

# M16x2-ball design

## Application:

Spradow test couplings are applied for the monitoring and control of 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:

Spradow test couplings have been developed for hydraulic oils and mineral oil 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); reinforcement: synthetic fibre

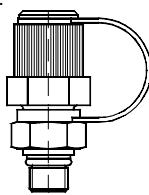
## Surface:

zinc nickel, transparent, CrVI-free.

## Pressure:

Max. working pressure of the test couplings - 630 bar, at 3-fold security.

For the union pieces (type DKO, BE and GE) please observe the instructions given by the corresponding producer.



The complete Spradow hydraulic series M16x2 is also available with universal cap (type A) made of steel or plastic.

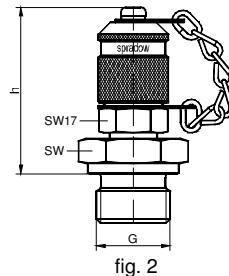
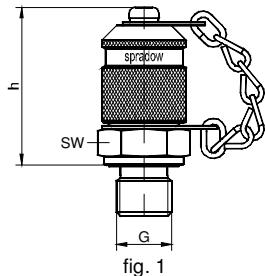
## port connection and seals

type 1			type 2			type 3			type 4			type 5										
G	øD	t1	øD	a	t1	øD	a	t1	G	t1	t2	øD1	øD	a	t1	t2						
M 8x1	9,5	11	14	M 8x1	13	1	8	10	M 10 x 1	15	1	8	10	1/8 NPT	6,9	11,6	5/16-24 UNF	17	9,1	1,9	10	12
M 10x1	11,5	11	14	M 10 x 1	15	1	8	10	M 10x1,25	18	1,5	10	15	1/4 NPT	10	16,4	7/16-20 UNF	21	12,4	2,4	11,5	14
				M 12 x 1,5	18	1,5	12	15	M 12 x 1,5	18	1,5	12	15	3/8 NPT	10,3	17,6	9/16-18 UNF	25	15,7	2,5	12,7	15,5
				M 14 x 1,5	20	1,5	12	15	M 14 x 1,5	20	1,5	12	15	Rk 1/8	5,5	9,5						
				M 16 x 1,5	23	1,5	12	15	M 16 x 1,5	23	1,5	12	15	Rk 1/4	8,5	13,5						
				M 18 x 1,5	25	2	12	15	M 18 x 1,5	25	2	12	15									
				M 20 x 1,5	27	2	14	17	M 20 x 1,5	27	2	14	17									
				M 22 x 1,5	28	2,5	14	17	M 22 x 1,5	28	2,5	14	17									
				M 26 x 1,5	32	2,5	16	19	M 26 x 1,5	32	2,5	16	19									
				M 27 x 2	33	2,5	16	20	M 27 x 2	33	2,5	16	20									
				M 33 x 2	40	2,5	18	22	M 33 x 2	40	2,5	18	22									
				M 42 x 2	50	2,5	20	24	M 42 x 2	50	2,5	20	24									
				M 48 x 2	56	2,5	22	26	M 48 x 2	56	2,5	22	26									
									G 1/8	15	1	8	10,5	G 1/8	15	1	8	10,5				
									G 1/4	20	1,5	12	15,5	G 1/4	20	1,5	12	15,5				
									G 3/8	23	2	12	15,5	G 3/8	23	2	12	15,5				
									G 1/2	28	2,5	14	18,5	G 1/2	28	2,5	14	18,5				
									G 3/4	33	2,5	16	20	G 3/4	33	2,5	16	20				
									G 1	40	2,5	18	23	G 1	40	2,5	18	23				
									G 1 1/4	50	2,5	20	25	G 1 1/4	50	2,5	20	25				
									G 1 1/2	56	2,5	22	27	G 1 1/2	56	2,5	22	27				

