

Connection System

Quick Connectors, Hoses

Elbow, Adapter



Distributors, quick connectors



The advantages of quick connections are obvious:

- Greatly simplified installation – high costcutting potential
- Just one connection system for steel and plastic tubing – lower warehousing costs, simplified logistics, no danger of mixups during installation
- Triple seal – no leakage no ingress of dirt

The universal quick connector system from SKF – for plastic and steel tubing

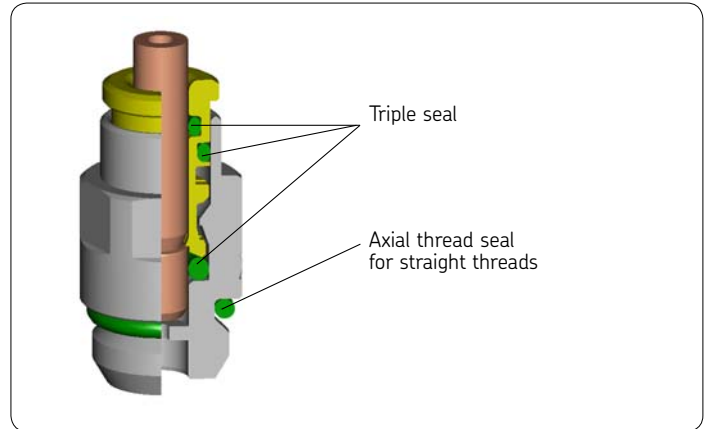
The novel seal and locking concept meets the “zero leakage” requirements of industrial users, is insensitive to dirt, easy to install and can be disconnected at the touch of a finger.

Technical data

See important product usage information on the back cover.

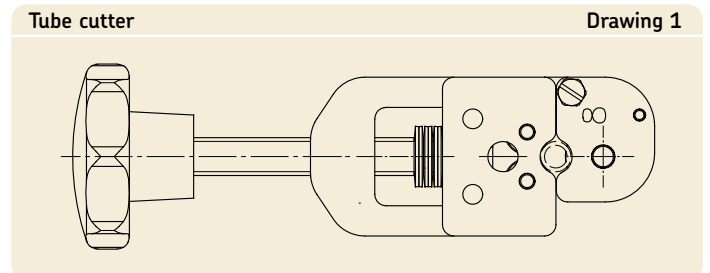
Max. operating pressure . . . 300 bar (metal tube with claw groove)
 Ambient temperature -40 to +80 °C
 Medium oils, grease up to NLGI grade 2
 Connection detachable
 Material brass

Suitable for steel tubing with claw groove and for plastic tubing.

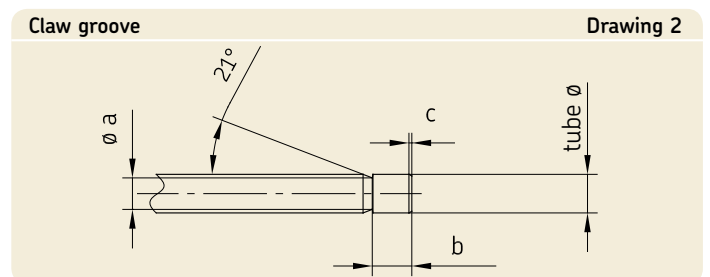


Tools for the preparation of claw grooves on the ends of steel tubes

for tubing \varnothing	Tube cutter Order No.	Cutting wheel Order No.
4	169-000-336	844-330-006
6	169-000-337	844-330-007
8	169-000-338	844-330-007



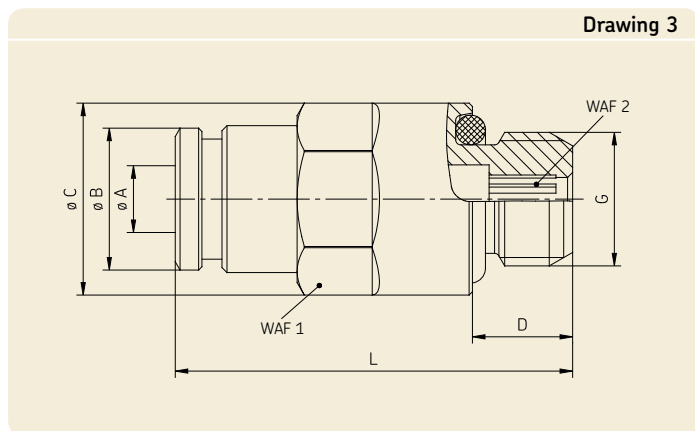
for tubing \varnothing	a ^{+0.3}	b ^{±0.2}	c
4	3.1	5.0	0.3 ... 0.7
6	4.9	6.2	0.4 ... 0.9
8	6.9	6.2	0.5 ... 0.9



