



Component list mechanic

**For the production of
Motor, Transmission, Suspension, Foundry
of the Volkswagen AG
„Technology specific part“**

List of Revisions

Vers.	Date	Kind of change	Site
0.0	01.01.2006	First edition	all
0.1	09.06.2008	Contacts	4
0.2	30.06.2008	Expansion for the Hannover foundry	1
1.1	07.07.2008	Synchronisation with specificationt	all
1.2	03.08.2009	Change of motors, complement some voltage keys for lubrication units change the logo Vogel into SKF Change order numbers for metering units (fluid grease) Update the order numbers of piston pumps (KFGx) used for NLGI 2	4 1-14 8 14
1.4	01.07.2012	3.1 New order numbers for distributors 3.6 New order numbers for units with reservoir 3.8 New order numbers for piston pumps 3.13 New order numbers for filter 10µm,25µm, and for fluid grease strainer 3.14 Expansion of tubes and fittings	10-13 20-21 23 26 26
1.5	01.01.2013	Revised specification mechanic (Version 1.5)	1
1.6	01.01.2014	Revised layout	all
1.6	01.01.2014	Expansion of pressure switch with VDMA navigation menu (3.10.1, Hydac)	23
1.7	01.01.2015	Contacts (structural reorganization)	
1.8	15.01.2016	1.2 Manager Customer Service 3.1.2 Pressure relief valve WVN200-10E12 added 3.1.8 Single piston distributor 34x, order nr. revised 3.4.3 Oil+air mixing valve, order numbers revided 3.4.4 OLA, new data sheet added Fluid grease units updated (filter separately): 3.6.4 new order number for fluid grease unit 3L 3.6.5 new order number for fluid grease unit 6L 3.7.7/ 3.7.8 Injection oiler with monitoring added 3.10.1 Revision of pressure switch ifm, new type and order number	4 12 14 17 17 21 21 23 25
1.9	06.01.2017	3.1.5 Order numbers revided (341...) 3.6.6 KFB1-M-W-S traded against KFB1-M-W-S14	11 21
1.9.1	20.03.2017	The old order no. were deleted	all
1.9.2	01.07.2017	3.1.9 to 3.1.12; Material numbers corrected 3.1.15; Overview material numbers modified 3.1.16/ 3.1.17: Manifolds – material numbers added 3.8.3; Pumpe element KFG1.U0 added 3.14.5; Vent- and plug screws added	12/13 13 14 25 28
2.0	01.01.2018	3.14.3 New data sheet for quick connectors	108-110

Table of contents:

List of Revisions	2
1 CONTACT:	4
1.1 Contact for VW AG	4
1.2 Customer Service Germany	4
1.3 Key Account Manager Germany	5
2 GENERAL INFORMATION:	6
2.1 Voltage specifications for AC motors type DU56 for MFE units	6
2.2 Lube System MonoFlex with piston distributors for oil	7
2.3 Progressive system ProFlex for grease	8
2.4 Gantry lubrication MonoFlex with fluid grease	9
2.5 3D-Models	10
3 OVERVIEW:	11
3.1 Piston distributor system MonoFlex	11
3.2 Progressive systems ProFlex	15
3.3 Circulating systems Circoil	16
3.4 Oil+Air Systems	17
3.5 Pump units	19
3.6 Pump units with reservoir	21
3.7 Micro pumps	23
3.8 Piston pumps	25
3.9 Leakage oil tank	26
3.10 Monitoring devices	26
3.11 Pressure gauge	26
3.12 Solenoid valves	27
3.13 Filter	27
3.14 Hoses and Fittings	28

1 Contact:

1.1 Contact for VW AG

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1.3 Key Account Manager Germany