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

# M16x2-ball design

test coupling  
series: M16x2 – ball design

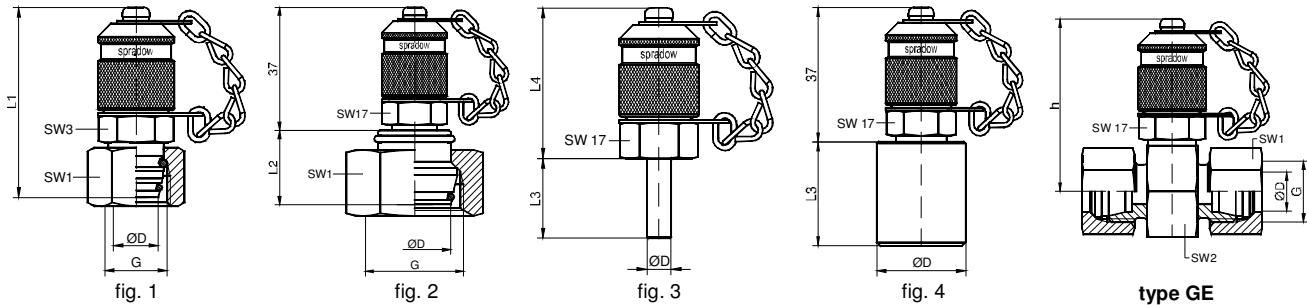


G	SW	h	fig.	sealing	part number (NBR)	part number (FKM)	VA
M8x1	17	37	1	o-ring type 1	1-906-20-21-600-CF	1-906-20-22-600-CF	
M8x1	17	37	1	metallic sealing type 2	1-906-20-30-600-CF	1-906-20-32-600-CF	
M10x1	17	37	1	o-ring type 1	1-906-22-21-600-CF	1-906-22-22-600-CF	
M10x1	17	37	1	metallic sealing type 2	1-906-22-30-600-CF	1-906-22-32-600-CF	◎
M10x1	17	37	1	soft sealing type 3	1-906-22-11-600-CF	1-906-22-12-600-CF	
M10x1,25	17	37	1	soft sealing type 3	1-906-49-11-600-CF	1-906-49-12-600-CF	
M12x1,5	17	37	1	metallic sealing type 2	1-906-23-30-600-CF	1-906-23-32-600-CF	
M12x1,5	17	37	1	soft sealing type 3	1-906-23-11-600-CF	1-906-23-12-600-CF	◎
M14x1,5	19	37	1	metallic sealing type 2	1-906-24-30-600-CF	1-906-24-32-600-CF	
M14x1,5	19	37	1	soft sealing type 3	1-906-24-11-600-CF	1-906-24-12-600-CF	◎
M16x1,5	22	37	1	metallic sealing type 2	1-906-25-30-600-CF	1-906-25-32-600-CF	
M16x1,5	22	37	1	soft sealing type 3	1-906-25-11-600-CF	1-906-25-12-600-CF	
M18x1,5	27	39	1	metallic sealing type 2	1-906-26-30-600-CF	1-906-26-32-600-CF	
M20x1,5	27	48	2	metallic sealing type 2	1-911-51-30-600-CF	1-911-51-32-600-CF	
M22x1,5	27	48	2	metallic sealing type 2	1-911-27-30-600-CF	1-911-27-32-600-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	17	37	1	metallic sealing type 2	1-906-28-30-600-CF	1-906-28-32-600-CF	
G 1/8	17	39	1	soft sealing type 3	1-906-28-11-600-CF	1-906-28-12-600-CF	◎
G 1/4	19	37	1	metallic sealing type 2	1-906-29-30-600-CF	1-906-29-32-600-CF	◎
G 1/4	19	37	1	soft sealing type 3	1-906-29-11-600-CF	1-906-29-12-600-CF	◎
G 3/8	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 3/4	36	49	2	metallic sealing type 2	1-911-32-30-600-CF	1-911-32-32-600-CF	
G 1	41	49	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	17	35	1	thread type 4	1-906-33-00-600-CF	1-906-33-02-600-CF	◎
Rk 1/4	17	35	1	thread type 4	1-906-34-00-600-CF	1-906-34-02-600-CF	◎
5/16-24 UNF	17	38	1	o-ring type 5	1-906-38-30-600-CF	1-906-38-32-600-CF	
7/16-20 UNF	17	38	1	o-ring type 5	1-906-39-30-600-CF	1-906-39-32-600-CF	
9/16-18 UNF	19	38	1	o-ring type 5	1-906-40-30-600-CF	1-906-40-32-600-CF	
1/8 NPT	17	36	1	thread type 4	1-906-43-00-600-CF	1-906-43-02-600-CF	◎
1/4 NPT	19	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	24	39	1	thread type 4	1-906-46-00-600-CF	1-906-46-02-600-CF	
metal cap type A (universal) with vibration security					1-9xx-xx-xx-590-CF	1-9xx-xx-x2-590-CF	
metal cap type B (round) <b>without vibration security</b>					1-9xx-xx-xx-020-CF	1-9xx-xx-x2-020-CF	
metal cap type A (universal) <b>without vibration security</b>					1-9xx-xx-xx-010-CF	1-9xx-xx-x2-010-CF	
plastic cap type A (universal) yellow <b>without vibration security</b>					1-9xx-xx-xx-100-CF	1-9xx-xx-x2-100-CF	