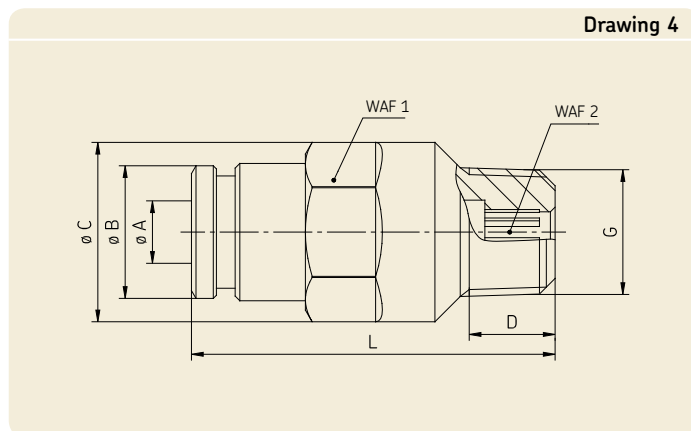
Adapters with cylindrical thread (drawing 3)

Order No.	Tube \varnothing A	G	D	\varnothing B	\varnothing C	L	WAF 1	WAF 2	Seal
404-003-VS	4	M8×1	6	8.8	11.5	23.8	10	2.5	NBR
404-006-VS	4	M10×1	6	8.8	13.5	23.8	12	2.5	NBR
404-006-S8-VS	4	M10×1	6	8.8	13.5	23.8	12	2.5	FKM (FPM)
404-040-VS	4	G 1/8	6	8.8	13.5	23.8	12	2.5	NBR
406-158-VS	6	M8×1	6	11.7	13.2	30.5	12	3	NBR
406-004-VS	6	M10×1	6	11.7	13.5	27	12	4	NBR
406-004-S8-VS	6	M10×1	6	11.7	13.5	27	12	4	FKM (FPM)
456-004-VS	6	G 1/8	6	11.7	13.5	27	12	4	NBR
406-054-VS	6	G 1/4	7	11.7	16.4	28	12	4	NBR
406-162-VS	6	M12×1	7	11.7	15.4	28	14	4	NBR
406-162-S8-VS	6	M12×1	7	11.7	15.4	28	14	4	FKM (FPM)
408-004-VS	8	M10×1	6	13.9	15.2	32.3	14	5	NBR
408-004-S8-VS	8	M10×1	6	13.9	15.2	32.3	14	5	FKM (FPM)
408-162-VS	8	M12×1	7	13.9	15.2	32.8	14	6	NBR
408-162-S8-VS	8	M12×1	7	13.9	15.2	32.8	14	6	FKM (FPM)

Drawing 3



Drawing 4



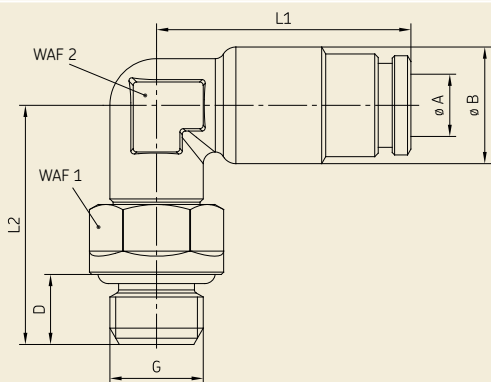
Adapters with tapered thread (drawing 4)

