

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:

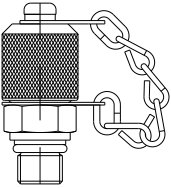
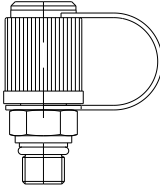
Zinc nickel, transparent, CrVI-free.

Pressure:

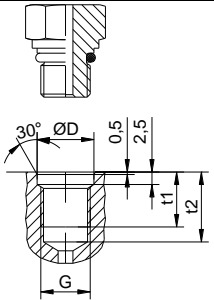
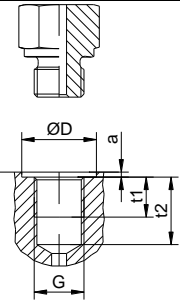
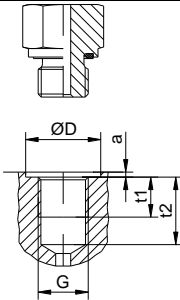
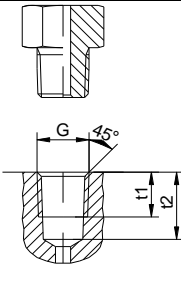
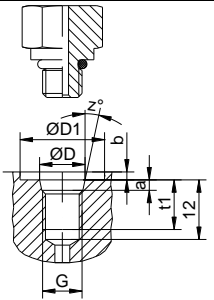
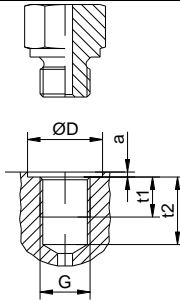
Maximum working pressure (PN) of the test couplings - 630 bar, at 3-fold security. Connection under pressure up to 400 bar. For the union pieces please observe the instructions given by the corresponding producer.



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.

test coupling series S12x1,5 – valve function by piston

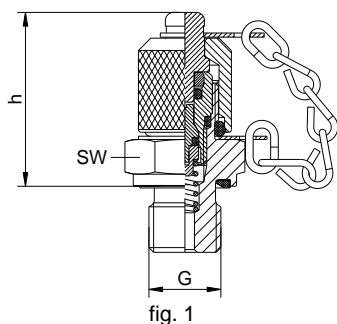


fig. 1

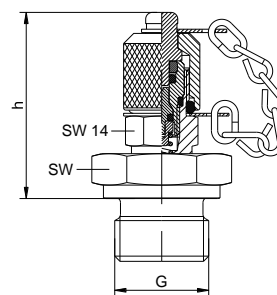


fig. 2

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

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

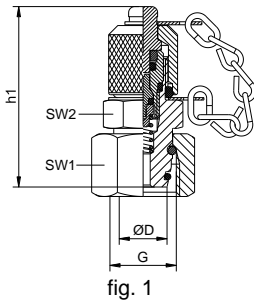


fig. 1

type DKO

test coupling with 24° taper adaptor (DIN3865 / ISO8434-1)

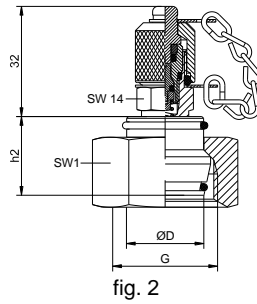


fig. 2

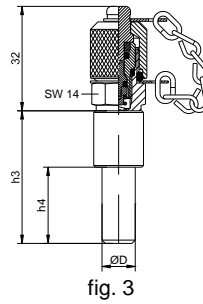


fig. 3

type BE

test coupling for compression ring fittings

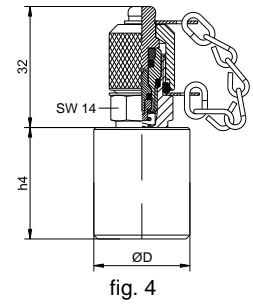


fig. 4

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
	160	18	-	22	-	28	32	-	M26x1,5	1-S08-11-00-680-CF	2	1-S09-11-00-681-CF	4
		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

 For yellow plastic cap **without vibration security**

 For metal cap **without vibration security**

Design with sealings made of FKM

replace 680 by 260

replace 680 by 290

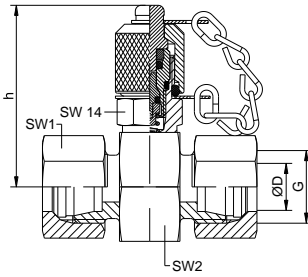
 replace 10-680 by 12-680 or
00-680 by 02-680

replace 681 by 261

replace 681 by 291

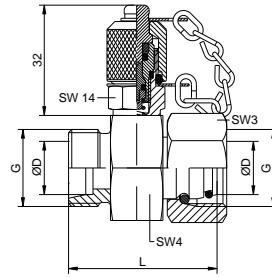
replace 00-681 by 02-681

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



type GE

(DIN2353 / ISO8434-1 and -4)



type DKOGE

(DIN2353 / ISO8434-1 and -4)

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
		16	M24x1,5	30	30	47	55	30	30	1-S10-10-00-680-CF	1-S10-30-00-681-CF
	400	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**

