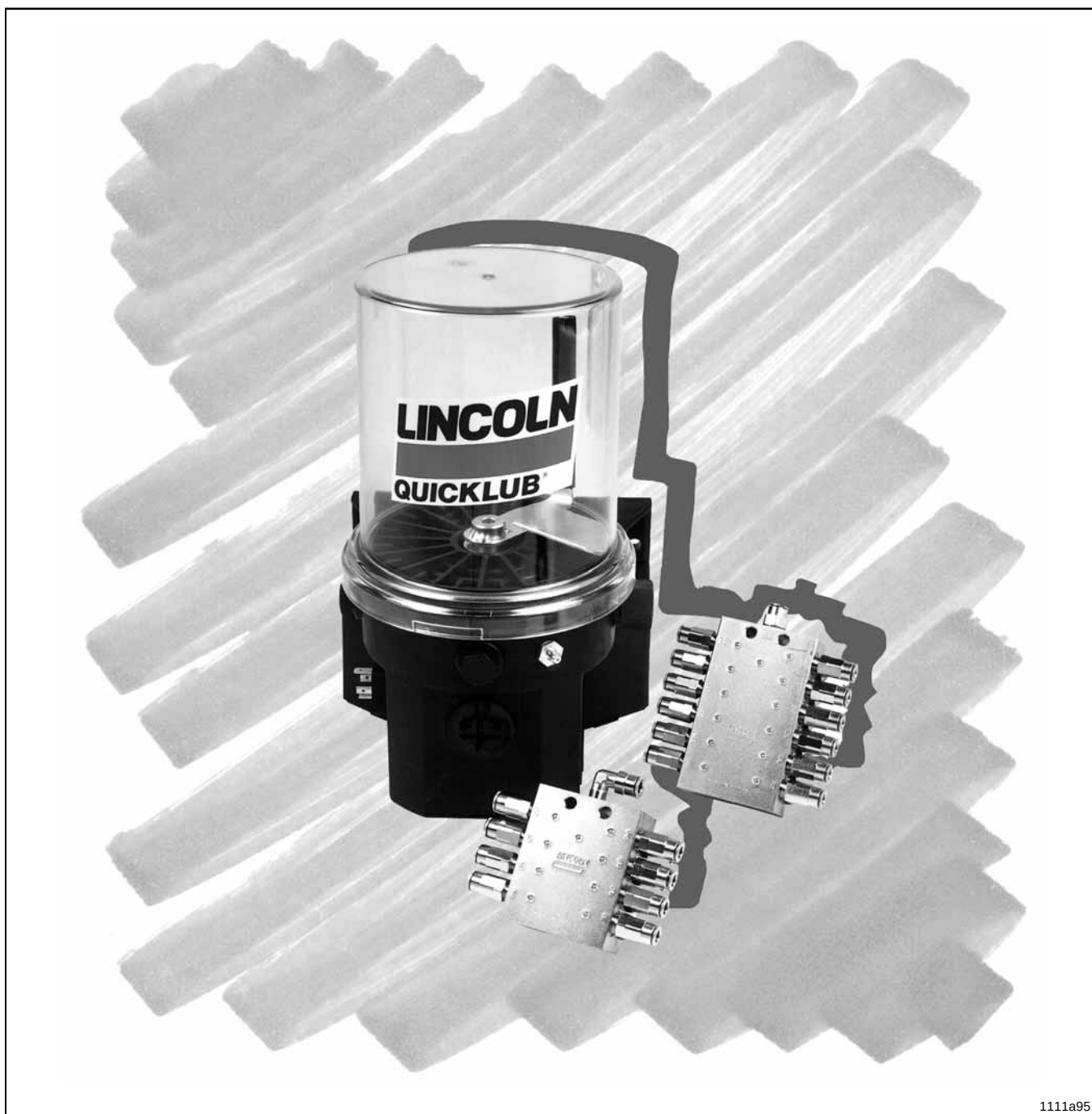


Quicklub®

***Progressive Centralized Lubrication Systems
for Commercial Mineral Oils with Minimum 40 mm²/s (cST)
and Greases up to NLGI Grade 2***



Subject to modification

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Technical description Quickclub Pump 203
Technical description for "Electronic control units" of pump 203:

Control p.c.b. 236-13891-1 - model V10-V13
Control p.c.b. 236-13857-1 - model H
Control p.c.b. 236-13870-1 - model M 08 - M 15
Control p.c.b. 236-13870-1 - model M 16 - M 23
Installation instructions

Subject to modification

Electric Central Lubrication Pump Model 203: 2L, 4L and 8L



Fig. 1 Assortment of electric central lubrication pumps 203

The following parts belong to the scope of delivery of the pumps 203:

- **Pump bottom**, with motor 12 or 24 VDC
- **Reservoir** with/without lid (2, 4, 8, 15 liter), with grease filling 0.75 kg (for 2L reservoir), 1.5 kg (for 4 L, 8 L and 15 L reservoir)
- **Pump element(s)**: 1 - 3 pump elements can be used
The following models are available:
 - For grease or oil supply with fixed lubricant output
 - K5 piston Ø 5 mm; 2 cm³/min
 - K6 piston Ø 6 mm; 2.8 cm³/min
 - K7 piston Ø 7 mm; 4 cm³/min
 - B7 piston Ø 7 mm; 2 cm³/min
 - For grease or oil supply with adjustable output (KR)
 - piston Ø 7 mm; 0.7 cm³ - 3 cm³/min
 - For supply of chisel paste (C7; S7 for synthetic grease)
 - piston Ø 7 mm; 4 cm³/min
- **Accessories**
 - *Pressure relief valve* - must be ordered separately (versions, see under 'Pressure relief valves'), fixing screws with *accessories*, drilling template and operating instructions
 - *Low-level control*, if any. The parts are integrated in the pump bottom and in the reservoir.
 - *Power supply for the connection to 230 VAC*, if any, is integrated in the pump bottom, possible with/ without control p.c.b. V10-V13 or p.c.b. M08-M23
- **ontrol p.c.b.** for 12/24 VDC in the versions:
Pump without control p.c.b. V10-V13 (V20-V23 for USA), H, M08-M23

Electric Central Lubrication Pump Model 203: 2L, 4L and 8L, continuation

• **Electrical connections** (see identification code)

Control p.c.b.	Low-level control	Square type plug DIN 43650 Design A	Bayonet plug DIN 72585-1	AMP plug	10 m cable	Socket for 1 piston detector	Socket for 2 piston detectors	Type of connection
without		1x			1x (4-core)			1A1.10
without			1x		1x (4-core)			1A5.14
without		1x						1A1.01
without	1x	1x			1x (4-core)			1A1.10
without	1x	2x			1x (4-core)			2A1.10
without	1x	2x						2A1.01
V 10 to V 13, H		1x			1x (4-core)			1A1.10
V 10 to V 13, H	1x	2x			1x (4-core)			2A1.10
V 10 to V 13, H			1x		1x (4-core)			1A5.14
V 10 to V 13, H	1x		1x		1x 4-core)			1A5.14
V 10 to V 13, H		2x			1x (4-core)			2A1.10
V 10 to V 13, H		1x	1x		1x (6-core)			2A7.16
V 10 to V 13, H			1x		1x (6-core)			1A7.16
V 10 to V 13, H		1x						1A1.01
V 10 to V 13, H	1x	2x						2A1.01
V 10 to V 13, H		2x						1A1.01
M 08 to M 23				1x	1x (5-core)	1x		2 A4.13
M 08 to M 23	1x			1x	1x (5-core)	1x		2 A4.13
M 08 to M 23				1x	1x (5-core)		1x	2A9.13
M 08 to M 23	1x			1x	1x (5-core)		1x	2A9.13
M 08 to M 23	1x		1x		1x (5-core)	1x		2 A6.15
M 08 to M 23	1x		1x		1x (5-core)		1x	2 A6.15
M 08 to M 23	1x	1x	1x		1x (5-core)	1x		3A6.15
M 08 to M 23	1x	1x	1x		1x (5-core)		1x	3A6.15



6001a02

IMPORTANT

*The pump part numbers listed here are only an extract of the standard pump program.
Special pumps or customized pumps are not listed, however, may be included by chance.*

Pump P 203 DC without control p.c.b.

Reservoir for grease without low-level control; 10 m connecting cable

2 Litre

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-2XN-1K6-12-1A1.10	644-37456-1	P203-2XN-1K5-24-1A1.10	644-37422-1
		P203-2XN-1K6-24-1A1.10	644-37444-1
		P203-2XN-3K6-24-1A1.10	644-40441-1
		P203-2XN-1K7-24-1A1.10	644-37519-1
		P203-2XN-2K7-24-1A1.10	644-40640-1

2 Litre, flat-type reservoir

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-2XNFL-1K6-12-1A1.10	644-37502-1		

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2XNBO-1K6-24-1A1.10	644-40608-2
P203-2XNBO-2K6-24-1A1.10	644-40608-1
P203-2XNBO-1K7-24-1A1.10	644-40608-9

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4XNBO-1K6-24-1A1.10	644-37486-1
P203-4XNBO-1K7-24-1A1.10	644-37494-1

4 Litre, with reservoir lid, chisel paste

Model 24 VDC	Part no.
P203-4XNBO-1C7-24-1A1.10	644-37597-8

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8XNBO-1K6-24-1A1.10	644-37483-1
P203-8XNBO-3K6-24-1A1.10	644-40645-5
P203-8XNBO-1K7-24-1A1.10	644-40645-6
P203-8XNBO-3K7-24-1A1.10	644-40645-8

8 Litre, with reservoir lid, chisel paste

Model 24 VDC	Part no.
P203-8XNBO-2C7-24-1A1.10	644-40645-9

Reservoir for grease without low-level control; with connecting plug

2 Litre

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-2XN-2K6-12-1A1.01	644-40732-8	P203-2XN-2K5-24-1A1.01	644-40613-4
		P203-2XN-1K6-24-1A1.01	644-40613-5
		P203-2XN-2K6-24-1A1.01	644-40613-1
		P203-2XN-3K6-24-1A1.01	644-40520-4
		P203-2XN-1K7-24-1A1.01	644-40520-2
		P203-2XN-3K7-24-1A1.01	644-40613-3

2 Litre, with reservoir lid

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-2XNBO-1K5-12-1A1.01	644-40583-1	P203-2XNBO-1K5-24-1A1.01	644-40540-2
		P203-2XNBO-1K6-24-1A1.01	644-40540-1
		P203-2XNBO-2K6-24-1A1.01	644-40540-8
		P203-2XNBO-3K6-24-1A1.01	644-40540-7
		P203-2XNBO-1K7-24-1A1.01	644-40540-6
		P203-2XNBO-2K7-24-1A1.01	644-40583-9
		P203-2XNBO-3K7-24-1A1.01	644-40583-4

Pump P 203 DC without control p.c.b., continuation

Reservoir for grease without low-level control; with connecting plug, continuation

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4XNBO-1K5-24-1A1.01	644-40581-4
P203-4XNBO-1K6-24-1A1.01	644-40581-8
P203-4XNBO-2K6-24-1A1.01	644-40597-7
P203-4XNBO-1K7-24-1A1.01	644-40581-2
P203-4XNBO-3K7-24-1A1.01	644-40600-1
P203-4XNBO-2K7-24-1A1.01	644-40581-3
P203-4XNBO-3K6-24-1A1.01	644-40600-4
P203-4XNBO-2K5-24-1A1.01	644-40549-7
P203-4XNBA-3K6-24-1A1.01	644-40703-9

8 Litre, with reservoir lid

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-8XNBO-1K6-12-1A1.01	644-40770-9	P203-8XNBO-3K5-24-1A1.01	644-40615-7
		P203-8XNBO-1K6-24-1A1.01	644-40550-1
		P203-8XNBO-3K6-24-1A1.01	644-40666-7
		P203-8XNBO-1K7-24-1A1.01	644-40615-1
		P203-8XNBO-2K7-24-1A1.01	644-40615-8
		P203-8XNBO-3K7-24-1A1.01	644-40615-5

Reservoir for grease with low-level control; 10 m connecting cable

2 Litre

Model 24 VDC	Part no.
P203-2XL-1K6-24-2A1.10	644-37478-1
P203-2XL-1K7-24-2A1.10	644-37487-1
P203-2XL-3K6-24-2A1.10	644-40640-3

2 Litre, filling from the tip

Model 24 VDC	Part no.
P203-2XLBO-1K6-24-2A1.10	644-40608-7
P203-2XLBO-1K7-24-2A1.10	644-40608-6

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4XLBO-1K6-24-2A1.10	644-37515-1
P203-4XLBO-2K7-24-2A1.10	644-37597-9
P203-4XLBO-3K5-24-1A1.01	644-40581-7
P203-4XLBO-3K7-24-2A1.01	644-40600-5
P203-4XLBO-3K5-24-2A1.01	644-40549-4
P203-4XLBO-2K7-24-2A1.01	644-40549-8
P203-4XLBO-2K6-24-2A1.01	644-40549-9

8 Litre

Model 24 VDC	Part no.
P203-8XLBO-1K6-24-2A1.10	644-37491-1
P203-8XLBO-1K7-24-2A1.10	644-40645-3

Pump P 203 DC without control p.c.b., continuation

Reservoir for grease with low-level control; connecting plug

2 Litre

Model 24 VDC	Part no.
P203-2XL-3K5-24-2A1.01	644-40613-7
P203-2XL-1K6-24-2A1.01	644-40613-2
P203-2XL-1K7-24-2A1.01	644-40520-5

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2XLBO-1K5-24-2A1.01	644-40664-6
P203-2XLBO-1K6-24-2A1.01	644-40540-3
P203-2XLBO-1K7-24-2A1.01	644-40540-9
P203-4XLBO-3K6-24-2A1.01	644-40581-5
P203-4XLBO-2K5-24-2A1.01	644-40581-6
P203-2XLBO-3K6-24-2A1.01	644-40851-8
P203-2XLBO-1KR-24-2A1.01	644-40851-4
P203-2XLBO-2KR-24-2A1.01	644-40851-5

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4XLBO-1K6-24-2A1.01	644-40549-2
P203-4XLBO-1K7-24-2A1.01	644-40549-5
P203-4XLBO-3K6-24-2A1.01	644-40581-5

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8XLBO-2K5-24-2A1.01	644-40615-2
P203-8XLBO-3K6-24-2A1.01	644-40666-4
P203-8XLBO-1K7-24-2A1.01	644-40550-4
P203-8XLBO-2K7-24-2A1.01	644-40666-1
P203-8XLBO-3K7-24-2A1.01	644-40666-6
P203-8XLBO-3K5-24-2A1.01	644-40550-5
P203-8XLBO-2K6-24-2A1.01	644-40550-6
P203-8XLBO-1K6-24-2A1.01	644-40550-7
P203-8XLBA-1K6-24-2A1.01	644-40861-1

Reservoir for oil without low-level control; 10 m connecting cable

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2YNBO-1K7-24-1A1.10	644-40608-8
P203-2YNBO-1K6-24-1A1.10	644-40608-4
P203-2YNBO-3K6-24-1A1.10	644-40776-2

4 Litre, with reservoir lid

Model 12 VDC	Part no.	Model 24 VDC	Part no.
P203-4YNBO-1K6-12-1A1.10	644-40597-3	P203-4YNBO-1K5-24-1A1.10	644-40597-4
P203-4YNBO-1K7-12-1A1.10	644-40597-2	P203-4YNBO-2K5-24-1A1.10	644-40597-6
		P203-4YNBO-1K6-24-1A1.10	644-40597-5

Model 24 VDC	Part no.
P203-8YNBO-2KR-24-1A1.10	644-40645-7

Pump P 203 DC without control p.c.b., continuation

Reservoir for oil without low-level control; connecting plug

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4YNBO-1K5-24-1A1.01	644-40581-9
P203-4YNBO-1K6-24-1A1.01	644-40633-7
P203-4YNBO-2K6-24-1A1.01	644-40633-8
P203-4YNBO-1K7-24-1A1.01	644-40633-3

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8YNBO-1K5-24-1A1.01	644-40615-9
P203-8YNBO-1K6-24-1A1.01	644-40550-9
P203-8YNBO-1K7-24-1A1.01	644-40615-4
P203-8YNBO-1K7-24-1A1.01	644-40615-4
P203-8YNBO-1KR-24-1A1.01	644-40861-7

Reservoir for oil with low-level control; 10 m connecting cable

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2YLBO-1K6-24-2A1.10	644-40608-4

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4YLBO-1K6-24-1A1.10	644-40597-1

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8YLBO-1K6-24-1A1.10	644-40645-2
P203-8YLBO-1K7-24-1A1.10	644-40645-1

Reservoir for oil with low-level control; connecting plug

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2YLBO-1K6-24-2A1.01	644-40583-3

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4YLBO-1K7-24-1A1.01	644-40600-9
P203-4YLBO-2K7-24-1A1.01	644-40600-6
P203-4YLBO-3K5-24-1A1.01	644-40600-7

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8YLBO-1K6-24-1A1.01	644-40550-8
P203-8YLBO-1K7-24-1A1.01	644-40666-5
P203-8YLBO-2K7-24-1A1.01	644-40666-3

Pump P 203 AC without control p.c.b.

Reservoir for grease without low-level control; AC; connecting plug

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2XNBO-3K6-AC-1A1.01	644-40782-1

4 Litre, with reservoir lid

Model 230 AC	Part no.
P203-4XNBO-1K6-AC-1A1.01	644-40718-7

8 Litre, with reservoir lid

Model 230 AC	Part no.
P203-8XNBO-1K6-AC-1A1.01	644-40721-9
P203-8XNBO-3K7-AC-1A1.01	644-40808-8

Reservoir for grease with low-level control; AC; connecting plug

2 Litre

Model 230 AC	Part no.
P203-2XL-1K6-AC-1A1.01	644-40717-1
P203-2XL-1K6-AC-2A1.01	644-40849-3

4 Litre, with reservoir lid

Model 230 AC	Part no.
P203-4XLBO-1K6-AC-2A1.01	644-40718-1

8 Litre, with reservoir lid

Model 230 AC	Part no.
P203-8XLBO-1K6-AC-2A1.01	644-40721-5

Reservoir for oil without low-level control; AC; connecting plug

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2YNBO-1KR-AC-1A1.01	644-40849-7

8 Litre

Model 230 AC	Part no.
P203-8YNBO-1K5-AC-1A1.01	644-40808-4

Reservoir for oil with low-level control; AC; connecting plug

8 Litre

Model 230 AC	Part no.
P203-8YLB0-2K7-AC-1A1.01	644-40666-9

Pump P 203 DC with control p.c.b. V10-V13

Reservoir for grease without low-level control; V10-V13 p.c.b.; 10 m connecting cable

2 Litre

Model 12 VDC

Part no.	
P203-2XN-1K6-12-1A1.10-V10	644-37423-1
P203-2XN-1K6-12-2A1.10-V10	644-37425-1

Model 24 VDC

Part no.	
P203-2XN-1K6-24-1A1.10-V10	644-37424-1
P203-2XN-1K6-24-2A1.10-V10	644-37426-1
P203-2XN-1K7-24-2A1.10-V10	644-40657-6
P203-2XN-2K7-24-2A1.10-V10	644-40601-2
P203-2XN-1K6-24-1A1.10-V11	644-40601-3
P203-2XN-2K6-24-1A1.10-V10	644-40601-4
P203-2XN-1K6-24-2A1.10-V12	644-40601-6
P203-2XN-1K6-24-1A1.10-V12	644-40601-9
P203-2XN-1K6-24-1A1.10-V11	644-40874-1
P203-2XN-1K6-24-1A7.16-V10	644-40874-5

2 Litre, with reservoir lid

Model 12 VDC

Part no.	
P203-2XNBO-1K5-12-1A1.10-V10	644-40636-5

Model 24 VDC

Part no.	
P203-2XNBO-1K5-24-1A1.10-V10	644-40636-3
P203-2XNBO-1K6-24-1A1.10-V10	644-37510-1
P203-2XNBO-1K6-24-2A1.10-V10	644-37514-1
P203-2XNBO-1K6-24-2A1.10-V13	644-40636-7
P203-2XNBO-1K6-24-1A1.10-V13	644-40636-8
P203-2XNBO-1K7-24-1A1.10-V10	644-40636-6
P203-2XNBO-1K7-24-2A1.10-V10	644-40636-2
P203-2XNBO-3K6-24-1A1.10-V10	644-40772-6

2 Litre, flat-type reservoir

Model 24 VDC

Part no.	
P203-2XNFL-1K6-24-1A1.10-V10	644-37470-1
P203-2XNFL-1K6-24-2A1.10-V10	644-37471-1

4 Litre, with reservoir lid

Model 12 VDC

Part no.	
P203-4XNBO-1K6-12-1A1.10-V10	644-40599-1
P203-4XNBO-1K6-12-2A1.10-V10	644-37501-1
P203-4XNBO-1K7-12-2A1.10-V10	644-40599-7

Model 24 VDC

Part no.	
P203-4XNBO-1K6-24-1A1.10-V10	644-37481-1
P203-4XNBO-1K6-24-2A1.10-V10	644-37480-1
P203-4XNBO-2K6-24-2A1.10-V10	644-37499-6
P203-4XNBO-1K7-24-1A1.10-V10	644-40662-3
P203-4XNBO-3K7-24-1A1.10-V10	644-40599-8
P203-4XNBO-1K7-24-2A1.10-V10	644-40662-1
P203-4XNBO-3K6-24-1A1.10-V10	644-40753-4
P203-4XNBO-1K5-24-1A1.10-V11	644-40860-3

8 Litre, with reservoir lid

Model 12 VDC

Part no.	
P203-8XNBO-1K6-12-1A1.10-V10	644-40683-2
P203-8XNBO-1K6-12-2A1.10-V10	644-40683-1
P203-8XNBO-2K7-12-1A1.10-V10	644-40683-7

Model 24 VDC

Part no.	
P203-8XNBO-1K5-24-2A1.10-V10	644-40683-5
P203-8XNBO-1K6-24-1A1.10-V10	644-37475-1
P203-8XNBO-1K6-24-2A1.10-V10	644-37474-1
P203-8XNBO-2K6-24-1A1.10-V10	644-40610-3
P203-8XNBO-1K7-24-1A1.10-V10	644-37534-1
P203-8XNBO-2K7-24-1A1.10-V10	644-40683-3
P203-8XNBO-3KR-24-1A1.10-V10	644-40683-6

8 Litre

Model 24 VDC

Part no.	
P203-8XN-1K6-24-1A1.10-V10	644-40969-1
P203-8XN-1K6-24-2A1.10-V10	644-40969-2

Pump P 203 DC with control p.c.b. V10-V13, continuation

Reservoir for grease without low-level control; V10-V13 p.c.b.; connecting plug

2 Litre

Model 12 VDC

P203-2XN-1K6-12-2A1.01-V10 Part no. 644-40563-9

Model 24 VDC

	Part no.
P203-2XN-1K5-24-1A1.01-V10	644-40563-5
P203-2XN-1K6-24-1A1.01-V10	644-40563-2
P203-2XN-1K6-24-2A1.01-V10	644-40670-3
P203-2XN-1K6-24-1A1.01-V12	644-40670-1
P203-2XN-1K7-24-1A1.01-V10	644-40670-9
P203-2XN-1K7-24-2A1.01-V10	644-40670-4
P203-2XN-2K5-24-1A1.01-V11	644-40563-6

2 Litre, with reservoir lid

Model 24 VDC

	Part no.
P203-2XNBO-1K6-24-1A1.01-V10	644-40565-1
P203-2XNBO-3K6-24-1A1.01-V10	644-40641-3
P203-2XNBO-1K7-24-1A1.01-V10	644-37565-4
P203-2XNBO-1K7-24-2A1.01-V10	644-37565-5
P203-2XNBO-2K7-24-1A1.01-V10	644-40641-1
P203-2XNBO-1K7-24-2A1.01-V12	644-40565-3
P203-2XNBO-2K6-24-1A1.01-V10	644-40817-9

4 Litre, with reservoir lid

Model 24 VDC

	Part no.
P203-4XNBO-1K5-24-1A1.01-V10	644-40586-6
P203-4XNBO-1K6-24-1A1.01-V10	644-40650-8
P203-4XNBO-2K6-24-1A1.01-V10	644-40586-9
P203-4XNBO-1K6-24-1A1.01-V13	644-40650-3
P203-4XNBO-1K7-24-1A1.01-V10	644-40586-4
P203-4XNBO-1K7-24-1A1.01-V12	644-40586-2
P203-4XNBO-1K7-24-2A1.01-V10	644-40650-5

4 Litre

Model 24 VDC

	Part no.
P203-4XN-1K6-24-1A1.10-V10	644-40860-5

8 Litre

Model 24 VDC

	Part no.
P203-8XNBO-1K6-24-2A1.01-V10	644-40594-9
P203-8XNBO-1K7-24-1A1.01-V10	644-40594-8
P203-8XNBO-1K7-24-1A1.01-V12	644-40594-7
P203-8XNBO-1K7-24-2A1.01-V10	644-40594-4
P203-8XNBO-2K7-24-1A1.01-V10	644-40691-1
P203-8XNBO-3K7-24-1A1.01-V10	644-40594-1
P203-8XNBO-2K6-24-2A1.10-V10	644-40833-8
P203-8XNBO-3K6-24-1A1.10-V10	644-40833-5
P203-8XNBA-1K6-24-2A1.10-V10	644-46102-7
P203-8XNBA-1C7-24-2A1.10-V10	644-46208-5

Pump P 203 DC with control p.c.b. V10-V13, continuation

Reservoir for grease with low-level control; V10-V13 p.c.b.; 10 m connecting cable

2 Litre

Model 12 VDC

P203-2XL-1K6-12-2A1.10-V10

Part no.

644-40601-5

Model 24 VDC

P203-2XL-1K6-24-2A1.10-V10

P203-2XL-3K6-24-2A1.10-V10

Part no.

644-37460-1

644-40874-2

2 Litre, with reservoir lid

Model 24 VDC

P203-2XLBO-1K6-24-2A1.10-V10

P203-2XLBO-1K7-24-2A1.10-V10

Part no.

644-37599-1

644-40636-4

4 Litre, with reservoir lid

Model 24 VDC

P203-4XLBO-1K5-24-2A1.10-V10

P203-4XLBO-1K6-24-2A1.10-V10

P203-4XLBO-1K7-24-2A1.10-V10

Part no.

644-37599-2

644-37516-1

644-37599-5

8 Litre, with reservoir lid

Model 12 VDC

P203-8XLBO-1K6-24-2A1.10-V10

P203-8XLBO-3K6-24-2A1.10-V10

Part no.

644-37455-1

644-40683-8

Model 24 VDC

P203-8XLBO-2K7-24-2A1.10-V11

P203-8XLBO-3K6-24-2A1.10-V11

P203-8XLBO-3K7-24-2A1.10-V10

P203-8XLBO-1K6-24-2A1.10-V10

Part no.

644-40610-5

644-40610-6

644-40610-1

644-40610-2

Reservoir for grease with low-level control; V10-V13 p.c.b.; connecting plug

2 Litre

Model 12 VDC

P203-2XL-1K6-12-2A1.10-V10

Part no.

644-37460-5

Model 24 VDC

P203-2XL-1K6-24-2A1.01-V10

P203-2XL-2K7-24-2A1.01-V10

P203-2XL-1K6-24-2A1.01-V13

Part no.

644-40563-4

644-40563-1

644-40109-8

2 Litre, with reservoir lid

Model 24 VDC

P203-2XLBO-1K6-24-2A1.01-V10

P203-2XLBO-2K6-24-2A1.01-V10

P203-2XLBO-1K7-24-2A1.01-V10

Part no.

644-40641-4

644-40641-6

644-40670-6

4 Litre, with reservoir lid

Model 24 VDC

P203-4XLBO-1K6-24-2A1.01-V10

P203-4XLBO-1K7-24-2A1.01-V10

P203-4XLBO-1K7-24-2A1.01-V12

P203-4XLBO-1K7-24-2A1.01-V13

Part no.

644-40586-5

644-40586-3

644-40586-1

644-40586-7

8 Litre, with reservoir lid

Model 24 VDC

P203-8XLBO-1K6-24-2A1.01-V10

P203-8XLBO-1K7-24-2A1.01-V10

P203-8XLBO-2K7-24-2A1.01-V10

P203-8XLBO-3K7-24-2A1.01-V10

Part no.

644-40691-3

644-40594-6

644-40594-3

644-40594-5

Pump P 203 DC with control p.c.b. V10-V13, continuation

Reservoir for grease without low-level control; V10-V13 p.c.b.; 10 m connecting cable, ADR

2 Litre

Model 12 VDC

P203-2XN-1K6-12-1A1.11-V10-ADR

Part no.

644-37446-1

Model 24 VDC

P203-2XN-1K6-24-1A1.11-V10-ADR

Part no.

644-37447-1

P203-2XN-1K6-24-2A1.11-V10-ADR

644-37454-1

2 Litre, with reservoir lid

Model 12 VDC

P203-2XNBO-1K6-12-1A1.11-V10-ADR

Part no.

644-37454-1

Reservoir for oil without low-level control; V10-V13 p.c.b.; 10 m connecting cable

2 Litre, with reservoir lid

Model 24 VDC

P203-2YNBO-1K6-24-1A1.10-V10

Part no.