Order No.	Tube \varnothing A	G	D	\varnothing B	\varnothing C	L	WAF 1	WAF 2
451-004-462-VS	4	M6 tap.	5.5	8.8	11.5	25.8	10	2.5
451-004-498-VS	4	M8×1 tap.	5.5	8.8	11.5	23.3	10	2.5
451-004-518-VS	4	M10×1 tap.	5.5	8.8	11.5	22.8	10	2.5
404-673K-V1-VS	4	1/4-28 SAE LT	5.1	8.8	11.5	26.3	10	2.5
404-040K-V1-VS	4	1/8 NPTF	8	8.8	11.5	24.8	10	2.5
451-006-468-VS	6	M6 tap.	5.5	11.7	13.5	30	12	2.5
451-006-498-VS	6	M8×1 tap.	5.5	11.7	13.5	29.5	12	4
451-006-518-VS	6	M10×1 tap.	5.5	11.7	13.5	27	12	4
406-423W-VS	6	R 1/8 tap.	6.5	11.7	13.5	28.5	12	4

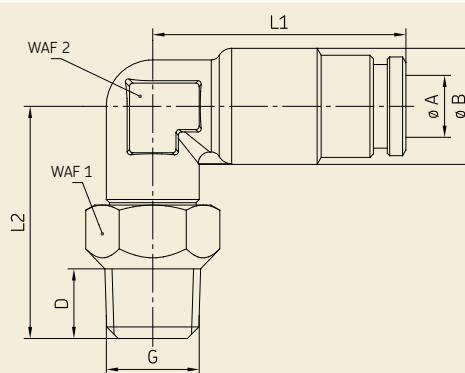
Banjo fittings with cylindrical thread (drawing 5)

Order No.	Tube \varnothing A	G	D	\varnothing B	L1	L2	WAF 1	WAF 2	Seal
504-101-VS	4	M8×1	6	10	21.8	20.5	10	9	NBR
504-102-VS	4	M10×1	6	10	21.8	20.5	12	9	NBR
504-108-VS	4	G 1/8	6	10	21.8	20.5	12	9	NBR
506-139-VS	6	M8×1	6	12.5	26	21	10	10	NBR
506-140-VS	6	M10×1	6	12.5	26	21	12	10	NBR
506-140-S8-VS	6	M10×1	6	12.5	26	21	12	10	FKM (FPM)
506-108-VS	6	G 1/8	6	12.5	26	21	12	10	NBR
506-142-VS	6	M12×1	7	12.5	26	23	14	10	NBR
506-142-S8-VS	6	M12×1	7	12.5	26	23	14	10	FKM (FPM)
508-142-VS	8	M12×1	7	14.5	28.8	23	14	12	NBR
508-142-S8-VS	8	M12×1	7	14.5	28.8	23	14	12	FKM (FPM)

Drawing 5



Drawing 6

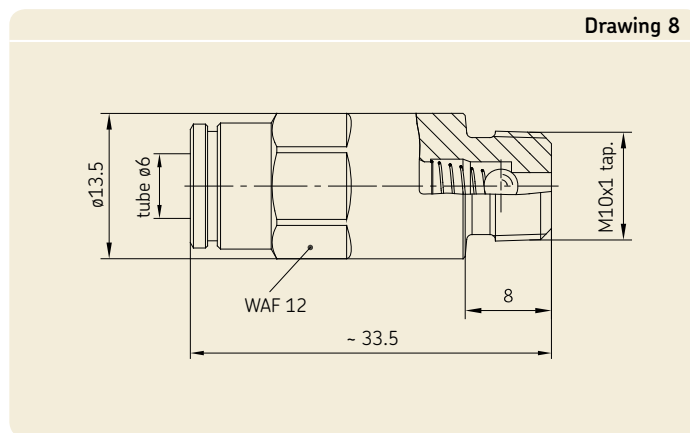
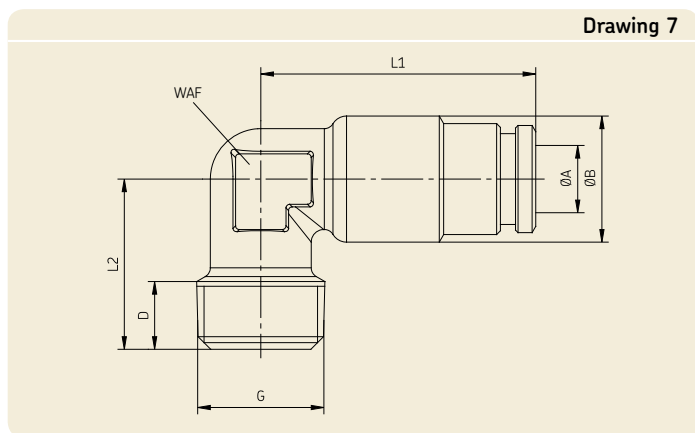