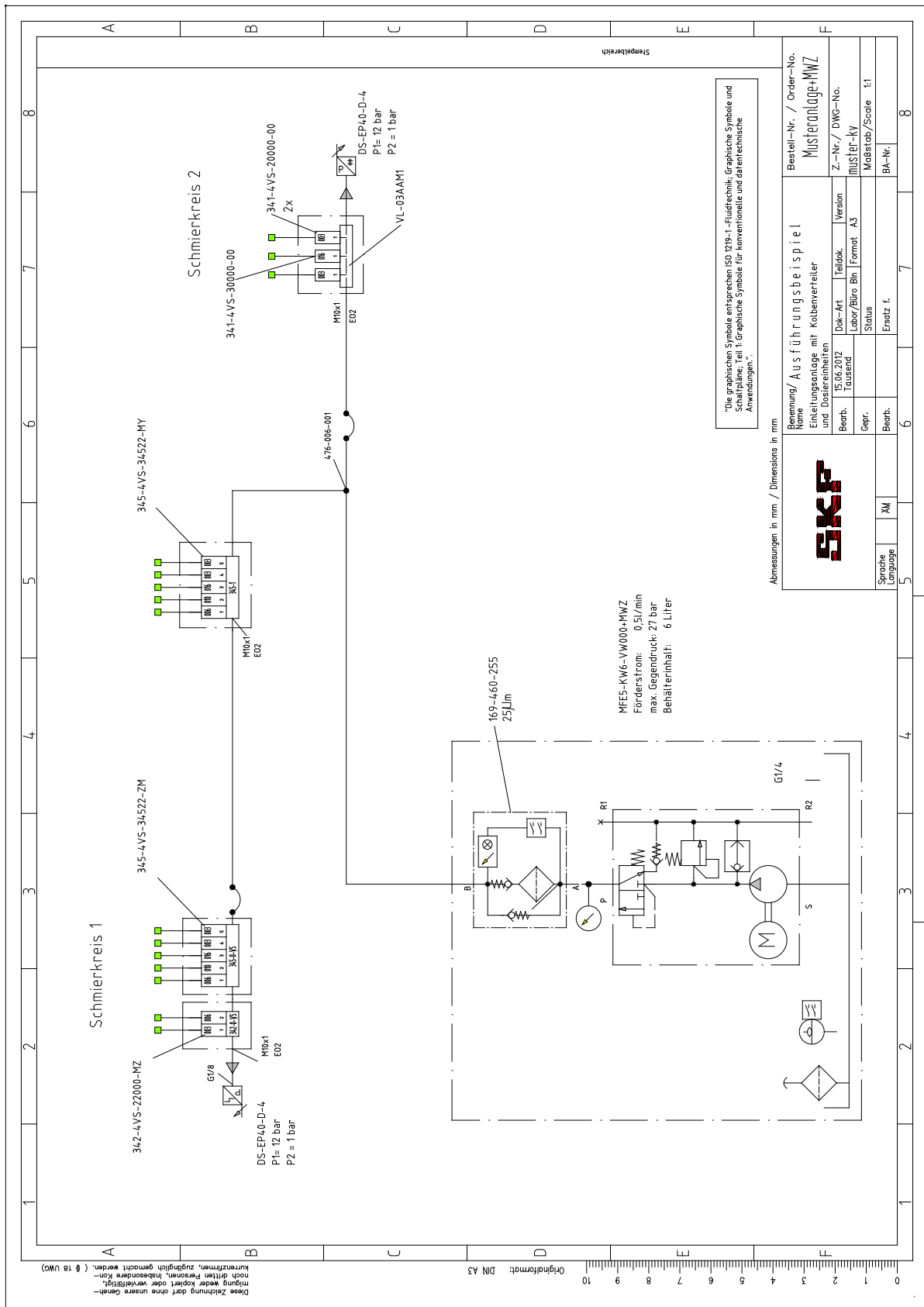
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2 General information:

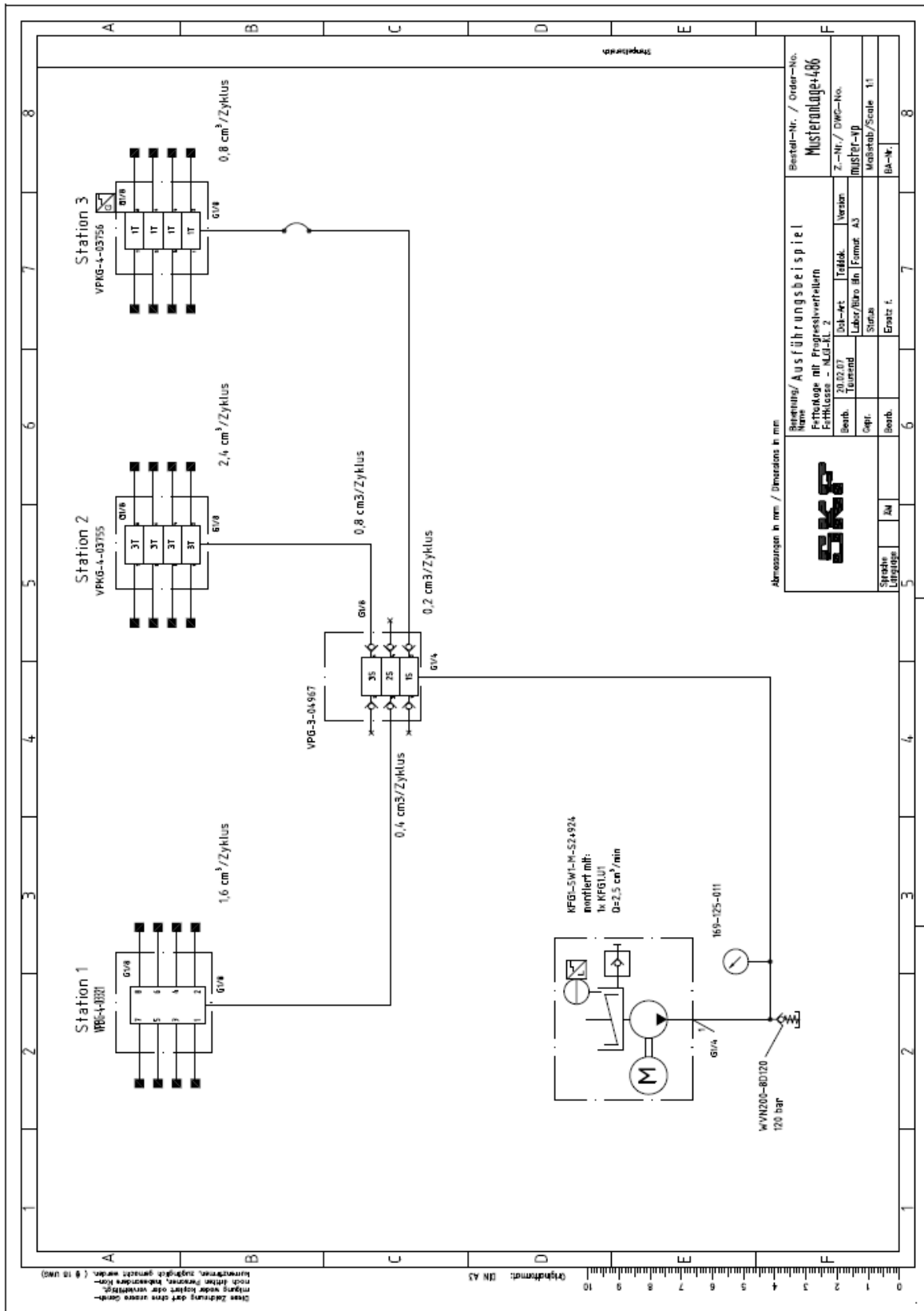
2.1 Voltage specifications for AC motors type DU56 for MFE units