For metal cap **without vibration security**

Design with sealings made of FKM

replace 680 by 260

replace 680 by 290

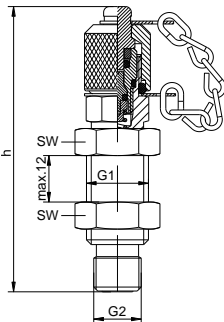
replace 00-680 by 02-680

replace 681 by 261

replace 681 by 291

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

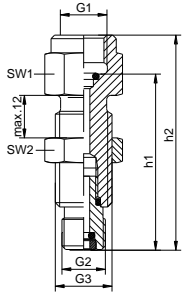
For metal cap **without vibration security** replace 68 by

29

29

S12x1,5 – connectors and adaptors

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



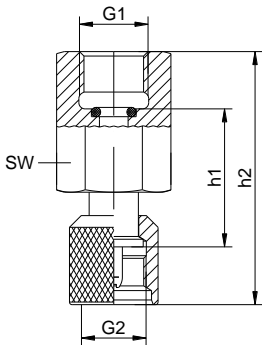
G1	SW1	SW2	h1	h2	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	50	61	S12x1,5	o-ring	1-918-29-01-430-CF	1-918-29-21-430-CF
G 1/2	27	24	53	70	S12x1,5	o-ring	1-918-31-01-430-CF	1-918-31-21-430-CF
1/4 NPT	19	19	-	62	S12x1,5	thread	1-918-44-00-430-CF	1-918-44-20-430-CF
1/2 NPT	27	24	-	70	S12x1,5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

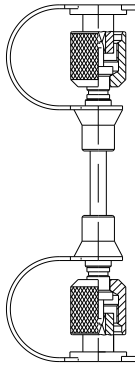
high pressure hose series S12x1,5

Max. working pressure:
up to 630 bar

Pressure / t° factor:
at 20°C 100%
at 40°C 95%
at 60°C 90%
at 80°C 80%
at 100°C 70%

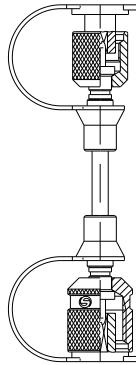
Further details please
see section hoses and
connectors

series S12x1,5



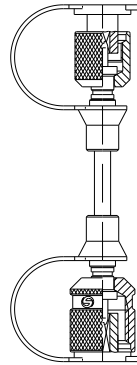
series S12x1,5

series S12x1,5



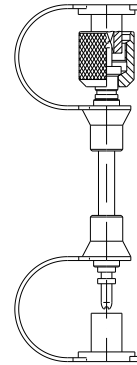
series M16x2

series S12x1,5



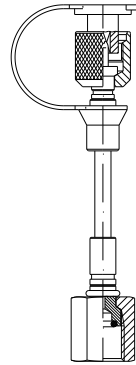
series M16x1,5

series S12x1,5



series Steck

series S12x1,5



pressure gauge
connector G 1/4²⁾

length L ¹⁾ acc. DIN 20066	part number				
200	1-971-12-12-010-CF	1-971-04-12-010-CF	1-971-10-12-010-CF	1-971-01-12-010-CF	1-971-02-12-010-CF
400	1-971-12-12-040-CF	1-971-04-12-040-CF	1-971-10-12-040-CF	1-971-01-12-040-CF	1-971-02-12-040-CF
630	1-971-12-12-060-CF	1-971-04-12-060-CF	1-971-10-12-060-CF	1-971-01-12-060-CF	1-971-02-12-060-CF
800	1-971-12-12-080-CF	1-971-04-12-080-CF	1-971-10-12-080-CF	1-971-01-12-080-CF	1-971-02-12-080-CF
1000	1-971-12-12-090-CF	1-971-04-12-090-CF	1-971-10-12-090-CF	1-971-01-12-090-CF	1-971-02-12-090-CF
1500	1-971-12-12-100-CF	1-971-04-12-100-CF	1-971-10-12-100-CF	1-971-01-12-100-CF	1-971-02-12-100-CF
2000	1-971-12-12-110-CF	1-971-04-12-110-CF	1-971-10-12-110-CF	1-971-01-12-110-CF	1-971-02-12-110-CF
2500	1-971-12-12-120-CF	1-971-04-12-120-CF	1-971-10-12-120-CF	1-971-01-12-120-CF	1-971-02-12-120-CF
3200	1-971-12-12-130-CF	1-971-04-12-130-CF	1-971-10-12-130-CF	1-971-01-12-130-CF	1-971-02-12-130-CF
4000	1-971-12-12-140-CF	1-971-04-12-140-CF	1-971-10-12-140-CF	1-971-01-12-140-CF	1-971-02-12-140-CF

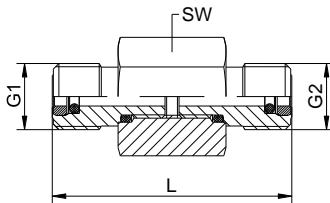
¹⁾ Other lengths upon request

Further connectors please see chapter
hoses and connectors

²⁾ Connection thread G¹/₂,
¹/₄ NPT and ¹/₂ NPT upon request.

The information on the definition of the hose assembly lengths, please see the annex.

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