



COOPER

FLUID SYSTEMS

KOMATSU SPARE PARTS GUIDE

SKF Proflex Lubrication Systems



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AUSTRALIA WIDE

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This parts manual is intended as a quick-reference to identify the major components in an SKF Proflex Automatic grease system, as fitted to Komatsu construction machines.

Please contact your nearest Cooper Fluid Systems branch for further information and resources, including:

- **Technical & Repair Manuals.**
- **Spare Parts.**
- **Operating Instructions.**
- **Service and Repair.**


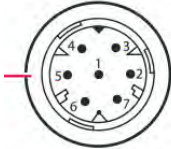






KFGS Grease Pumps

Photo	Part Number	Information
	VGBR KFGS1-5W1+924	<p>Model: KFGS 2-litre Reservoir</p> <p>24 Volt DC</p> <p>Low Level: Yes</p> <p>Pump Elements: Not Included</p> <p>Wiring Harness: Not Included</p>
	VGBR KFGS3-5W1+924	<p>Model: KFGS 6-litre Reservoir</p> <p>24 Volt DC</p> <p>Low Level: Yes</p> <p>Pump Elements: Not Included</p> <p>Wiring Harness: Not Included</p>
	VGBR KFGS5-5W1+924	<p>Model: KFGS 10-litre Reservoir</p> <p>24 Volt DC</p> <p>Low Level: Yes</p> <p>Pump Elements: Not Included</p> <p>Wiring Harness: Not Included</p>

Grease Pump- Outlet Accessories

Photo	Part Number	Information
	VGBP KFG1.U0 (5.0cc / min) VGBP KFG1.U1 (2.5cc / min) VGBP KFG1.U2 (1.8cc / min) VGBP KFG1.U3 (1.2cc / min) VGBP KFG1.U4 (0.8cc / min)	Pump Element: Spring Return KFG1.U0 (no grooves) KFG1.U1 (1 groove) KFG1.U2 (2 grooves) KFG1.U3 (3 grooves) KFG1.U4 (4 grooves)
	VGGV 161-210-047	Safety Valve 300bar 8L (with gauge & adaptor)
	VGGV 161-210-048	Safety Valve 300bar 10L (with gauge & adaptor)
	VGGV 161-210-016	Safety Valve 300bar 8L (Standard no front banjo port)

Grease Pump – Electrical Accessories

Photo	Part Number	Information
	VGKP 997-000-630	<p>Wiring Harness KFGS pump</p> <p>12 mtr (7-pin)</p> 
	02-664-85388-8	<p>Manual Run Button / Light</p> <p>SKF 12 / 24V DC illuminated</p>
	LPL-INDR24	<p>Red Fault Lamp (Narva)</p> <p>24V DC - LED</p>
	KTHC2	<p>QK Series Connector 2 Pin</p>
	KTHC6	<p>QK Series Connector 6 Pin</p>
	VGKP 179-990-601	<p>Wiring Harness – Piston Sensor</p> <p>5mtr (M12 4-pin)</p> <p>90-degree plug</p>
	02-237-13442-4	<p>Connector – Piston Sensor</p> <p>(M12 4-pin)</p> <p>Straight plug</p>

Grease Pump – Remote Fill Point / Filter

Photo	Part Number	Information
	VGHA 213-870F	<p style="text-align: center;">Inline Filter (Standard)</p> <p>EP-000 grease (0.160 mesh) Ports ¼" BSPP female</p>
	VGHV KFU2.U7	<p style="text-align: center;">KFU filter mesh element</p> <p>EP2 Grease (0.32mm)</p>
	VGKA 995-000-705	<p style="text-align: center;">Bulk Fill Coupling ¼" BSPPM</p> <p>Suits VGHA213-870 models</p>
	CFS-VGHA 213-870MOD	<p style="text-align: center;">Inline Filter (CFS Modified)</p> <p>Internally ported, dual fill points (Grease Nipple and bulk fitting) 0.32mm filter mesh fitted</p>