Region:	Voltage key	
Europa:	MWZ	400V 50HZ,Y / 460V 60Hz,Y,Iso-KI.F
Mexiko	MV5	440V 60HZ,Y,Iso-KI.F
China	1GW	380V 50HZ,Y / 440V 60HZ,Y,Iso-KI.F

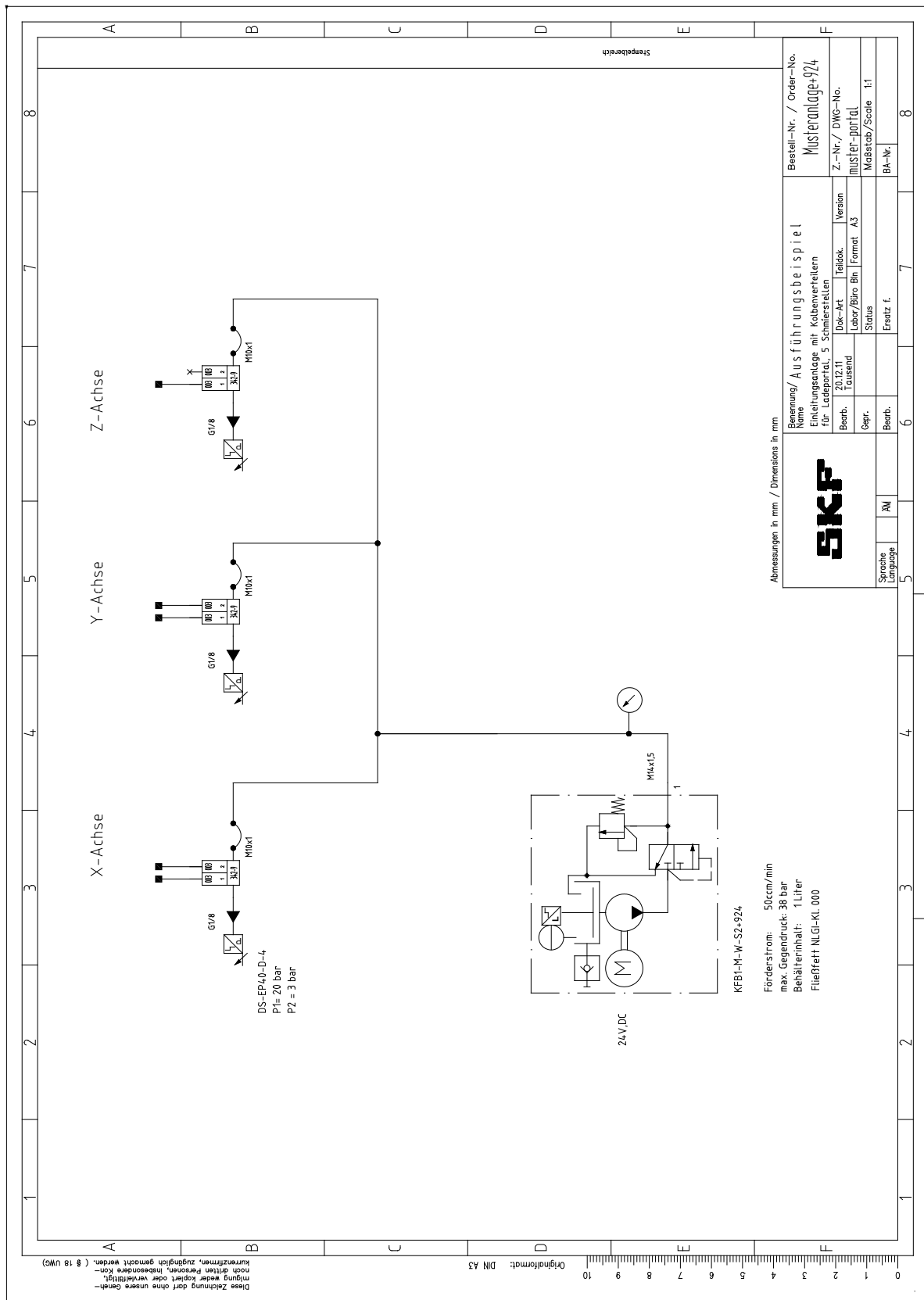
2.2 Lube System MonoFlex with piston distributors for oil