644-37468-1

P203-2YNBO-1K6-24-2A1.10-V10

644-37499-1

P203-2YNBO-1K7-24-2A1.10-V10

644-37497-1

4 Litre, with reservoir lid

Model 24 VDC

P203-4YNBO-1K6-24-1A1.10-V10

Part no.

644-40662-2

Reservoir for oil without low-level control; V10-V13 p.c.b.; connecting plug

2 Litre, with reservoir lid

Model 24 VDC

P203-2YNBO-1K6-24-1A1.01-V10

Part no.

644-40641-2

P203-2YNBO-1K6-24-2A1.01-V10

644-40641-9

P203-2YNBO-1K7-24-1A1.01-V10

644-40641-5

P203-2YNBO-2K6-24-1A1.01-V10

644-40565-7

P203-2YNBO-3K6-24-1A1.01-V10

644-40717-4

4 Litre

Model 24 VDC

P203-4XLBO-3K6-24-2A1.01-V10

Part no.

644-40662-8

8 Litre, with reservoir lid

Model 24 VDC

P203-8YNBO-1K7-24-1A1.01-V10

Part no.

644-40594-2

Pump P 203 DC with control p.c.b. V10-V13, continuation

Reservoir for oil with low-level control; V10-V13 p.c.b.; 10 m connecting cable

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2YLBO-1K6-24-2A1.01-V10	644-40641-5
P203-2YLBO-1K6-24-2A1.01-V11	644-40641-7

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4YLBO-1K6-24-2A1.10-V10	644-40599-4
P203-4YLBO-1K7-24-2A1.10-V10	644-40599-3

Reservoir for oil with low-level control; V10-V13 p.c.b.; connecting plug

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-2YLBO-3K6-24-1A1.01-V10	644-40817-3

4 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-4YLBO-2K6-24-2A1.01-V10	644-40650-4

8 Litre, with reservoir lid

Model 24 VDC	Part no.
P203-8YLBO-2K6-24-2A1.01-V10	644-40691-2
P203-8YLBO-1K7-24-2A1.01-V10	644-40691-4
P203-8YLBO-3K6-24-1A1.01-V10	644-40727-2

Pump P 203 AC with control p.c.b. V10-V13

Reservoir for grease without low-level control; V10-V13 p.c.b.; AC; connecting plug

2 Litre

Model 230 AC	Part no.
P203-2XN-1K6-AC-1A1.01-V10	644-40716-1

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2XNBO-1K6-AC-1A1.01-V10	644-40716-2

4 Litre, with reservoir lid

Model 230 AC	Part no.
P203-4XNBO-1K6-AC-1A1.01-V10	644-40719-5

8 Litre, with reservoir lid

Model 230 AC	Part no.
P203-8XNBO-1K6-AC-1A1.01-V10	644-40720-1

Pump P 203 AC with control p.c.b. V10-V13, continuation

Reservoir for grease without low-level control; V10-V13 p.c.b.; AC; connecting plug

2 Litre

Model 230 AC	Part no.
P203-2XN-1K6-AC-1A1.01-V10	644-40716-1

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2XNBO-1K6-AC-1A1.01-V10	644-40716-2

4 Litre, with reservoir lid

Model 230 AC	Part no.
P203-4XNBO-1K6-AC-1A1.01-V10	644-40719-5

8 Litre, with reservoir lid

Model 230 AC	Part no.
P203-8XNBO-1K6-AC-1A1.01-V10	644-40720-1

Reservoir for grease with low-level control; V10-V13 p.c.b.; AC; connecting plug

2 Litre

Model 230 AC	Part no.
P203-2XLBO-1K7-AC-2A1.01-V10	644-40845-6

4 Litre, with reservoir lid

Model 230 AC	Part no.
P203-4XLBO-1K6-AC-2A1.01-V10	644-40799-1
P203-4XLBO-3K6-AC-2A1.01-V10	644-40719-8

8 Litre, with reservoir lid

Model 230 AC	Part no.
P203-8XLBO-1K6-AC-2A1.01-V10	644-40762-2

Reservoir for oil without low-level control; V10-V13 p.c.b.; AC; connecting plug

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2YNBO-3K6-AC-1A1.01-V10	644-40834-4

Reservoir for oil with low-level control; V10-V13 p.c.b.; AC; connecting plug

2 Litre, with reservoir lid

Model 230 AC	Part no.
P203-2YLBO-3K6-AC-1A1.01-V10	644-40834-3

Pump P 203 DC with control p.c.b. M08-M23

Reservoir for grease without low-level control; M08-M23 p.c.b.; 10 m connecting cable

2 Litre

Model 12 VDC

P203-2XN-1K6-12-2A4.12-M00 **Part no.** 644-37537-1

Model 24 VDC

P203-2XN-1K6-24-2A4.12-M08 **Part no.** 644-40557-1
P203-2XN-1K6-24-2A6.15-M09 644-40709-9

2 Litre, with reservoir lid

Model 12 VDC

P203-2XNBO-1K6-12-2A4.12-M08 **Part no.** 644-40589-2
P203-2XNBO-1K6-12-2A6.15-M08 644-40821-3

Model 24 VDC

P203-2XNBO-1K6-24-2A4.12-M08 **Part no.** 644-40589-3
P203-2XNBO-1K7-24-2A4.12-M08 644-40535-7
P203-2XNBO-1K6-24-2A6.15-M13 644-40821-5

4 Litre, with reservoir lid

Model 12 VDC

P203-4XNBO-1K6-12-2A6.15-M08 **Part no.** 644-40919-1

Model 24 VDC

P203-4XNBO-1K6-24-2A4.12-M08 **Part no.** 644-37533-1
P203-4XNBO-3K6-24-2A4.12-M01 644-40629-2
P203-4XNBO-3K6-24-2A9.12-M04 644-40629-6

8 Litre, with reservoir lid

Model 24 VDC

P203-8XNBO-1K6-24-2A4.12-M08 **Part no.** 644-37484-1
P203-8XNBO-1K7-24-2A6.15-M08 644-40822-9

Reservoir for grease with low-level control; M08-M23 p.c.b.; 10 m connecting cable

2 Litre

Model 24 VDC

P203-2XL-1K6-24-2A4.12-M08 **Part no.** 644-37513-1

2 Litre, with reservoir lid

Model 24 VDC

P203-2XLBO-1K7-24-2A4.12-M08 **Part no.** 644-37535-6

4 Litre, with reservoir lid

Model 12 VDC

P203-4XLBO-1K6-12-2A6.15-M16 **Part no.** 644-40843-9
P203-4XLBO-1K6-12-2A6.15-M08 644-40843-8

Model 24 VDC

P203-4XLBO-1K5-24-2A4.12-M08 **Part no.** 644-40629-4
P203-4XLBO-1K6-24-2A4.12-M08 644-37482-1
P203-4XLBO-1K7-24-2A6.15-M08 644-40919-2

8 Litre, with reservoir lid

Model 12 VDC

P203-8XLBO-1K6-12-2A6.15-M16 **Part no.** 644-40822-8

Model 24 VDC

P203-8XLBO-1K6-24-2A4.12-M08 **Part no.** 644-37485-1

Reservoir for oil with low-level control; M08-M23 p.c.b.; 10 m connecting cable

2 Litre, with reservoir lid

Model 24 VDC

P203-2YLBO-1K6-24-2A4.12-M08 **Part no.** 644-40557-4

Pump P 203 AC with control p.c.b. M08-M23

Reservoir for oil with low-level control; M08-M23 p.c.b.; AC; 10 m connecting cable

2 Litre

Model 230AC

P203-2XL-1K6-AC-3A6.15-M08

Part no.

644-40885-1

2 Litre, with reservoir lid

Model 230AC

P203-2XLBO-1K6-AC-3A6.15-M08

Part no.

644-46098-5

P203-2XLBO-2K6-AC-3A6.15-M17

644-40885-2

4 Litre

Model 230AC

P203-4XLBO-1K7-AC-3A6.15-M08

Part no.

644-40951-1

8 Litre

Model 230AC

P203-8XLBO-1K6-AC-3A6.15-M08

Part no.

644-40873-1

Pump P 203 DC with control p.c.b. H

Reservoir for grease without low-level control; H p.c.b.; 10 m connecting cable

2 Litre

Model 12 VDC

P203-2XN-1K6-12-1A1.10-H

Part no.

644-37406-1

Model 24 VDC

P203-2XN-1K5-24-1A1.10-H

P203-2XN-1K6-24-1A1.10-H

Part no.

644-37505-1

644-37407-1

2 Litre, flat-type reservoir

Model 24 VDC

P203-2XNFL-1K6-24-1A1.10-H

Part no.

644-40601-1

Reservoir for grease without low-level control; H p.c.b.; 10 m connecting cable, ADR

2 Litre

Model 12 VDC

P203-2XN-1K6-12-1A1.11-H-ADR

Part no.

644-37408-1

Model 24 VDC

P203-2XN-1K6-24-1A1.11-H-ADR

Part no.

644-37409-1

4 Litre, with reservoir lid

Model 24 VDC

P203-4XNBO-1K6-24-1A1.11-H-ADR

Part no.

644-37504-1

Identification Code – AC Pump Models P 203, without Control p.c.b. and with control p.c.b. V10-V13, V20-V23

Examples of model designations



6001a02

NOTE

Any pumps combinations other than the above standard pumps can be composed or ordered in accordance with the valid identification code.

P203, P 203 UL ²⁾

Basic pump for grease or oil
with 1-3 outlets and DC motor

Reservoir design

2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir
15 = 15 l transparent plastic reservoir

⊥ = reservoir for grease
⊥ = reservoir for oil

3F = Follower plate ⁵⁾

↓ = standard design
_ = low-level control ⁴⁾

Without designation = standard reservoir (2 liters)

3O = filling from top

⊥L = flat reservoir (only with 2 liter reservoir and without low level control, not available for oil)

Pump elements

1-3 = number of used elements

⊥ 5 = piston diameter = 5 mm
⊥ 6 = piston diameter = 6 mm
⊥ 7 = piston diameter = 7 mm
⊥R = adjustable pump element, piston diameter = 7 mm
3 7 = piston diameter = 7 mm (output of K5)
5 7 = piston diameter = 7 mm (suitable with grease based on silicon oil)

Supply voltage

⊥C = 110-240 VAC ±10%
50-60 Hz ±5% with 24 VDC direct current motor)

Number of possible connections

⊥A = 1 connection, supply voltage (only square type plug) left, bottom ¹⁾
2A = 2 connections, supply voltage (square type plug) left, bottom ¹⁾, low-level control square type plug ¹⁾ right, bottom
2A = 2 connections, supply voltage (square type plug) left, bottom ¹⁾, illuminated pushbutton + low-level control (bayonet plug) left, top ³⁾

Type of connection

⊥ = square type plug ¹⁾
⊥ = bayonet plug, 7-/6-pole ³⁾ (V10-V13, V20-V23)

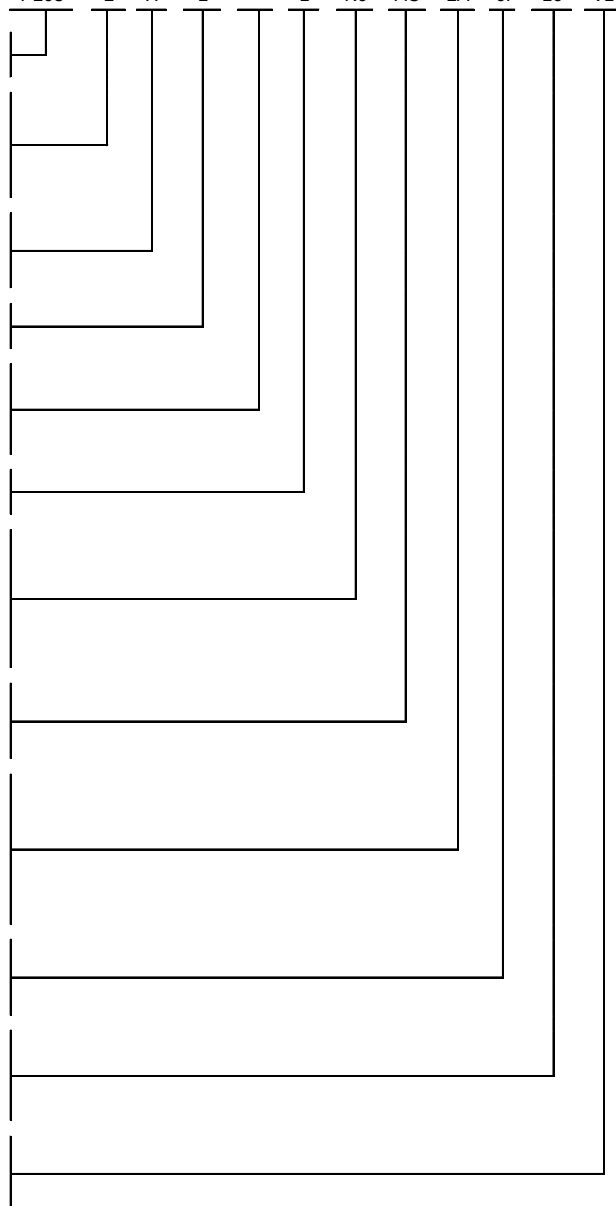
Connection outside of the pump

⊥1 = with socket outlet, without cable ¹⁾, without control p.c.b.
⊥6 = bayonet socket with 10 m cable, 7-/6-core ³⁾, V10-V13, V20-V23, connection for low-level control and illuminated pushbutton

Control p.c.b. 12V / 24 V

⊥10-V13 = with variable pause time and lubricating time
⊥20-V23 = with variable pause time and lubricating time ⁵⁾

P203	-	2	X	N	-	1	K6	-	AC	-	1A	1.	01	-	V10	
P203	-	4	X	L	BO	-	1	KR	-	AC	-	2A	1.	01	-	V12
P203	-	2	X	N	-	2	K5	-	AC	-	1A	1.	01			
P203	-	8	X	L	BO	-	1	K6	-	AC	-	2A	6.	16		
P203	-	4	Y	L	BO	-	1	K7	-	AC	-	1A	1.	01	-	V20
P203	-	2	X	L	-	1	K6	-	AC	-	2A	6.	16	-	V10	



¹⁾ Square type plug (DIN 43650), type of construction A

²⁾ UL-proved pumps 203 can only be ordered for the North American market

³⁾ Bayonet plug (DIN 72585-1)

⁵⁾ Follower plate only possible with 4, 8 or 15 L reservoir

Identification Code – AC Pump Models P203 with Control p.c.b. M08-M23

Examples of model designations



6001a02

NOTE

Any pumps combinations other the noted standard pumps can be composed and ordered in accordance with the valid model identification code.

P203

Basic pump model for grease or oil
with 1-3 outlets and direct current motor

Reservoir design

2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir
15 = 15 l transparent plastic reservoir

X = Reservoir for grease

Y = Reservoir for oil

BF = Follower plate ⁵⁾

⁵⁾ Follower plate only possible with 4, 8 or 15 L reservoir

N = Standard design

L = Low-level control

without designation = standard reservoir (2 liters)

BO = filling from the top

FL = flat reservoir (2 liters)

Pump elements

1-3 = Number of the used elements

K 5 = Piston diameter = 5 mm

K 6 = Piston diameter = 6 mm

K 7 = Piston diameter = 7 mm

KR = Pump element, adjustable, Piston diameter = 7 mm

B7 = Piston diameter = 7 mm (output of K5)

S7 = Piston diameter = 7 mm (suitable with grease based on silicon oil)

Supply voltage

12 = 12 VDC (direct current motor)

24 = 24 VDC (direct current motor)

Number of electric connecting possibilities (on pump housing only)

2A = 2 connections:

- Supply voltage, illuminated pushbutton + low-level control ³⁾, left
- Piston detector, right (if any)

²⁾ Piston detector, 4-pole

³⁾ Low-level control for oil: Connection of the low-level control not possible with the control p.c.b.

Type of connection

6 = Bayonet plug, 7- /5-pole, DIN 72585-1

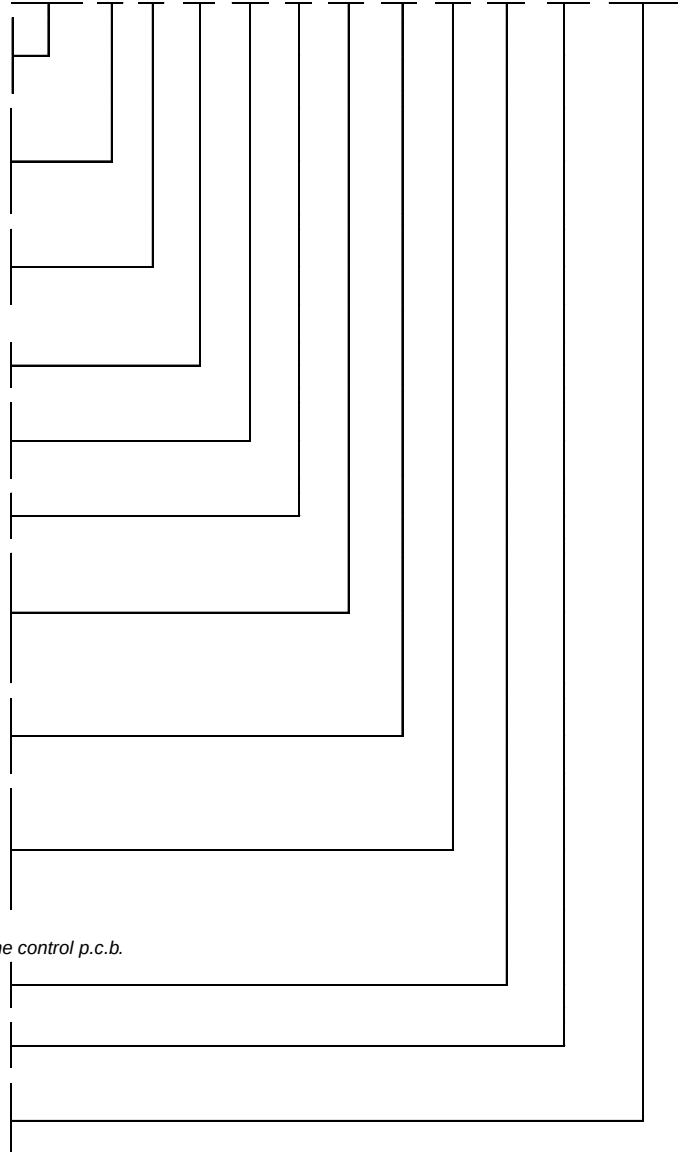
Conneciton outside of the pump

15 = Bayonet socket with 10 m cable, 7/5-core

Control p.c.b. 12V / 24 V

M08-M23 = with microprocessor control (various adjustments, see combination of the jumper-positions)

P203	-	2	-	X	-	L	-	1	-	K6	-	24	-	2A	-	6.	-	15	-	M10	
P203	-	4	-	X	-	L	-	BO	1	-	KR	-	24	-	2A	-	6.	-	15	-	M12
P203	-	2	-	X	-	L	-		2	-	K5	-	12	-	2A	-	6.	-	15	-	M12
P203	-	8	-	X	-	L	-	BO	1	-	K6	-	24	-	2A	-	6.	-	15	-	M08
P203	-	4	-	Y	-	L	-	BO	1	-	K7	-	12	-	2A	-	6.	-	15	-	M16
P203	-	2	-	X	-	L	-		1	-	K6	-	24	-	2A	-	6.	-	15	-	M23



Identification Code – AC Pump Models P203 with Control p.c.b. M08-M23

Examples of model designations



6001a02

NOTE

Any pumps combinations other the noted standard pumps can be composed and ordered in accordance with the valid model identification code.

P203

Basic pump model for grease or oil
with 1-3 outlets and direct current motor

Reservoir design

2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir
15 = 15 l transparent plastic reservoir

X = Reservoir for grease

Y = Reservoir for oil

BF = Follower plate ⁵⁾

⁵⁾ Follower plate only possible with 4, 8 or 15 L reservoir.

L = Low-level control

without designation = standard reservoir (2 liters)

BO = filling from the top

FL = flat reservoir (2 liters)

Pump elements

1-3 = Number of the used elements

K 5 = Piston diameter = 5 mm

K 6 = Piston diameter = 6 mm

K 7 = Piston diameter = 7 mm

KR = Pump element, adjustable, Piston diameter = 7 mm

B7 = Piston diameter = 7 mm (output of K5)

Supply voltage

AC = 110-240 VAC ±10% (50 - 60 Hz ±5% with 24 VDC direct current motor)

Number of electric connecting possibilities (on pump housing only)

3A = 3 connections:

- Supply voltage (only square type plug) ¹⁾ left, bottom

- Illuminated pushbutton + low-level control (bayonet plug) left, top

- Piston detector (bayonet plug) ²⁾ right, top

¹⁾ Square type plug (DIN 43650, type of construction A)

²⁾ Piston detector (bayonet plug), 4-pole

Type of connection

6 = Bayonet plug, 7/5-pole, DIN 72585-1

Conneciton outside of the pump

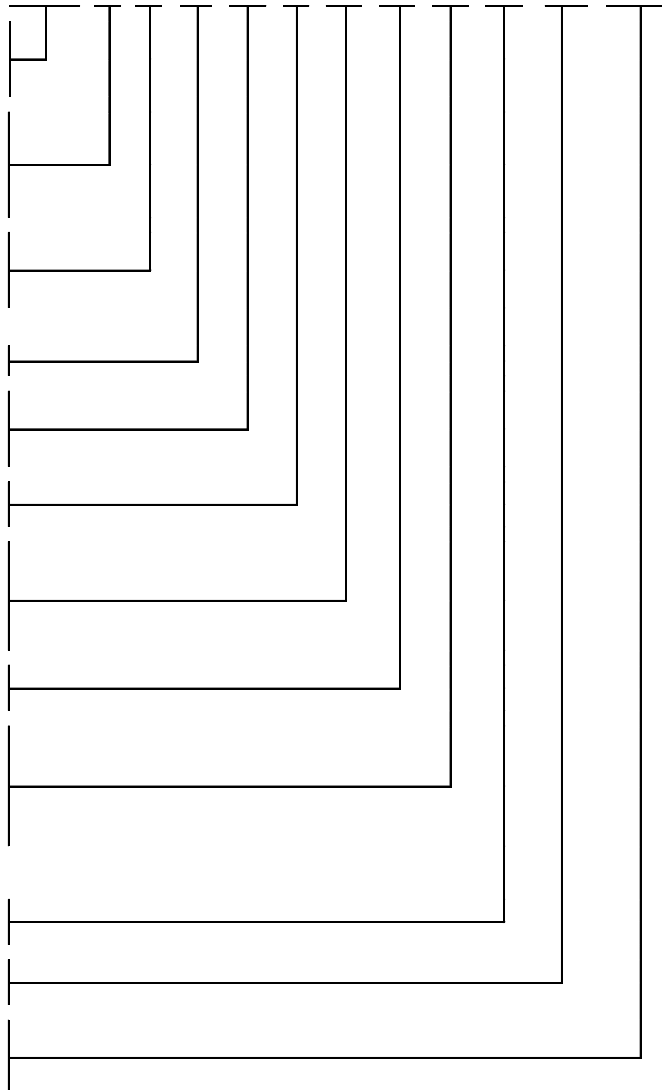
15 = Bayonet socket with 10 m cable, 7/5-core

Control p.c.b. 12V / 24 V

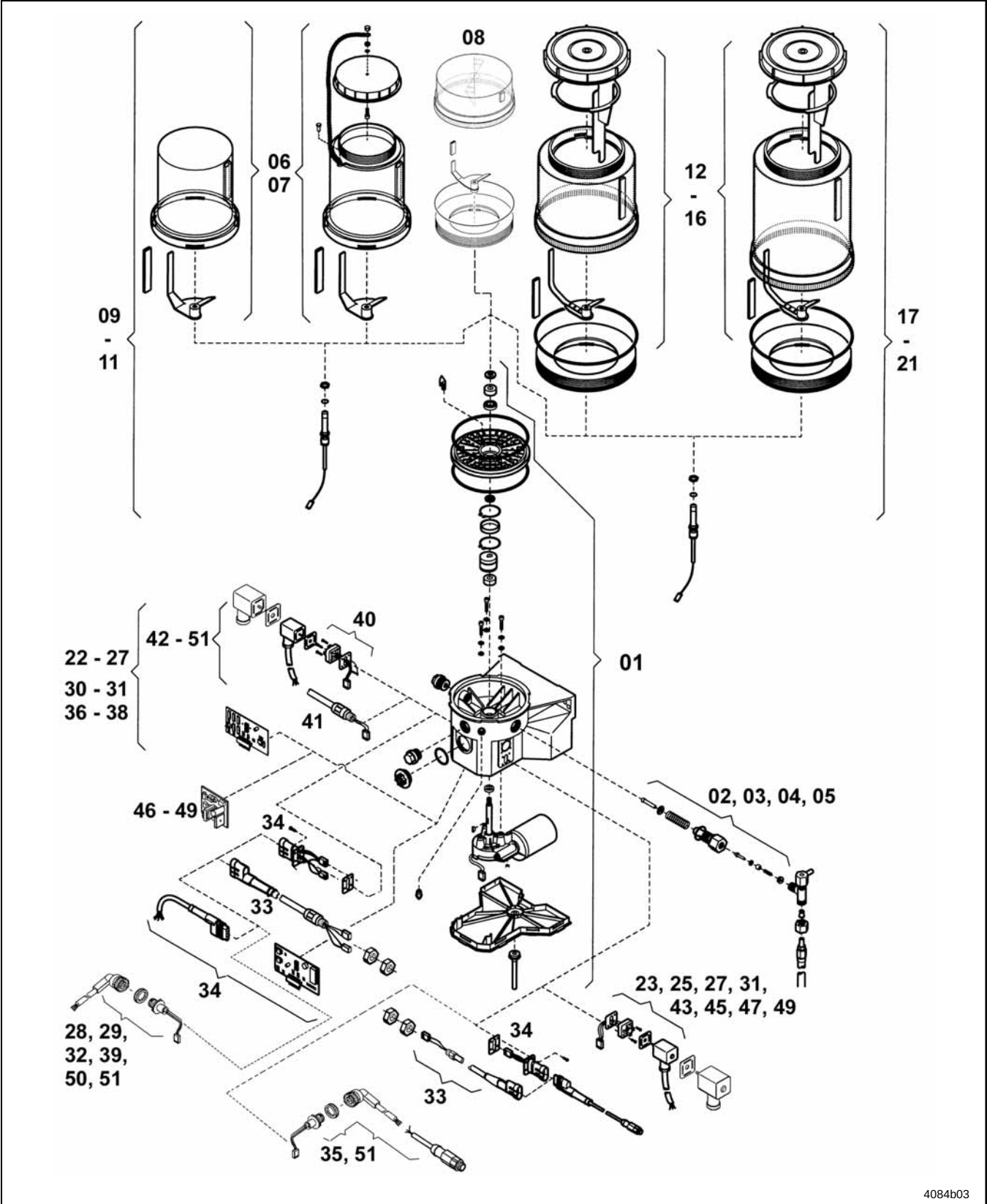
M08-M23 = with micorprocessor control

(various adjustments, see combination of the jumper-positions)

P203 - 2 - X - L - 1 - K6 - AC - 3A - 1. - 15 - M08
P203 - 4 - X - L - BO 1 - KR - AC - 3A - 1. - 15 - M12
P203 - 2 - X - L - 2 - K5 - AC - 3A - 8. - 15 - M23
P203 - 8 - X - L - BO 1 - K6 - AC - 3A - 1. - 15 - M09
P203 - 4 - Y - L - BO - 1 - K7 - AC - 3A - 1. - 15 - M20
P203 - 2 - X - L - - 1 - K6 - AC - 3A - 4. - 15 - M10



Assemblies for pump model 203



4084b03

Fig. 2 Assemblies for pump model 203, filling from top and bottom

Subject to modification

Assemblies for pump model, continuation

Item	Designation of assembly
01	Lower part
02	Pump element K5
03	Pump element K6
04	Pump element K7, C7, S7
05	Pump element KR, B7, S7
06	Reservoir 2 XN
07	Reservoir 2 XNBO (2YNBO)
08	Reservoir 2 XNFL
09	Reservoir 2 XL
10	Reservoir 2 XLBO
11	Reservoir 2 YLBO
12	Reservoir 4 XN
13	Reservoir 4 XNBO (4YNBO)
14	Reservoir 4 XL
15	Reservoir 4 XLBO
16	Reservoir 4 YLBO
17	Reservoir 8 XN
18	Reservoir 8 XNBO (8YNBO)
19	Reservoir 8 XL
20	Reservoir 8 XLBO
21	Reservoir 8 YLBO
22	Type of connection and control 1A1. 00 - V10 - V13
23	Type of connection and control 2A1. 00 - V10 - V13
24	Type of connection and control 1A1. 01 - V10 - V13
25	Type of connection and control 2A1. 01 - V10 - V13
26	Type of connection and control 1A1. 10 - V10 - V13
27	Type of connection and control 2A1. 10 - V10 - V13
28	Type of connection and control 1A5. 14 - V10 - V13
29	Type of connection and control 1A7. 16 - V10 - V13
30	Type of connection and control 1A1. 11 - V10 - V13 - ADR
31	Type of connection and control 2A1. 11 - V10 - V13 - ADR
32	Type of connection and control 1A5. 17 - V10 - V13 - ADR
33	Type of connection and control 2A9. 13 - M08 - M23
34	Type of connection and control 2A4.13 - M08 - M23
35	Type of connection and control 2A6. 15 - M08 - M23
36	Type of connection and control 1A1. 10 - H
37	Type of connection and control 1A5. 14 - H
38	Type of connection and control 1A1. 11 - H - ADR
39	Type of connection and control 1A5. 17 - H - ADR
40	Type of connection without control p.c.b. 1A1. 00
41	Type of connection without control p.c.b. 1A8. 00
42	Type of connection without control p.c.b. 1A1. 01
43	Type of connection without control p.c.b. 2A1. 01
44	Type of connection without control p.c.b. 1A1. 10
45	Type of connection without control p.c.b. 2A1. 10
46	Type of connection without control p.c.b. AC - 1A1. 01
47	Type of connection without control p.c.b. AC - 2A1. 01
48	Type of connection and control AC - 1A1. 01 - V10 - V13
49	Type of connection and control AC - 2A1. 01 - V10 - V13
50	Type of connection and control AC - 2A7. 16 - V10 - V13
51	Type of connection and control AC - 3A6. 15 - M08 - M23

