

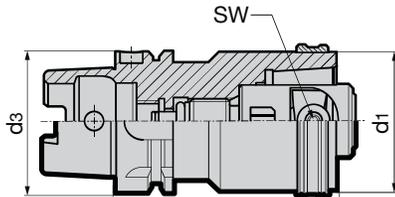
HSK-A/HSK-C extensions with MQL 4-point clamping sets

Product information

- suitable for MQL
- for single channel systems
- for holding HSK-A/C shanks to ISO 12164-1/DIN 69893-1

Scope of delivery

- incl. MQL 4-point clamping set Series no. 4930 and adaptor for extensions
- incl. brass lock ring Series no. 4953
- order coolant supply set Series no. 4949 separately:
- order MQL coolant supply set separately:
 - for automatic tool change Series no. 4939 (HSK32 Series no. 4508)
 - for manual tool change Series no. 4940 (HSK32 Series no. 4513)

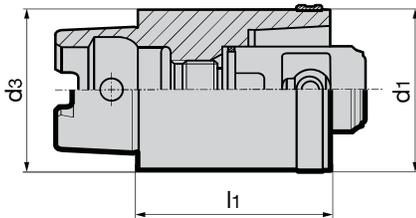


					Series no.	4350
HSK-A/HSK-C d ₁ / d ₃	l ₁ mm	SW	kg	Code no.	EDP Number	
32	60	2.5	0.30	60.032	9043500600320	
40	80	3.0	0.70	80.040	9043500800400	
50	80	4.0	1.00	80.050	9043500800500	
50	100	4.0	1.30	100.050	9043501000500	
63	100	5.0	2.10	100.063	9043501000630	
63	140	5.0	3.10	140.063	9043501400630	
80	120	6.0	4.20	120.080	9043501200800	
80	160	6.0	5.70	160.080	9043501600800	
100	140	8.0	7.70	140.080	9043501401000	

HSK-C extensions

Product information

- incl. clamping set Series no. 4958 for conventional cooling
- incl. brass lock ring Series no. 4953
- for holding HSK-A/C shanks to ISO 12164-1/DIN 69893-1



					Series no.	4351
HSK-C d ₁ / d ₃	l ₁ mm	SW	kg	Code no.	EDP Number	
25	40	2.5	0.14	40.025	9043510400250	
32	40	2.5	0.22	40.032	9043510400320	
40	50	3.0	0.44	50.040	9043510500400	
50	60	4.0	0.81	60.050	9043510600500	
63	80	5.0	1.74	80.063	9043510800630	

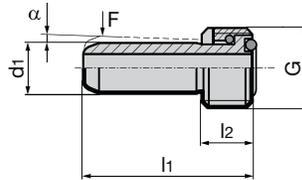
Coolant supply sets for conventional cooling

Product information

- leak-proof screwed connection tested to 80 bar
- to DIN 69895
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery

- incl. union nut and O-rings



Series no.

4949

for HSK-A	d ₁ mm	α°	F	G	l ₁ mm	l ₂ mm	EDP Number
32	6	1.2	5N	M10x1.0	26.0	5.5	9049490100320
40	8	1.4	5N	M12x1.0	29.5	7.5	9049490120400
50	10	1.3	6N	M16x1.0	33.0	9.5	9049490160500
63	12	1.3	6N	M18x1.0	36.5	11.5	9049490180630
80	14	1.4	7N	M20x1.5	40.0	13.5	9049490200800
100	16	1.4	7N	M24x1.5	44.0	15.5	9049490241000

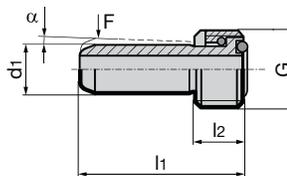
Coolant supply sets for conventional cooling with filter

Product information

- leak-proof screwed connection tested to 80 bar
- similar DIN 69895
- with filter for contamination-free cooling
- protects against tool breakage and eases error analysis
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery

- incl. union nut and O-rings
- 100µ stainless steel fabric filter



Series no.

4979

for HSK-A	d ₁ mm	α°	F	G	l ₁ mm	l ₂ mm	EDP Number
32	6	1.2	5N	M10x1	26.0	5.5	9049790100320
40	8	1.4	5N	M12x1	29.5	7.5	9049790120400
50	10	1.3	6N	M16x1	33.0	9.5	9049790160500
63	12	1.3	6N	M18x1	36.5	11.5	9049790180630
80	14	1.4	7N	M20x1.5	40.0	13.5	9049790200800
100	16	1.4	7N	M24x1.5	44.0	15.5	9049790241000

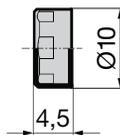
Data coding chip

Product information

- Identification systems BIS C
- for installation space to DIN 69 873
- data carrier read/write
- 511 bytes
- operating temperature 0...+70
- protection class to IEC
- product data exchange acc. to DIN 4000
- glued in bore Ø10 H11

Scope of delivery

- data coding chip
- installation in chuck and additional balancing can be ordered separately



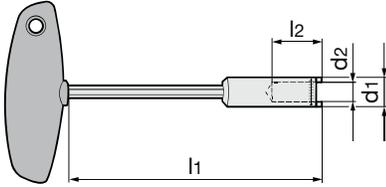
Series no.