2.3 Progressive system ProFlex for grease



2.4 Gantry lubrication MonoFlex with fluid grease



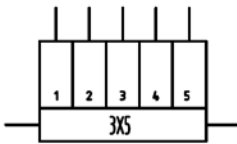
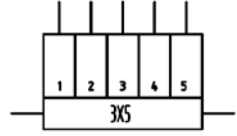
2.5 3D-Models

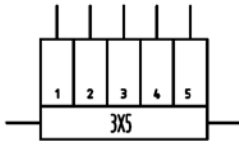
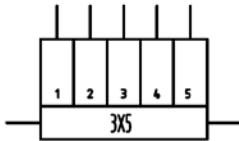
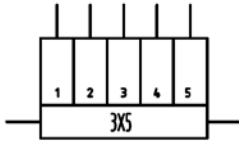
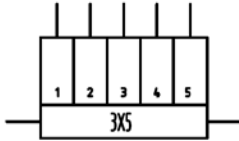
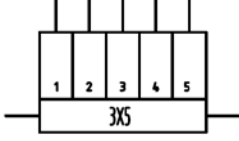
All products with this sign  and Internet link <http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication> are available with 3D data for download. It can be used with a 3D software for example „Inventor“.

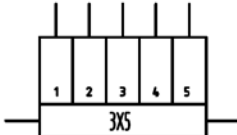
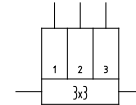
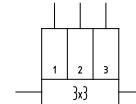
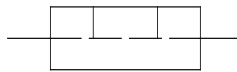
Products with the mark  are available in 3D-STP format from our contact partners (Page 4/5).
Products without  marks: 3D models on request at our contact partners (Page 4/5).

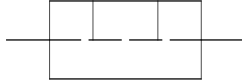
3 Overview:

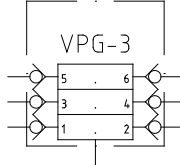
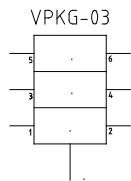
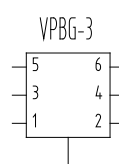
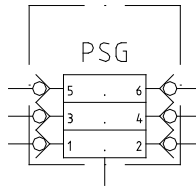
3.1 Piston distributor system MonoFlex

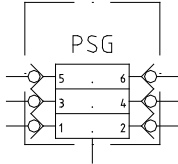
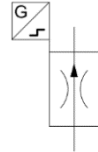
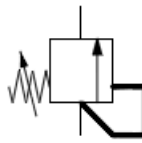
	Name	Preview	Symbol	SKF item no.	Remarks
3.1.1 	Single piston distributor 341 for oil with quick connectors and O-ring http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			341-1VS-10000-00 341-1VS-20000-00 341-1VS-30000-00 341-1VS-40000-00 341-1VS-50000-00	0,01 cm ³ 0,03 cm ³ 0,06 cm ³ 0,10 cm ³ 0,16 cm ³
3.1.2 	Piston distributor 34x for oil with quick connectors http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			342-4VS-**000-** 343-4VS-***00-** 345-4VS-*****-**	2 outlets 3 outlets 5 outlets
3.1.3 	Single piston distributor 341 for oil with solderless tube connection and O-ring http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			341-100-10000-00 341-100-60000-00 341-100-20000-00 341-100-30000-00 341-100-40000-00 341-100-50000-00	0,01 cm ³ 0,02 cm ³ 0,03 cm ³ 0,06 cm ³ 0,10 cm ³ 0,16 cm ³
3.1.4 	Piston distributor 34x for oil with solderless tube connection http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			342-400-**000-** 343-400-***00-** 345-400-*****-**	2 outlets 3 outlets 5 outlets
3.1.5 	Piston distributor 341 for fluid grease, with quick connectors and O-ring http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			341-7VS-20000-00 341-7VS-30000-00 341-7VS-40000-00	0,03 cm ³ 0,06 cm ³ 0,10 cm ³