Banjo fittings with tapered thread (drawing 6)

Order No.	Tube \varnothing A	G	D	\varnothing B	L1	L2	WAF 1	WAF 2	Seal
455-546-048-VS	4	M6 tap.	6	10	21.8	20	10	9	NBR
455-546-048-S8-VS	4	M6 tap.	6	10	21.8	20	10	9	FKM (FPM)
455-529-048-VS	4	M8×1 tap.	6	10	21.8	20	10	9	NBR
455-529-048-S8-VS	4	M8×1 tap.	6	10	21.8	20	10	9	FKM (FPM)
455-531-048-VS	4	M10×1 tap.	6	10	21.8	20	12	9	NBR
455-531-048-S8-VS	4	M10×1 tap.	6	10	21.8	20	12	9	FKM (FPM)
455-569-048-VS	4	R1/8 tap.	7.5	10	21.8	20.5	12	9	NBR
455-529-068-VS	6	M8×1 tap.	6	12.5	26	20	10	10	NBR
455-529-068-S8-VS	6	M8×1 tap.	6	12.5	26	20	10	10	FKM (FPM)
455-531-068-VS	6	M10×1 tap.	6	12.5	26	20.5	12	10	NBR
455-531-068-S8-VS	6	M10×1 tap.	6	12.5	26	20.5	12	10	FKM (FPM)
455-565-068-VS	6	R1/4 tap.	11	12.5	26	24.5	14	10	NBR

Elbows with tapered thread (drawing 7)

Order No.	Tube \varnothing A	G	D	\varnothing B	L1	L2	WAF	Seal
453-004-471-VS	4	M6 tap.	6	10	21.8	14	9	NBR
453-004-471-S8-VS	4	M6 tap.	6	10	21.8	14	9	FKM (FPM)
504-201-VS	4	M8x1 tap.	6	10	21.8	13.5	9	NBR
504-201-S8-VS	4	M8x1 tap.	6	10	21.8	13.5	9	FKM (FPM)
504-202-VS	4	M10x1 tap.	6	10	21.8	13.5	9	NBR
504-202-S8-VS	4	M10x1 tap.	6	10	21.8	13.5	9	FKM (FPM)
514-018-VS	4	R 1/8 tap.	7.5	10	21.8	15	9	NBR
514-018-S8-VS	4	R 1/8 tap.	7.5	10	21.8	15	9	FKM (FPM)
504-200K-V1-VS	4	1/4-28 SAE LT	5.1	10	21.8	15.5	9	NBR
514-018K-V1-VS	4	1/8 NPTF	7	10	21.8	15	9	NBR
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453-006-468-VS	6	M6 tap.	6	12.5	26	15	10	NBR
453-006-468-S8-VS	6	M6 tap.	6	12.5	26	15	10	FKM (FPM)
506-508-VS	6	M8x1 tap.	6.5	12.5	26	14	10	NBR
506-508-S8-VS	6	M8x1 tap.	6.5	12.5	26	14	10	FKM (FPM)
506-510-VS	6	M10x1 tap.	6	12.5	26	14	10	NBR
506-510-S8-VS	6	M10x1 tap.	6	12.5	26	14	10	FKM (FPM)
506-511-VS	6	R 1/8 tap.	8.5	12.5	26	16.5	10	NBR
506-511-S8-VS	6	R 1/8 tap.	8.5	12.5	26	16.5	10	FKM (FPM)
506-512-VS	6	M12x1 tap.	7	12.5	26	15	10	NBR
453-006-651-VS	6	R 1/4 tap.	11.5	12.5	26	19.5	10	NBR



Check valve (drawing 8)

Order No.	Tube \varnothing	Opening pressure [bar]
VPKM-RV-VS	6	3 ⁺²

Assessories

	Order No.	Tube \varnothing
Connector	406-426-VS	6
Locking pin	450-204-002	4
Locking pin	450-206-002	6