4955

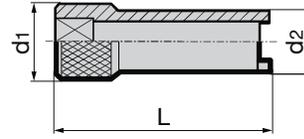
coding chip BIS C-122-04/L	EDP Number
10 x 4.5	9049550100000

Product information

- with T-handle
- for coolant supply sets for conventional cooling and MQL coolant supply unit

**Product information**

- suitable for torque wrench
Series no. 4915, drive 3/8"
- for coolant supply sets



Series no. 4911

for HSK	d1 mm	d2 mm	l1 mm	l2 mm	EDP Number
32	11,0	6,1	128	23,0	9049110240000
40	13,0	8,1	134	26,0	9049110300000
50	15,0	10,1	134	28,0	9049110380000
63	17,0	12,1	135	31,5	9049110480000
80	20,0	14,1	138	32,0	9049110600000
100	22,5	16,1	138	35,0	9049110750000

Series no. 4910

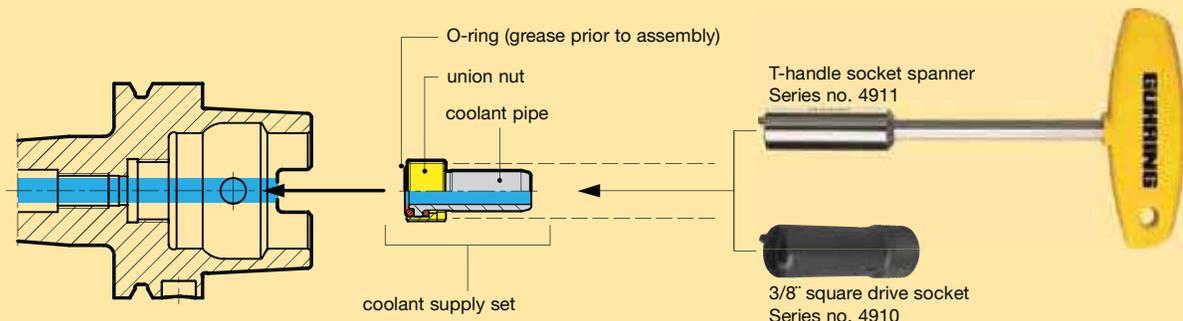
for HSK	MA Nm	d1 mm	d2 mm	L mm	EDP Number
32	7	20	14	60	9049100240000
40	11	20	16	60	9049100300000
50	15	20	18	60	9049100380000
63	20	20	18	60	9049100480000
80	25	20	20	75	9049100600000
100	30	22	22	80	9049100750000

Installation of coolant supply sets 4949/4979

1. The HSK holder must be clean, free of swarf and undamaged.
2. Grease the O-rings prior to assembly.
3. Centrally insert the complete coolant supply set (coolant pipe, union nut and 2 O-rings) in the HSK with the assistance of the socket spanner.
4. Screw in the coolant supply set/coolant supply unit and tighten (see table for torque figures)
5. Check coolant pipe for radial mobility.

Torque figures

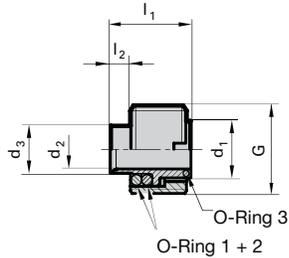
for HSK	MA Nm
32	7
40	11
50	15
63	20
80	25
100	30



MQL 1-channel coolant supply set HSK-A (filler)

Product information

- for MQL tool holders
(hydraulic chucks and shrink fit chucks)
to company standard
- for 1-channel-systems
- for tool holders with manual tool change
- optimal seal for MQL clamping set



Series no. 4940

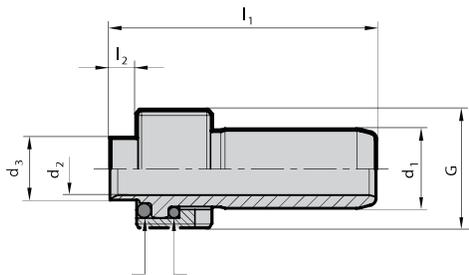
for HSK-A	d_1 mm	d_2 mm	d_3 mm	l_1 mm	l_2 mm	G	O-ring 1 & 2 Viton 75	O-ring 3 Viton 80	EDP Number
32	5.8	4.0	4.8	18.7	12.5	M10x1.0	5.0x1.2	–	9049400100320
40	7.6	5.4	6.8	13.8	5.5	M12x1.0	7.5x1.5	6.0x0.5	9049400120400
50	9.6	6.5	7.8	15.8	5.5	M16x1.0	9.0x2.0	7.0x1.0	9049400160500
63	11.6	8.0	9.7	16.3	4.0	M18x1.0	10.0x2.5	9.0x1.0	9049400180630
80	13.6	8.0	9.7	18.4	4.0	M20x1.5	13.0x2.0	10.0x1.0	9049400200800
100	15.6	8.0	11.7	18.4	2.0	M24x1.5	14.0x3.0	12.0x1.0	9049400241000