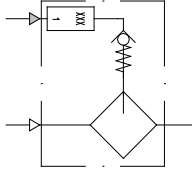
	Name	Preview	Symbol	SKF item no.	Remarks
3.1.6	Piston distributor 34x for fluid grease, with quick connectors 			342-5VS-**-000-**-** 343-5VS-***00-**-** 345-5VS-*****-**-**	2 outlets 3 outlets 5 outlets
3.1.7	Piston distributor 341 for fluid grease, with quick connectors and O-ring 			341-700-20000-00 341-700-30000-00 341-700-40000-00	0,03 cm ³ 0,06 cm ³ 0,10 cm ³
3.1.8	Piston distributor 341 for fluid grease, with quick connectors 			342-500-**-000-**-** 343-500-***00-**-** 345-500-*****-**-**	2 outlets 3 outlets 5 outlets
3.1.9	Piston distributor 35x for oil with quick connectors 			351-2VS-*0000-00 352-0VS-**-000-**-** 353-0VS-***00-**-** 355-0VS-*****-**-**	1 outlets 2 outlets 3 outlets 5 outlets
3.1.10	Piston distributor 35x for oil with solderless tube connection 			351-000-*0000-00 352-000-**-000-**-** 353-000-***00-**-** 355-000-*****-**-**	1 outlets 2 outlets 3 outlets 5 outlets
3.1.11	Piston distributor 35x for fluid grease with quick connectors 			351-3VS-*0000-00 352-1VS-**-000-**-** 353-1VS-***00-**-** 355-1VS-*****-**-**	1 outlet 2 outlets 3 outlets 5 outlets

	Name	Preview	Symbol	SKF item no.	Remarks
3.1.12	Piston distributor 35x for fluid grease with solderless tube connection  http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			351-300-*0000-00 352-100-***000-** 353-100-***00-** 355-100-*****-**	1 outlets 2 outlets 3 outlets 5 outlets
3.1.13	Piston distributor 39x for Öl with solderless tube connection  http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			391-000-*0000-00 392-000-***000-** 393-000-***00-**	1 outlet 2 outlets 3 outlets
3.1.14	Piston distributor 39x for fluid grease with solderless tube connection  http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			391-100-*0000-00 392-100-***000-** 393-100-***00-**	1 outlet 2 outlets 3 outlets
3.1.15	Manifolds for Single Piston distributor series 341 Distributor connection thread M8x1 1...6 outlets  http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			VL-0*AAG1 VL-0*AAG2 VL-0*AAM1 VL-0*AAM2	Main line connection G1/8 G1/4 M10x1 M14x1,5 *= 1 (1-digit) *= 2 (2 digits) *= 3...

	Name	Preview	Symbol	SKF item no.	Remarks
3.1.16	Manifolds for Single Piston distributor series 351 Distributor connection thread M10x1 1 – 6 outlets http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			VL-0*BAG1 VL-0*BAG2 VL-0*BAM1 VL-0*BAM2	Main line connection G1/8 G1/4 M10x1 M14x1,5 *= 1 (1-digit) *= 2 (2 digits) *= 3...
3.1.17	Manifolds for Single Piston distributor series 391 Distributor connection thread M14x1,5 1 - 6 outlets http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			VL-0*CAG1 VL-0*CAG2 VL-0*CAM3 VL-0*CAM4	Main line connection G1/8 G1/4 M10x1 M14x1,5 *= 1 (1-digit) *= 2 (2 digits) *= 3...

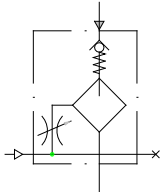
	Name	Preview	Symbol	SKF item no.	Remarks
3.2	Progressive systems ProFlex				
3.2.1	Progressiv feeder, sectional			VPG-3-xxxxx VPG-4-xxxxx VPG-5-xxxxx VPG-6-xxxxx VPG-7-xxxxx VPG-8-xxxxx VPG-9-xxxxx VPG-10-xxxxx	
3.2.2	Progressiv feeder, sectional			VPKG-3-xxxxx VPKG-4-xxxxx VPKG-5-xxxxx VPKG-6-xxxxx VPKG-7-xxxxx VPKG-8-xxxxx VPKG-9-xxxxx VPKG-10-xxxxx	
3.2.3	Progressiv feeder, block feeder			VPBG-3-xxxxx VPBG-4-xxxxx VPBG-5-xxxxx VPBG-6-xxxxx VPBG-7-xxxxx VPBG-8-xxxxx VPBG-9-xxxxx VPBG-10-xxxxx	
3.2.4	Progressive feeder, modular			PSG2-3-xxxxx PSG2-4-xxxxx PSG2-5-xxxxx PSG2-6-xxxxx PSG2-7-xxxxx PSG2-8-xxxxx PSG2-9-xxxxx PSG2-10-xxxxx	