VPKM Divider Valves: Base Segments


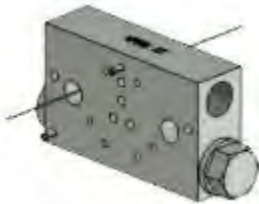
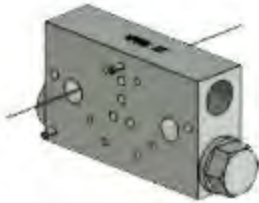
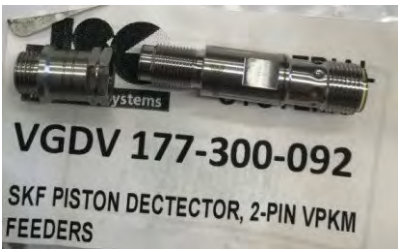
Photo	Part Number	Information
	VGAB VPKM-E	Inlet Section VPKM (Inlet Thread 10x1)
	VGAB VPKM.07	Gasket – Inlet Section VPKM
	VGAB VPKM-A	End Section VPKM
	VGAB VPKM.09	Gasket – End Section VPKM
	VGABVPKM.93 VGABVPKM.94 VGABVPKM.95 VGABVPKM.96 VGABVPKM.97 VGABVPKM.98 VGABVPKM.99 VGABVPKM.100	Tie Rods - VPKM 3 metering sections 4 metering sections 5 metering sections 6 metering sections 7 metering sections 8 metering sections 9 metering sections 10 metering sections (2x rods / nuts per valve required)
	VGKD DIN985-M6-8	Nut M6 – VPKM

VPKM Divider Valves: Inlet Fittings

Inlet ports on VPKM dividers are M10x1

Photo	Part Number	Information
	VGKA 410-443	Inlet Fitting VPKM 10L Tube - 10x1 Male
	VGKA 441-008-511	Inlet Fitting VPKM 8L Tube - 10x1 Male
	VGKA 406-423	Inlet Fitting VPKM 6L Tube - 10x1 Male
	VGKA 406-403	Inlet Fitting VPKM 6LL Tube - 10x1 Male
	VGKA 406-425	Inlet Fitting VPKM 6LL Tube - 10x1 Male

VPKM Divider Valves: Metering Segments

Photo	Part Number	Information
	VGAB VPKM.08	Gasket - Intermediate VPKM
	VGAB-VPKM-K-05S-PS VGAB-VPKM-K-1S-PS VGAB-VPKM-K-2S-PS VGAB-VPKM-K-3S-PS	Metering Segment VPKM Single Outlet (Outlet Thread 10x1)
	VGAB-VPKM-K-05T-PS VGAB-VPKM-K-1T-PS VGAB-VPKM-K-2T-PS VGAB-VPKM-K-3T-PS	Metering Segment VPKM Twin Outlet (Outlet Thread 10x1)
	VGDV 177-300-092	Piston Detector VPKM Dividers 2-wire connection, M12 4-pin socket

VPKM Divider Valves: Outlet Fittings

Photo	Part Number	Information
	VGGV-VPKM-RV-S4 	Outlet Fitting – Check Valve 10x1 Male x 6LL Tube
	VGKC466-431-001	Outlet Plug VPKM 10x1 Male
	VGKA 406-090K	Outlet Fitting - Elbow 10x1 M/F
	VGKA 506-114	Outlet Fitting – Banjo 10x1 M / F / F
	VGKP 871-340-006	SKF 1-PORT MANIFOLD 3-Way 10x1 F/F/F (used for slew line junctions)