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

# M16x2-ball design

fitting with test coupling  
series: M16x2 – ball design



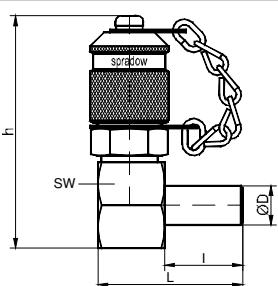
**type DKO**  
test coupling with 24° taper adapter

**type BE**  
test coupling for compression ring fittings

**type GE**  
test coupling  
with straight coupling

type	PN	pipe ØD	L1	L2	L3	L4	SW1	SW2	SW3	h	G	type DKO part number	fig.	type BE part number	Fig.	type GE part number	
L	315	6	53	20	38	14	22	17	48	M12x1,5	1-908-00-20-600-CF	1	1-909-00-00-601-CF	3	1-910-00-00-600-CF		
		8	53	20	38	17	24	17	49	M14x1,5	1-908-02-20-600-CF	1	1-909-02-00-601-CF	3	1-910-02-00-600-CF		
		10	50	22	40	19	24	17	49	M16x1,5	1-908-04-20-600-CF	1	1-909-04-00-601-CF	3	1-910-04-00-600-CF		
		12	50	22	37	22	27	17	50,5	M18x1,5	1-908-06-20-600-CF	1	1-909-06-00-601-CF	3	1-910-06-00-600-CF		
	160	15	51	22	37	27	30	19	52	M22x1,5	1-908-09-20-600-CF	1	1-909-09-00-601-CF	3	1-910-09-00-600-CF		
		18	22	28	37	32	32		53	M26x1,5	1-908-11-00-600-CF	2	1-909-11-00-601-CF	4	1-910-11-00-600-CF		
		22	22	30	37	36	36		55	M30x2	1-908-13-00-600-CF	2	1-909-13-00-601-CF	4	1-910-13-00-600-CF		
		28	24	32	37	41	41		57,5	M36x2	1-908-15-00-600-CF	2	1-909-15-00-601-CF	4	1-910-15-00-600-CF		
S	630	35	27	42	37	50	46		60	M45x2	1-908-17-00-600-CF	2	1-909-17-00-601-CF	4	1-910-17-00-600-CF		
		42	28	45	37	60	55		64,5	M52x2	1-908-19-00-600-CF	2	1-909-19-00-601-CF	4	1-910-19-00-600-CF		
		6	54	20	38	17	24	17	49	M14x1,5	1-908-01-20-600-CF	1	1-909-00-00-601-CF	3	1-910-01-00-600-CF		
		8	51	20	38	19	24	17	49	M16x1,5	1-908-03-20-600-CF	1	1-909-02-00-601-CF	3	1-910-03-00-600-CF		
	400	10	51	22	40	22	24	17	49	M18x1,5	1-908-05-20-600-CF	1	1-909-04-00-601-CF	3	1-910-05-00-600-CF		
		12	51	22	37	24	24	17	49	M20x1,5	1-908-07-20-600-CF	1	1-909-06-00-601-CF	3	1-910-07-00-600-CF		
		14	24	22	37	27	27		50,5	M22x1,5	1-908-08-00-600-CF	2	1-909-08-00-601-CF	3	1-910-08-00-600-CF		
		16	20	28	37	30	30		52	M24x1,5	1-908-10-00-600-CF	2	1-909-10-00-601-CF	3	1-910-10-00-600-CF		
315	315	20	25	30	37	36	32		53	M30x2	1-908-12-00-600-CF	2	1-909-12-00-601-CF	4	1-910-12-00-600-CF		
		25	27	36	37	46	41		57,5	M36x2	1-908-14-00-600-CF	2	1-909-14-00-601-CF	4	1-910-14-00-600-CF		
		30	29	41	37	50	46		60	M42x2	1-908-16-00-600-CF	2	1-909-16-00-601-CF	4	1-910-16-00-600-CF		
		38	32	48	37	60	55		64,5	M52x2	1-908-18-00-600-CF	2	1-909-18-00-601-CF	4	1-910-18-00-600-CF		
metal cap type A (universal) with vibration security												1-908-xx-x0-590-CF		1-909-xx-00-591-CF		1-910-xx-00-590-CF	
metal cap type B (round) without vibration security												1-908-xx-x0-020-CF		1-909-xx-00-021-CF		1-910-xx-00-020-CF	
metal cap type A (universal) without vibration security												1-908-xx-x0-010-CF		1-909-xx-00-011-CF		1-910-xx-00-010-CF	
plastic cap type A (universal) yellow without vibration security												1-908-xx-x0-100-CF		1-909-xx-00-101-CF		1-910-xx-00-100-CF	
design with sealings made of FKM												1-908-xx-x2-xxx-CF		1-909-xx-02-xxx-CF		1-910-xx-02-xxx-CF	