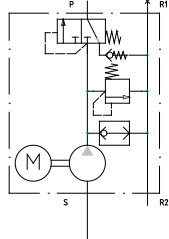
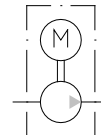
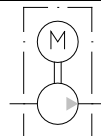
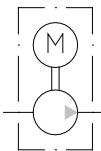
	Name	Preview	Symbol	SKF item no.	Remarks
3.2.5	Progressive feeder, modular			PSG3-3-xxxxx PSG3-4-xxxxx PSG3-5-xxxxx PSG3-6-xxxxx PSG3-7-xxxxx PSG3-8-xxxxx PSG3-9-xxxxx PSG3-10-xxxxx	
3.2.6	Cycle switches for progressive feeders			177-300-094 177-300-095 177-300-097 24-1884-2316	VPG / PSG2 VPKG VPBG PSG3
3.3 Circulating systems Circoil					
3.3.1	Flow limiter SP/SMB8/2E6 0,09 l/min to 8,18l/min			24-2708-xxxx	
3.3.2	Pressure relief valve Pressure range 3...12 bar (NBR)			WVN200-10E12	

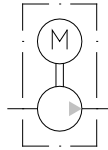
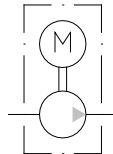
	Name	Preview	Symbol	SKF item no.	Remarks
3.4	Oil+Air Systems				
3.4.1	Oil+Air mixing valve with metering			MV202-20 MV203-20 MV204-20 MV205-20 MV206-20 MV207-20 MV208-20 MV202-20-S8 MV203-20-S8 MV204-20-S8 MV205-20-S8 MV206-20-S8 MV207-20-S8 MV208-20-S8	2 outlets, NBR 3 outlets, NBR 4 outlets, NBR 5 outlets, NBR 6 outlets, NBR 7 outlets, NBR 8 outlets, NBR 2 outlets, FKM 3 outlets, FKM 4 outlets, FKM 5 outlets, FKM 6 outlets, FKM 7 outlets, FKM 8 outlets, FKM

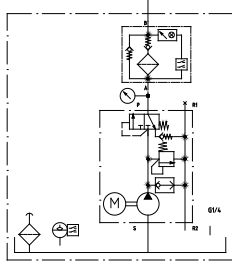
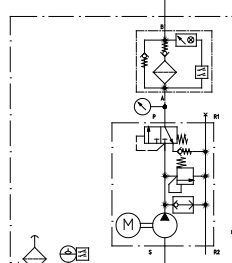


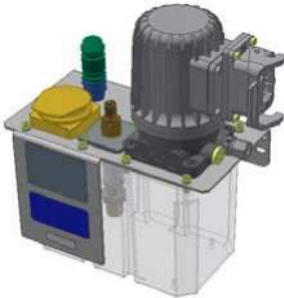
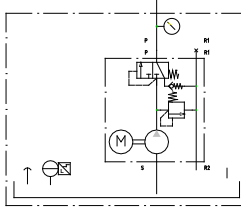
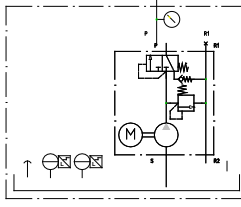
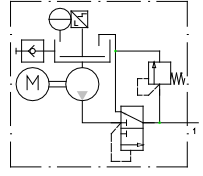
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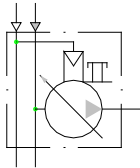
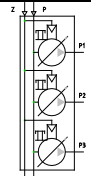
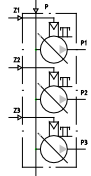
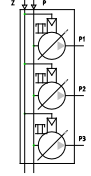
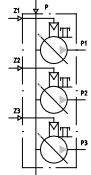
	Name	Preview	Symbol	SKF item no.	Remarks
3.4.3	Oil+Air mixing valve without metering			161-300-338-03 161-300-338-06 161-300-338-10 161-300-339 MV21 MV32 MV33 MV34 MV35 MV36 MV37 MV38 MV21-S1 MV32-S1 MV33-S1 MV34-S1 MV35-S1 MV36-S1 MV37-S1 MV38-S1	0,03cm³/Hub 0,06cm³/Hub 0,1/cm³/Hub
3.4.4	Oil+Air unit		see drawing	OLA01-3107+XXX OLA02-3107+XXX OLA03-3107+XXX OLA04-3107+XXX OLA05-3107+XXX OLA06-3107+XXX OLA07-3107+XXX OLA08-3107+XXX	1 outlets 2 outlets 3 outlets 4 outlets 5 outlets 6 outlets 7 outlets 8 outlets