Grease Hose: 9mm Poly & Fittings

Threaded Sleeves & Hose Studs For High Pressure Plastic Hose KF300

STANDARD CHROMATE-TREATED

PART NUMBER	DESCRIPTION	STUD Ø (MM)
02-432-23031-1	Threaded Sleeve	
02-432-24162-1	Hose Stud Short	6
02-432-23067-1	Hose Stud Long	6
02-532-32183-1	Hose Stud 45°	6
02-532-30739-1	Hose Stud 90° Short	6
02-532-30738-1	Hose Stud 90° Long	6



HIGH-GRADE VERSION (STAINLESS STEEL)

PART NUMBER	DESCRIPTION	STUD Ø (MM)
02-432-23676-1	Threaded Sleeve	
02-432-23675-1	Hose Stud Short	6



Threaded Sleeves & 7/16 JIC Hose Studs For High Pressure Plastic Hose KF300

STANDARD CHROMATE-TREATED

PART NUMBER	DESCRIPTION	JIC NUT
13-432-23031-7/16	Threaded Sleeve	
13-432-24162-7/16	Hose Stud Short	7/16"
13-532-30738-7/16	Hose Stud 90° Short	7/16"
13-432-94385-M6	Hose Stud JIC	7/16 JIC Male



GREASE FILLED HIGH PRESSURE KF300 HOSE

PART NUMBER	DIMENSIONS	MAX. OPERATING PRESSURE AT 20°C	MIN. BURST PRESSURE AT 20°C	MIN. BEND RADIUS
02-504-36033-3 (per metre)	8.6mm O.D. (4.1mm I.D.) x 2.3mm	350 bar (5075 psi)	600 bar (8700 psi)	35mm



Lube Point Fittings

Dimension = Male thread type / pitch

All fittings listed here are 6LL Tube Nut

STRAIGHT FITTINGS

PART NUMBER	DIMENSIONS	TUBE Ø (MM)
02-223-12533-9	M6 x 1K	6
02-223-13023-1	M8 x 1K	6
02-223-12271-7	M10 x 1K	6
02-223-12270-7	1/8" BSP T	6
02-223-12273-6	1/8" NPT	6
02-223-13016-3	1/8" BSP P	6
02-223-12477-8	1/4" BSP T	6
02-223-13766-2	1/4" NPT	6
02-223-12477-1	1/4" BSP P	6



ELBOW FITTINGS

PART NUMBER	DIMENSIONS	TUBE Ø (MM)
02-223-13023-1	M8 x 1K	6
02-223-13763-4	M8 x 1.25K	6
02-223-13021-3	M10 x 1K	6
02-223-12485-9	1/8" BSP T	6
02-223-12380-6	1/8" BSP T	6
VGKA406-423	M10 x 1K	6



Male Elbow



Union

STANDARD CHROMATE-TREATED

PART NUMBER	DESCRIPTION	TUBE Ø (MM)
02-223-12482-9	Union	6



Union

Metric Tube Fittings: Volz

Photo	Part Number	Information
	209806	STGV10L - EQUAL UNION 10L Tube x 10L Tube
	209152	STGRV1006L - REDUCING UNION 10L Tube x 6L Tube
	200460	STGEV08LR1/4WD - MALE BSP 8L Tube x 1/4" BSPP
	209992	STGEV10LR1/4WD - MALE BSP 10L Tube x 1/4" BSPP
	209861	STEWVD08L – M/F ELBOW M14-1.5 F x 8L Tube (Fem Swivel)
	209862	STEWVD10L – M/F ELBOW M16-1.5 F x 10L Tube (Fem Swivel)
	211345	STMAVD08LR1/4 Gauge adaptor 14x1.5 Fem x 1/4BSPP Fem
	211346	STMAVD10LR1/4 Gauge adaptor 16x1.5 Fem x 1/4BSPP Fem