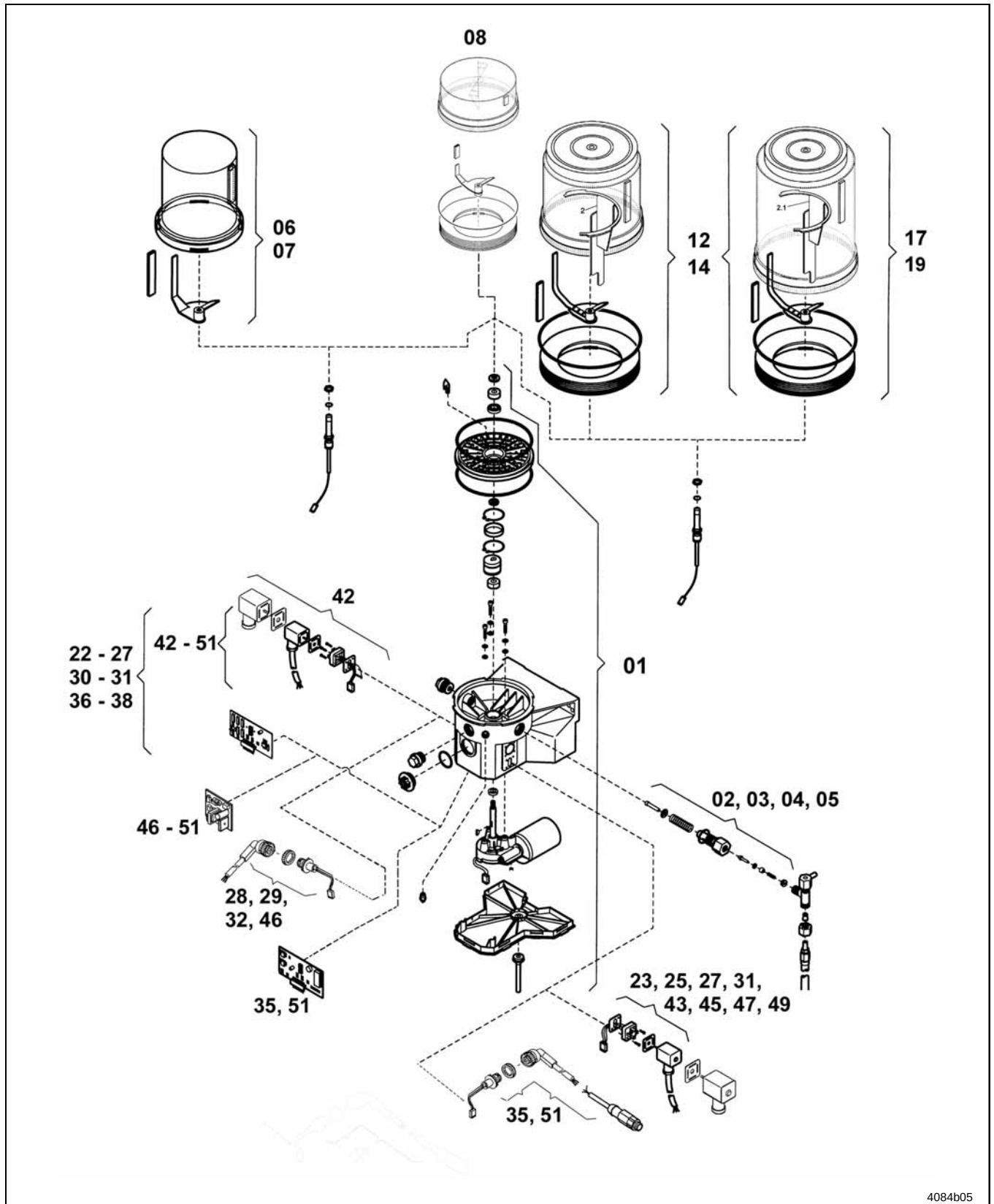


6001a02

NOTE

The assemblies are to be used **only for the calculation of the sales price**. The item numbers are identical with those of the price list.

Assemblies for pump model 203, continuation



4084b05

Subject to modification

Fig. 3 Assemblies for pump model 203, filling from bottom

Assemblies for pump model, continuation

Item	Designation of assembly
01	Lower part
02	Pump element K5
03	Pump element K6
04	Pump element K7, C7, S7
05	Pump element KR, B7, S7
06	Reservoir 2 XN
07	Reservoir 2 XL
12	Reservoir 4 XN
14	Reservoir 4 XL
17	Reservoir 8 XN
19	Reservoir 8 XL
22	Type of connection and control 1A1. 00 - V10 - V13
23	Type of connection and control 2A1. 00 - V10 - V13
24	Type of connection and control 1A1. 01 - V10 - V13
25	Type of connection and control 2A1. 01 - V10 - V13
26	Type of connection and control 1A1. 10 - V10 - V13
27	Type of connection and control 2A1. 10 - V10 - V13
28	Type of connection and control 1A5. 14 - V10 - V13
29	Type of connection and control 1A7. 16 - V10 - V13
30	Type of connection and control 1A1. 11 - V10 - V13 - ADR
31	Type of connection and control 2A1. 11 - V10 - V13 - ADR
32	Type of connection and control 1A5. 17 - V10 - V13 - ADR
35	Type of connection and control 2A6. 15 - M08 - M23
36	Type of connection and control 1A1. 10 - H
37	Type of connection and control 1A5. 14 - H
38	Type of connection and control 1A1. 11 - H - ADR
39	Type of connection and control 1A5. 17 - H - ADR
42	Type of connection without control p.c.b. 1A1. 01
43	Type of connection without control p.c.b. 2A1. 01
44	Type of connection without control p.c.b. 1A1. 10
45	Type of connection without control p.c.b. 2A1. 10
46	Type of connection without control p.c.b. AC - 1A1. 01
47	Type of connection without control p.c.b. AC - 2A1. 01
48	Type of connection and control AC - 1A1. 01 - V10 - V13
49	Type of connection and control AC - 2A1. 01 - V10 - V13
50	Type of connection and control AC - 2A7. 16 - V10 - V13
51	Type of connection and control AC - 3A6. 15 - M08 - M23



6001a02

NOTE

The assemblies are to be used **only for the calculation of the sales price**. The item numbers are identical with those of the price list.

Electrical Central Lubrication Pump Model 223/233: 2L, 4L and 8L



Fig. 4 Assortment of electrical central lubrication pumps 223/233

The following parts belong to the scope of delivery of the pumps 223/233:

- **Pump bottom**, with motor 12 or 24 VDC and magnetic switch for low-level control and membrane keypad
- **Reservoir** (2, 4, 8 - liters), with grease filling 0.75 kg (for 2 l reservoir), 1.5 kg (for 4- and 8-l reservoir) with low-level control
- **Pump element(s)**: 1 - 3 pump elements can be used
The following models are available:
 - for grease or oil supply with fixed lubricant output (K...)
 - Piston Ø 5 mm; 2 cm³/min
 - Piston Ø 6 mm; 2.8 cm³/min
 - Piston Ø 7 mm; 4 cm³/min
 - for grease supply with fixed lubricant output (B7) and bypass, check valve, piston Ø 7mm, 2 mm³/min
 - for grease supply with adjustable lubricant output (KR)
 - piston Ø 7 mm; 0.7 cm³ - 3 cm³/min
- **Control printed circuit board**, for 12/24 VDC
 - The following models are available:
 - MDF00 (P233), MF00 (P223)
- **Electrical connections**: see identification code
Type of connection: 2A5.16
- **Control p.c.b. MDF00 and MF00 with low-level control**
 - 1 bayonet plug with 10 m cable, 7-core
 - 1 bayonet plug for 1 piston detector

• **Accessories:**

- *Pressure relief valve* - must be ordered separately (for the different models, see under 'Pressure relief valves')
- Fixing screws with *accessories*, drilling template and operating instructions
- *Low-level control* – parts are located in the lower part of the pump and in the reservoir
- *Power supply unit* – for connection to 230 VAC (if available), located in lower part of pump



6001a02

IMPORTANT

The listed pump part numbers on the following pages represent only an excerpt of the standard pump program.

Special pumps or customized pumps are not listed, however, may be included by chance.

Pump P 223 DC with control p.c.b. MF00

Reservoir for grease without low-level control; MF00 p.c.b.; 10 m connecting cable

2 Litre

Model 24 VDC	Part no.
P223-2XN-1K6-24-2A6.15-MF00	644-46172-3

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P223-2XLBO-1K6-24-2A6.15-MF00	644-40864-3

Pump P 233 DC with control p.c.b. MDF00

Reservoir for grease with low-level control; MDF00 p.c.b.; 10 m connecting cable

2 Litre

Model 24 VDC	Part no.
P233-2XL-1K6-24-2A6.15-MDF00	644-40824-1
P233-2XL-1K6-24-2A6.15-MDF00	644-40824-4

2 Litre, with reservoir lid

Model 24 VDC	Part no.
P233-2XLBO-1K6-24-2A6.15-MDF00	644-40824-2

4 Litre, with reservoir lid

Model 12 VDC	Part no.
P233-4XLBO-1K6-12-2A6.15-MDF00	644-46187-2

Model 24 VDC	Part no.
P233-4XBF-1K6-24-2A6.15-MDF00	644-40825-2
P233-4XLBO-1K6-24-2A6.15-MDF00	644-40826-2

8 Litre, with reservoir lid

Model 12 VDC	Part no.
P233-8XLBO-1K6-12-2A6.15-MDF00	644-46187-3

Model 24 VDC	Part no.
P233-8XBF-1K6-24-2A6.15-MDF00	644-40827-7

Pump P 233 AC with control p.c.b. MDF00

Reservoir for grease with low-level control; MDF00 p.c.b.; AC; 10 m connecting cable

4 Litre

Model 230AC	Part no.
P233-2XLBO-1KR-AC-3A6.15-MDF00	644-40824-5

8 Litre

Model 230AC	Part no.
P233-8XLBO-1K6-AC-3A6.15-MDF00	644-40867-1

Identification Code – DC Pump Models P223/233

Examples of pump designations



6001a02

NOTE

Any pumps combinations other than the above standard pumps can be composed or ordered in accordance with the valid identification code.

Basic pump model for grease or oil
with 1-3 outlets and direct current motor 12 VDC or 24 VDC

Reservoir design
2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir

X = Reservoir for grease

L = low-level control only for grease

Without designation = standard reservoir (2 litres)
BO = Filling from the top

Pump elements
1-3 = number of the used elements

K 5 = Piston diameter = 5 mm
K 6 = Piston diameter = 6 mm
K 7 = Piston diameter = 7 mm
KR = Adjustable pump element, Piston diameter = 7 mm

Supply voltage
12 or 24 VDC direct current motor

Number of possible connections (only on the pump housing)
2A = 2 connections:
- left, for supply voltage, external illuminated pushbutton for additional lubrication cycle and fault indicator
- right, for piston detector

Type of connection ¹⁾
6 = Bayonet plug, 7/5-pole, DIN 72585-1

¹⁾ other types of connection available

Connection outside of the pump
00 = without connecting socket, without cable
15 = Bayonet socket with 10 m cable, 7/ 5-core

Control p.c.b. 12V / 24 V
MF00 = with microprocessor/ membrane keypad
MDF00 = with microprocessor/ data logger/ membrane keypad

P233	-	4	-	X	-	L	-	1	-	K6	-	24	-	2A	-	6.	-	15	-	MDF00	
P223	-	2	-	X	-	L	-	BO	1	-	K7	-	24	-	2A	-	6.	-	15	MF00	
P233	-	8	-	X	-	L	-	BO	1	-	K6	-	12	-	2A	-	6.	-	15	-	MDF00
P223	-	4	-	X	-	L	-	BO	-	1	-	K6	-	24	-	2A	-	6.	-	15	MF00

Identification Code – AC Pump Models P223/233

Examples of model designations



6001a02

NOTE

Any pumps combinations other the noted standard pumps can be composed and ordered in accordance with the valid model identification code.

Basic pump 223 or 233 for grease
with 1-3 outlets and direct current motor

Reservoir design
2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir
15 = 15 l transparent plastic reservoir

X = Reservoir for grease

L = Low-level control

Without designation = standard reservoir (2 liters, top closed)
BO = filling from top with reservoir lid

Pump elements
1-3 = number of used elements

K 5 = piston diameter = 5 mm
K 6 = piston diameter = 6 mm
K 7 = piston diameter = 7 mm
KR = Pump element, adjustable, piston diameter = 7 mm
B7 = piston diameter = 7 mm (output of K5)

Supply voltage
AC = 110-230 VAC ±10%, 50-60 Hz ±5% (with 24 VDC direct current motor)

Number of possible connections (only on the pump housing)
3A = 3 connections
- Supply voltage (only square type plug) left, bottom
- Illuminated pushbutton + low-level control (bayonet okzg 7/5-pole) left, top
- Piston detector, bayonet plug, right, top (4/4-pole)

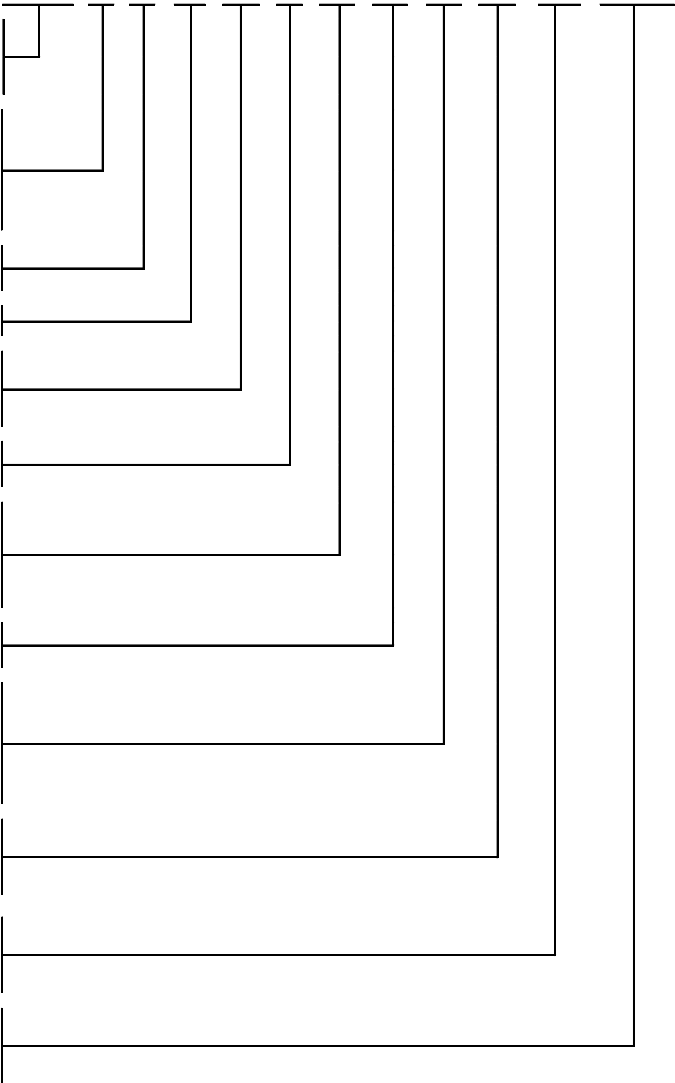
Type of connection¹⁾
6 = Bayonet plug, 7/5-pole, DIN 72585-1

¹⁾ other types of connection available

Connection outside of the pump
00 = Without connecting socket, without cable
15 = Bayonet socket with 10 m cable, 7/ 5-core

Control p.c.b. 12V / 24 V
MF00 (P223) = with microprocessor and membrane keypad
MDF00 (P233) = with microprocessor, Datalogger and membrane keypad

P233 - 4 - X - L - 1 - K6 - AC - 3A - 6. - 15 - MDF00
P223 - 2 - X - L - BO 1 - K7 - AC - 3A - 6. - 15 MF00
P233 - 8 - X - L - BO 1 - K6 - AC - 3A - 6. - 15 - MDF00
P223 - 4 - X - L - BO - 1 - K6 - AC - 3A - 6. - 15 MF00



Hand-Operated Central Lubrication Pumps

Models HP, HPG, HPGO



Fig. 5 Pump HP 15

Reservoir capacity 400 cm³	
Model designation	Part no.
HP 500 W	244-14164-1

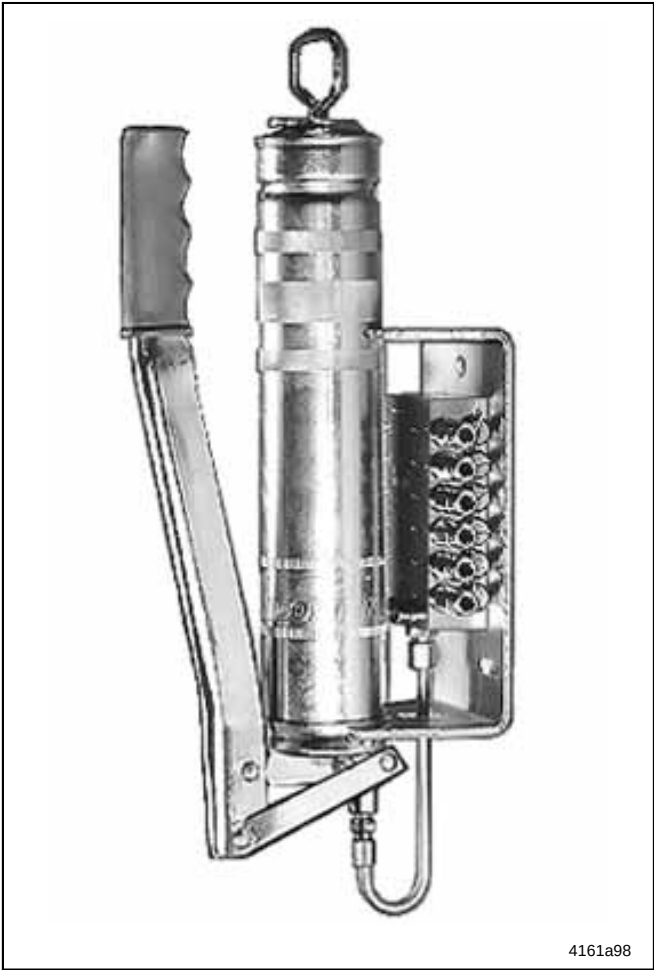


Fig. 6 Pump HP G15

Reservoir capacity 400 cm³		
Number of outlets	Model designation	Part no.
6	HP 500 W-SSV6	604-28766-1
8	HP 500 W-SSV8	604-28767-1
10	HP 500 W-SSV10	604-28768-1
12	HP 500 W-SSV12	604-28769-1

Subject to modification

Hand-Operated Central Lubrication Pumps, continuation

Models HP, HPG, HPGO



Fig. 7 Pump HP 15

Pump with one outlet, for grease



Fig. 8 Pump HPG 15

Reservoir capacity 1500 cm ³	
Model designation	Part no.
HP 15	604-25103-1

Reservoir capacity 1500 cm ³	
Model designation	Part no.
HPG 15	604-25109-2

Pump with basic body “G”, for grease



Fig. 9 Pump HPGO 18

Reservoir capacity 1500 cm ³	
Model designation	Part no.
HPGO 18	604-27212-1

Pump with basic body “G”, for oil

Pneumatically Operated Central Lubrication Pumps

Models PP, PPG, PPO, PPGO



Fig. 10 Pump PP 15
Pump with one outlet, for grease



Fig. 11 Pump PPG 15

Reservoir capacity 1500 cm ³	
Model designation	Part no.
PP 15	604-25105-2

Pump with basic body “G”, for grease

Reservoir capacity 1500 cm ³	
Model designation	Part no.
PPG 15	604-25111-3



Fig. 12 Pump PPO 18
Pump with one outlet, for oil



Fig. 13 Pump PPGO 18

Reservoir capacity 1500 cm ³	
Model designation	Part no.
PPO 18	604-27223-1

Pump with basic body “G”, for oil

Reservoir capacity 1500 cm ³	
Model designation	Part no.
PPGO 18	604-27213-1

Subject to modification

Metering device	SSV	6								
Metering device	SSV	6	- KS	BU -						1.4305
Metering device	SSV	12	- KN	DI -				A		
Metering device	SSV	10	- K							
Metering device	SSV	8	- KA	-				EX		
Metering device	SSV	8	S - KN	TE						
Metering device	SSV	6	S - NP	- RV 6			/ WEKV 6			
Metering device	SSV	8	S - K	-		RVV 6	/ GEKV 6			
1) Metering device	SSV	8	- K	- RV 6			/ GEKV 6*			
Metering device	SSV	8	- KN	TU - RV 6			/ GE 10			
1) Metering device	SSV	10	S - N	- RV 6			/ WE 6*			
Metering device	SSV	10	S - KN	SI - RV 6 +		RVV 6	/ GEKV			

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Identification Code – Progressive Metering Device SSV M

Examples:

Divider	SSVM	6	- KA
Divider	SSVM	6	- K - A
Divider	SSVM	8	- KS
Divider	SSVM	12	
Divider	SSVM	10	- KN
Divider	SSVM	8	- KS
Divider	SSVM	6	- KN
Divider	SSVM	10	- KS
Divider	SSVM	12	- KN

Series

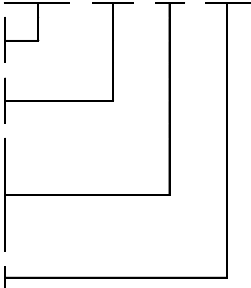
- SSVM = Lubricant metering device

Number of outlets

- 6-12

Monitoring

- K = with indicator pin
- KS = with indicator pin and limit switch
- KN = with indicator pin and proximity switch
- KA = with indicator pin and adapter (proximity switch by customer)
- A = USA design



Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements

Progressive Metering Device SSV (Standard Version)



Fig. 14 Assortment progressive metering devices SSV (standard version)

Model	Fixing Ø in mm	Part no.
SSV 6	6,4	619-26473-1
SSV 8	6,4	619-25730-2
SSV 10	6,4	619-26841-1
SSV 12	6,4	619-25731-2
SSV 14	6,4	619-28862-1
SSV 16	6,4	619-28863-1
SSV 18	6,4	619-28864-1
SSV 20	6,4	619-28865-1
SSV 22	6,4	619-28866-1

Piston closure plug M11 x 1

303-19716-1

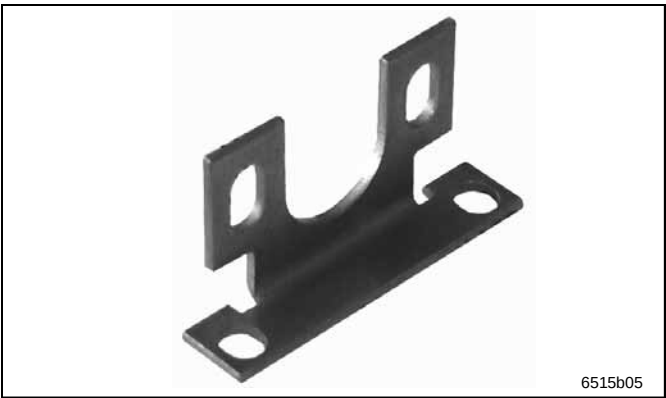


Fig. 15 Bracket

Bracket, assy.

Dimension	Application	Part no.
25 x 25	as of SSV 14	519-34271-1

Subject to modification

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

Progressive metering device SSV (high-grade steel 1.4305) V2 A

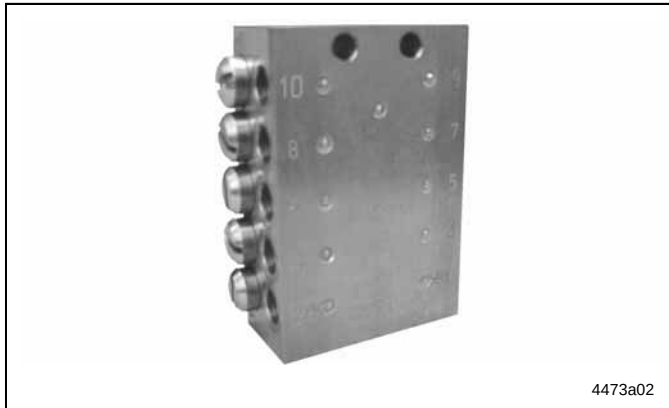


Fig. 16 Progressive metering device SSV (high-grade steel 1.4305) V2 A

Model	Fixing-Ø in mm	Part no.
SSV 6	6.4	619-27471-1
SSV 8	6.4	619-27473-1
SSV 10	6.4	619-27475-1
SSV 12	6.4	619-27477-1
SSV 14	6.4	619-29063-1
SSV 16	6.4	619-29064-1
SSV 18	6.4	619-29065-1
SSV 20	6.4	619-29066-1

Progressive metering device SSV (high-grade steel 1.4571) V4 A

Model	Fixing-Ø in mm	Part no.
SSV 6	6.4	619-27824-1
SSV 8	6.4	619-27825-1
SSV 10	6.4	619-27889-1
SSV 12	6.4	619-27900-1

Progressive metering device SSV with indicator pin (standard version)



Fig. 17 Progressive metering device SSV with indicator pin (standard version)

Model	Fixing-Ø in mm	Part no.
SSV 6-K	6.4	619-26474-3
SSV 8-K	6.4	619-25754-4
SSV 10-K	6.4	619-26842-2
SSV 12-K	6.4	619-25755-4
SSV 14-K	6.4	619-28871-1
SSV 16-K	6.4	619-28872-1
SSV 18-K	6.4	619-28873-1
SSV 20-K	6.4	619-28874-1
SSV 22-K	6.4	619-28875-1

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

Progressive metering device SSV with indicator pin (high-grade steel 1.4305)

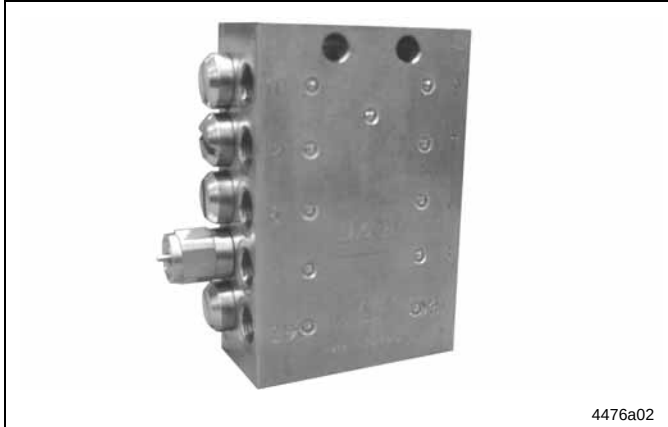


Fig. 18 Progressive metering device SSV with indicator pin (high-grade steel 1.4305)

Model	Fixing-Ø in mm	Part no.
SSV 6-K	6.4	619-27472-1
SSV 8-K	6.4	619-27474-1
SSV 10-K	6.4	619-27476-1
SSV 12-K	6.4	619-27478-1
SSV 14-K	6.4	619-29067-1
SSV 16-K	6.4	619-29068-1
SSV 18-K	6.4	619-29069-1
SSV 20-K	6.4	619-29074-1

Progressive metering device SSV with indicator pin and mounted limit switch (spare parts only)

Model	Fixing-Ø in mm	Part no.
SSV 6-KS	6.4	619-27074-1
SSV 8-KS	6.4	619-27070-1
SSV 10-KS	6.4	619-27069-1
SSV 12-KS	6.4	619-27068-1
SSV 16-KS	6.4	619-28906-1
SSV 18-KS	6.4	619-28958-1
SSV 20-KS	6.4	619-28936-1

Progressive metering device SSV with indicator pin and mounted proximity switch (spare parts only)

Model	Fixing-Ø in mm	Part no.	Switching mode
SSV 6-KN	6.4	619-27613-1	PNP
SSV 8-KN	6.4	619-27614-1	PNP
SSV 10-KN	6.4	619-27615-1	PNP
SSV 12-KN	6.4	619-27616-1	PNP
SSV 14-KN	6.4	619-29028-1	PNP
SSV 16-KN	6.4	619-28905-1	PNP
SSV 18-KN	6.4	619-28959-1	PNP
SSV 20-KN	6.4	619-28934-1	PNP
SSV 6-KN	6.4	619-27953-1	NPN
SSV 8-KN	6.4	619-27918-1	NPN
SSV 10-KN	6.4	619-27961-1	NPN
SSV 12-KN	6.4	619-27962-1	NPN



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NOTE

The mentioned metering devices are equipped with "Turk" proximity switches. Other makes are available on request. Metering devices made of high-grade steel are also available on request.