MQL 1-channel

MQL 1-channel coolant supply set HSK-A

Product information

- for MQL tool holders
(hydraulic chucks and shrink fit chucks)
to company standard
- for 1-channel-systems
- for tool holders with automatic tool change



Series no. 4939

for HSK-A	d_1 mm	d_2 mm	d_3 mm	l_1 mm	l_2 mm	G	O-ring 1 Viton 75	O-ring 2 Viton 75	EDP Number
32	6	4.0	4.8	38.5	12.5	M10x1.0	5.0x1.2	5.0x1.2	9049390100320
40	8	5.4	6.5	35.0	5.5	M12x1.0	7.5x1.5	7.5x1.5	9049390120400
50	10	6.5	7.5	38.5	5.5	M16x1.0	9.0x2.0	9.0x2.0	9049390160500
63	12	8.0	9.5	40.5	4.0	M18x1.0	10.0x2.5	10.0x2.0	9049390180630
80	14	8.0	9.7	44.0	4.0	M20x1.5	13.0x2.0	13.0x2.0	9049390200800
100	16	8.0	11.5	46.0	2.0	M24x1.5	14.0x3.0	14.0x3.0	9049390241000

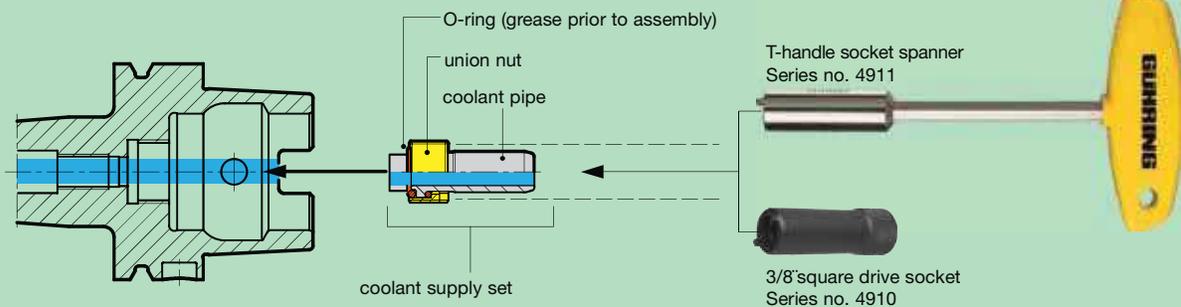
INSTALLATION INSTRUCTIONS

1. The HSK holder must be clean, free of swarf and undamaged.
2. Grease the O-rings prior to assembly.
3. Centrally insert the complete coolant supply set (coolant pipe, union nut and 2 O-rings) in the HSK with the assistance of the socket spanner. When inserting the MQL coolant supply unit, it is paramount to ensure that the MQL pipe is inserted centrally and undamaged into the MQL length setting screw (do not kink).
4. Screw in the coolant supply set/coolant supply unit and tighten (see table for torque figures)
5. Check coolant pipe for radial mobility.

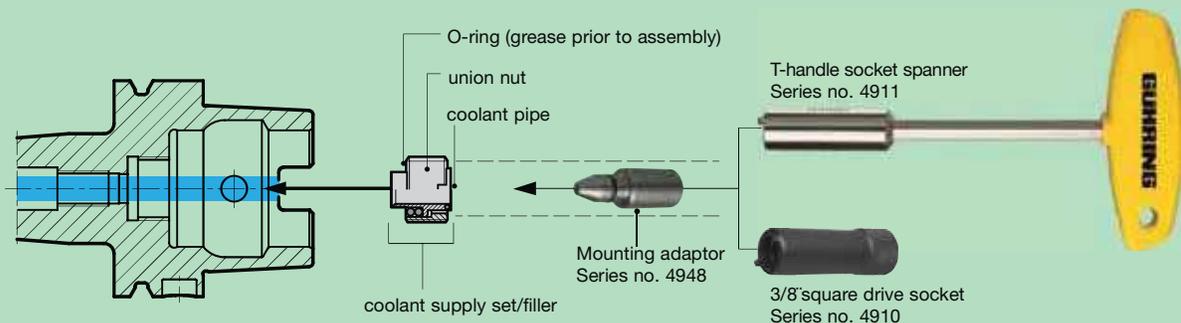
Torque figures

for HSK	MA Nm
32	7
40	11
50	15
63	20
80	25
100	30

Installation of MQL coolant supply set Series no. 4939



Installation of MQL coolant supply set filler Series no. 4940



Installation of MQL coolant supply unit Series no. 4623/4924

