

We make big things move
- worldwide!



HYDRAULICS - Measuring Systems



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

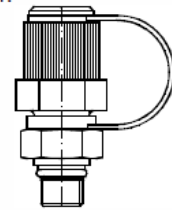
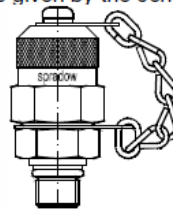
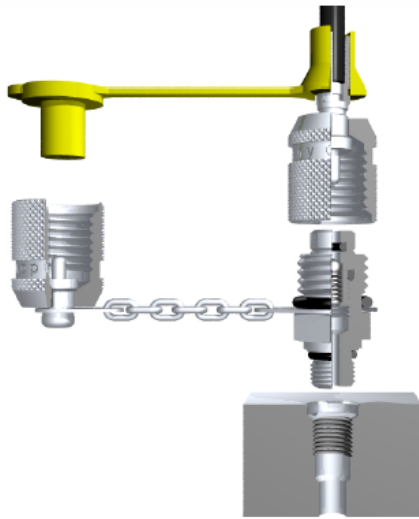
Surface:

CrVI-free.

Pressure:

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

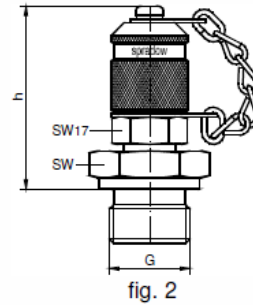
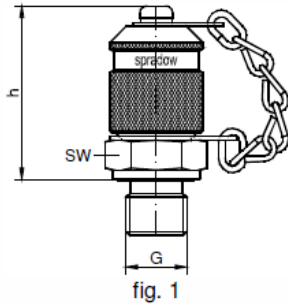
For the union pieces (type DKO, BE and GE) please observe the instructions given by the corresponding producer.



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	t2		G	øD	a	t1	t2	G	øD	a	t1	t2	G	t1	t2	G	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									
					M 16 x 1,5	23	1,5	12	15	M 16 x 1,5	23	1,5	12	15	R 1/8 taper	5,5	9,5						
					M 18 x 1,5	25	2	12	15	M 18 x 1,5	25	2	12	15	R 1/4 taper	8,5	13,5						
					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									



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	48	2	metallic sealing type 2	1-911-26-30-600-CF	1-911-26-32-600-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	48	2	metallic sealing type 2	1-911-31-30-600-CF	1-911-31-32-600-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	
R 1/8 taper	17	35	1	thread type 4	1-906-33-00-600-CF	1-906-33-02-600-CF	☺
R 1/4 taper	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	48	2	thread type 4	1-911-46-00-600-CF	1-911-46-02-600-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) without vibration security					1-9xx-xx-xx-020-CF	1-9xx-xx-x2-020-CF	
metal cap type A (universal) without vibration security					1-9xx-xx-xx-010-CF	1-9xx-xx-x2-010-CF	
plastic cap type A (universal) yellow without vibration security					1-9xx-xx-xx-100-CF	1-9xx-xx-x2-100-CF	

M16x2-ball design

high pressure hose
series: M16x2

Max. working pressure:
630 bar

series: M16x2

series: M16x2

series: M16x2

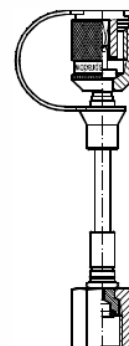
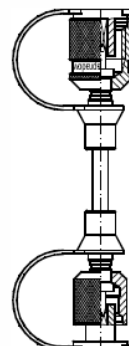
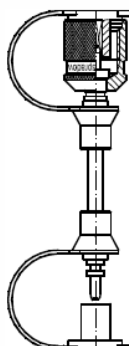
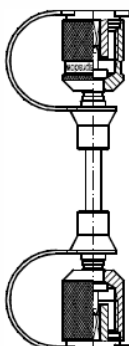
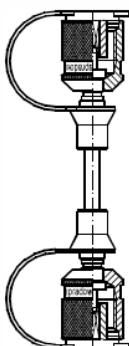
series: M16x2

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 ²⁾

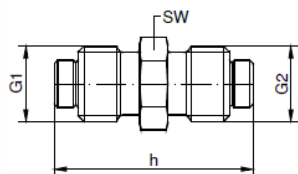
length L ¹⁾ acc. DIN 20066	part number				
200	1-971-04-04-010-CF	1-971-04-10-010-CF	1-971-01-04-010-CF	1-971-04-12-010-CF	1-971-02-04-010-CF
400	1-971-04-04-040-CF	1-971-04-10-040-CF	1-971-01-04-040-CF	1-971-04-12-040-CF	1-971-02-04-040-CF
630	1-971-04-04-060-CF	1-971-04-10-060-CF	1-971-01-04-060-CF	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

¹⁾ Other lengths on inquiry

Further connectors on page 24 f.

²⁾ 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.



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