## 90 ° fitting type BE with test coupling series: M16x2 – ball design



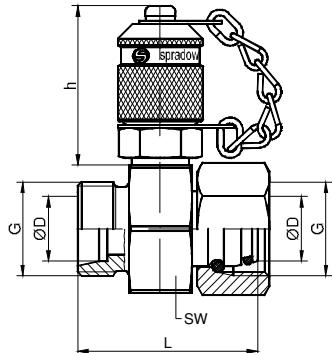
pipe ØD	I	L	SW	h	part number (NBR)	part number (FKM)
8	20	37	22	59	1-980-03-60-080-CF	1-980-03-60-081-CF
10	20	37	22	59	1-980-05-60-120-CF	1-980-05-60-121-CF

metal cap type A (universal) with vibration security	1-980-xx-59-xxx-CF	1-980-xx-59-xxx-CF
metal cap type B (round) without vibration security	1-980-xx-02-xxx-CF	1-980-xx-02-xxx-CF
metal cap type A (universal) without vibration security	1-980-xx-01-xxx-CF	1-980-xx-01-xxx-CF
plastic cap type A (universal) yellow without vibration security	1-980-xx-10-xxx-CF	1-980-xx-10-xxx-CF

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

# M16x2-ball design

test coupling with combination-fitting (GEDKO)  
series: M16x2 – ball design

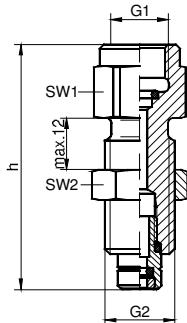


type	PN	tube ØD	G	L	h	SW	part number (NBR)	part number (FKM)	
L	315	6	M12x1,5				upon request	upon request	
		8	M14x1,5				upon request	upon request	
		10	M16x1,5				upon request	upon request	
		12	M18x1,5	41	37	27	1-910-26-00-601-CF	1-910-26-02-601-CF	
		15	M22x1,5	43	37	30	1-910-29-00-601-CF	1-910-29-02-601-CF	
	160	18	M26x1,5				upon request	upon request	
		22	M30x2				upon request	upon request	
		28	M36x2				upon request	upon request	
		35	M45x2				upon request	upon request	
		42	M52x2				upon request	upon request	
S	630	6	M14x1,5				upon request	upon request	
		8	M16x1,5				upon request	upon request	
		10	M18x1,5				upon request	upon request	
		12	M20x1,5				upon request	upon request	
		14	M22x1,5				upon request	upon request	
	400	16	M26x1,5				upon request	upon request	
		20	M30x2				upon request	upon request	
		25	M36x2				upon request	upon request	
		30	M45x2				upon request	upon request	
		315	38	M52x2			upon request	upon request	
metal cap type A (universal) with vibration security							1-910-xx-xx-591-CF	1-910-xx-x2-591-CF	
metal cap type B (round) <b>without vibration security</b>							1-910-xx-xx-021-CF	1-910-xx-x2-021-CF	
metal cap type A (universal) <b>without vibration security</b>							1-910-xx-xx-011-CF	1-910-xx-x2-011-CF	
plastic cap type A (universal) yellow <b>without vibration security</b>							1-910-xx-xx-101-CF	1-910-xx-x2-101-CF	