Hoses

for main lines

Operating pressure: 45 bars (for short time only)

Standard	Metal-braided	Increase in volume at approx. 80 bar [cm ³ /m]			
Order No. ^{*)}	Order No. ^{*)}	Tube ø d1	Rubber ø d2	Metal- braides ø d3	
714-...-VS	714-...-M-VS	4	11	12 ±0.5	2.5
716-...-VS	716-...-M-VS	6	11	14 ±0.8	2.5
718-...-VS	718-...-M-VS	8	11	12 ±0.8	2.5

Material: Hose: mineraloilresistant CR rubber inside; 2 layers of braided rayon; outside rubber conditionally oilresistant, resistant to light cracks and ozone.
Metal braid: galvanized steel wire; tube ends: galvanized steel tubing.

for secondary lines

Operating pressure: 15 bars (for short time only)

Order No.	Tube ø d1	Rubber ø d2
734-...-VS	4	8.8

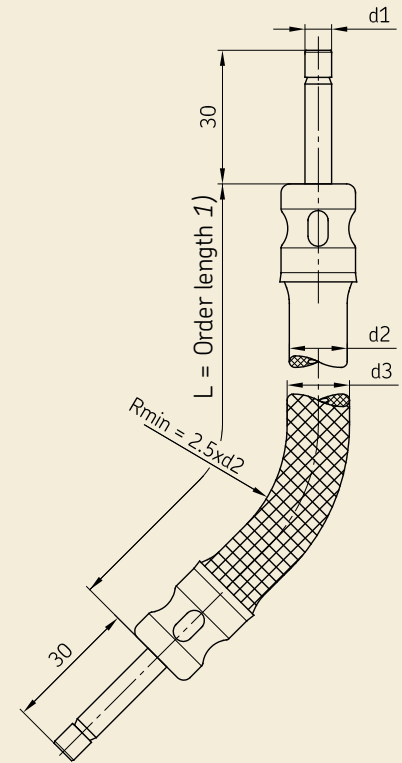
Material: Hose: oil-proof rubber inside and outside with a layer of braided rayon
Tube ends: steel tubing
The ends of the tubing are bonded to the hose and cannot be detached.
Permissible operating temperature: -30 °C to +70 °C

^{*)} Order length in mm; other lengths available.

Standardized lengths ±5 mm with ø4 tubing: 180, 220, 260, 300, 380, 420, 450, 500, 580
with ø6 tubing: 220, 300, 340, 380, 420, 500, 580
with ø8 tubing: 340, 450, 580

Order examples: Standard, ø4 tubing, 300 mm long, order No.: 714-300-VS
Metal-braided, ø8 tubing, 450 mm long, order No.: 718-450-M-VS

Drawing 9



Hoses suitable for self-installation

Operating pressure: 45 bars

Tube ø d1	① Male body		② Shell		③ Hose		Hose ø d2	Increase in volume at approx. 40 bars [cm ³ /m]
	Order No.	WAF	Order No.	WAF	Order No. ¹⁾	WAF		
4	406-704-001-VS	8	406-804-001	14	WVN701-4	11	1	
6	406-706-001-VS	8	406-806-001	17	WVN701-6	13	1.4	
8	406-708-001-VS	10	406-808-001	19	WVN701-8	15	1.4	

¹⁾ Please quote length when ordering. Max. length available 20 m.

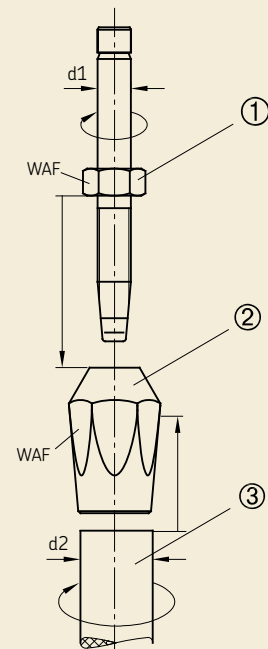
Material:
Hose: Perbunan, resistant to mineral oils, with two layers of braided rayon
Male body: steel, galvanized
Shell: brass