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

Progressive metering device SSV with integrated piston detector for electric monitoring, without connecting plug

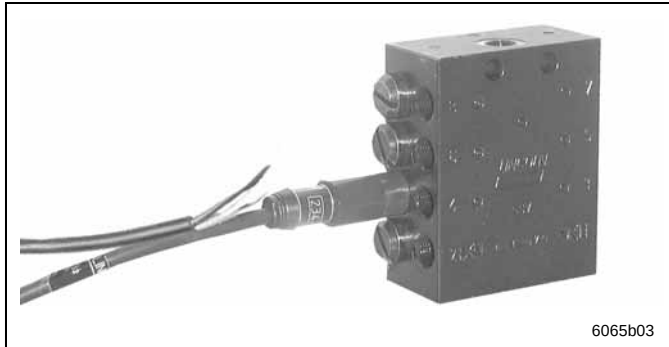


Fig. 19 Progressive metering device SSV with integrated piston detector for electric monitoring, without connecting plug

Model	Fixing-Ø in mm	Part no.
SSV 6-N	6.4	619-28257-1
SSV 8-N	6.4	619-28258-1
SSV 10-N	6.4	619-28259-1
SSV 12-N	6.4	619-28260-1
SSV 14-N	6.4	619-28890-1
SSV 16-N	6.4	619-28907-1
SSV 18-N	6.4	619-28957-1
SSV 20-N	6.4	619-28935-1
SSV 22-N	6.4	619-29015-1

Progressive metering device SSV with integrated piston detector for electric monitoring, with AMP connecting plug

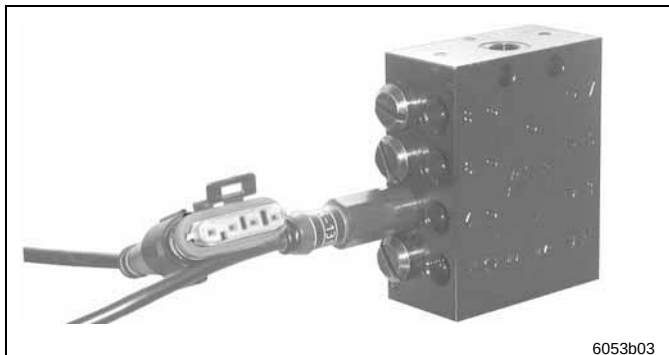


Fig. 20 Progressive metering device SSV with integrated piston detector for electric monitoring, with AMP connecting plug

Model	Fixing-Ø in mm	Part no.
SSV 6-N	6.4	619-28521-1
SSV 8-N	6.4	619-28746-1
SSV 10-N	6.4	619-28747-1
SSV 18-N	6.4	619-29108-1

Progressive metering device SSV with integrated piston detector for electric monitoring, with bayonet plug (Euro plug) for P 233

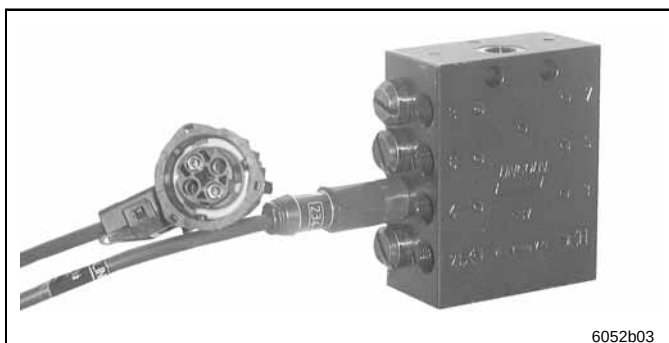


Fig. 21 Progressive metering device SSV with integrated piston detector for electric monitoring, with bayonet plug (Euro plug) for P 233

Model	Fixing-Ø in mm	Part no.
SSV 6-NE	6.4	619-29155-1
SSV 8-NE	6.4	619-29144-1
SSV 10-NE	6.4	619-29145-1
SSV 12-NE	6.4	619-29146-1

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

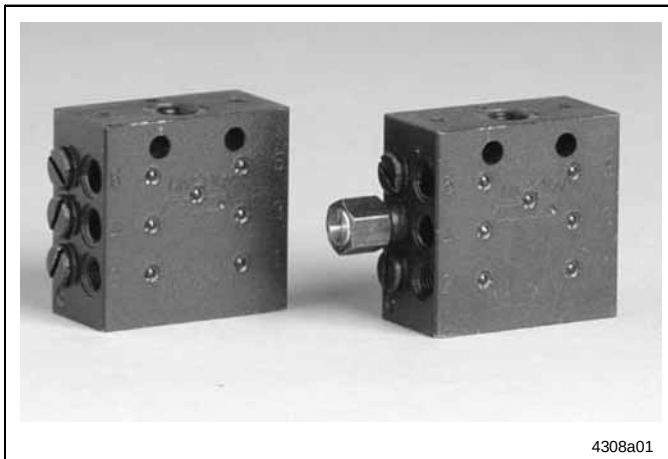


Fig. 22 Progressive metering device SSV M

Progressive metering device SSV M

Model	Fixing-Ø in mm	Part no.
SSV M 6	5.5	619-26761-1
SSV M 6-K	5.5	619-26762-3
SSV M 8	5.5	619-37044-1
SSV M 8-K	5.5	619-37045-3
SSV M 10	5.5	619-26846-1
SSV M 10-K	5.5	619-26847-2
SSV M 12	5.5	619-37049-1
SSV M 12-K	5.5	619-37050-3
Outlet closure screw	M8 x 1 x 5C	303-17530-1
Copper sealing ring	Ø8 x 10 x 1	209-12464-7

Progressive metering device SSV D

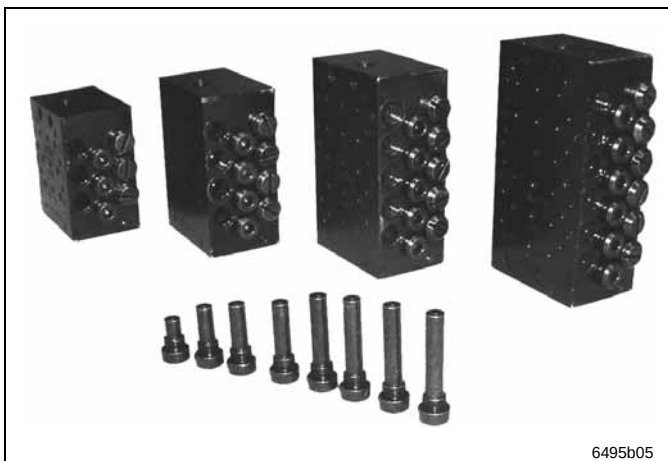


Fig. 23 Progressive metering device SSV D with metering screws



6001a02

NOTE

Bypass bore:

Outlet bores 1 and 2 are connected with each other internally.

Standard

Model	Fixing-Ø in mm	Part no.
SSV D 6	6.6	649-29485-1
SSV D 8	6.6	649-29486-1
SSV D 10	6.6	649-29487-1
SSV D 12	6.6	649-29488-1
SSV D 14	6.6	649-29489-1
SSV D 16	6.6	649-29587-1
SSV D 18	6.6	649-29588-1
SSV D 20	6.6	649-29589-1
SSV D 22	6.6	649-29590-1

With bypass bore

Model	Fixing-Ø in mm	Part no.
SSV D 6/5 – V1	6.6	649-29490-1
SSV D 8/7 – V1	6.6	649-29491-1
SSV D 10/9 – V1	6.6	649-29492-1
SSV D 12/11 – V1	6.6	649-29493-1
SSV D 14/13 – V1	6.6	649-29494-1
SSV D 16/15 – V1	6.6	649-29591-1
SSV D 18/17 – V1	6.6	649-29592-1
SSV D 20/19 – V1	6.6	649-29593-1
SSV D 22/21 – V1	6.6	649-29594-1

with indicator pin (pos. 1)

Model	Fixing-Ø in mm	Part no.
SSV D 6 -...-K	6.6	649-29505-1
SSV D 8 -...-K	6.6	649-29506-1
SSV D 10 -...-K	6.6	649-29507-1
SSV D 12 -...-K	6.6	649-29508-1
SSV D 14 -...-K	6.6	649-29509-1
SSV D 16 -...-K	6.6	649-29595-1
SSV D 18 -...-K	6.6	649-29596-1
SSV D 20 -...-K	6.6	649-29597-1
SSV D 22 -...-K	6.6	649-29598-1

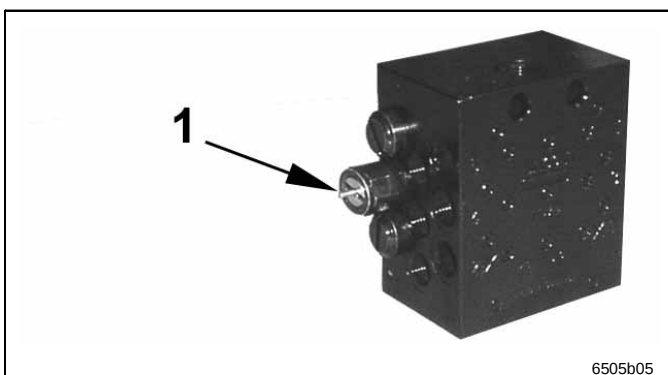


Fig. 24 Progressive metering device SSV D with indicator pin (pos. 1)

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

Progressive Metering Device SSV D, continuation

with indicator pin (pos. 1, Fig. 24) and bypass bore

Model	Fixing-Ø in mm	Part no.
SSV D 6 – V –-.....-K	6.6	649-29510-1
SSV D 8 – V –-.....-K	6.6	649-29511-1
SSV D 10 – V –-.....-K	6.6	649-29512-1
SSV D 12 – V –-.....-K	6.6	649-29513-1
SSV D 14 – V –-.....-K	6.6	649-29514-1
SSV D 16 – V –-.....-K	6.6	649-29599-1
SSV D 18 – V –-.....-K	6.6	649-29600-1
SSV D 20 – V –-.....-K	6.6	649-29601-1
SSV D 22 – V –-.....-K	6.6	649-29602-1



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NOTE

Bypass bore:

Outlet bores 1 and 2 are connected with each other internally.

with indicator pin (pos. 1, Fig. 24) and proximity switch

Model	Fixing-Ø in mm	Part no.
SSV D 6 –-.....-KN	6.6	649-29515-1
SSV D 8 –-.....-KN	6.6	649-29516-1
SSV D 10 –-.....-KN	6.6	649-29517-1
SSV D 12 –-.....-KN	6.6	649-29518-1
SSV D 14 –-.....-KN	6.6	649-29519-1
SSV D 16 –-.....-KN	6.6	649-29603-1
SSV D 18 –-.....-KN	6.6	649-29604-1
SSV D 20 –-.....-KN	6.6	649-29605-1
SSV D 22 –-.....-KN	6.6	649-29606-1

with indicator pin (pos. 1, Fig. 24), bypass bore and proximity switch

Model	Fixing-Ø in mm	Part no.
SSV D 6 – V –-.....-KN	6.6	649-29520-1
SSV D 8 – V –-.....-KN	6.6	649-29521-1
SSV D 10 – V –-.....-KN	6.6	649-29522-1
SSV D 12 – V –-.....-KN	6.6	649-29523-1
SSV D 14 – V –-.....-KN	6.6	649-29524-1
SSV D 16 – V –-.....-KN	6.6	649-29607-1
SSV D 18 – V –-.....-KN	6.6	649-29608-1
SSV D 20 – V –-.....-KN	6.6	649-29609-1
SSV D 22 – V –-.....-KN	6.6	649-29610-1

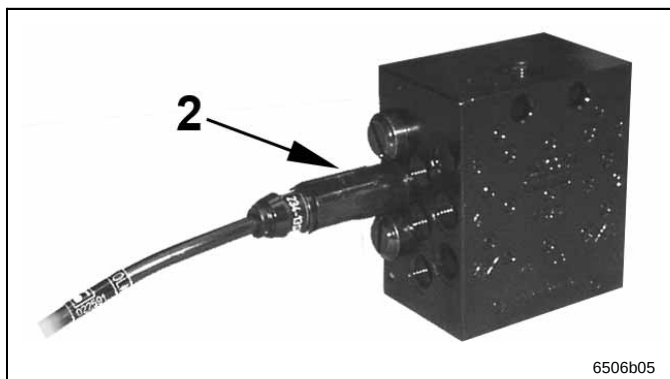


Fig. 25 Progressive Metering Device SSV D with piston detector (pos. 2)

with piston detector (pos. 2) for electrical monitoring (incl. connecting plug)

Model	Fixing-Ø in mm	Part no.
SSV D 6 –-.....-N	6.6	649-29495-1
SSV D 8 –-.....-N	6.6	649-29496-1
SSV D 10 –-.....-N	6.6	649-29497-1
SSV D 12 –-.....-N	6.6	649-29498-1
SSV D 14 –-.....-N	6.6	649-29499-1
SSV D 16 –-.....-N	6.6	649-29611-1
SSV D 18 –-.....-N	6.6	649-29612-1
SSV D 20 –-.....-N	6.6	649-29613-1
SSV D 22 –-.....-N	6.6	649-29614-1

with piston detector (Pos. 2) for electrical monitoring (incl. connecting plug) and bypass bore

Model	Fixing-Ø in mm	Part no.
SSV D 6 – V –-.....-N	6.6	649-29500-1
SSV D 8 – V –-.....-N	6.6	649-29501-1
SSV D 10 – V –-.....-N	6.6	649-29502-1
SSV D 12 – V –-.....-N	6.6	649-29503-1
SSV D 14 – V –-.....-N	6.6	649-29504-1
SSV D 16 – V –-.....-N	6.6	649-29615-1
SSV D 18 – V –-.....-N	6.6	649-29616-1
SSV D 20 – V –-.....-N	6.6	649-29617-1
SSV D 22 – V –-.....-N	6.6	649-29618-1

Progressive Metering Devices SSV, SSV M, SSV D & Connecting Elements continuation

Progressive Metering Device SSV D, continuation

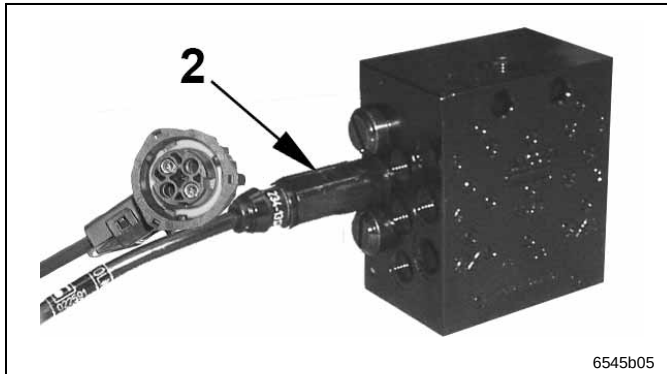


Fig. 26 Progressive Metering Device SSV D with piston detector (pos. 2) and bayonet plug

with piston detector for electrical monitoring and bayonet plug

Model	Fixing-Ø in mm	Part no.
SSV D 6 – ..-.....-NE	6.6	649-29706-1
SSV D 8 – ..-.....-NE	6.6	649-29707-1
SSV D 10 – ..-.....-NE	6.6	649-29708-1
SSV D 12 – ..-.....-NE	6.6	649-29709-1
SSV D 14 – ..-.....-NE	6.6	649-29710-1
SSV D 16 – ..-.....-NE	6.6	649-29711-1
SSV D 18 – ..-.....-NE	6.6	649-29712-1
SSV D 20 – ..-.....-NE	6.6	649-29713-1
SSV D 22 – ..-.....-NE	6.6	649-29714-1

with 3-wire piston detector for electrical monitoring

Model	Fixing-Ø in mm	Part no.
SSV D 6 – ..-.....-NP	6.6	649-29525-1
SSV D 8 – ..-.....-NP	6.6	649-29526-1
SSV D 10 – ..-.....-NP	6.6	649-29527-1
SSV D 12 – ..-.....-NP	6.6	649-29528-1
SSV D 14 – ..-.....-NP	6.6	649-29529-1
SSV D 16 – ..-.....-NP	6.6	649-29619-1
SSV D 18 – ..-.....-NP	6.6	649-29620-1
SSV D 20 – ..-.....-NP	6.6	649-29621-1
SSV D 22 – ..-.....-NP	6.6	649-29622-1

with 3-wire piston detector for electrical monitoring and bypass bore

Model	Fixing-Ø in mm	Part no.
SSV D 6 – V ..-.....-NP	6.6	649-29530-1
SSV D 8 – V ..-.....-NP	6.6	649-29531-1
SSV D 10 – V ..-.....-NP	6.6	649-29532-1
SSV D 12 – V ..-.....-NP	6.6	649-29533-1
SSV D 14 – V ..-.....-NP	6.6	649-29534-1
SSV D 16 – V ..-.....-NP	6.6	649-29623-1
SSV D 18 – V ..-.....-NP	6.6	649-29624-1
SSV D 20 – V ..-.....-NP	6.6	649-29625-1
SSV D 22 – V ..-.....-NP	6.6	649-29626-1



Fig. 27 Assortment metering screws

Metering screws

Output	Code	Qty.	Part no r.
0.08 cm ³	A	12	549-34255-1
0.14 cm ³	B	12	549-34254-2
0.2 cm ³	C	12	549-34254-3
0.3 cm ³	D	12	549-34254-4
0.4 cm ³	E	12	549-34254-5
0.6 cm ³	F	12	549-34254-6
0.8 cm ³	G	12	549-34254-7
1.0 cm ³	H	12	549-34254-8
1.4 cm ³	I	12	549-34254-9
1.8 cm ³	J	12	549-34255-1
0.08 – 1.8 cm ³	A - J	á 2 = 20	549-34255-2



Fig. 28 Bracket

Bracket assy

Dimension	Application	Part no.
32 x 25	as of SSV 16	449-70906-1

SSV inlet fittings, screw type

Male connector



Fig. 29 Male connector

Model	Part no.
Standard	
GE 4 - LLG 1/8 A	223-12270-8
GE 6 - LLG 1/8 KC	223-12270-7
GE 8 - LLG 1/8 KC	223-12270-9
High-grade steel (1.4571)	
GE 4 - LLG 1/8 A	223-13614-8
GE 6 - LLG 1/8 A	223-13614-9
GE 8 - LLG 1/8 A	223-13658-1

Male elbow



Fig. 30 Male elbow

Model	Part no.
Standard	
WE 6 - LLR 1/8 KC	223-12485-9
WE 8 - LLR 1/8 KC	223-13021-6
High-grade steel (1.4571)	
WE 4 - LLR 1/8 K	223-13677-8
WE 6 - LR 1/8 K	223-13620-8
WE 6 - LLR 1/8 K	223-12453-7

SSV inlet fittings, screw type, continuation

Hydraulic lubrication fitting for metering device inlet



Fig. 31 Hydraulic lubrication fitting for metering device inlet

Model	Thread	Part no.
Standard		
Hydraulic lubrication fitting, straight	AR 1/8 Z	251-14040-1
Hydraulic lubrication fitting, 45°	BR 1/8 Z	251-14045-1
Hydraulic lubrication fitting, 90°	CR 1/8 Z	251-14040-2
High-grade steel (1.4571)		
Hydraulic lubrication fitting, 45°	A2 BR 1/8	251-14063-4

SSV / SSV M / SSV D - Quicklinc - Inlet fittings, push-in type

Male connector



Fig. 32 Male connector

Model	Ø	Part no.
GEKV S6510-6-1/8-S01	6 mm	226-14111-1



IMPORTANT NOTE
To be used only for a connection for hose stud with groove.

Male elbow



Fig. 33 Male elbow

Model	Ø	Part no.
WEKV S6500-6-1/8-S01	6 mm	226-13753-9



IMPORTANT
To be used only for a connection for hose stud with groove.

Subject to modification

SSV / SSV D - Outlet fittings with check valve, screw type

Standard



Fig. 34 Standard or high-grade version 1.4571

Opening pressure of the
check valve in the valve body: 6 -8 bar

Item	Tube-Ø	Part no.
------	--------	----------

Outlet fitting assembly SSVM

Complete with check valve	4 mm	519-31661-1
Consisting of:		
1 Coupling nut	4 mm	223-13032-1
2 Cutting ring	4 mm	223-14083-3
3 Valve body	M 8 x 1	519-31612-1
Clamping ring		419-22603-4

Outlet fitting assembly SSV

Complete with check valve	4 mm	504-30345-2
Consisting of:		
1 Coupling nut	4 mm	223-13032-1
2 Cutting ring	4 mm	223-14083-3
3 Valve body with clamping ring	M 10 x 1	504-30517-2

Outlet fitting assembly SSV

Complete with check valve	6 mm	504-30344-4
Consisting of:		
1 Coupling nut	6 mm	223-12374-9
2 Cutting ring	6 mm	223-12295-2
3 Valve body with clamping ring	M 10 x 1	504-30364-4



6001a02

IMPORTANT

Use only the above mentioned original
Lincoln outlet fittings (items 1-3, see Fig.
34).

Outlet Fittings, screw type (high-grade steel 1.4571)

Item	Tube-Ø	Part no.
------	--------	----------

Outlet fitting assembly SSV

Complete with check valve	4 mm	504-31709-1
Consisting of:		
1 Coupling nut	4 mm	223-13638-6
2 Cutting ring	4 mm	223-13639-5
3 Valve body with clamping ring	M 10 x 1	504-31704-2

Item	Tube-Ø	Part no.
------	--------	----------

Outlet fitting assembly SSV

Complete with check valve	6 mm	504-31705-1
Consisting of:		
1 Coupling nut	6 mm	223-13638-2
2 Cutting ring	6 mm	223-13639-2
3 Valve body with clamping ring	M 10 x 1	504-31712-2



6001a02

IMPORTANT

Use only the above mentioned original
Lincoln outlet fittings (item 1-3, see
Fig. 34).

SSV Outlet fittings, screw-type, without check valve

Outlet fittings, screw-type, without check valve

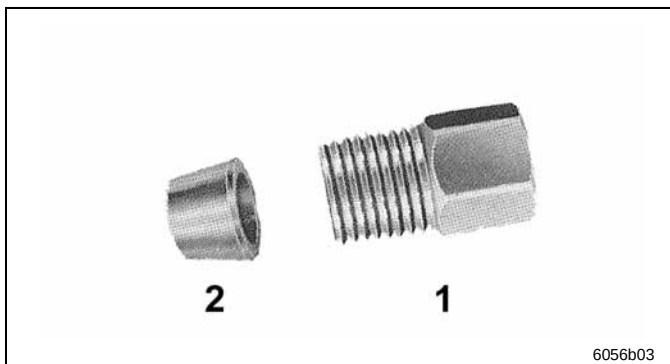


Fig. 35 Outlet fittings, screw-type, without check valve

Item		Tube-Ø	Part no.
------	--	--------	----------

Standard SSVM

Consisting of:

1	Coupling screw	4 mm	419-22604-2
2	Sealing & clamping ring	4 mm	419-22603-4

Standard SSV

Consisting of:

1	Coupling screw	6 mm	404-20236-4
2	Sealing & clamping ring	6 mm	404-23034-1

High-grade steel 1.4571 only SSV

Consisting of:

1	Coupling screw	6 mm	404-23668-1
2	Sealing & clamping ring ¹⁾	6 mm	404-23034-1

¹⁾ for pressure plastic tube Ø 6 x 1.5 mm

SSV / SSV M /SSV D - Quicklinec outlet fitting, push-in type

(connections for GE M 8 x 1 and M 10 x 1)

Valve Body, straight



Fig. 36 Reinforced version for the connection of hose studs

From the main metering device to the secondary metering device, reinforced version

Designation	Tube-Ø	Part no.
-------------	--------	----------

valve body	6 mm	
With clamping ring		
RVV 6511-6-M 10 x 1-S02		226-14091-4



6001a02

IMPORTANT

Use the valve body only for connecting the high-pressure plastic hose (incl. hose stud with groove) to the main metering device. The clamping ring of the valve body is not knurled and has a wide collar. Adequate for 350 bar.

SSV / SSV M /SSV D - Quicklinec outlet fitting, push-in type, continuation

(connections for GE M 8 x 1 and M 10 x 1)

Valve Body, straight, continuation



Fig. 37 Standard version for the connection of pressure plastic tube

From the secondary metering device to the lube point, Standard

Designation	Tube-Ø	Part no.
SSVM valve body with clamping ring RV 6511-4-M 8 x 1-S02	4 mm	226-14091-5
SSV valve body with clamping ring RV 6511-4-M 10 x 1-S02	4 mm	226-14091-6
SSV valve body with clamping ring RV 6511-6-M 10 x 1-S01	6 mm	226-14091-2



6001a02

IMPORTANT

Use the valve body only for connecting the pressure plastic tube (Ø 4 x 1.5 mm or 6 x 1.5 mm). The clamping ring of the valve body is knurled and has a narrow collar.

Valve Body 90° with clamping ring



Fig. 38 Reinforced version for the connection of hose studs

From the main metering device to the secondary metering device, reinforced version

Designation	Tube-Ø	Part no.
WRWV 6521-6-M 10 x 1	6 mm	226-14091-8



6001a02

IMPORTANT

Use the valve body only for connecting the high-pressure plastic hose (incl. hose stud with groove) to the main metering device. The clamping ring of the valve body is not knurled and has a wide collar. Adequate for 350 bar

From the secondary metering device to the lube point, Standard

Designation	Tube-Ø	Part no.
WRV 6511-6-M 10 x 1	6 mm	226-14091-9

Closure Plugs

Closure Plug SSV M (for internal combining of outlets)

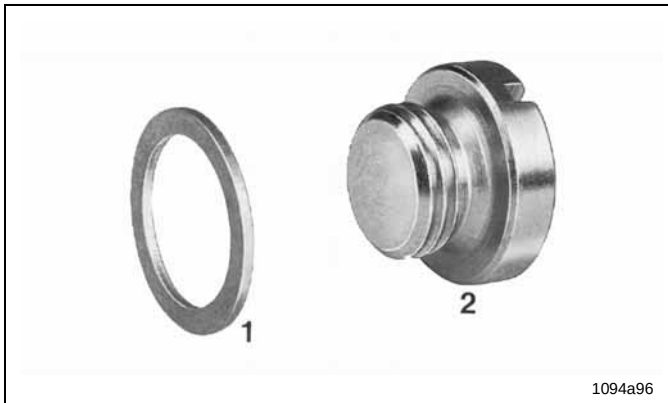


Fig. 39 Closure plug SSV M

Item	Designation	Thread- & inner Ø	Part no.
1	SSVM Copper washer	Ø 8 mm	209-12464-7
2	Closure plug	M 8 x 1	303-17530-1

Closure Plug SSV, SSV D (for internal combining of outlets)



Fig. 40 Closure plug SSV, SSV D

Designation	Thread- & inner Ø	Part no.
Standard Closure plug	M 10 x 1	303-17499-3
High grade steel (1.4571) Closure plug	M 10 x 1	303-19346-2
O-ring (not shown)	Ø 10 x 1	219-13798-3



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NOTE

Use O-ring only if the closure plug (which is provided with a bind head ring) does not seal correctly any longer after tightening it at 18 Nm.

Other Fittings

External outlet combining element, screw-type

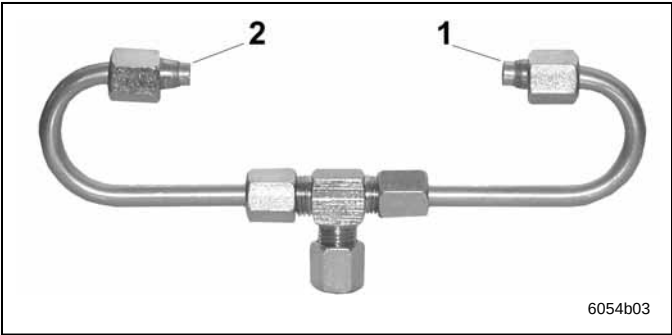


Fig. 41 Outlet combining element, screw-type

Fixing parts

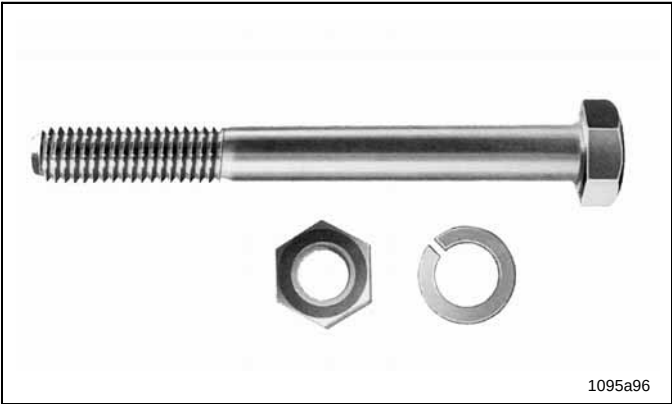


Fig. 42 Fixing parts

SSV-Pressure control



Fig. 43 SSV-pressure control

Part no.

519-31826-1



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NOTE

With the outlet-combining element, the grease quantities of outlet 2 and 1 of metering devices SSV 6 to 22 (see Fig. 41) and the grease quantities of the two outlets with the highest numbers of the combined metering devices SSV 14 to 22 can be supplied to one lube point.