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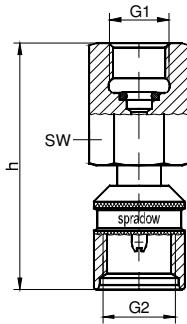
# M16x2-ball design

pressure gauge connector  
series: M16x2



G1	SW1	SW2	h	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	19	57	M16x2	o-ring	1-918-29-01-240-CF	1-918-29-21-240-CF
G 1/2	27	24	67	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	67	M16x2	thread	1-918-46-00-240-CF	1-918-46-20-240-CF

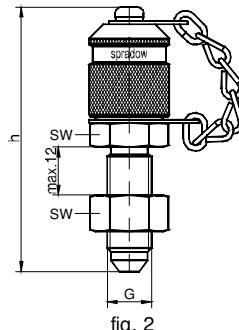
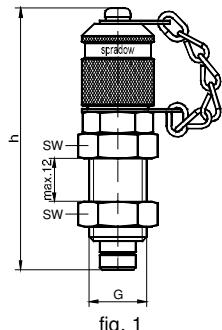
direct pressure gauge connector  
series: M16x2



G1	SW	h	G2	sealing	part number (NBR)	part number (FKM)
G 1/4	19	54	M16x2	o-ring	1-927-29-01-020-CF	1-927-29-21-020-CF
G 1/2	27	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	56	M16x2	thread	1-927-46-00-020-CF	1-927-46-20-020-CF

design with cap type A (universal) 1-927-xx-0x-010-CF 1-927-xx-2x-010-CF  
design with cap type C (hexagon) 1-927-xx-0x-030-CF 1-927-xx-2x-030-CF

bulkhead coupling  
series: M16x2 – ball design



G	SW	h	fig.	part number (NBR)	part number (FKM)
M16x2	19	75	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
			metal cap type A (universal) with vibration security	1-980-xx-59-xxx-CF	1-980-xx-59-xxx-CF
			metal cap type B (round) <b>without vibration security</b>	1-980-xx-02-xxx-CF	1-980-xx-02-xxx-CF
			metal cap type A (universal) <b>without vibration security</b>	1-980-xx-01-xxx-CF	1-980-xx-01-xxx-CF
			plastic cap type A (universal) yellow <b>without vibration security</b>	1-980-xx-10-xxx-CF	1-980-xx-10-xxx-CF

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

# M16x2-ball design

high pressure hose  
series: M16x2

Max. working pressure:  
630 bar

series: M16x2

series: M16x2

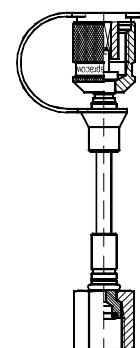
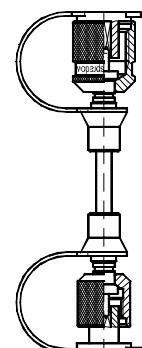
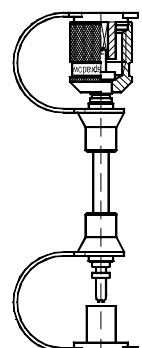
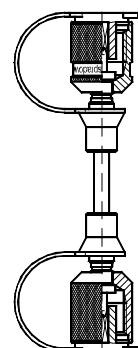
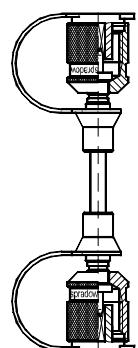
series: M16x2