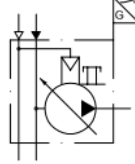
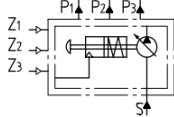
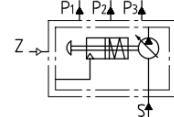
	Name	Preview	Symbol	SKF item no.	Remarks
3.5	Pump units				
3.5.1	Gear pump units MFE for piston distributor systems			MFE5-1006+XXX	0,5 l/min; 28 bar
3.5.2	Gear pump units MF for circulating and progressive systems			MFE1-S*+XXX MF1-S70+XXX MF2-1001+XXX MF2-1041+XXX MF5-1000+XXX MF5-S120+XXX	0,06l/min, 70bar 0,10 l/min, 28 bar 0,20 l/min, 60 bar 0,20 l/min, 28 bar 0,50 l/min, 28 bar 0,50 l/min, 60 bar
3.5.3	Gear pump units MF for circulating and progressive systems			ZM12-21-S10+XXX ZM25-2-S19+XXX	1,2 l/min 2,5 l/min
3.5.4	Gear pump units UM/UC for circulating and progressive systems			715-499-4249 715-499-4250 715-499-4251 715-499-4252 715-498-4192 715-498-4193 715-498-4194 715-498-4195	0,06 l/min 1,00 l/min 1,50 l/min 3,00 l/min 0,06 l/min 1,00 l/min 1,50 l/min 3,00 l/min

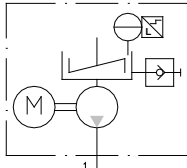
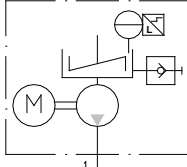
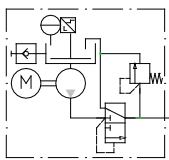
	Name	Preview	Symbol	SKF item no.	Remarks
3.5.5	Gerotor pump units 143 for circulating and progressive systems			143-012-143+XXX 143-012-145+XXX 143-012-146+XXX 143-012-111+XXX 143-012-112+XXX 143-012-113+XXX 143-012-114+XXX 143-012-115+XXX 143-012-116+XXX 143-012-219+XXX 143-012-220+XXX 143-012-222+XXX 143-012-223+XXX 143-012-224+XXX 143-012-226+XXX 143-012-227+XXX	0,85 l/min 1,70 l/min 2,50 l/min 2,50 l/min 5,25 l/min 5,25 l/min 9,00 l/min 9,00 l/min 12,50 l/min 0,85 l/min 1,70 l/min 9,00 l/min 9,00 l/min 12,50 l/min 12,50 l/min 12,50 l/min 19,00 l/min
3.5.6	Vane pumps			FLMF12-1000+XXX FLMF24-1000+XXX	1,20 l/min 2,40 l/min

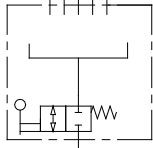
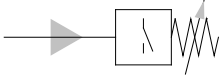
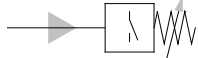
	Name	Preview	Symbol	SKF item no.	Remarks
3.6	Pump units with reservoir				
3.6.1	Gear pump units with plastic reservoir for piston distributor systems			MFE5-KW3-VW000+XXX MFE5-KW3-VW001+XXX MFE5-KW6-VW000+XXX MFE5-KW6-VW001+XXX	Reservoir 3l, filter 25µm Reservoir 3l, filter 10µm Reservoir 3l, filter 25µm Reservoir 3l, filter 10µm
3.6.2	Gear pump units with steel reservoir for progressive systems		see drawing	MF*-BW*VW000+XXX MF*-BW*VW001+XXX	Filter 25µm Filter 10µm
3.6.3	Gear pump units with metall reservoir for piston distributor systems			MFE5-BW3-VW000+XXX MFE5-BW3-VW001+XXX MFE5-BW7-VW000+XXX MFE5-BW7-VW001+XXX MFE5-BW16VW000+XXX MFE5-BW16VW001+XXX MFE5-BW30VW000+XXX MFE5-BW30VW001+XXX MFE5-BW51VW000+XXX MFE5-BW51VW001+XXX	Res. 3l, filter 25µm (supplied sep.) Res. 3l, filter 10µm (supplied sep.) Res.6l, filter 25 µm, Res.6l, filter 10 µm Res.15l, filter 25 µm, Res.15l, filter 10 µm Res.30l, filter 25 µm, Res.30l, filter 10 µm Res.50l, filter 25 µm, Res.50l, filter 10 µm

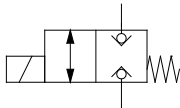
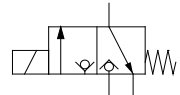
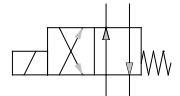
	Name	Preview	Symbol	SKF item no.	Remarks
3.6.4	Gear pump units with plastic tank for fluid grease and piston distributor systems (The signal of level switch must bevaluated as prewarning signal. The machine has to be switched off after x working cycles by PLC (Minimum-level)) Filter + fittings attached separately			MFE2-KW3FVW001+XXX	Reservoir 3l
3.6.5	Gear pump units with plastic tank for fluid grease and piston distributor systems			MFE2-KW6FVW001+XXX	Reservoir 6l
3.6.6	Compact units for gantries			KFB1-M-W-S14+924	24V/ DC, Reservoir 1l

