spradow R1/8 (BSPT) Taper Thread Test Connector	1-906-33-00-600-CF	2
H900-0039	Spradow R1/4 (BSPT) Taper Thread Test Connector	1-906-34-00-600-CF	2
H900-0045	Spradow 7/16-20 UNF (#4 SAE) Bulkhead Test Connector	1-980-39-60-090-CF	5
H900-0046	Spradow 7/16-20 UNF (#4 SAE) JIC 37° Flare Female Swivel to M16x2 Test Connector	1-920-39-20-600-CF	6
H900-0048	Spradow 9/16-18 UNF (#6 SAE) JIC 37° Flare Female Swivel to M16x2 Test Connector	1-920-40-20-600-CF	6
H900-0050	Spradow DKO M12x1.5 (6mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-00-20-600-CF	3
H900-0051	Spradow DKO M14x1.5 (8mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-02-20-600-CF	3
H900-0052	Spradow DKO M16x1.5 (10mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-04-20-600-CF	3
H900-0053	Spradow DKO M18x1.5 (12mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-06-20-600-CF	3
H900-0054	Spradow DKO M22x1.5 (15mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-09-20-600-CF	3
H900-0055	Spradow DKO M26x1.5 (18mm Tube) 24° Test Connector, Low Pressure 4,560 psi (315 bar)	1-908-11-00-600-CF	3
H900-0056	Spradow DKO M30x2 (22mm Tube) 24° Test Connector, Low Pressure 2,320 psi (160 bar)	1-908-13-00-600-CF	3
H900-0057	Spradow DKO M36x2 (28mm Tube) 24° Test Connector, Low Pressure 2,320 psi (160 bar)	1-908-15-00-600-CF	3
H900-0058	Spradow DKO M45x2 (35mm Tube) 24° Test Connector, Low Pressure 2,320 psi (160 bar)	1-908-17-00-600-CF	3
H900-0059	Spradow DKO M52x2 (42mm Tube) 24° Test Connector, Low Pressure 2,320 psi (160 bar)	1-908-19-00-600-CF	3
H900-0060	Spradow DKO M14x1.5 (6mm Tube) 24° Test Connector, High Pressure 9,135 psi (630 bar)	1-908-01-20-600-CF	3
H900-0061	Spradow DKO M16x1.5 (8mm Tube) 24° Test Connector, High Pressure 9,135 psi (630 bar)	1-908-03-20-600-CF	3
H900-0062	Spradow DKO M18x1.5 (10mm Tube) 24° Test Connector, High Pressure 9,135 psi (630 bar)	1-908-05-20-600-CF	3
H900-0063	Spradow DKO M20x1.5 (12mm Tube) 24° Test Connector, High Pressure 9,135 psi (630 bar)	1-908-07-20-600-CF	3
H900-0064	Spradow DKO M22x1.5 (14mm Tube) 24° Test Connector, High Pressure 9,135 psi (630 bar)	1-908-08-00-600-CF	3
H900-0065	Spradow DKO M24x1.5 (16mm Tube) 24° Test Connector, High Pressure 5,800 psi (400 bar)	1-908-10-00-600-CF	3
H900-0066	Spradow DKO M30x2 (20mm Tube) 24° Test Connector, High Pressure 5,800 psi (400 bar)	1-908-12-00-600-CF	3
H900-0067	Spradow DKO M36x2 (25mm Tube) 24° Test Connector, High Pressure 5,800 psi (400 bar)	1-908-14-00-600-CF	3
H900-0068	Spradow DKO M42x2 (30mm Tube) 24° Test Connector, High Pressure 5,800 psi (400 bar)	1-908-16-00-600-CF	3
H900-0069	Spradow DKO M52x2 (38mm Tube) 24° Test Connector, High Pressure 4,560 psi (315 bar)	1-908-18-00-600-CF	3
H900-0070	Spradow G1/4 (BSPP) 90° Elbow Direct Gauge Connector, no valve function	1-928-29-01-020-CF	18