series: M16x2

series: M16x2

Test hose:  
Nominal bore 2 mm  
Min. bend radius:  
20 mm

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



#### Hose construction

Hose core and cover:  
PA

Reinforcement:  
synthetic fibre

bursting pressure:  
1900 bar

series: M16x2

series: M16x1,5

series: plug-in

series: S12x1,5

pressure gauge  
connector G 1/4<sup>2)</sup>

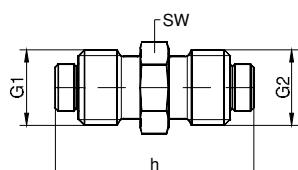
length L <sup>1)</sup> acc. DIN 20066				part number	
200	1-971-04-04-010-CF	1-971-04-10-010-CF	1-971-01-04-010-CF	1-971-04-12-010-CF	1-971-02-04-010-CF
400	1-971-04-04-040-CF	1-971-04-10-040-CF	1-971-01-04-040-CF	1-971-04-12-040-CF	1-971-02-04-040-CF
630	1-971-04-04-060-CF	1-971-04-10-060-CF	1-971-01-04-060-CF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

<sup>1)</sup> Other lengths on inquiry

Further connectors on page 33 f.

<sup>2)</sup> Connection thread G 1/2,  
1/4 NPT and 1/2 NPT upon request.

## hose connector series: 16x2



without valve function (check valve)

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

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

# S12x1,5-piston design

## Application:

Spradow test couplings are applied for the monitoring and control of 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:

Spradow test couplings have been developed for hydraulic oils and mineral oil 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)

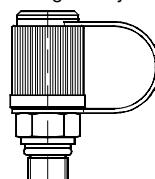
Hose: Polyamide (-35 °C to +100 °C); reinforcement: synthetic fibre

## Surface:

zinc nickel, transparent, CrVI-free.

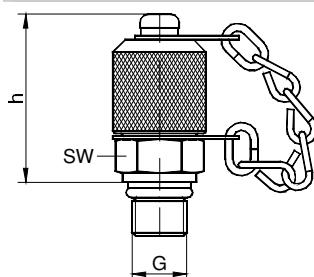
## Pressure:

Max. working pressure of the test couplings - 630 bar, at 3-fold security.  
For the union pieces (type DKO, BE and GE) please observe the instructions given by the corresponding producer.



The complete Spradow hydraulic series S12x1,5 is also available with plastic cap.

## test coupling series: S12x1,5



G	SW	h	sealing	part number (NBR)	part number (FKM)
M10x1	14	30	o-ring type 1	1-S06-22-21-680-CF	1-S06-22-22-680-CF
M12x1,5	17	33	soft sealing type 3	1-S06-23-11-680-CF	1-S06-23-12-680-CF
G 1/8	14	39	soft sealing type 3	1-S06-28-11-680-CF	1-S06-28-12-680-CF
G 1/4	19	33	soft sealing type 3	1-S06-29-11-680-CF	1-S06-29-12-680-CF
7/16-20 UNF	17	34	o-ring type 5	1-S06-39-30-680-CF	1-S06-39-32-680-CF
1/4 NPT	14	29	thread type 4	1-S06-44-00-680-CF	1-S06-44-02-680-CF

plastic cap yellow	1-S06-xx-xx-260-CF	1-S06-xx-x2-260-CF
metal cap without vibration security	1-S06-xx-xx-290-CF	1-S06-xx-x2-290-CF