Designation

Dimension Part no.

Standard

Hexagon head screw	M5 x 45 C	200-13017-5
Hexagon head screw	M5 x 55 C	200-13092-2
Hexagon head screw	M6 x 45 C	200-13092-3
Hexagon head screw	M6 x 55 C	200-13037-7
Hexagon head screw	M6 x 60 C	200-13037-3
Hexagon socket head screw	M6 x 45 C	201-12019-3
Hexagon socket head screw	M6 x 60 C	201-12019-6
Hexagon nut	M5 C	207-12138-2
Hexagon nut	M6 C	207-12135-5
Hexagon head screw + washer	M8 x 40 C	200-14165-1
Spring-lock washer	A 6 C	213-12168-8
Tooth-lock washer	J 5.3 Z	210-12161-9
Washer, ST	A 8.4 C	209-13077-1
Seal-lock Hexagon nut	M8	207-12516-1
Hexagon head screw	M8 x 30 C	200-12007-6

High-grade steel (1.4571)

Hexagon head screw	M6 x 60	200-13726-1
Hexagon socket head screw	M6 x 45	201-13741-4
Hexagon socket head screw	M6 x 50	201-13741-5
Washer	6.4	209-12152-9
Washer	A 6.4	209-13683-2
Hexagon nut	M6	207-13657-6

SSV Pressure control assy with threaded housing

Designation

Dimension Pressure Part no.

Pressure indicator	M10 x 1	50 bar	532-32680-1
Pressure indicator	M10 x 1	200 bar	532-32681-1
Pressure indicator	M10 x 1	270 bar	532-32682-1
Pressure indicator	M10 x 1	400 bar	532-32683-1

Connecting Elements for Lubrication Points and Lubricant Feed Lines

Identification Code for Fittings

Examples of model designations

GE	-	6	-	L	-	G 1/8 A	-	C
WE	-	6	-	LL	-	M 8x1K	-	C
GE	-	4	-	LL	-	R 1/8K	-	C
SWVE	-	6	-	LL	-	M 10x1K	-	C
TR	-	10/6/10	-	L				C
T			-	LL				C
Fitting type abbreviation								
Tube diameter (mm)								
Series (LL, L)								
Male thread, tapered or cylindrical								
Finish, yellow-chromate								

Connecting Elements, Screw-Type

Male connector (Tube Ø 4 mm)



Fig. 44 Male connector (tube Ø 4 mm)

Model	Part no.
Standard	
GE4-LLM 6 x 1KC	223-12533-5
GE4-LLM 8 x 1KC	223-12271-8
GE4-LLM 10 x 1KC	223-13069-1
GE4-LLR 1/8 KC	223-12270-8

Connecting Elements, Screw-Type, continuation

Male connector (tube Ø 6 mm)



Fig. 45 Male connector (tube Ø 6 mm)

Model	Part no.
Standard	
GE6-LLM 6 x 1KC	223-12533-9
GE6-LLM 8 x 1KC	223-13023-1
GE6-LLM 10 x 1KC	223-12271-7
GE6-LLR 1/8KC	223-12270-7
GE6-LG 1/4AC	223-12477-8

High-grade steel (1.4571)

GE6-LLM 6 x 1K	223-13658-7
GE6-LLM 8 x 1K	223-13658-6
GE6-LLM 10 x 1K	223-13658-5
GE6-LLG 1/8A	223-13614-9
GE6-L 1/8 NPTA	223-13784-2
GE6-LG 1/8A	223-13658-2
GE6-LG 1/4A	223-13658-9

Male connector (tube Ø 8 mm)



Fig. 46 Male connector (tube Ø 8 mm)

Model	Part no.
GE8-LLM 10 x 1KC	223-13021-1
GE8-LM 12 x 1.5KC	223-12361-6
GE8-LLR 1/8KC	223-12270-9
GE8-LLR 1/4KC	223-13621-6
GE8-LG 1/4AC	223-12477-6

Male elbow (tube Ø 4 mm)



Fig. 47 Male elbow (tube Ø 4 mm)

Model	Part no.
WE4-LLM 6 x 1KC	223-12533-6
WE4-LLM 8 x 1KC	223-13021-5
WE4-LLM 10 x 1KC	223-13069-2
WE4-LLR 1/8KC	223-13021-4

Connecting Elements, Screw-Type, continuation

Male elbow (tube Ø 6 mm)



Fig. 48 Male elbow (tube Ø 6 mm)

Model	Part no.
-------	----------

Standard

WE6-LLM 6 x 1KC	223-13023-2
WE6-LLM 8 x 1KC	223-13023-3
WE6-LLM 8 x 1.25KC	223-13763-4
WE6-LLM 10 x 1KC	223-13021-3
WE6-LLR 1/8KC	223-12485-9
WE6-LR 1/4KC	223-12380-6

High-grade steel (1.4571)

WE6-LLM 6 x 1K	223-13677-4
WE6-LLM 8 x 1K	223-13677-2
WE6-LLM 10 x 1K	223-13677-3
WE6-LLR 1/8K	223-12453-7
WE6-LR 1/8K	223-13620-8
WE6-LR 1/4K	223-13794-1
WE6-SR 1/4K	223-13620-1

Male elbow (tube Ø 8 mm)



Fig. 49 Male elbow (tube Ø 8 mm)

Model	Part no.
-------	----------

WE8-LLM 10 x 1KC	223-12362-4
WE8-LM 12 x 1.5KC	223-12362-8
WE8-LLR 1/8KC	223-13021-6
WE8-SR 1/4KC	223-13048-4

Extension adapter



Fig. 50 Extension adapter

Model	Thread, female	Thread, male	Part no.
-------	----------------	--------------	----------

RK 605	M 8 x 1	M 8 x 1 K	304-19437-1
	M 10 x 1	M 10 x 1 KC	304-19509-1
	M 10 x 1	R 1/8 KC	304-19230-1
	M 10 x 1	M 12 x 1 KC	712-12724-7
	R 1/8	M 8 x 1 KC	304-19167-1
chromated	M 8 x 1	M 8 x 1.25 KC ¹⁾	304-19548-1
	M 8 x 1	M 6 x 1 KAC	304-19787-1

¹⁾ for Renault

Connecting Elements, Screw-Type, continuation

Adapter 90°



Fig. 51 Adapter 90°

Thread, female	Thread, male	Part no.
M 8 x 1 C	M 8 x 1 K	432-24043-1
M 8 x 1 C	M 10 x 1 K	432-24052-1
R 1/8	R 1/8 K	432-70674-1



6001a02

NOTE

When screwing in a threaded fitting take care that the outlet borehole of the elbow fittings is not closed by the threaded piece of the inlet fitting.

Adapter 45°



Fig. 52 Adapter 45°

Thread, female	Thread, male	Part no.
M 8 x 1	M 8 x 1 K	432-24050-1
M 10 x 1	M 8 x 1 K	432-24051-1
R 1/8	R 1/8 K	432-70673-1



6001a02

NOTE

When screwing in a threaded fitting take care that the outlet borehole of the elbow fittings is not closed by the threaded piece of the inlet fitting.

Banjo connector 90°



Fig. 53 Banjo connector 90°

Model	Tube-Ø	Part no.
SWV E4-LLG 1/8 AC	4 mm	223-13629-1
SWV E4-LLM 10 x 1 C	4 mm	223-12480-8
SWV E6-LLG 1/8 AC	6 mm	223-12479-9
SWV E6-LLM 10 x 1 C	6 mm	223-12480-7

Connecting Elements, Screw-Type, continuation

Straight swivel



Fig. 54 Straight swivel

Model	Part no.
-------	----------

1/8 i x 1/8 a NPT

223-12567-3



6001a02

NOTE

To be used only for occasional rotary movements.

Maximum admissible pressure 50 bar

90° angle swivel



Fig. 55 90° angle swivel

Model	Part no.
-------	----------

1/8 i x 1/8 a NPT

223-12567-1



6001a02

NOTE

To be used only for occasional rotary motions.

Maximum admissible pressure 50 bar

Straight swivel

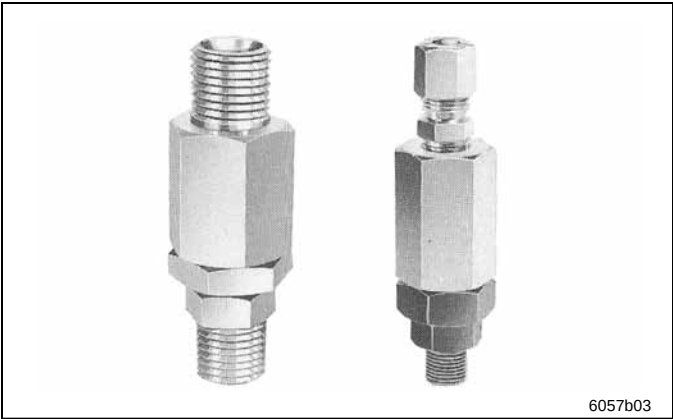


Fig. 56 Straight swivel

Connecting thread	Part no.
-------------------	----------

G 1/4 A x G 1/4 A C

626-25721-2

G 1/8 A x G 1/4 A C

626-25720-2

G 1/8 A x tube Ø 4 mm C

626-26696-2

G 1/8 A x tube Ø 6 mm C

626-26697-2

G 1/4 A x tube Ø 4 mm C

626-26698-2

G 1/4 A x tube Ø 6 mm C

626-26699-2

Maximum admissible speed 80 rpm

Maximum admissible pressure 100 bar

Subject to modification

Connecting Elements, Screw-Type, continuation

90° angle swivel

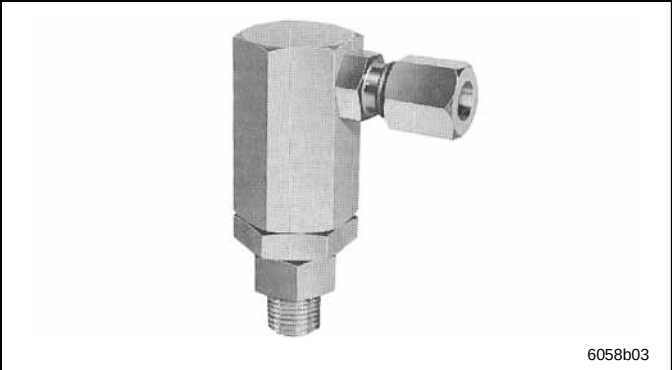


Fig. 57 90° angle swivel

Connecting thread	Part no.
G 1/4 A x G 1/4 A C	626-25716-2
G 1/4 A x G 1/8 A C	626-25540-2
G 1/8 A x tube Ø 4 mm C	626-26700-2
G 1/8 A x tube Ø 6 mm C	626-25438-2
G 1/4 A x tube Ø 4 mm C	626-26701-2
G 1/4 A x tube Ø 6 mm C	626-25717-2

Maximum admissible speed 80 rpm
Maximum admissible pressure 100 bar

Union



Fig. 58 Union

Model	Part no.
Standard	
G4-LLC 4 mm	223-12531-8
G6-LLC 6 mm	223-12482-9
High-grade steel	
G6-LL 6 mm	223-12454-7

Union-tee



Fig. 59 Union-tee

Model	Part no.
Standard	
T4-LLC 4 mm	223-12563-5
T6-LLC 6 mm	223-12484-9
T6-LC 6 mm	223-12484-2
High-grade steel	
T6-L 6 mm	223-12455-7

Quick Connecting Fittings, push-in type (Quicklinc)

Identification code for quick connecting fittings

Examples of model designations

	WEK	-	6500	-	6	-	M 8x1	-	S01	
	GEK	-	S	6510	-	4	-	R 1/8	-	S02
	SW	-	V	6540	-	6	-	M 10x1	-	S01
	GS	-		6580	-	6	-			S02
	TS	-		6540	-	6	-			S01
Fitting type abbreviation										
S – Sealing on thread										
V – reinforced clamping ring										
Type designation (manufacturer)										
Tube diameter (mm)										
Male thread, tapered (if any)										
Special designs										

Quicklinc Connecting fittings, push-in type

Male connector



Fig. 60 Male connector, standard design

Model	Tube Ø	Part no.
Standard		
GEK 6510-4-M 6 x 1-S01	4 mm	226-13752-3
GEK 6510-4-M 8 x 1-S01	4 mm	226-13752-1
GEK 6510-4-M 10 x 1-S01	4 mm	226-13752-2
GEK 6510-4-1/8-S01	4 mm	226-13752-4
GEK 6510-6-M 6 x 1-S01	6 mm	226-13752-8
GEK 6510-6-M 8 x 1-S01	6 mm	226-13752-7
GEK 6510-6-M 10 x 1-S01	6 mm	226-13752-6
GEK 6510-6-1/8-S01	6 mm	226-13752-9
GEK S6510-6-1/8-S02	6 mm	226-14111-5
GEZ 6511-6-1/4	6 mm	226-13746-9



IMPORTANT
Use this fitting only for the connection to the lubrication points. It is suitable for the connection of the pressure plastic tube (Ø 4 x 1,5 und 6 x 1,5 mm) only.

Model	Tube Ø	Part no.
Special fittings		
GEK 6512-4-M 5	4 mm	226-10210-5
GEK 6512-4-M 6	4 mm	226-10210-6
GEK 6512-4-M 8	4 mm	226-10210-7
GEK 6512-6-M 6	6 mm	226-10210-3
GEK 6512-6-M 8	6 mm	226-10210-4

Quickline Connecting Elements, Push-in Type, continuation

Male connector, continuation



Fig. 61 Male connector, push-in type, with reinforced collar

Model	Tube Ø	Part no.
-------	--------	----------

Reinforced design

GEKV 6510-6-M6 x 1-S03	6 mm	226-14111-4
GEKV 6510-6-M8 x 1-S03	6 mm	226-14111-2
GEKV 6510-6-M10 x 1-S03	6 mm	226-14111-3
GEKV 6510-6-1/8-S01	6 mm	226-14111-1
GEZV 6511-6-1/4-S01	6 mm	226-14139-1



6001a02

IMPORTANT NOTE

Use this fitting only for the connection to the lubrication points, if the pressure plastic tube is replaced by **high-pressure hose**. Suitable for a pressure of 350 bar.

Male elbow



Fig. 62 Male elbow with knurled collar

Model	Tube Ø	Part no.
-------	--------	----------

Standard design

WEK 6500-4-M 6 x 1-S01	4 mm	226-13753-5
WEK 6500-4-M 8 x 1-S01	4 mm	226-13753-1
WEK 6500-4-M 10 x 1-S01	4 mm	226-13753-2
WEK 6500-4-1/8-S01	4 mm	226-13753-3
WEK 6500-6-M 6 x 1-S01	6 mm	226-13753-7
WEK 6500-6-M 8 x 1-S01	6 mm	226-13753-8
WEK 6500-6-M 10 x 1-S01	6 mm	226-13753-6
WEK 6500-6-1/8-S01	6 mm	226-13753-4
WEK S6500-6-1/4-S01	6 mm	226-14123-1



6001a02

IMPORTANT NOTE

Use this fitting **only** for the connection of the lubrication points. The fitting is designed only for the connection of the pressure plastic tube (Ø 6 x 1.5 mm).



Fig. 63 Male elbow with reinforced collar

Model	Tube Ø	Part no.
-------	--------	----------

Reinforced collar

WEKV - 6500-6-M6 x 1-S03	6 mm	226-14123-4
WEKV - 6500-6-M8 x 1-S03	6 mm	226-14123-2
WEKV - 6500-6-M10 x 1-S03	6 mm	226-14123-3
WEKV - 6500-6-1/8-S02	6 mm	226-14123-5



6001a02

IMPORTANT NOTE

Use this fitting only for the connection to the lubrication points, if the pressure plastic tube is replaced by **high-pressure hose** with hose stud and threaded sleeve. Suitable for a pressure of 350 bar.

Quicklinc Connecting Elements, Push-in Type, continuation

Male elbow, rotary



Fig. 64 Male elbow, rotatable, standard design

Model	Tube Ø	Part no.
Standard design		
WEDK 6520-4-M8 x 1-S01	4 mm	226-13756-1
WEDK 6520-4-M10 x 1-S01	4 mm	226-13756-2
WEDK 6520-6-M6 x 1-S01	6 mm	226-13756-7
WEDK 6520-6-M8 x 1-S01	6 mm	226-13756-4
WEDK 6520-6-M10 x 1-S01	6 mm	226-13756-5
WEDK 6520-6-1/8-S01	6 mm	226-13756-8
WEDZ 6521-6-1/4	6 mm	226-13776-1



NOTE

Use only for occasional rotary motions; pivoting angle < 180°. For other applications use a straight rotary swivel, 90° or a similar fitting.

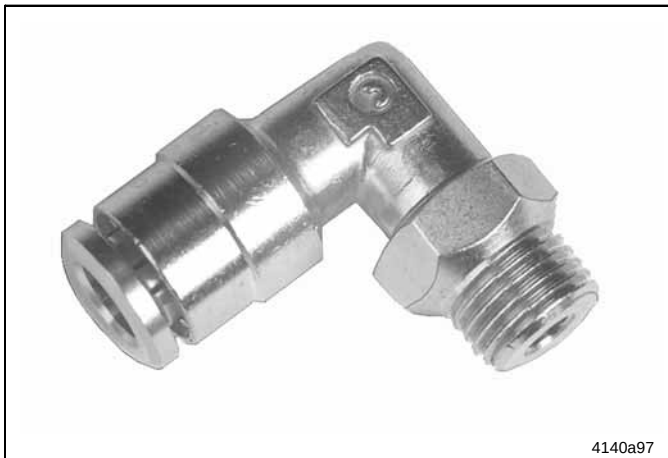


Fig. 65 Male elbow, rotatable, reinforced collar

Model	Tube Ø	Part no.
Reinforced collar		
WEDKV 6520-6-1/8-S02	6 mm	226-13756-9
WEDKV 6520-6-M10 x 1-S02	6 mm	226-14157-2
WEDKV 6520-6-M8 x 1S02	6 mm	226-14157-1
WEDKV 6520-6-M6 x 1S99	6 mm	226-14157-3



IMPORTANT

Use this fitting only for the connection to the lubrication points, if the pressure plastic tube is replaced by **high-pressure hose** with hose stud and threaded sleeve. Suitable for a pressure of 350 bar



Fig. 66 Male elbow, rotatable, standard design

Model	Tube Ø	Part no.
Reinforced collar for 350 bar		
WEDZV 6622-6-M10 x 1-S	6 mm	226-10223-6
WEDZV 6622-6-M8 x 1-S	6 mm	226-10223-4
WEDZV 6622-6-1/8 -S	6 mm	226-10223-2
Standard design		
WEDZ 6622-6-M10 x 1-S	6 mm	226-10223-5
WEDZ 6622-6-M8 x 1-S	6 mm	226-10223-3
WEDZ 6622-6-1/8 -S	6 mm	226-10223-1

Quicklinc Connecting Elements, Push-in Type, continuation

Male elbow, continuation



Fig. 67 Male elbow, rotatable, standard design

Special fitting

Model	Tube Ø	Part no.
Standard design		
WEDZ 6522-4-M5	4 mm	226-13776-7
WEDZ 6522-4-M6	4 mm	226-13776-8
WEDZ 6522-4-M8	4 mm	226-13776-9
WEDZ 6522-6-M6	6 mm	226-13412-2
WEDZ 6522-6-M8	6 mm	226-13412-3



6001a02

NOTE

Use only for occasional rotary motions; pivoting angle < 180°. For other applications use a straight rotary swivel, 90° or a similar fitting.

Banjo connector



Fig. 68 Banjo connector

Model	Part no.
Standard design	
SWVZ 6-1/8	504-36893-1

T-piece, reinforced



Fig. 69 T-piece, reinforced

Model	Tube Ø	Part no.
TSV 6540-6-S02		226-14097-4



6001a02

NOTE

Use only for combining two lubricant quantities, either from the main metering device to a secondary metering device or back to the pump. Designed for high-pressure hose (Ø 8.6 x 2.3 mm) with hose stud and groove.

Quicklinc Connecting Elements, Push-in Type, continuation

Bulkhead fitting



Fig. 70 Bulkhead fitting

Model	Thread	Part no.
Standard design		
SV 6590-6-S05	M 8 x 1	226-10214-2
SV 6590-6-S03	G 1/8	226-13755-7
Reinforced collar		
SVV 6590-6-S04	G 1/8	226-13755-8



6001a02

NOTE
In combination with a hydraulic lubrication fitting, all variants can also be used as a lubrication fitting block (see page 82, Fig. 133).

Zerk-Lock fitting for lubrication fitting connection



Fig. 71 Zerk-Lock fitting for the direct connection between pressure plastic tube and lubrication fitting

Designation	Tube Ø	Part no.
Zerk-Lock fitting	6 mm	532-32385-1
Consisting of:		
Zerk-Lock adapter		270784
GEK C6510-6 1/8 NPTF-D99		226-14111-6

Quickline Connecting Elements, Push-in Type

T-Piece



Fig. 72 T-piece

Model

Part no.

TS 6540-6-S01

226-14097-2



6001a02

NOTE

Use only for combining two lubricant quantities. Designed for pressure plastic tube (Ø 6 x 1.5 mm) for the connection from a secondary metering device to a lubrication point.

Line connector



Fig. 73 Line connector

Model

Part no.

Standard design

GS 6580-4

226-13773-1

For pressure plastic tube Ø 4 x 1 mm

GS 6580-6-S01

226-13773-3

For pressure plastic tube Ø 6 x 1.5 mm

Reinforced design

GSV 6580-6-S02

226-13773-4

For high-pressure hose (Ø 8.6 x 2.3 mm), with hose stud and groove.



6001a02

NOTE

To be used for the repair of high-pressure hose and pressure plastic tube.

Line connector



Fig. 74 Line connector

Model

Part no.

D 6x1.5

432-24280-1

For high-pressure hose (Ø 8.6 x 2.3 mm), with hose stud and groove.



6001a02

NOTE

Use in conjunction with T-piece 226-14097-4.

Quickclub Accessories

Protective cap for push-in type fittings



Fig. 75 Protective cap for push-in type fittings

Part no.
432-24313-1



6001a02

NOTE
For the protection against humidity and dirt.

Closure plug

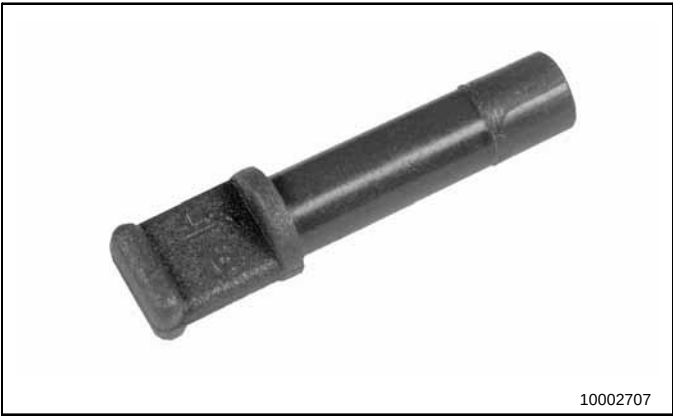


Fig. 76 Closure plug

Ø (mm)	Part no.
D 6	226-13797-3



6001a02

NOTE
For closing the return line connection on the pump.

Assortment case



Fig. 77 Assortment case

Designation	Part no.
Assortment case Quickclub	604-28196-1



6001a02

NOTE
For the completion or repair of Quickclub-progressive systems.

Subject to modification

Lines and Accessories

Pressure plastic tube, filled with grease



Fig. 78 Pressure plastic tube

Designation	Outer Ø x Side thickness in mm	Part no.
Pressure plastic tube	6 x 1.5	504-36041-2
Max. operating pressure 89 bar		
Bursting pressure at 20 °C approx. 210 bar		
Min. bending radius 50 mm		
Roller, max. length 100 m		

Pressure plastic tube, without grease filling

Designation	Outer Ø x Side thickness in mm	Part no.
Pressure plastic tube	4 x 1	112-35127-7
Bursting pressure at 20 °C approx. 210 bar		
Min. bending radius 50 mm		



6001a02

NOTE

Do not use pressure plastic tube for dispensing grease in the case of applications in commercial vehicles.

Designation	Outer Ø x Side thickness in mm	Part no.
Pressure plastic tube	6 x 1.5	112-35127-2
Bursting pressure at 20 °C approx. 210 bar		
Min. bending radius 50 mm		

Steel tube



Fig. 79 Steel tube

Design	Outer Ø x Side thickness in mm	Part no.
Standard	6 x 1	105-35019-1
	8 x 1	105-35251-3
Galvanized	6 x 1	105-35025-2
	8 x 1	105-35025-3
High-grade steel 1.4551	6 x 1	106-35064-4
	8 x 1	106-35063-1
High-grade steel 1.4571	6 x 1	106-35203-4
	8 x 1	106-35203-3

Lines and Accessories, continuation

High-pressure hose KF300, filled with grease



Fig. 80 High-pressure hose KF300 or KF400

Designation	Inner Ø x Side Thickness in mm	Part no.
High-pressure hose KF300, running m	4.1 x 2.3	504-36033-3
KF300, 25 m		504-36723-9

Max. operating pressure 350 bar
 Min. bursting pressure (with hose coupling, screwed) at 20 °C..... 600 bar
 Temperature range -40 ° C to + 70 °C
 Min. bending radius 35 mm
 Roller, max. length 50 m

High-pressure hose KF300, without grease filling

Designation	Inner Ø x Side Thickness in mm	Part no.
High-pressure hose KF300, running m	4.1 x 2.3	111-35114-1

Max. operating pressure 350 bar
 Min. bursting pressure (with hose coupling, screwed) at 20 °C..... 600 bar
 Temperature range -40 °C to + 70 °C
 Min. bending radius 35 mm
 Roller, max. length..... 50 m

High-pressure hose KF400, without grease filling

Designation	Inner Ø x Side Thickness in mm	Part no.
High-pressure hose KF400	6 x 2.5	111-35301-4

Max. operating pressure 350 bar
 Min. bursting pressure at 20 °C approx. 840 bar
 Temperature range -40 °C to + 70 °C
 Min. bending radius 45 mm
 Roller, max. length..... 50 m

Lines and Accessories, continuation

Press-fit hose couplings (for hydraulic pressing only)

For high-pressure hose KF300

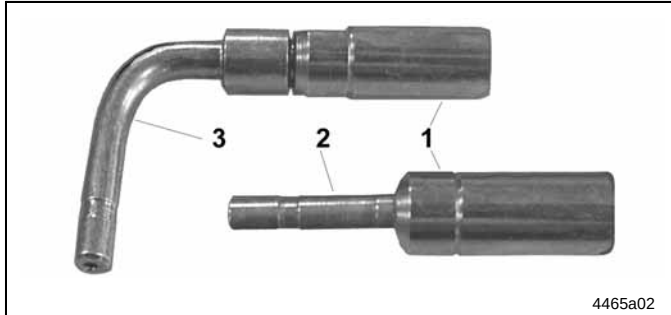


Fig. 81 Hydraulic press-fit hose couplings for KF300

Item	Designation	Stud Ø	NW	Part no.
1	Compression sleeve		4 mm	432-23787-1
2	Hose stud, straight			
	F	6 mm	4 mm	432-23781-1
	VA	6 mm	4 mm	432-23777-1
3	Hose stud 90°	6 mm	4 mm	532-32425-1

For high-pressure hose KF300

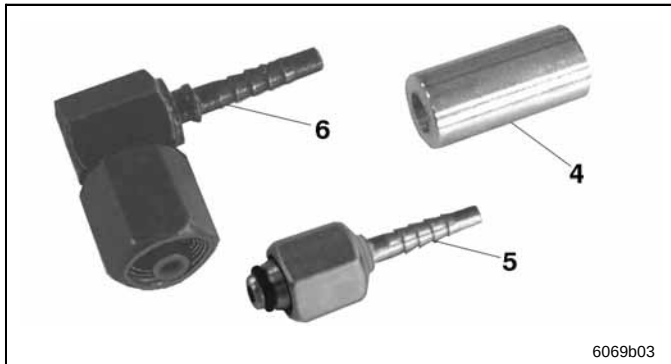


Fig. 82 DKO L and DKOLL hose stud for KF300

Item	Designation	Thread	NW	Part no.
4	Compression sleeve DKO L		4 mm	432-70025-1 and LL
5	Hose stud, straight			
	F DKO L	M12 x 1	4 mm	532-32491-1
	F DKO LL	M10 x 1	4 mm	532-32492-1
	Hose coupling, straight DKO L	M10 x 1	4 mm	532-32456-1
6	Hose stud 90°			
	F DKO L	M12 x 1	4 mm	532-32301-1
	F DKO LL	M10 x 1	4 mm	532-32302-1