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IC-Fluid Power to Spradow Part number Crossover List

TEST FITTINGS

IC NUMBER	DESCRIPTION	SPRADOW NUMBER	CATALOG PAGE
H900-0071	Spradow G1/2 (BSPP) 90° Elbow Direct Gauge Connector, no valve function	1-928-31-01-020-CF	18
H900-0072	Spradow 1/4" NPT 90° Elbow Direct Gauge Connector, no valve function	1-928-44-00-020-CF	18
H900-0073	Spradow 1/2" NPT 90° Elbow Direct Gauge Connector, no valve function	1-928-46-00-020-CF	18
H900-0080	Spradow G1/4 (BSPP) Bulkhead Direct Gage Connector, no valve function	1-918-29-01-240-CF	18
H900-0081	Spradow G1/2 (BSPP) Bulkhead Direct Gage Connector, no valve function	1-918-31-01-240-CF	18
H900-0082	Spradow 1/4" NPT Bulkhead Direct Gage Connector, no valve function	1-918-44-00-240-CF	18
H900-0083	Spradow 1/2" NPT Bulkhead Direct Gage Connector, no valve function	1-918-46-00-240-CF	18
H900-0084	Spradow G1/4 (BSPP) Direct Gage Connector, no valve function	1-927-29-01-020-CF	18
H900-0085	Spradow G1/2 (BSPP) Direct Gage Connector, no valve function	1-927-31-01-020-CF	18
H900-0086	Spradow 1/4" NPT Direct Gage Connector, no valve function	1-927-44-00-020-CF	18
H900-0087	Spradow 1/2" NPT Direct Gage Connector, no valve function	1-927-46-00-020-CF	18
H900-0089	Spradow Male M16x2 to Male M16x2 Test Hose Union, no valve function	1-980-48-00-020-CF	22
H900-0090	Spradow 7/16-20 UNF (#4 SAE) Gage Connector	1-918-39-00-240-CF	NA
H900-0091	Spradow 7/16-20 UNF (#4 SAE) Direct Gage Connector	1-927-39-00-020-CF	NA
H900-0097			NA
H900-0099	Spradow 5/8"- 14 BSF (HSP) System to M16x2 Adaptor	1-880-67-60-001-CF	20
H900-Cap	Spradow Metal Cap for Test Connector M16x2 with Chain, No Flats	2-910-00-00-550-CF	60

TEST FITTING OPTIONS

OPTIONS:	PART NUMBER DIFFERENCE:
Plastic Cap (-K)	1-xxx-xx-xx-100-xx
AFLAS Seals	1-xxx-xx-39-xxx-xx
EPDM Seals	1-xxx-xx-36-xxx-xx
FKM Seals	1-xxx-xx-02-xxx-xx
Stainless Steel	1-xxx-xx-xx-660-xx

About IC-Fluid Power

Your link to world-class European hydraulic engineering and technology

IC-Fluid Power, International Hydraulic Components Group, is a global hydraulic sourcing company with the mission of providing our customers easy access to high-quality and many times unique, German and European-sourced hydraulic components.

We are the connection point for sales, marketing, service and assembly in North America. Our core supply partners are a diverse collection of German and European hydraulic manufacturers. Many of our suppliers are small, family-run businesses that are the best at what they do. IC-Fluid Power, in partnership with them, offers flexibility, service, lead time and quality that provide a superior alternative to the “big box” suppliers.

Our resources are not limited to Europe. Through our partnerships and long-standing relationships with global suppliers, we provide our customers the ability to source cost-effective, high quality, off-the-shelf and custom hydraulic components from around the globe without investing significant time and resources developing an internal sourcing team, learning languages and cultures and establishing the direct relationships necessary to be successful.

International Hydraulic Partners

RELATIONSHIPS MATTER

IC-Fluid's success comes from the strong, long-standing relationships at the foundation of our supply chain that allow us to link customers to our high-quality, loyal, best-in-class global and domestic partners.

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