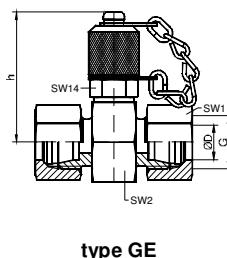
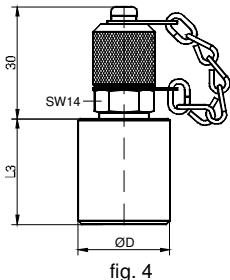
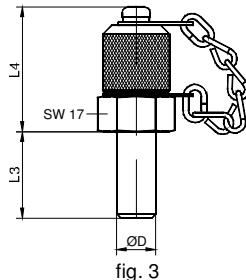
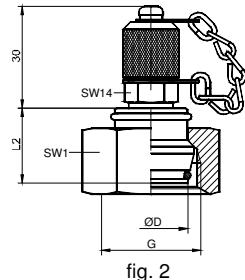
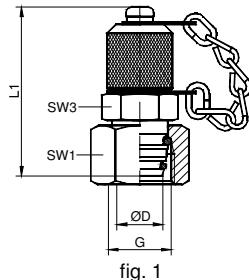
## port connection and seals

type 1				type 2				type 3				type 4				type 5						
G	øD	t1	t2	G	øD	a	t1	t2	G	øD	a	t1	t2	G	t1	t2	G	øD1	øD	a	t1	t2
M 10x1	11,5	11	14	G 1/4	20	1,5	12	15,5	M12x1,5	18	1,5	12	15	1/4 NPT	10	16,4	7/16-20 UNF	21	12,4	2,4	11,5	14
									G 1/8	15	1	8	10,5	Rk 1/4	8,5	13,5						
									G 1/4	20	1,5	12	15,5									

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

# S12x1,5-piston design

fitting with test coupling  
series: S12x1,5 – piston design



**type DKO**  
test coupling with 24° taper adapter

**type BE**  
test coupling for compression ring fittings

**type GE**  
test coupling  
with straight coupling

type	PN	tube ØD	L1	L2	L3	L4	SW1	SW2	SW3	h	G	type DKO part number	fig.	type BE part number	Fig.	type GE part number
			6	47	20	37	14	22	17	41	M12x1,5	1-S08-00-10-680-CF	1	1-S09-00-00-681-CF	3	1-S10-00-00-680-CF
L	315	8	47	20	37	17	24	17	42	M14x1,5	1-S08-02-10-680-CF	1	1-S09-02-00-681-CF	3	1-S10-02-00-680-CF	
		10	44	22	32	19	24	17	42	M16x1,5	1-S08-04-10-680-CF	1	1-S09-04-00-681-CF	3	1-S10-04-00-680-CF	
		12	44	22	30	22	27	17	43,5	M18x1,5	1-S08-06-10-680-CF	1	1-S09-06-00-681-CF	3	1-S10-06-00-680-CF	
		15	45	22	30	27	30	19	45	M22x1,5	1-S08-09-00-680-CF	1	1-S09-09-00-681-CF	3	1-S10-09-00-680-CF	
	160	18	22	28	30	32	32	46	M26x1,5	1-S08-11-00-680-CF	2	1-S09-11-00-681-CF	4	1-S10-11-00-680-CF		
		22	22	30	30	36	36	48	M30x2	1-S08-13-00-680-CF	2	1-S09-13-00-681-CF	4	1-S10-13-00-680-CF		
S	630	28	24	32	30	41	41	50,5	M36x2	1-S08-15-00-680-CF	2	1-S09-15-00-681-CF	4	1-S10-15-00-680-CF		
		35	27	42	30	50	46	53	M45x2	1-S08-17-00-680-CF	2	1-S09-17-00-681-CF	4	1-S10-17-00-680-CF		
		42	28	45	30	60	55	57,5	M52x2	1-S08-19-00-680-CF	2	1-S09-19-00-681-CF	4	1-S10-19-00-680-CF		
		6	48	20	37	17	24	42	M14x1,5	1-S08-01-10-680-CF	1	1-S09-00-00-681-CF	3	1-S10-01-00-680-CF		
	400	8	45	20	37	19	24	17	42	M16x1,5	1-S08-03-10-680-CF	1	1-S09-02-00-681-CF	3	1-S10-03-00-680-CF	
		10	45	22	32	22	24	17	42	M18x1,5	1-S08-05-10-680-CF	1	1-S09-04-00-681-CF	3	1-S10-05-00-680-CF	
	315	12	45	22	30	24	24	17	42	M20x1,5	1-S08-07-10-680-CF	1	1-S09-06-00-681-CF	3	1-S10-07-00-680-CF	
		14	24	22	30	27	27	43,5	M22x1,5	1-S08-08-00-680-CF	2	1-S09-08-00-681-CF	3	1-S10-08-00-680-CF		
		16	20	28	30	30	30	45	M24x1,5	1-S08-10-00-680-CF	2	1-S09-10-00-681-CF	3	1-S10-10-00-680-CF		
		20	25	30	30	36	32	46	M30x2	1-S08-12-00-680-CF	2	1-S09-12-00-681-CF	4	1-S10-12-00-680-CF		
	315	25	27	36	30	46	41	50,5	M36x2	1-S08-14-00-680-CF	2	1-S09-14-00-681-CF	4	1-S10-14-00-680-CF		
		30	29	41	30	50	46	53	M42x2	1-S08-16-00-680-CF	2	1-S09-16-00-681-CF	4	1-S10-16-00-680-CF		
		38	32	48	30	60	55	57,5	M52x2	1-S08-18-00-680-CF	2	1-S09-18-00-681-CF	4	1-S10-18-00-680-CF		
plastic cap yellow												1-S09-xx-00-261-CF		1-S10-xx-00-260-CF		
metal cap without vibration security												1-S09-xx-00-291-CF		1-S10-xx-00-290-CF		
design with sealings made of FKM												1-S09-xx-02-xxx-CF		1-S10-xx-02-xxx-CF		