For high-pressure hose KF400

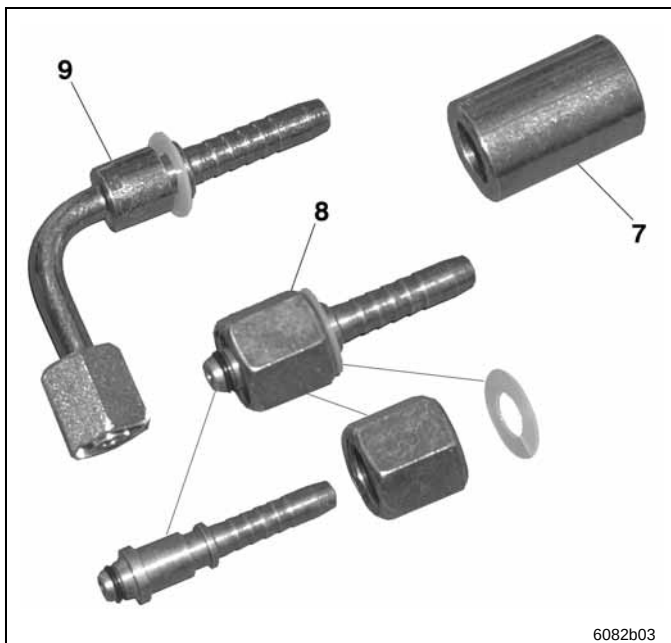


Fig. 83 DKO L hose stud for KF400

Item	Designation	Thread	Outer tube Ø	NW	Part no.
7	Compression sleeve DKO L			6 mm	226-10087-7
8	Hose stud, straight				
	DKO L	M12 x 1.5	6 mm	6 mm	226-10087-2
	DKO L	M14 x 1.5	8 mm	6 mm	226-10087-3
	DKO L	M16 x 1.5	10 mm	6 mm	226-10087-4
	Hose stud 90°				
9	DKO L	M12 x 1.5	6 mm	6 mm	226-10087-5
	DKO L	M14 x 1.5	8 mm	6 mm	226-10087-6
	DKO L	M16 x 1.5	10 mm	6 mm	226-10087-8

Lines and Accessories, continuation

Threaded sleeve and hose stud

For high-pressure hose KF300

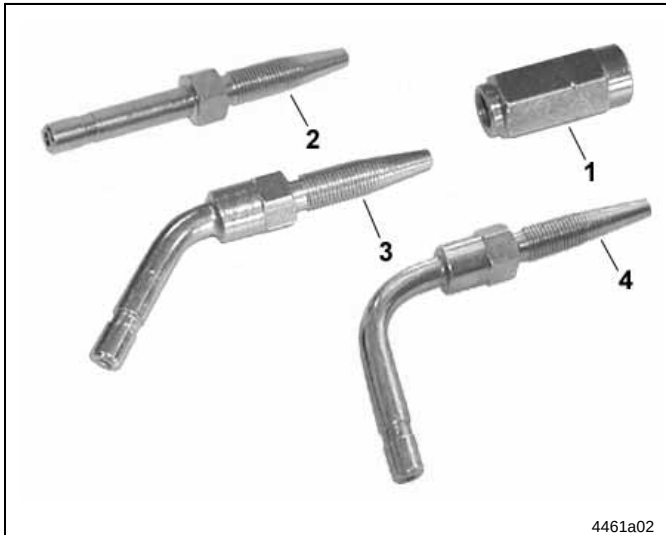


Fig. 84 Threaded sleeve and hose stud for high-pressure hose KF300

Item	Designation	Stud Ø	NW	Part no.
Standard design				
1	Threaded sleeve			432-23031-1
2	Hose stud, straight 21.5 mm (short)	6 mm	4 mm	432-24162-1
	Hose stud, straight 30 mm (long)	6 mm	4 mm	432-23067-1
3	Hose stud, 45° (short)	6 mm	4 mm	532-32183-1
4	Hose stud, 90° (short)	6 mm	4 mm	532-30739-1
	Hose stud, 90° (long)	6 mm	4 mm	532-30738-1

High-grade steel

1	Threaded sleeve			432-23676-1
2	Hose stud, short	6 mm	4 mm	432-23675-1

(For manual pressing only)

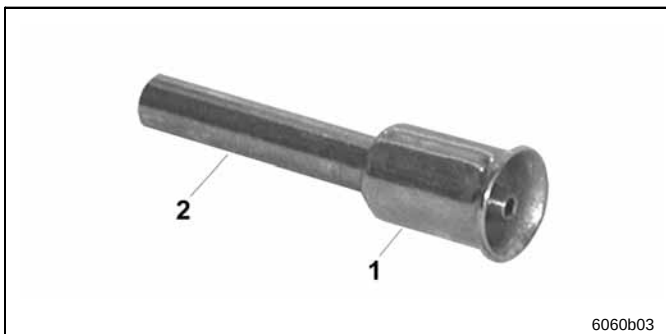


Fig. 85 Manual press-fit hose couplings

Item	Designation	Stud Ø	NW	Part no.
1	Compression sleeve F 4 & 6 mm			226-12490-1
	Hose stud F	4 mm	4 mm	432-21785-4
2	Hose stud F long	6 mm	4 mm	432-22488-2
	Hose stud F short	6 mm	4 mm	432-22539-1
	Hose stud F	6 mm	5 mm	432-22966-1
	Hose stud F for Quick-linc 90°	6 mm	4 mm	432-21786-4

Tube clamp with rubber lining



Fig. 86 Tube clamp with rubber lining

Tube Ø in mm	Fixing borehole in mm	Part no.
6	5.5	226-12557-1
9	5.5	226-12557-2
10	5.5	226-12557-7
12	5.5	226-12557-3
15	5.5	226-12557-4
20	5.5	226-12557-6

Lines and Accessories, continuation

Fixing parts for tube clamp

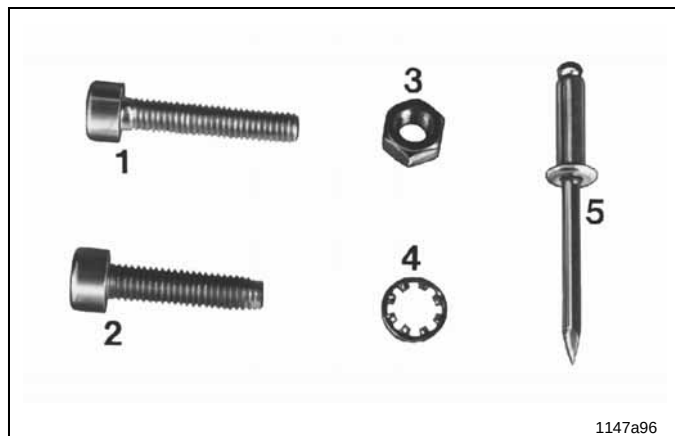


Fig. 87 Fixing parts for tube clamp

Item	Designation	Dimension	Part no.
1	Pan head screw	AM 5 x 16 C	201-12040-7
	Hexagon head screw	M 5 x 45 C	200-13017-5
2	Self-tapping screw	EM 5 x 16 Z	206-13710-1
		CM 5 x 40 Z	206-13710-2
3	Nut	M 5 C	207-12138-2
4	Tooth-lock washer	J 5.3 Z	210-12161-9
5	Blind rivet	D 4 x 12	206-12584-1

Tube clamp



Fig. 88 Tube clamp

Number of tubes	Tube Ø	Part no.
1	8 mm	226-12337-1
2	8 mm	226-12337-2
3	8 mm	226-12337-3
4	8 mm	226-12337-4
5	8 mm	226-12337-5
6	8 mm	226-12337-6

Self-tapping screw

Designation	Thread	Part no.
galvanized	M 4 x 8	206-12123-3
galvanized	BM 6 x 12	206-12125-3

Tube clamp (high-grade steel 1.4571)

Number of tubes	Tube Ø	Part no.
1	6 mm	226-13716-1
2	6 mm	226-13716-2
3	6 mm	226-13716-3
4	6 mm	226-13716-4
5	6 mm	226-13716-5
1	8 mm	226-13717-1
2	8 mm	226-13717-2
3	8 mm	226-13717-3
4	8 mm	226-13717-4
5	8 mm	226-13717-5

Lines and Accessories, continuation

Plastic helix



Fig. 89 Plastic helix

Ø in mm	Part no.
6	113-35075-2
12	113-35075-3

The plastic helix serves to bundle several tubes together. It also protects the tube lines from wearing through.

Spring coil

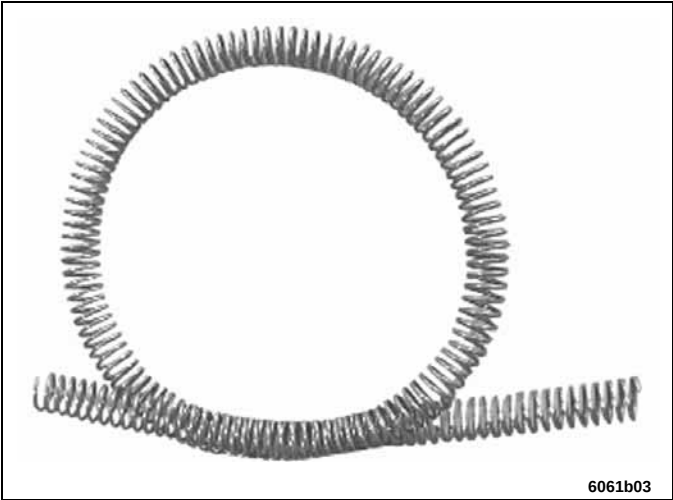


Fig. 90 Spring coil

Dimensions in mm	Part no.
High-grade steel 1.4310	
DI 9 x 1.2 x 5000	111-35306-1
DI 17 x 1.8 x 5000	111-35306-2
DI 6.1 x 1.2 x 5000	111-35306-3

The spring coil serves as a protection against the wearing through of hose lines.

Hose strap



Fig. 91 Hose strap

Designation	Part no.
short	226-12490-3
long	226-13095-1

Subject to modification

Lines and Accessories, continuation

Adhesive clamp



Dimensions

28 x 28 mm

Part no.

226-13095-6

Fig. 92 Adhesive clamp

Spacer



Part no.

432-23774-1

For the attachment of pressure plastic tubes (Ø 6x1.5 mm) to existing tube lines. Attach the pressure plastic hoses and the spacer by means of a hose strap.

MaterialCR (Clorophene caoutchouc)

Fig. 93 Spacer

Cable sleeves



For tube Ø

6
9
15

Part no.

237-13375-1
237-13375-2
237-13375-3

Used for the connection on frames, etc.

Fig. 94 Cable sleeves

Lines and Accessories, continuation

Push-in type coupling without return line (cannot be coupled under pressure)

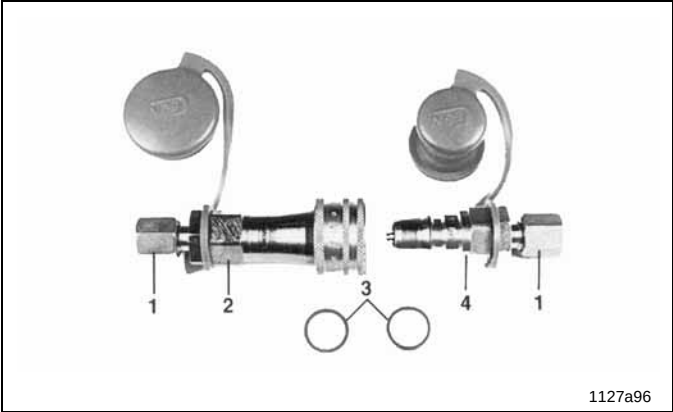


Fig. 95 Push-in type coupling without return line (cannot be coupled under pressure)

Item	Designation	Part no.
	Coupling assy	504-36804-5
	Consisting of:	
1	GE 6 - LG1/4 AC	223-12477-8
2	Coupling with dust protection	504-32125-1
3	Copper washer 14 x 18 x 1.5	209-12158-6
4	Nipple with dust protection	251-14073-1



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IMPORTANT NOTE

If the system is put into operation although items 2 and 4 are separated, the coupling (item 2) **must** be connected to the pump via a return line.

Screw-type coupling without return line (can be coupled under pressure)

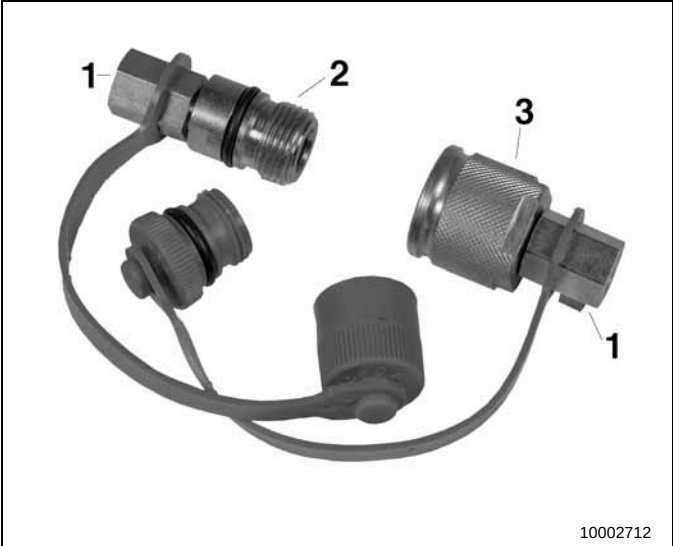


Fig. 96 Screw-type coupling without return line (can be coupled under pressure)

Item	Designation	Part no.
	Coupling assy	504-36804-6
	Consisting of:	
1	GE 6 - LG1/4 AC	223-12477-8
2	Nipple with dust protection	251-14073-4
3	Coupling with dust protection	226-13728-2
	Copper washer 14 x 18 x 1,5	209-12158-6



6001a02

IMPORTANT NOTE

If the system is put into operation although items 2 and 3 are separated, the coupling (item 3) **must** be connected to the pump via a return line.

Accessories for Central Lubrication Pump Models 203 and 103

Pump elements

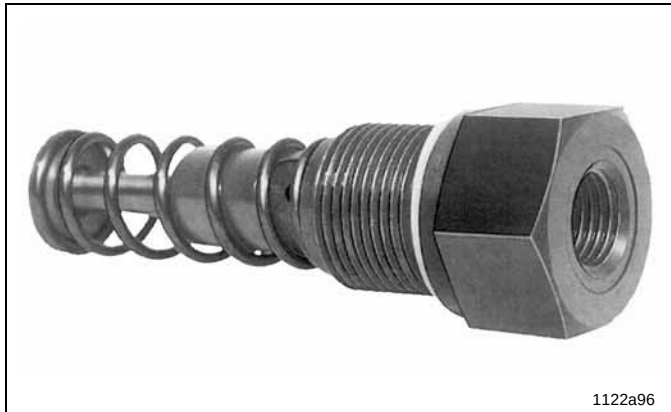


Fig. 97 Pump elements with fixed lubricant output



Fig. 98 Pump elements with fixed lubricant output and bypass check valve



Fig. 99 Pump elements with adjustable lubricant output



Fig. 100 Return-line connector with filler fitting

with fixed lubricant output

Type	Piston Ø	Male thread	Lubricant output	Female thread	Part no.
K5	5 mm	M22 x 1.5	2.0 cm ³ /min	G 1/4"	600-26875-2
K6	6 mm	M22 x 1.5	2.8 cm ³ /min	G 1/4"	600-26876-2
K7	7 mm	M22 x 1.5	4.0 cm ³ /min	G 1/4"	600-26877-2
¹⁾ C7	7 mm	M22 x 1.5	4.0 cm ³ /min	G 1/4"	600-28750-1
²⁾ S7	7 mm	M22 x 1.5	4.0 cm ³ /min	G 1/4"	600-29110-1

¹⁾ Pump element for supplying of chisel paste

²⁾ Pump element suitable with grease based on silicon oil

The 203 pumps, which are designed for use on commercial vehicles, are equipped with one pump element K 6. For industrial applications, select the pump elements according to the above-mentioned table.

Each pump element must be secured with a safety valve. See under Pressure relief valves (see pages 72 to 74).

For application in the beverage industry ³⁾

Type	Piston Ø	Male thread	Lubricant output	Female thread	Part no.
K5	5 mm	M22 x 1.5	2.0 cm ³ /min	G 1/4"	600-29303-1
K6	6 mm	M22 x 1.5	2.8 cm ³ /min	G 1/4"	600-29304-1
K7	7 mm	M22 x 1.5	4.0 cm ³ /min	G 1/4"	600-29305-1

³⁾ chemical, galvanized pump elements

with bypass check valve

Type	Piston Ø	Male thread	Lubricant output	Female thread	Part no.
³⁾ B7	7 mm	M22 x 1.5	2.0 cm ³ /min	G 1/4"	600-29185-1

with adjustable lubricant output

Type	Piston Ø	Male thread	Lubricant output	Female thread	Part no.
KR	7 mm	M22 x 1,5	0,7 - 3,0 cm ³ /min	G 1/4"	655-28716-1

Each pump element must be secured with a safety valve. See under Pressure relief valves (see pages 72 to 74).

Return-line connector with filler fitting

Designation	Part no.
Return-line connector for pump with 2 l reser- voir	504-30698-1
Return-line connector with adapter and straight filler fitting for pump with 2 l flat-type reservoir, 4 l- and 8 l-reservoir	504-36071-5
Return-line connector with adapter and 90° filler fitting	504-36071-6

The return-line connector with filler fitting is designed to feed grease quantities that are not required back into the pump. It is installed instead of a normal filler fitting.

Accessories for Central Lubrication Pump Models 203 and 103, cont.

Return-line connector, push-in type or screw type



Fig. 101 Return-line connector, push-in type or screw type

The return-line connection is designed to feed grease quantities that are not required back into the pump. It is installed instead of a closure plug (pump element).

Designation	Part no.
Return-line connector, push-in type	
Adapter M22 x 1.5a x G1/8 i	304-19619-1
WEDK 6520-6-1/8-S01	226-13756-8
Closure plug D6	226-13797-3
Return-line connector, screw type	
Adapter M22 x 1.5a und G 1/8i	304-19619-1
WE 6-LLR1/8 KC ¹⁾	223-12485-9
Adapter M22 x 1.5 x R 1/4 IC	304-17571-1
GE 6-LG1/4 AC*	223-12477-8
Dowel pin	215-12194-4



6001a02

¹⁾NOTE

Other fittings with 1/8" thread may be used on request.

Quick filling connection, pump 203 with filter



Fig. 102 Quick filling connection, pump 203 with filter

Designation	Thread	Part no.
Filler fitting without coupling plug	M22 x 1.5	504-36071-7
Coupling plug		504-32125-1
Filler fitting with coupling plug, assy		540-36753-5

For a quicker filling with a hand-operated or pneumatic pump.

Quick filling connection, pump 203 without filter



Fig. 103 Quick filling connection, pump 203 without filter

Designation	Thread	Part no.
Filler fitting without coupling plug	G 1/4 ¹⁾	544-36961-1
Coupling plug		504-32125-1

For a quicker filling with a hand-operated or pneumatic pump.

¹⁾ Connecting bore for filler fitting

Identification Code – Pressure Relief Valves

Examples of type designations

Basic type

SV = Pressure relief valve

Design of the pressure relief valve

TE = with TE fitting

EVT = with EVT stud

S = cross-chaped fitting

Max. pressure

in bar (fixed setting)

Connection for grease return

Type of connection (pump element)

R 1/4 A = male thread R 1/4 tapered

G 1/4 A = male thread G 1/4 cylindrical

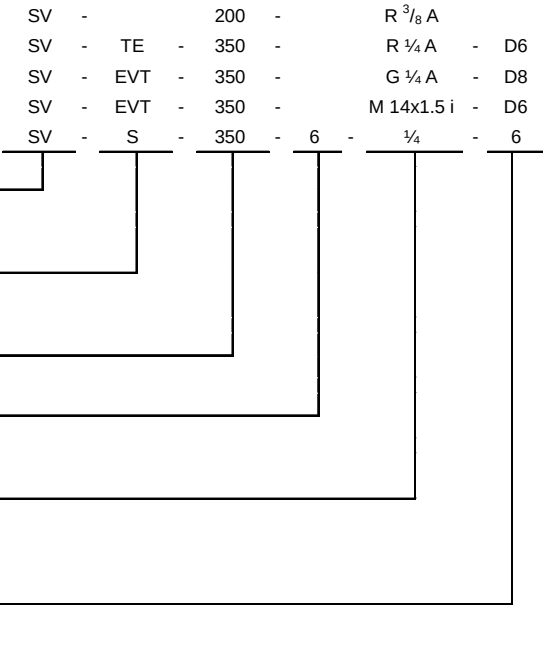
M 14 x 1.5 i = female thread M 14 x 1.5

Type of connection (main line)

D 6 = cutting ring fitting for tube D 6

D 8 = cutting ring fitting for tube D 8

6 = push-in type fitting for hose stud D 6



Pressure Relief Valves

Pressure relief valve, screw type



4240a99

Fig. 104 Pressure relief valve, screw type



6519b05

Fig. 105 Cutting ring and coupling nut

Design	Part no.
SVTE - 350 - 1/4 - D 6	624-28894-1
SVTE - 350 - 1/4 - D 6, Emergency lubrication fitting, left-hand	624-28896-1
SVTE - 350 - 1/4 - D 6, Emergency lubrication fitting, right-hand	624-28897-1
SVTE - 350 - 1/4 - D 8	624-28895-1
SVTE - 270 - 1/4 - D 6	624-28892-1
SVTE - 270 - 1/4 - D 8	624-28893-1
SVTE - 200 - 1/4 - D 6	624-28891-1
Adapter for 2 l flat-type reservoir, 4 l, 8 l reservoir, nipple S 2520 - 1/4 - 1/4 - 25	226-14105-5

Select an adequate pressure relief valve for the respective pump element.

Cutting ring and coupling nut

Design	Part no.
Coupling nut, ST M 6-S C	223-13032-2
Cutting ring, ST D 6-L/S	223-12295-3

Pressure Relief Valves, continuation

Pressure relief valve, push-in type

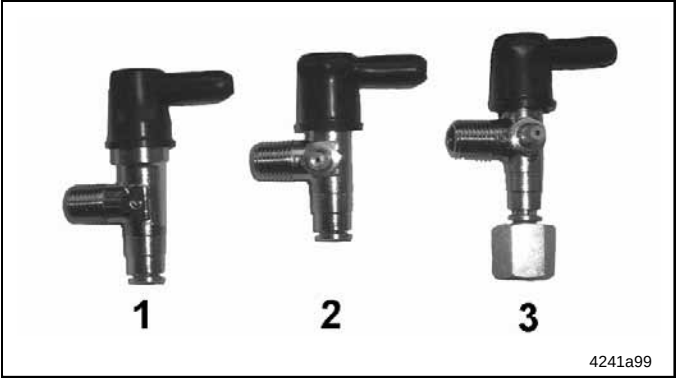


Fig. 106 Pressure relief valve, push-in type

Item	Design	Part no.
1	SVTS - 350 - 1/4 - 6	624-28860-1
1	SVTS - 200 - 1/4 - 6	624-28861-1
	SVTS - 350 - 1/4 - 6, Emergency lubrication fitting, right-hand	624-28858-1
2	SVTS - 350 - 1/4 - 6, Emergency lubrication fitting, left-hand	624-28867-1
3	SVTS - 270 - 1/4 - 1/8NPTFI, Emergency lubrication fitting, right-hand	624-28859-1
	Adapter for 2 l flat-type reservoir, 4 l, 8 l reservoir, nipple S 2520-1/4-1/4-25	226-14105-5

Select an adequate pressure relief valve for the respective pump element.

Kit : Pressure relief valve assembly with grease return to the reservoir

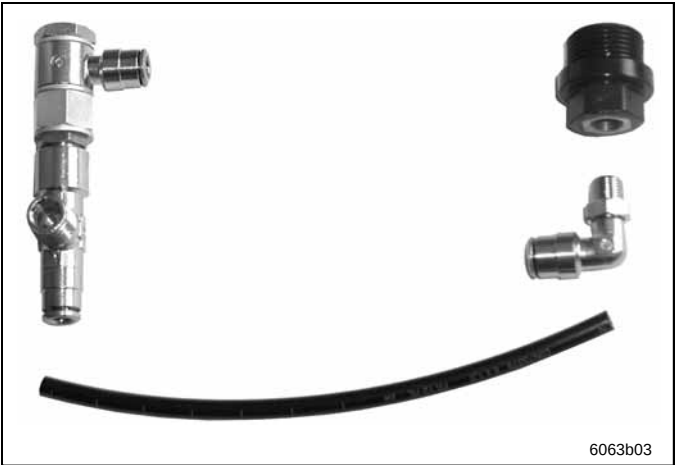


Fig. 107 Kit: Pressure relief valve assembly with grease return to the reservoir

Design	Part no.
SVS - 350 - 6 - 1/4 - 6	624-28931-1
SVS - 200 - 6 - 1/4 - 6	624-29087-1

Retrofit Kit: Pressure relief valve with grease return to the reservoir

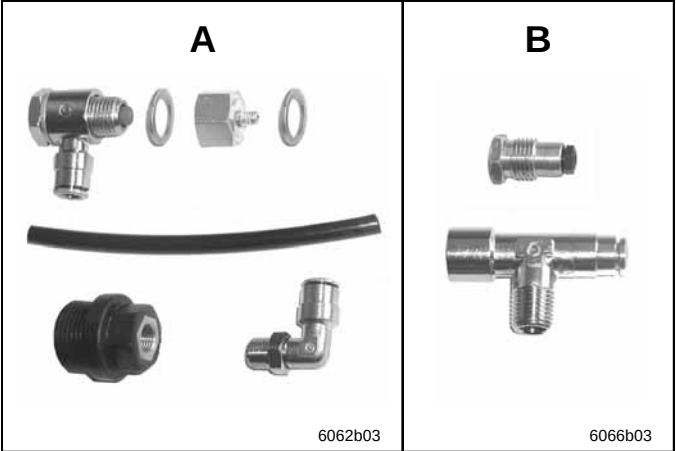


Fig. 108 Retrofit Kit: Pressure relief valve with grease return to the reservoir

	Part no.
A	Parts of the retrofit kit
B	Existing parts

524-32231-1

Subject to modification

Pressure Relief Valves, continuation

Valve inserts for new pressure relief valves



Fig. 109 Valve inserts for new pressure relief valves

Design	Part no.
Valve insert, SV 250 bar	235-14343-7
Valve insert, SV 350 bar	235-14343-3
Valve insert, SV 270 bar	235-14343-2
Valve insert, SV 200 bar	235-14343-1
Valve insert, SV 120 bar	235-14343-5
Valve insert, SV 80 bar	235-14343-4



NOTE

The valve inserts are provided with a pressure indication (e.g. 350) on the hexagon surface (top).

Pressure gauge

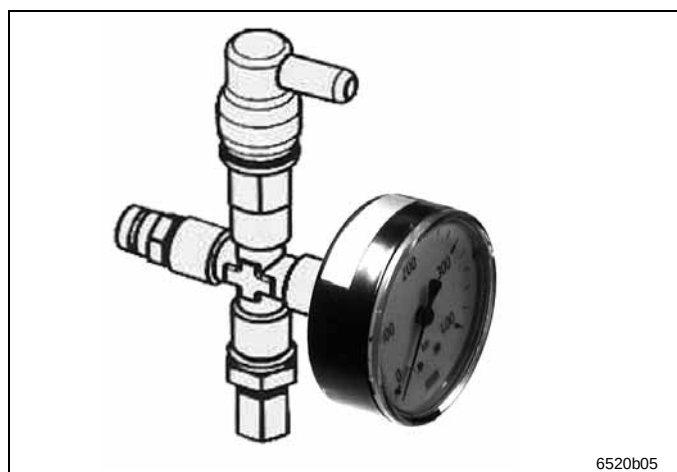


Fig. 110 Pressure gauge with connecting fitting

Design	Part no.
Pressure gauge 0 - 400 bar with valve SVKSV-350-1/4-D6	624-29426-1

Brackets

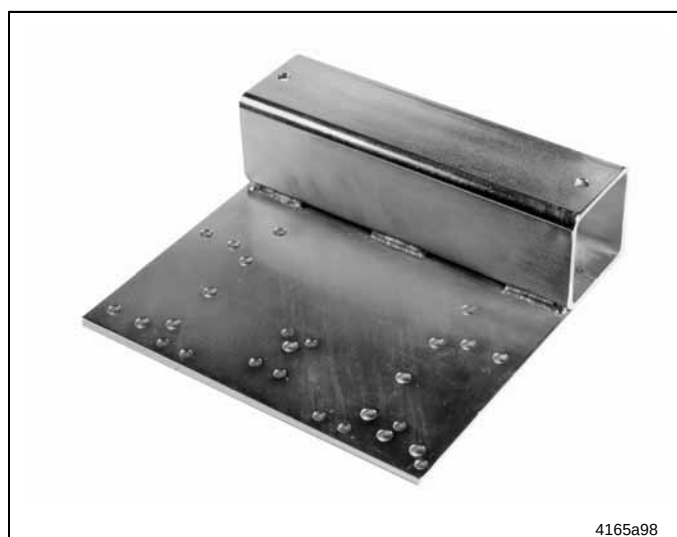


Fig. 111 Bracket

For fixing	Part no.
Pump 203 CS, universal and main metering device	307-19544-1

Pressure Relief Valves, continuation



Fig. 112 Bracket

Brackets, continuation

For fixing	Part no.
Only for pump 203 and main metering device	307-19644-1

Electrical Accessories for
Central Lubrication Pump Models 103 CS and 203 without Control

PSG control unit



Fig. 113 PSG control unit

Voltage	Time setting	Part no.
24 VDC	Pause time : 6 Std. Lubricating time : 2 Min.	236-13834-1
24 VDC	Pause time : 4 Std. Lubricating time : 4 Min.	664-36875-1

Illuminated pushbutton



Fig. 114 Illuminated pushbutton

Voltage	Lamp	Part no.
12 V	green	664-36070-5
24 V	green	664-36070-6
12 V	red ¹⁾	664-34005-5
24 V	red ¹⁾	664-34005-6

¹⁾ only for fault indication of pumps 223/233

Subject to modification

Electrical Accessories, continuation
for Central Lubrication Pump Models 103 CS and 203 without Control

Illuminated pushbutton, continuation



Fig. 115 Illuminated pushbutton

Voltage	Lamp	Part no.
24 V	green	236-10280-6

Fuse holder with fuse



Fig. 116 Fuse holder with fuse

Strength of current	Part no.
5 A	237-13321-8
8 A	237-13426-1

The fuse holder with fuse must always be connected up-stream of each control unit to protect the control unit against short-circuits.

for Metering Device Model SSV

Piston detector (proximity switch, 2-wire)



Fig. 117 Piston detector (proximity switch, 2-wire)

Designation	Length	Thread	Part no.
Piston detector for monitoring of SSV metering devices with			
Cable without flanged plug	3 m	M11 x 1	234-13178-1
Cable without flanged plug (PU)	5 m	M11 x 1	234-13178-4
Cable with flanged plug	3 m	M11 x 1	234-13178-2
Cable with flanged plug	7 m	M11 x 1	234-13178-5

in high-grade steel (V4A) with

Cable without flanged plug	2 m	M11 x 1	234-13178-3
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NOTE
The piston detector (proximity switch) is not part of the metering device.