Hose Crimp Fittings


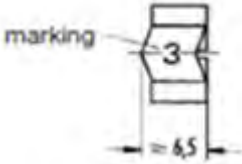
Photo	Part Number	Information
	STB-MSP-0406 (Standpipe) SN02-04 (Crimp Shell)	Standpipe Fitting 6mm Suits 2-wire ¼" Hose R2T
	1A8DL4	Hose End 10L - Straight M16-1.5 Female Light - ¼ Hose
	1A6DL4	Hose End 8L - Straight M14-1.5 Female Light - ¼ Hose
	1A5DL4	Hose End 6L - Straight M12-1.5 Female Light - ¼ Hose
	1A8DLB4	Hose End 10L - 90 Degree M16-1.5 Female Light - ¼ Hose
	1A6DLB4	Hose End 8L - 90 Degree M14-1.5 Female Light - ¼ Hose
	1A5DLB4	Hose End 6L - 90 Degree M12-1.5 Female Light - ¼ Hose
	GH781-4	Hose 2-Wire ¼" 450 Bar (Green Stripe)

Thread Identification

Metric male threads are identified by the stamp on the tube nut face.

Photo	Identification	Information
	Stamp: 6LL	6mm Tube - Extra Light Thread OD: 10x1
	Stamp: 6L	6mm Tube - Light Thread OD: 12x1.5
	Stamp: 8L	8mm Tube – Light Thread OD 14x1.5
	Stamp: 10L	10mm Tube – Light Thread OD 16x1.5

Hose Marking Clips

Photo	Part Number	Markings
 	VGKG 808-220-010	0
	VGKG 808-220-011	1
	VGKG 808-220-012	2
	VGKG 808-220-013	3
	VGKG 808-220-014	4
	VGKG 808-220-015	5
	VGKG 808-220-016	6
	VGKG 808-220-017	7
	VGKG 808-220-018	8
	VGKG 808-220-019	9

Steel & Stainless-Steel Tubing





Photo	Part Number	Information
	440610 (sold per metre)	Stainless Steel Tubing: Volz 6mm OD x 1mm wall (470 Bar)
	441010 (sold per metre)	Stainless Steel Tubing: Volz 10mm OD x 1mm wall (270 Bar)

Photo	Part Number	Information
	ST10X4 (sold per metre)*	Heavy Wall Steel Tubing 10mm OD, 4mm ID

***Note: End user will need to cut 1/8" BSP threads onto the tube and bend to suit the application.**

Photo	Part Number	Information
	02-111-35306-1 (5 metre roll)	SS Coil Spring 9mm ID
	02-113-35075-2	Helios 6mm Plastic Helix
	02-113-35075-3	Helios Plastic Helix 12.6mm

Clamps & Mounting Hardware

	Part Number	Information
 <p style="text-align: center;">6mm Bolt Hole</p>	50-RSGU06-15-1	P-Clamp 6mm
	50-RSGU-10-15-1	P-Clamp 10mm
	50-RSGU-12-15-1	P-Clamp 12mm
	50-RSGU-16-15-1	P-Clamp 16mm
	50-RSGU-18-15-1	P-Clamp 18mm
	50-RSGU-19-15-1	P-Clamp 19mm
	50-RSGU-22-15-1	P-Clamp 22mm
	50-RSGU-25-15-1	P-Clamp 25mm
	VGKE606-010	Saddle 6mm Tube
	VGKE610-001	Saddle 10mm Tube
	A106	Pipe Clamp 6mm
	A110	Pipe Clamp 10mm
	A215	Pipe Clamp 15mm
	A428	Pipe Clamp 28mm
	A533.7	Pipe Clamp 33.7mm
 <p style="text-align: center;">10mm Bolt Hole – Heavy Duty</p>	900729-19	P-Clamp 0.38" HD
	900729-1	P-Clamp 0.50" HD
	900729-3	P-Clamp 0.69" HD
	NL-01-A3-045	Magnetic Mount 40mm Dia. – M10 Stud

Document History

Rev.	Date	Nature of Changes	Process Owner	Approved By
1.0	20/10/2020	Draft	J. Gibson	
1.1			J. Gibson	