## pressure gauge connector / direct pressure gauge connector series: S12x1,5

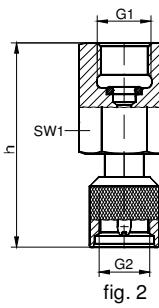
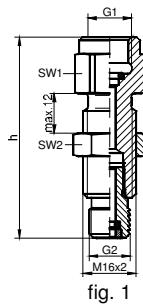


fig. 1

fig. 2

G1	SW1	SW2	h	G2	sealing	fig.	part number (NBR)	part number (FKM)
G 1/4	19	19	58	S12x1,5	o-ring	1	1-918-29-01-430-CF	1-918-29-21-430-CF
G 1/2	27	24	68	S12x1,5	o-ring	1	1-918-31-01-430-CF	1-918-31-21-430-CF
G 1/4	19		48	S12x1,5	o-ring	2	1-927-29-01-290-CF	1-927-29-21-290-CF
G 1/2	27		52	S12x1,5	o-ring	2	1-927-31-01-290-CF	1-927-31-21-290-CF

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

# S12x1,5-piston design

high pressure hose  
series: S12x1,5

Max. working pressure:  
630 bar

series: S12x1,5

series: S12x1,5

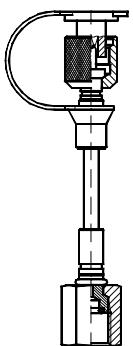
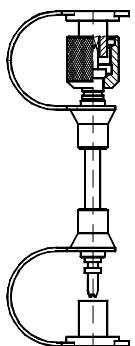
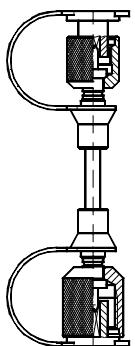
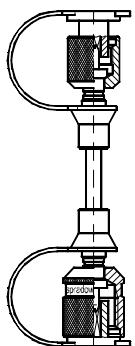
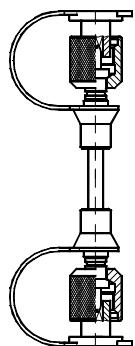
series: S12x1,5

series: S12x1,5

series: S12x1,5

Test hose:  
Nominal bore 2 mm  
Min. bend radius:  
20 mm

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



**Hose construction**  
Hose core and cover:  
PA  
Reinforcement:  
synthetic fibre  
bursting pressure:  
1900 bar

series: S12x1,5

series: M16x2

series: M16x1,5

series: plug-in

pressure gauge  
connector G 1/4<sup>2)</sup>

length L <sup>1)</sup> 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

<sup>1)</sup> Other lengths on inquiry

Further connectors on page 33 f.

<sup>2)</sup> Connection thread G 1/2,  
1/4 NPT and 1/2 NPT upon request.

Your notes:

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