Electrical Accessories, continuation
for Metering Device Model SSV

Extension cable for piston detector



Fig. 118 Extension cable for piston detector

Design	Length	Part no.
Cable assembly with flanged plug and socket outlet	4 m	664-36862-9

Connecting cable for two piston detectors



Fig. 119 Connecting cable for two piston detectors

Design	Length	Part no.
Cable assembly with two socket outlets	0.6 m	664-36889-6

Detector cable



Fig. 120 Detector cable

Design	Length	Part no.
Detector cable	10 m	664-36884-7



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NOTE
For longer distances.

Subject to modification

Electrical Accessories, continuation
for Metering Device Model SSV

Piston detector (proximity switch, 3-wire) for industrial applications, high-grade steel (1.4571)



Fig. 121 Piston detector (proximity switch, 3-wire) for industrial applications, high-grade steel (1.4571)

Designation	Length	Thread	Part no.
Piston detector ¹⁾ for monitoring of the SSV metering devices with integrated plug without cable		M11x1	234-13178-9
Accessories			
Angular plug		M12	237-13442-4
Angular plug with cable	5 m	M12	237-13442-3



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¹⁾ NOTE
A use in combination with pump 203 and microprocessor control is not possible.

Piston detector (proximity switch, 2-wire) for pumps 203, 223/233



Fig. 122 Piston detector (proximity switch, 2-wire) for pumps 203, 223/233

Designation	Length	Thread	Part no.
Piston detector for monitoring of the SSV metering devices cable with bayonet plug	3 m	M 11 x 1	234-13188-2
cable with bayonet plug	7 m	M 11 x 1	234-13188-3

Connecting cable for two piston detectors



Fig. 123 Connecting cable for 2 piston detectors with bayonet plug

Design	Length	Part no.
bayonet plug, assy. for two piston detectors	0.6 m	664-34195-6

Electrical Accessories, continuation
for Metering Device Model SSV

Detector cable



Fig. 124 Connecting cable for piston detector with bayonet plug

Design	Length	Part no.
Bayonet detector cable	10 m	664-34167-9

Limit switch (KS), as spare part only



Fig. 125 Limit switch (KS), as spare part only

Design	Part no.
Limit switch with accessories	519-36713-7
Limit switch V3S + VL1	236-13281-2

Proximity switch (KN), as spare part only



Fig. 126 Proximity switch (KN), as spare part only

Design	Switching mode	Part no.
B I 2-G12K-AP6X	PNP	234-13134-3
B I 2-G12K-AN6X	NPN	234-13134-5
Adapter with stop ring		519-30911-1

Subject to modification

Accessories for SSV Metering Devices

Mounting angle



Fig. 127 Mounting angle

For fixing of	Part no.
SSV metering device	432-23982-1

Bracket

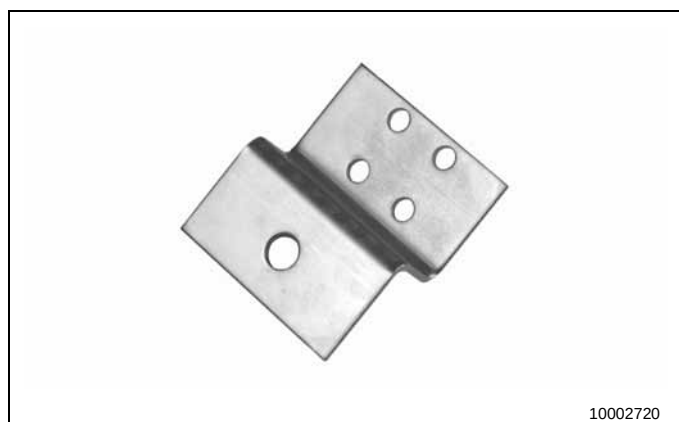


Fig. 128 Bracket

For fixing of	Part no.
SSV metering device	307-19543-1

Accessories for Manually Operated Systems

Lubrication fitting blocks, screw type



Fig. 129 Lubrication fitting block, lubrication fitting without check valve

No. of lubrication fittings	Thread	Part no.
1 without check valve	R 1/8 female	532-32248-1

If the metering device is installed at a place of difficult access for the lubrication, the lubrication points can be made accessible by means of lubrication fitting blocks or tube filters.



Fig. 130 Lubrication fitting block, lubrication fitting with check valve

No. of lubrication fittings	Thread	Part no.
1 with check valve	R 1/8 female	504-37184-2

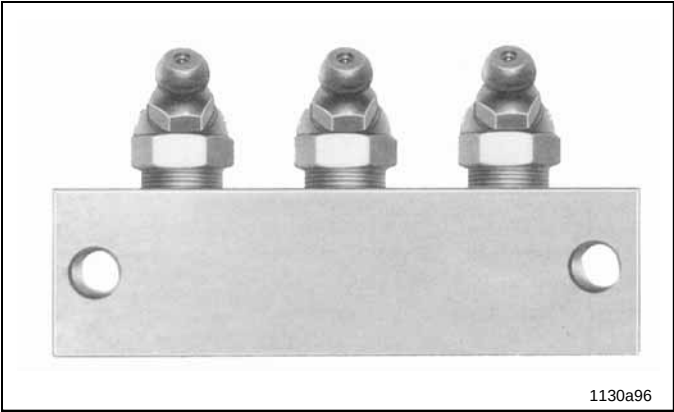


Fig. 131 Lubrication fitting block for 1-3 connections without check valve

No. of lubrication fittings	Thread	Part no.
3 without check valve	R 1/8 female	504-37211-1
2 without check valve	R 1/8 female	504-37210-1

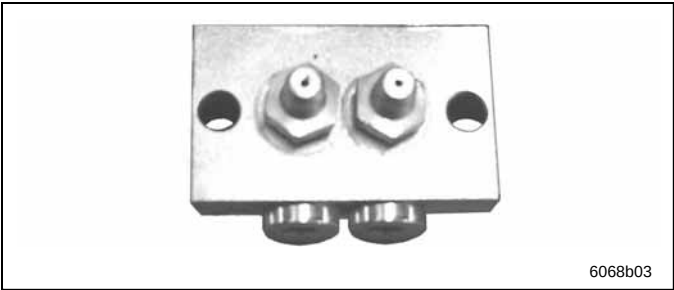


Fig. 132 Lubrication fitting block for 1-2 connections, variable connecting possibilities

No. of lubrication fittings	Thread	Part no.
2	R 1/8 female	532-32454-1

Consisting of:	
Lubrication fitting block	432-70024-1
Hydraulic lubrication fitting + RV ST AR 1/8	251-14109-6
Closure plug 5.8 G 1/8 A C	203-12074-1

Subject to modification

Accessories for Manually Operated Systems, continuation

Lubrication fitting block, push-in type

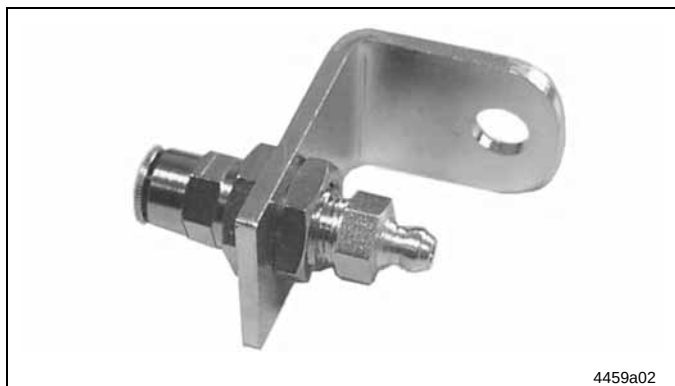


Fig. 133 Lubrication fitting block, push-in type

Part no.

532-32131-1

Lubrication fitting with check valve
Connection for high-pressure plastic hose with hose stud and threaded sleeve.

Tube filter

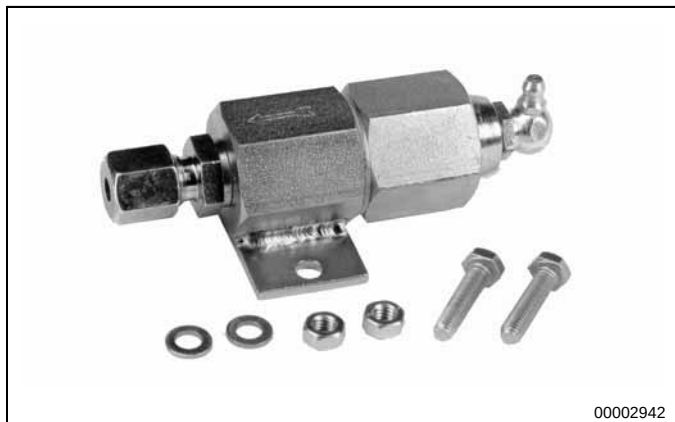


Fig. 134 Tube filter

Designation

Thread

Part no.

SF1-G1/4 + lubrication fitting G 1/4 female 628-36062-3

The tube filter is an additional protection in application areas where there is a strong contamination (e.g. erection sites, etc.)

Lubricant filter SF1-G1/4	628-26452-2
Coarse strainer, transmissibility 410/1000	428-21544-1
Lubrication fitting	532-31537-2

Filter block

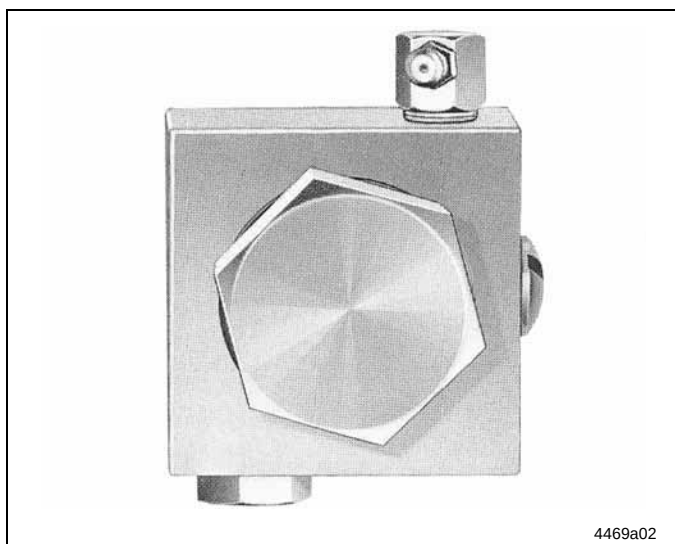


Fig. 135 Filter block

Designation

Outlet connection

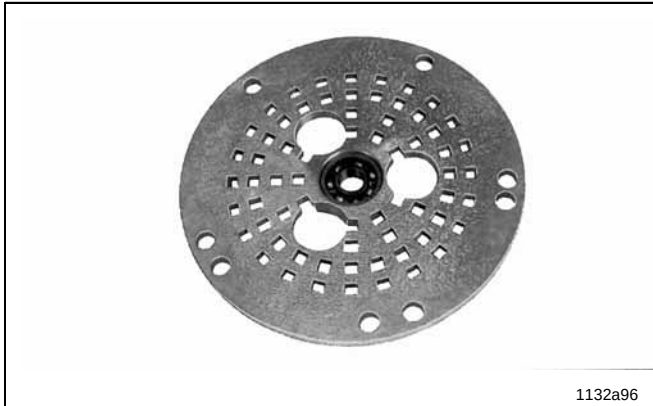
Part no.

Lubricant filter unit with hydraulic lubrication fitting G 1/4 A 528-36045-6

Lubricant filter unit with elbow fitting and hydraulic lubrication fitting G 1/4 A 528-36876-2

The filter block is an additional protection in application areas where there is a strong contamination (e.g. erection sites, etc.).

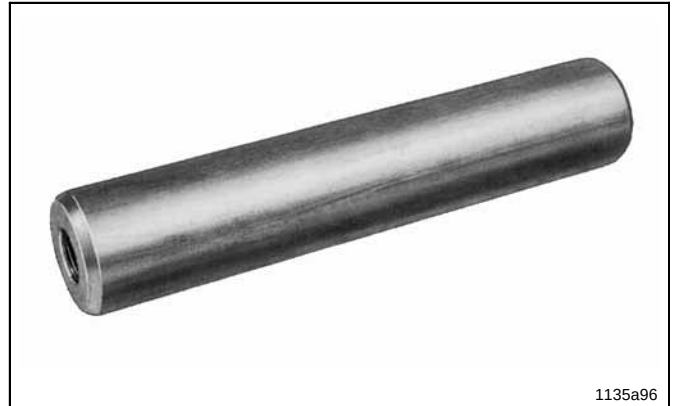
Tools



1132a96

Fig. 136 Centering tool for motor assembly, pump 103

Part no.:
504-31720-1



1135a96

Fig. 137 Chasing tool for rotary shaft seal

Part no.:
404-23819-1



1133a96

Fig. 138 Special screwdriver for closure plugs on SSV metering devices

Part no.:
404-22614-1



1136a96

Fig. 139 Assembly stud for hose coupling

Part no.:
432-23077-1

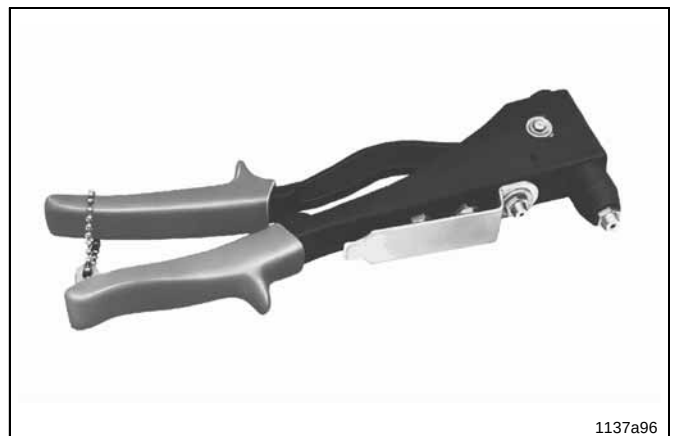


1134a96

Fig. 140 Special cutter for plastic tube

Spare blade

Part no.:
226-12508-5
226-13095-7



1137a96

Fig. 141 Blind rivet hand tool

Squeezing device for compression sleeve
Suitable for hose studs only

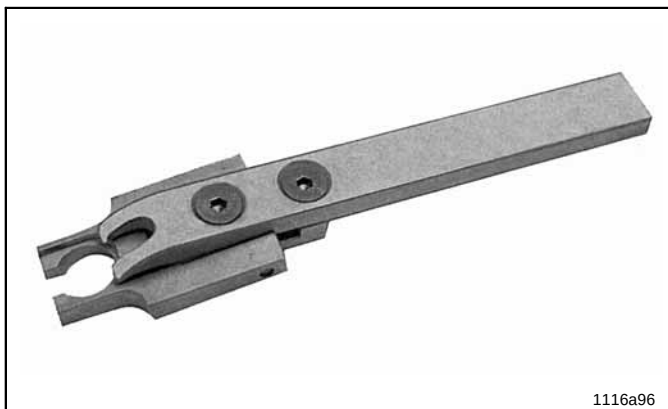
Part no.:
226-12508-6
226-12490-1
226-12490-2
432-22539-1
432-22488-2

Tools, continuation



1106a96

Fig. 142 Set for checking pressure and function Part no.:
604-36879-1



1116a96

Fig. 143 Special tool for loosening the push-in type fittings Part no.:
532-31847-1



00002621

Fig. 144 Assembly tool for adapter ring, 4- and 8 L reservoirs Part no.:
544-32017-1



00002622

Fig. 145 Assembly tool for 2 L reservoir Part no.:
544-32019-1



00002623

Fig. 146 Assembly tool for 2 L flat-type reservoir, 4- and 8 L reservoir Part no.:
544-32018-1

Filling Pumps
for Cartridge Filling (400 cm³ Cartridge)

Kit: Filling pump with straight connecting fitting



Fig. 147 Kit: Filling pump with straight connecting fitting

Part no.
638-37549-1
Protective plug, pump
233-13124-8
Protective cap, fitting
233-13090-9

Kit: Filling pump with 90° connection fitting, 2 L reservoir



Fig. 148 Kit: Filling pump with 90° connection fitting, 2L reservoir

Part no.
638-37548-1
Protective plug, pump
233-13124-8
Protective cap, fitting
233-13090-9

Kit: Filling pump with 90° connetion fitting (2 L flat-type, 4 L, 8 L reservoir)



Fig. 149 Kit: Filling pump with 90° connection fitting (2 L flat-type, 4 L, 8 L reservoir)

Part no.
638-37561-1
Protective cap, fitting
233-13090-9

Subject to modification

Filling Pumps, Accessories for Cartridge Filling (400 cm³ Cartridge)

Filling pump without connecting parts



Fig. 150 Filling pump without connecting parts

Part no.
244-14161-1

Filling connection, straight (2 L reservoir)



Fig. 151 Filling connection, straight (2 L reservoir)

Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-1

Filling connection, straight (2 L flat-type, 4 L and 8 L reservoir)



Fig. 152 Filling connection, straight (2 L flat-type, 4 L and 8 L reservoir)

Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-5

90° Filling connection (2 L reservoir)



Fig. 153 90° Filling connection (2 L reservoir)

Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-2

Filling Pumps, Accessories
for Cartridge Filling (400 cm³ Cartridge), continuation

90° Filling connection (2L flat-type, 4L, 8L reservoir)



Fig. 154 90° Filling connection (2L flat-type, 4L, 8L reservoir)

Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-4

Lever gun



Fig. 155 Lever gun

	Part no.
Holding clamp	001142 00G160

Pump, Hand-Operated, for Greases up to NLGI Grade 2



Fig. 156 Pump, hand-operated, for greases up to NLGI grade 2 (50 kg)

Drum weight	Stationary	Mobile	Part no.
15 kg	X		244-14125-1
18 kg	X		244-14125-7
25 kg	X		244-14125-5
50 kg	X		244-14125-3
15 kg		X	244-14126-1
25 kg		X	244-14126-2
50 kg		X	244-14126-3
Reservoir Ø for 25 kg.....			311 - 330 mm
Reservoir Ø for 50 kg.....			365 - 385 mm
Output volume			approx. 45 cm³/stroke
Supply pressure			approx. 30 bar



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NOTE
The filling is effected via a hydraulic coupling. For the coupling counterpart to use, see under Quick filling connections for pump 203.

Accessories for the filling of the lubrication fittings	
1 x mouth piece	251-10124-4
1 x reducing nipple R1/4 x R1/8 Z	222-12258-2
1 x filler fitting	251-14073-1
1 x sealing ring	226-13780-2
or reducing nipple	226-14105-9

Drilling Templates

Designation	Part no.
Central lubrication pump 203	810-55150-1
SSV Metering devices	810-55005-3

Operating Instructions

Designation	Part no.
Central lubrication pump 203.....	810-55168-1
Control p.c.b. H 236-13857-1	810-55170-1
Control p.c.b. V10 – V13 236-13891-1	810-55171-1
Control p.c.b. M 00 - M 15 236-13870-2	810-55172-1
Control p.c.b. M 16 - M 23 236-13870-2	810-55173-1
SSV Metering device	810-55174-1
SSV D Metering device	810-55387-1

Dimensions

Pump 203, 2 l reservoir (standard)

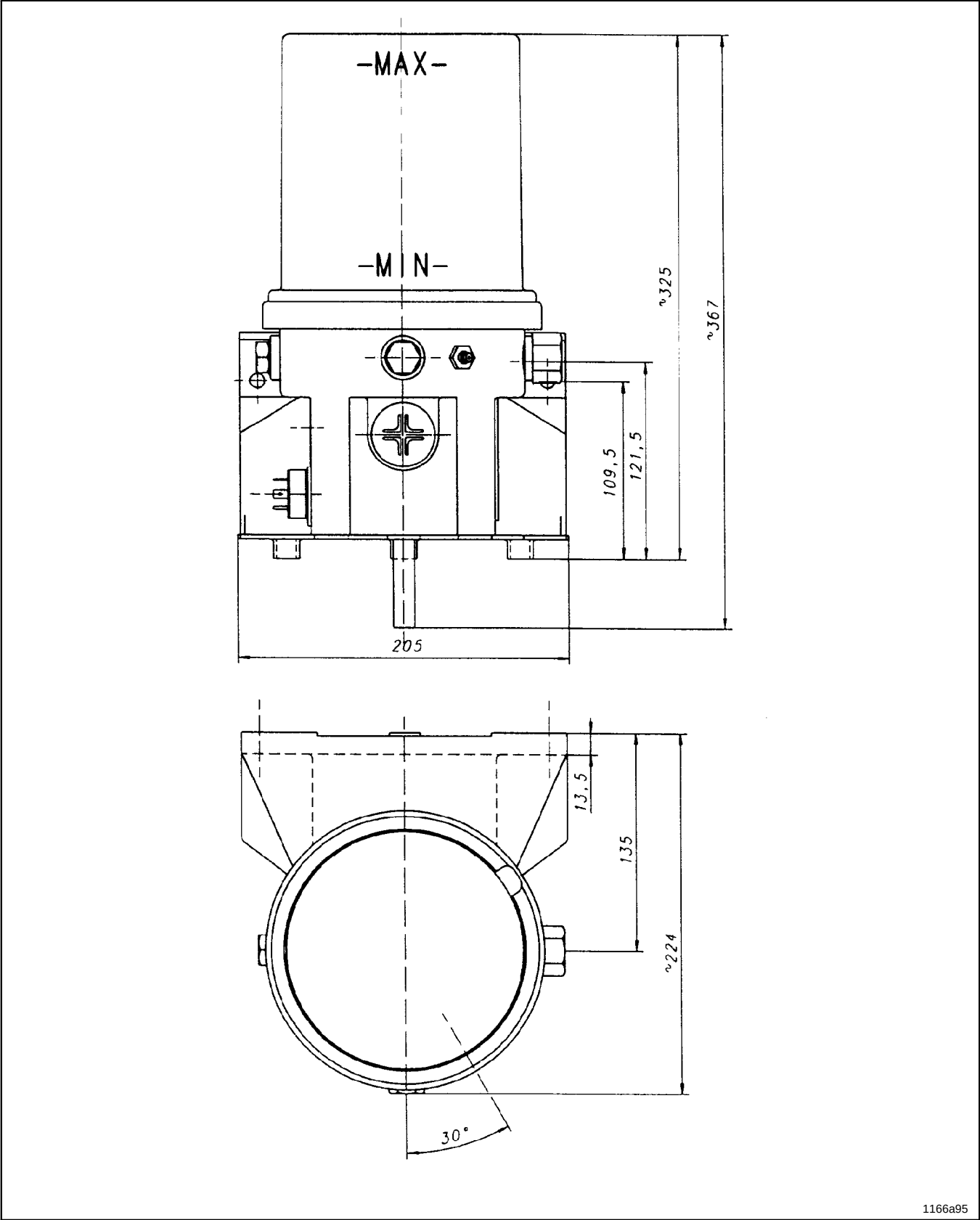


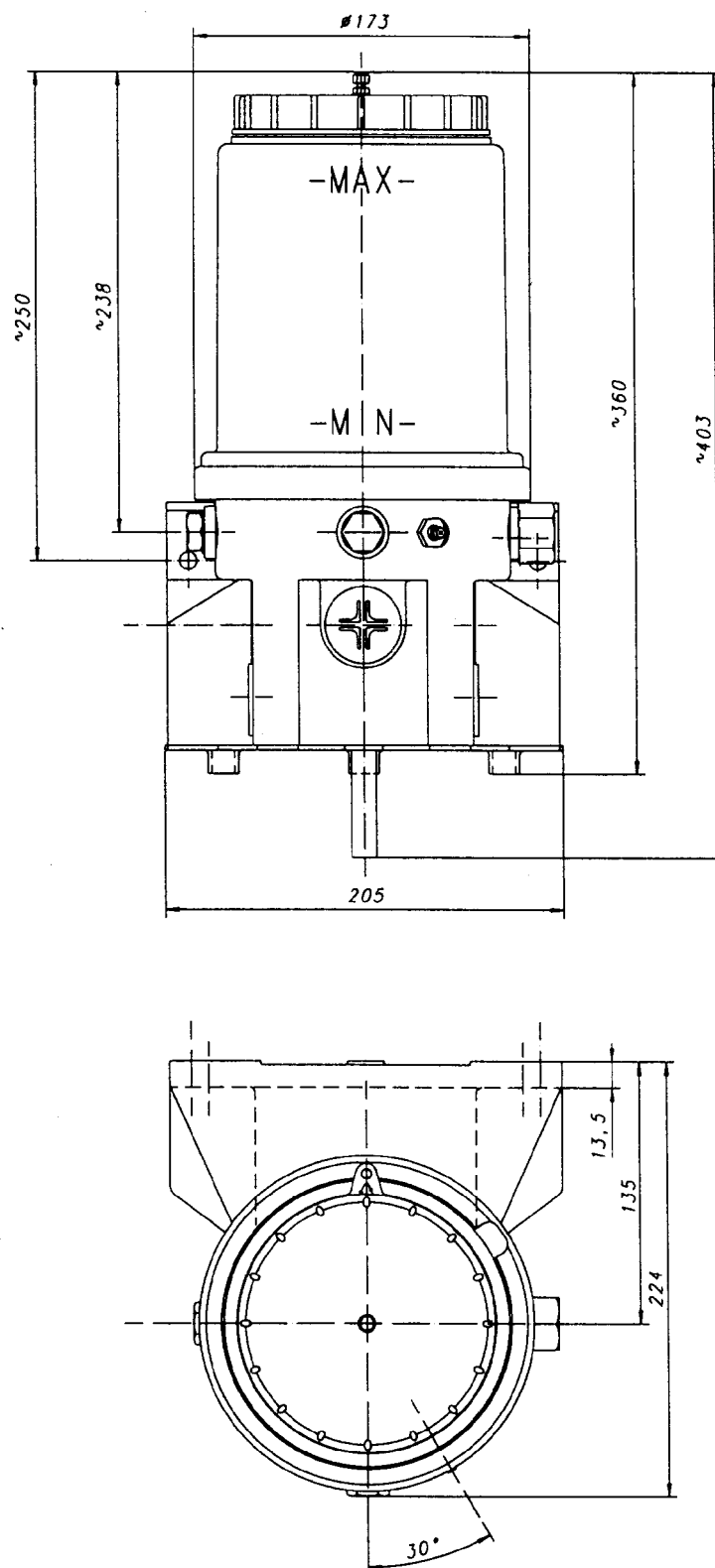
Fig. 157 Pump 203, 2 l reservoir (standard)

1166a95

Subject to modification

Dimensions, continuation

Pump 203, 2 l reservoir (filling from the top)



1067a95

Fig. 158 Pump 203, 2 l reservoir (filling from the top)