Permissible operating temperature: -40 °C to +70 °C

Installation instructions

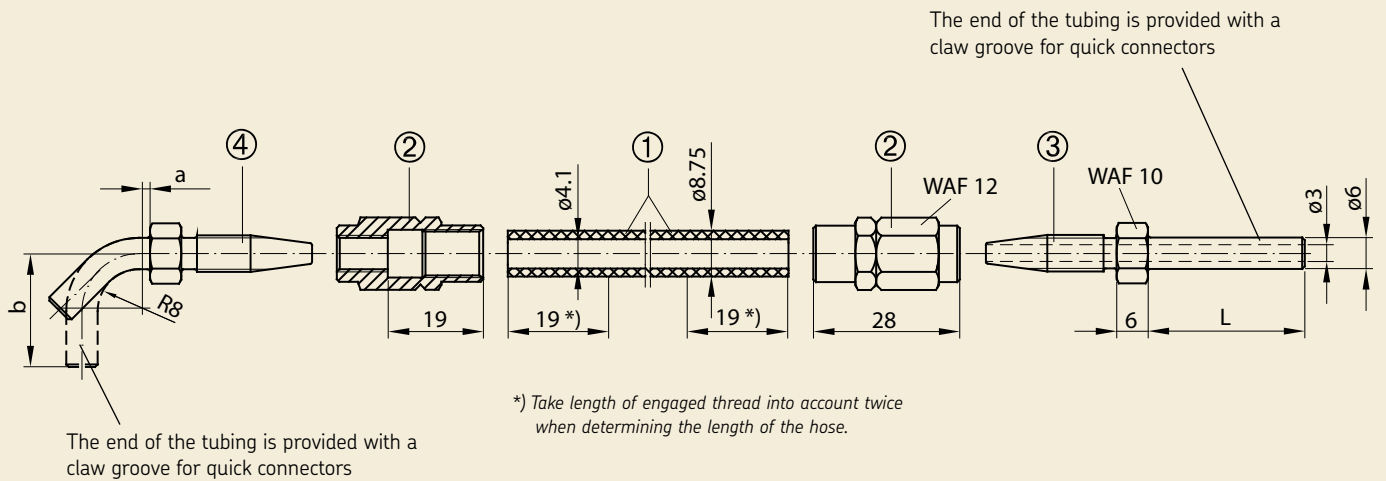
- Apply thin film of oil to thread and inside of hose of parts ① ② ③ to be connect.
- Clamp shell ② in vise and screw in hose ③ by turning it to the left up to the stop.
- Screw in male body ① with a wrench up to the stop. **Do not tighten!**

Drawing 10



High pressure hoses for self-installation

Drawing 11



for main lines and secondary lines

Operating pressure: 325 bars

Designation	Order No.	Dimension		
		L	a	b
① High pressure hose, max. length supplied 50 m	982-750-091			
① High pressure hose, max. length supplied 50 m filled with NLGI grade 2 grease	982-750-091+AF2			
② Sleeve	853-540-010			
③ Tube stud, straight	853-370-002-VS	20		
③ Tube stud, straight	853-380-002-VS	30		
③ Tube stud, straight	853-390-002-VS	66		
④ Tube stud, 45° angle	853-380-004-VS			
④ Tube stud, 90° angle	853-380-003-VS		2	21
④ Tube stud, 90° angle	853-390-003-VS		13	47

Technical data hose:

operating pressure: 325 bar
burst pressure: 800 bar
min. bending radius: 35 mm

Material:

hose: inner lining: unplasticized polyester
liner layer: braided synthetic fibers
outer cover: weatherproof polyurethane
sleeve, tube stud: steel, galvanized

Order No. 1-0103-1-EN

Subject to change without notice! (07/2009)

Important product usage information

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.

Not all lubricants are suitable for use in centralized lubrication systems.

SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0.5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

Further brochures

1-9201-EN Transport of Lubricants in Centralized Lubrication Systems

SKF Lubrication Systems Germany AG

Motzener Strasse 35/37 · 12277 Berlin · Germany

PF 970444 · 12704 Berlin · Germany

Tel. +49 (0)30 72002-0 · Fax +49 (0)30 72002-111

www.skf.com/lubrication

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