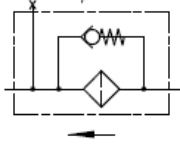
	Name	Preview	Symbol	SKF item no.	Remarks
3.7	Micro pumps				
3.7.1	Injection oiler, single			501-301-000 501-301-008 501-301-024 501-301-025	Pipe Ø2,5;NBR Pipe Ø2,5;FKM Pipe Ø4; NBR Pipe Ø4; FKM
3.7.2	Injection oiler, 3 outlets			501-303-003 501-303-021 501-303-029	Pipe Ø2,5; NBR Pipe Ø4; NBR Pipe Ø4; FKM
3.7.3	Injection oiler, 3 outlets, group actuation			501-303-000 501-303-008 501-303-024 501-303-028	Pipe Ø2,5;NBR Pipe Ø2,5;NBR Pipe Ø4; NBR Pipe Ø4; FKM
3.7.4	Injection oiler, single, with quick connectors			501-301-024-VS	Pipe Ø4, NBR
3.7.5	Injection oiler, 3 outlets, with quick connectors			501-303-026-VS	Pipe Ø4, NBR

	Name	Preview	Symbol	SKF item no.	Remarks
3.7.7	Injection oiler, 1-outlet, with monitoring			501-301-095	Pipe Ø4mm, NBR
3.7.8	Injection oiler, 3-outlets, with monitoring, single and group actuation			501-303-038	Group actuation Pipe Ø4mm, NBR
				501-303-037	Single Actuation Pipe Ø4mm, NBR

3.8 Piston pumps					
3.8.1	Electrically operated piston pumps for grease NLGI 1,0,00,000			KFG10-5W2-VW+486 KFG30-5W2-VW+486 KFG1-5W2-M-VW+924 KFG3-5W2-M-VW+924	230V, 50Hz, 2l reservoir 230V, 50 Hz, 5l reservoir 24V, DC, 2l reservoir 24V, DC, 5l reservoir
3.8.2	Electrically operated piston pumps for grease NLGI 2			KFG10-5W1-VW+486 KFG30-5W1-VW+486 KFG1-5W1-M-VW+924 KFG3-5W1-M-VW+924	230V, 50Hz, 2l reservoir 230V, 50 Hz, 5l reservoir 24V, DC, 2l reservoir 24V, DC, 5l reservoir
3.8.3	Pump elements for KFG pumps			KFG1.U0 KFG1.U1 KFG1.U2 KFG1.U3 KFG1.U4	5,0 cm ³ /min 2,5 cm ³ /min 1,8 cm ³ /min 1,3 cm ³ /min 0,8 cm ³ /min
3.8.4	Pressure regulating valve for KFG and KFA pumps			161-210-042 161-210-041 161-210-040	120 bar, Ø 6 120 bar, Ø 8 120 bar, Ø 10
3.8.5	Electrically operated piston pumps for grease NLGI 000 to 2			KFA1-M-W-S4+924	24V, DC
3.8.5	Pump elements for KFA pumps			KFA1.U1 KFA1.U2 KFA1.U3	1,00 cm ³ /min 0,75 cm ³ /min 0,50 cm ³ /min

3.9 Leakage oil tank			K3-S10	Connection for pipe diameter 6mm (6x)
3.10 Monitoring devices				
3.10.1 Pressure switch, electronical Pressure range 0...100 bar with IO-link, rotatable 345° Connecting thread G1/4 Item nr.: PN7092 Operating voltage: 18...30VDC			176-190-020	IFM  IO-Link
3.10.1 Pressure switch, electronical			DS-EP-40-D-4-S2	Hydac
3.11 Pressure gauge				
3.11.1 green: 0-30 bar, red: 30-40bar green: 0-40 bar, red: 40-60bar 0-125 bar			169-104-011 169-106-011 169-125-011	

3.12 Solenoid valves					
3.12.1	2/2 directional control valve			161-110-031+924	
3.12.2	3/2 directional control valve			161-120-064+924	
3.12.3	4/2 directional control valve			161-140-050+924	
3.12.4	Plug for valves DIN EN 175301-803/ M12x1			179-990-461	
3.13 Filter					
3.13.1	25µm with reversing valve 10µm with reversing valve			169-460-255 169-460-155	25µm, Hydac 10µm, Hydac

3.13.2	Strainer for fluid grease			213-930F	
3.14 Hoses and Fittings					
3.14.1	High pressure hoses for self-installation		982-750-xxx WVN711-10	See 1-0103-de	Page 35
3.14.2	Fittings for main lines EO2			See 1-0103-de	Page 27-28
3.14.3	Fittings for secondary lines SKF quick connectors http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			See 1-0103-de	Page 19-21
3.14.4	Fittings for secondary lines Solderless pipe union with tapered sleeve acc. to DIN 3862 http://skf-lubrication.partcommunity.com/portal/portal/skf-lubrication			See 1-0103-de	Page 4-18
3.14.5	Vent-(V) plug screw (P) (with EO-lastic sealing)		466-431-005 466-431-009 466-416-001	M10x1 G1/8 G1/4	(V) (V) (P)