Dimensions, continuation

Pump 203, 2 l flat-type reservoir

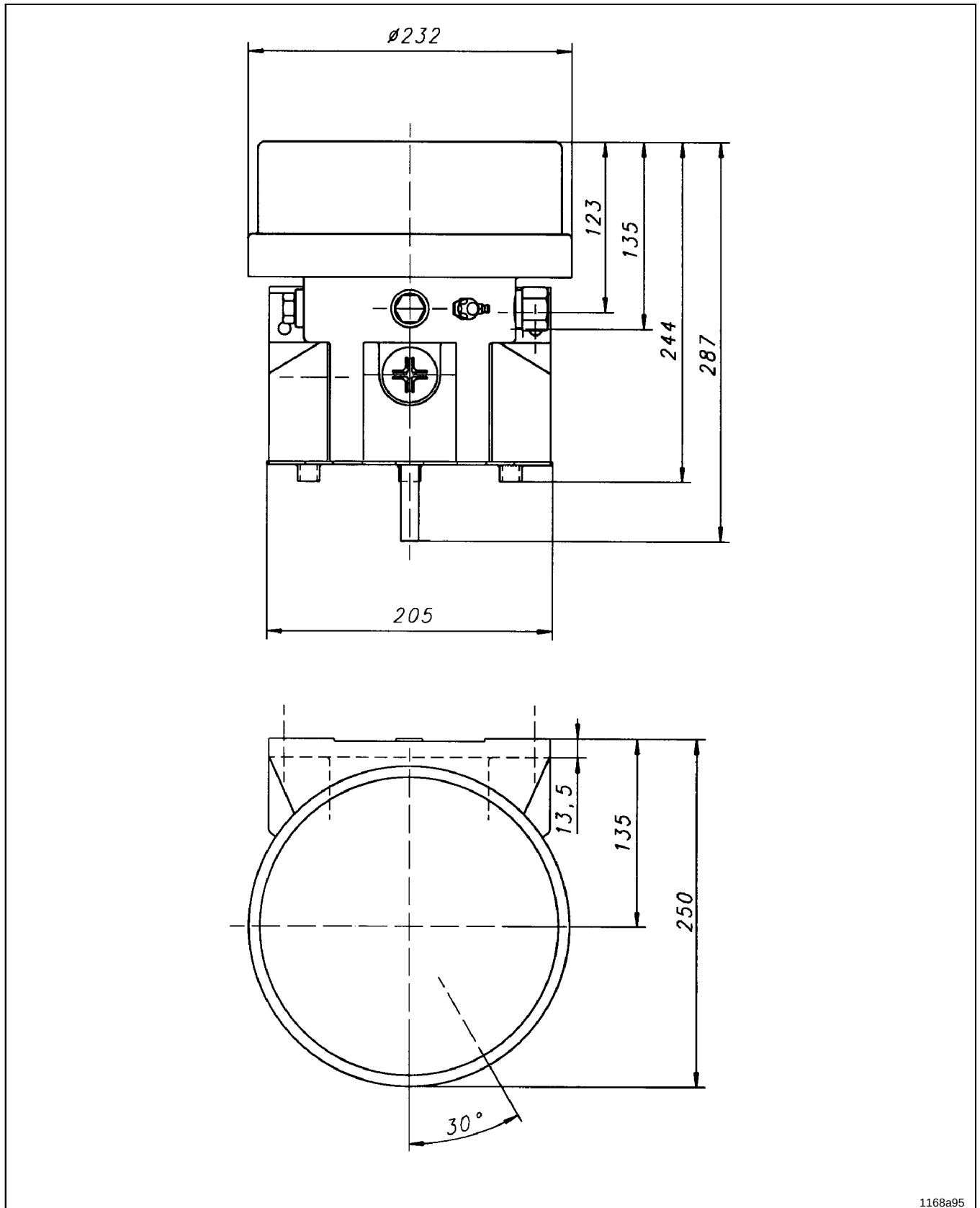
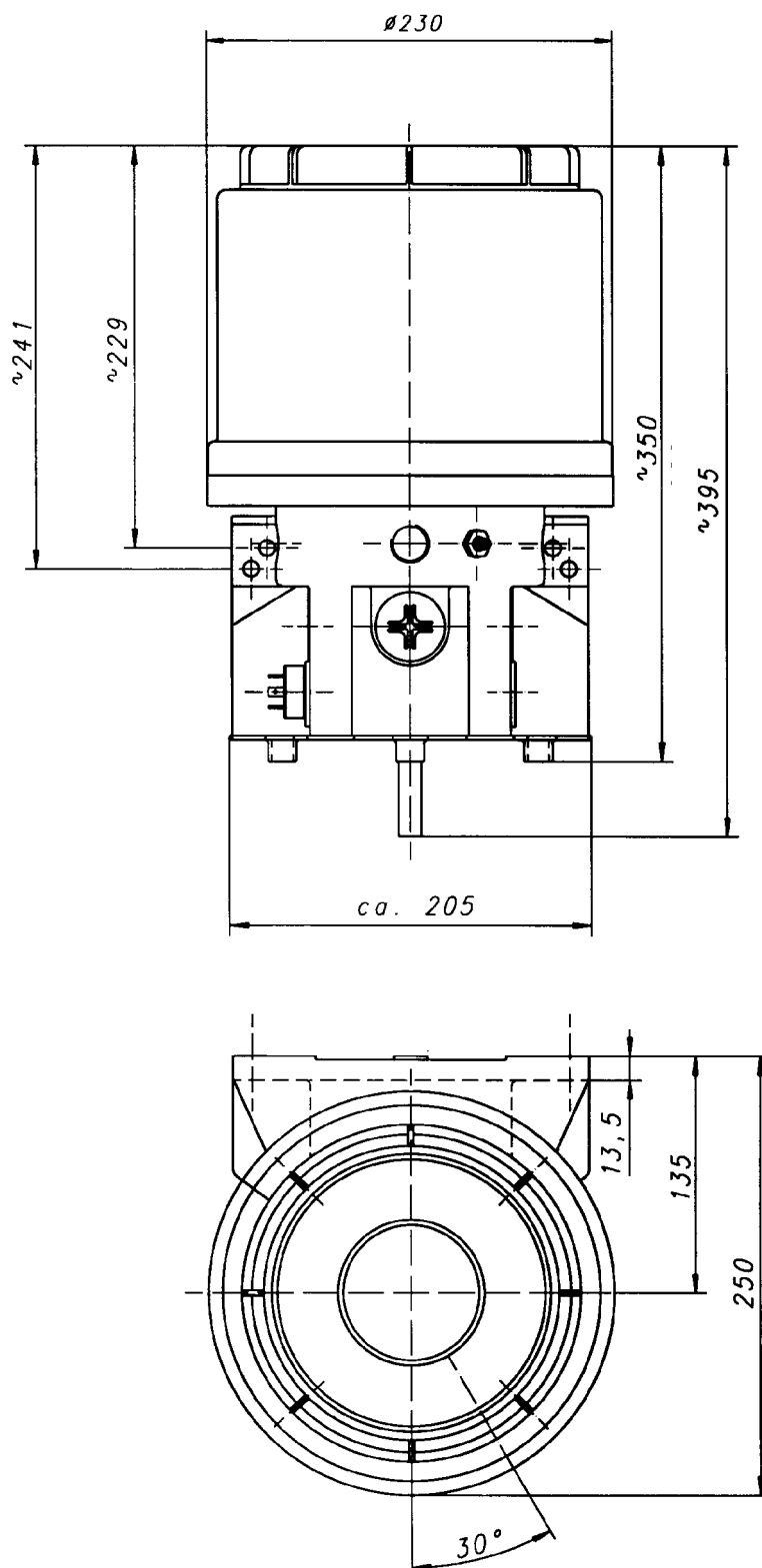


Fig. 159 Pump 203, 2 l flat-type reservoir

Dimensions, continuation

Pump 203, 4 l reservoir



1169a95

Fig. 160 Pump 203, 4 l reservoir

Dimensions, continuation

Pump 203, 8 l reservoir

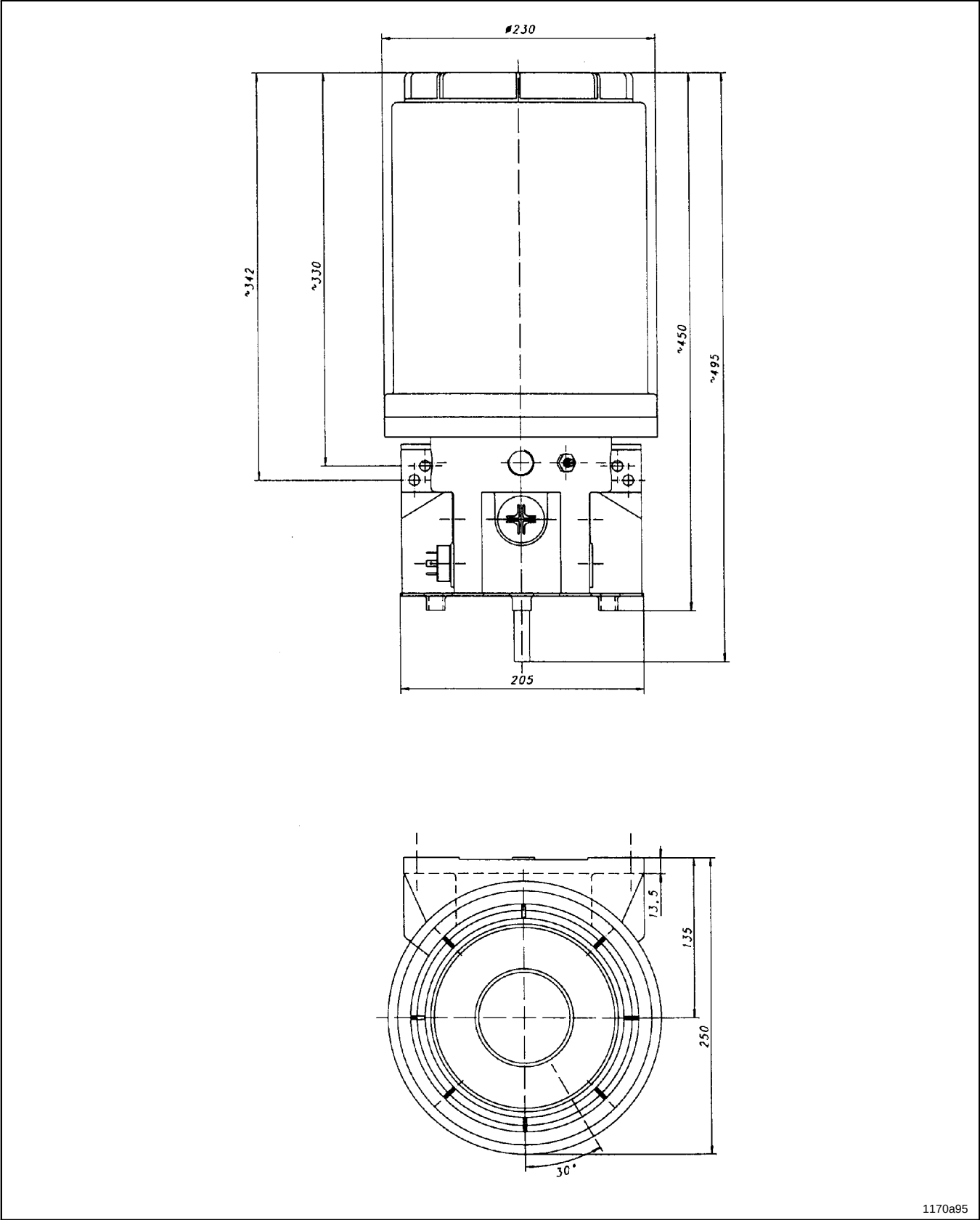
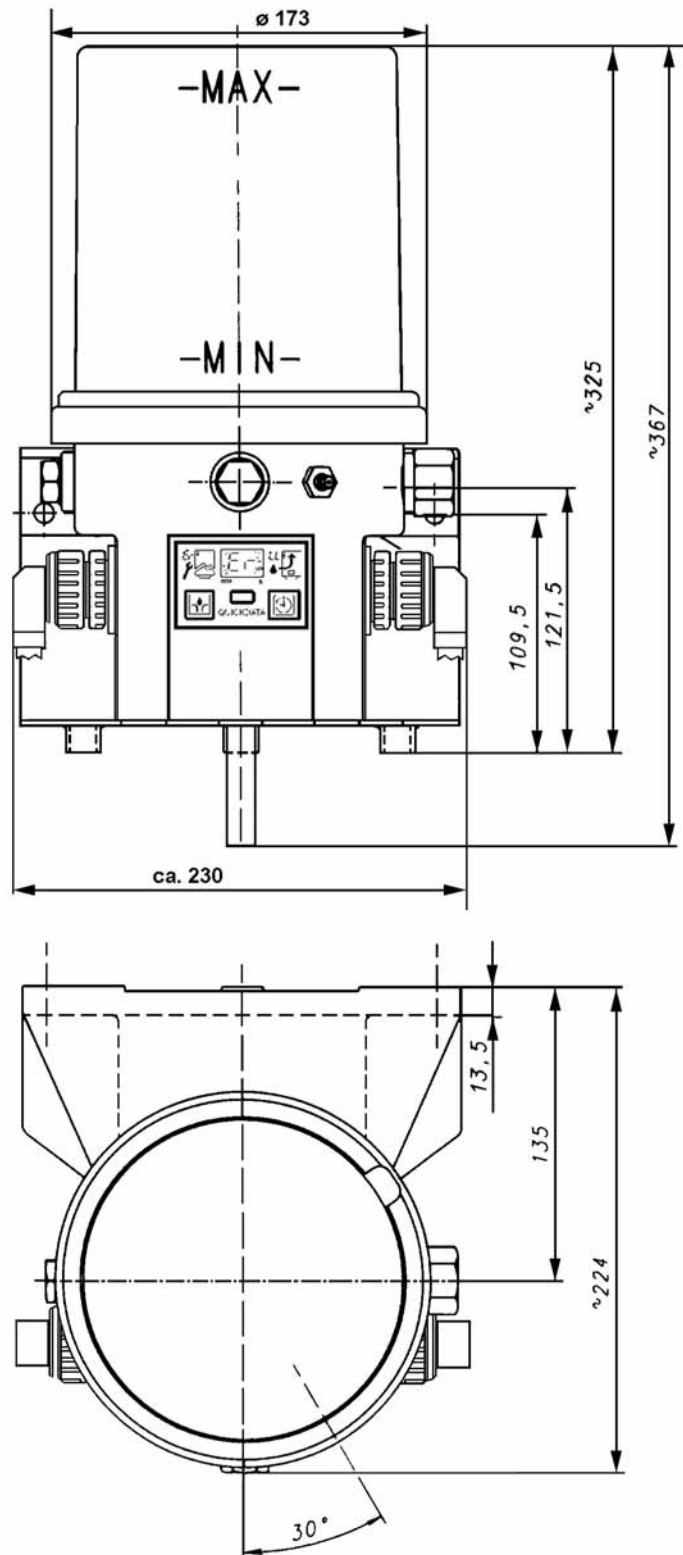


Fig. 161 Pump 203, 8 l reservoir

1170a95

Dimensions, continuation

Pump 223/233, 2 l reservoir (standard)



1166b04

Fig. 162 Pump 223/233, 2 l reservoir (standard)

Dimensions, continuation

Pump 223/233, 2 l reservoir (filling from the top)

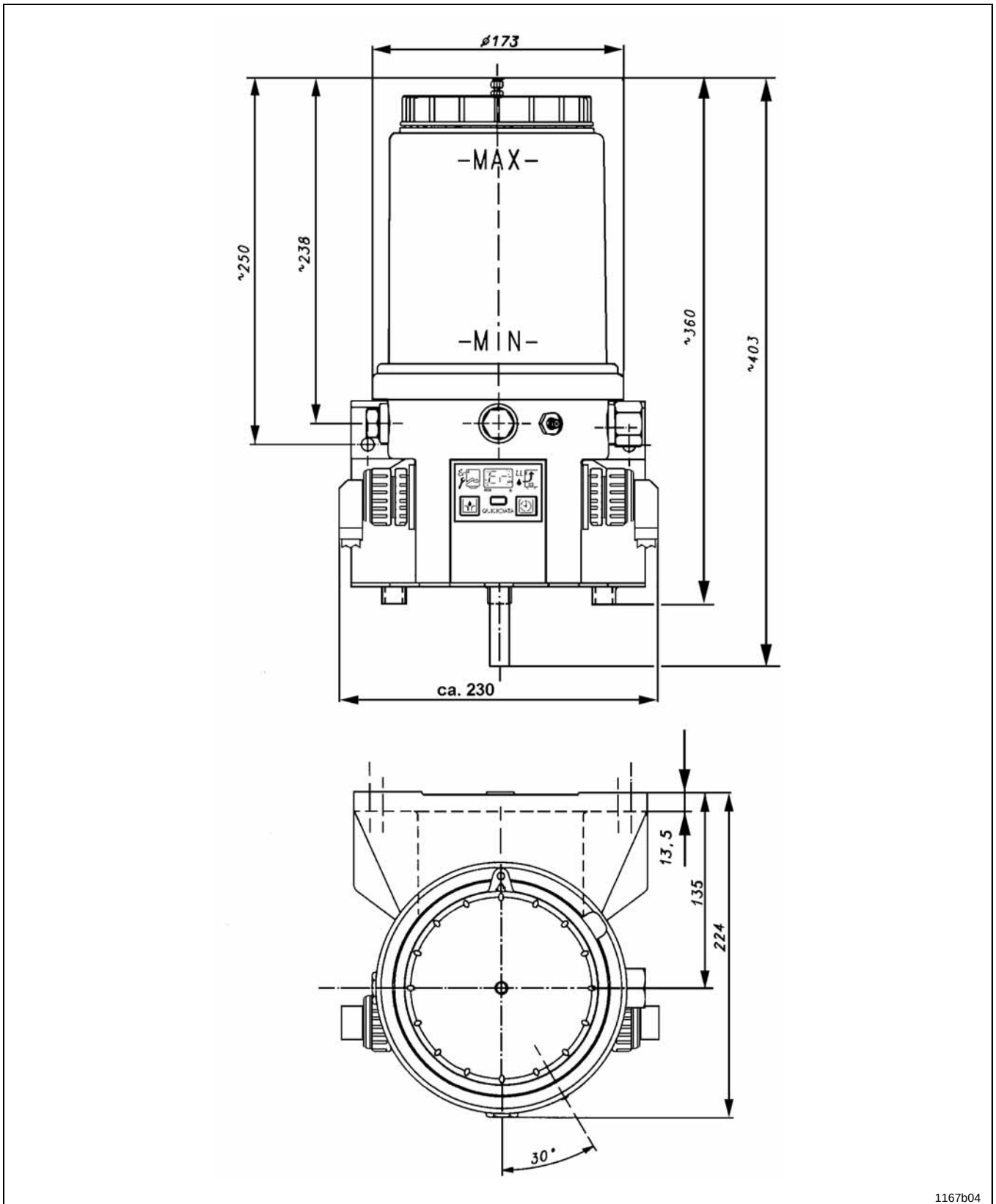
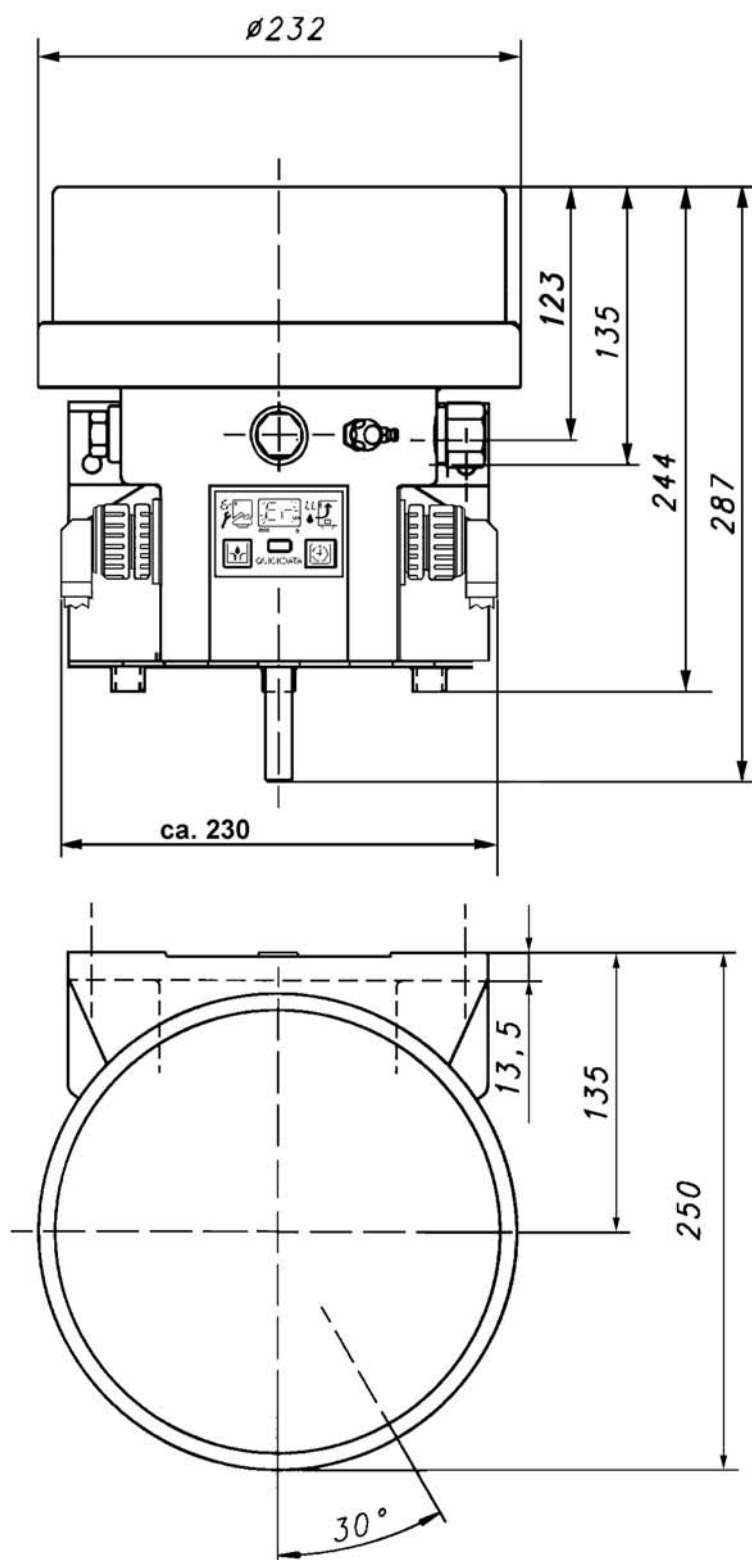


Fig. 163 Pump 223/233, 2 l reservoir (filling from the top)

Dimensions, continuation

Pump 223/233, 2 l flat-type reservoir



1168b01

Fig. 164 Pump 223/233, 2 l flat-type reservoir

Dimensions, continuation

Pump 223/233, 4 l reservoir

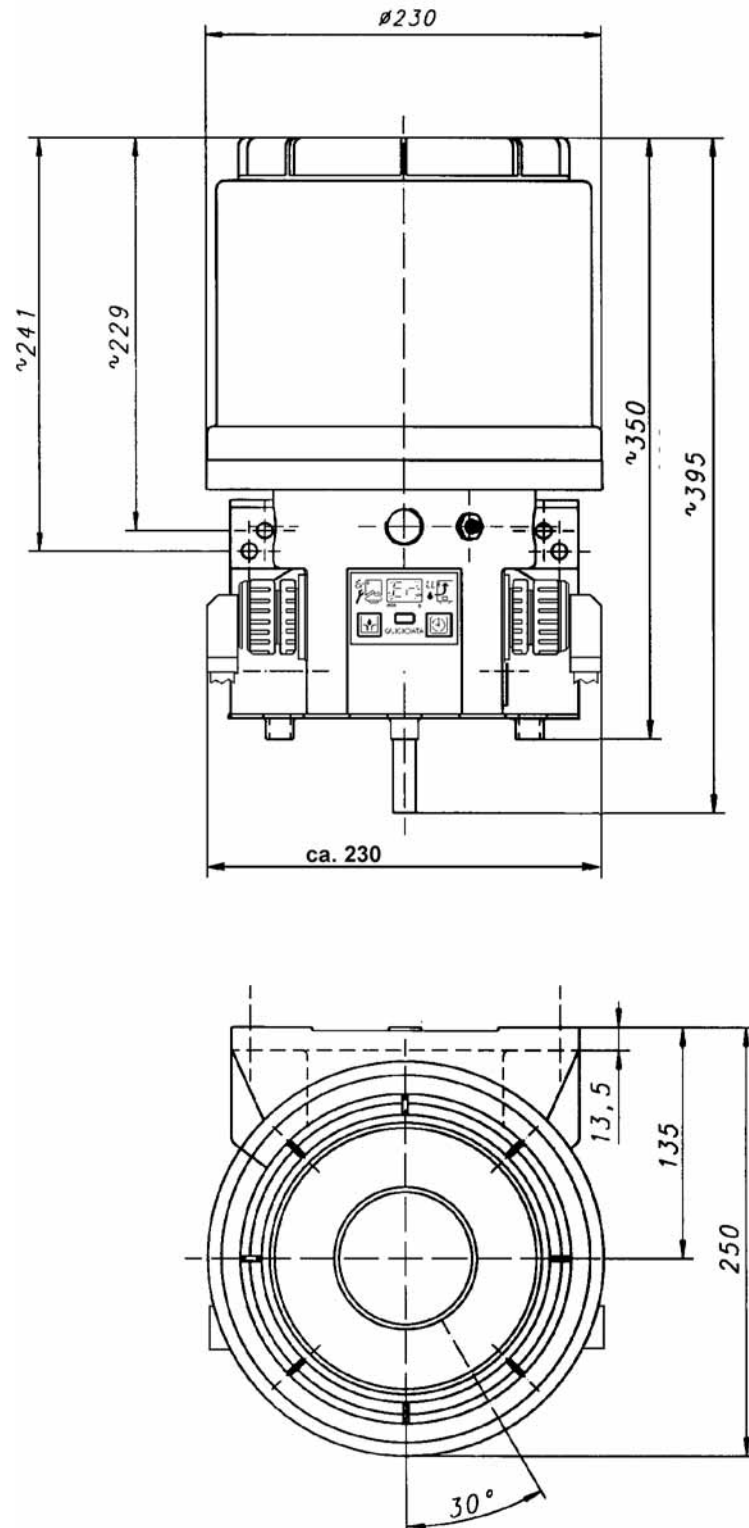
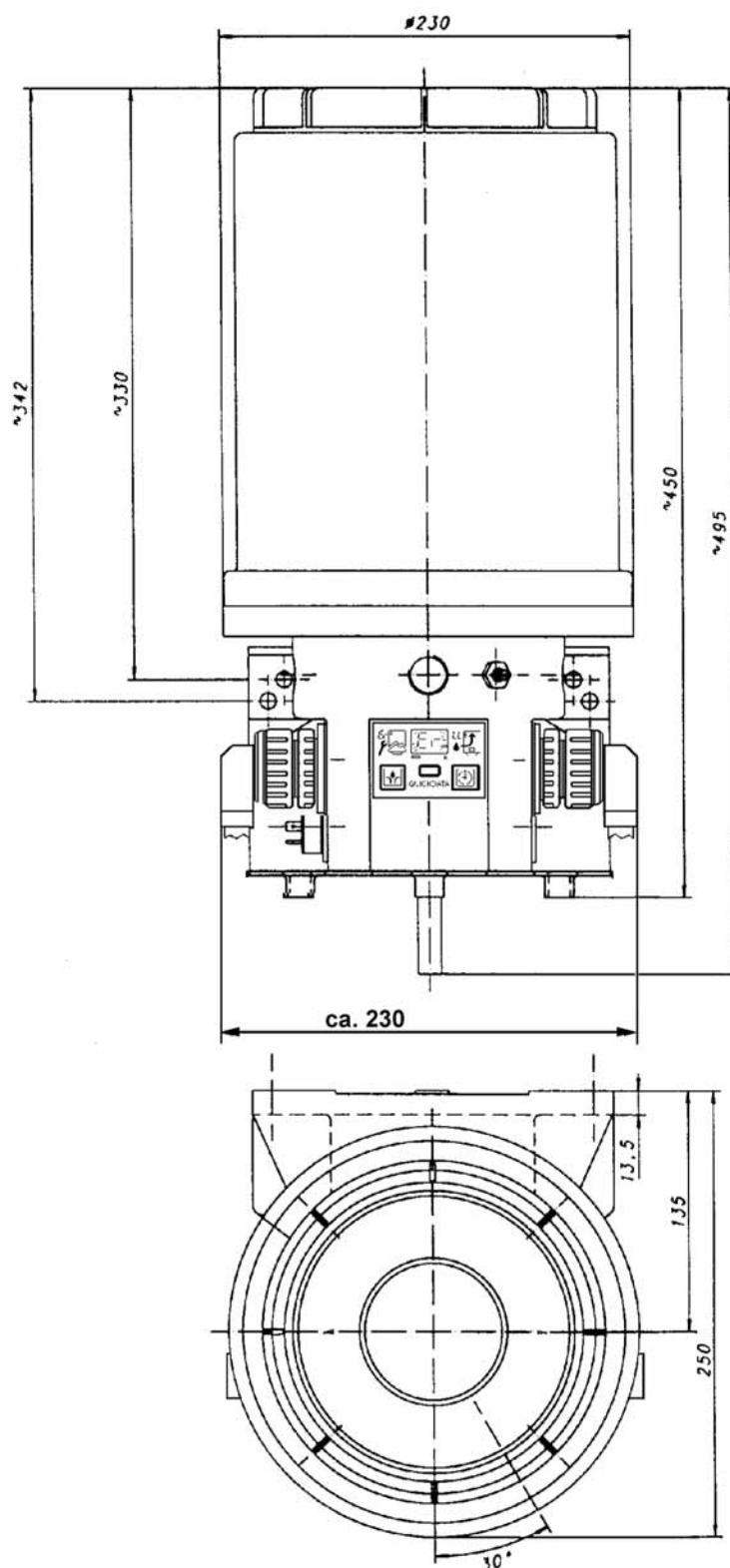


Fig. 165 Pump 223/233, 4 l reservoir

Dimensions, continuation

Pump 223/233, 8 l reservoir



1170b04

Fig. 166 Pump 223/233, 8 l reservoir

Dimensions, continuation

Fixing boreholes of the 2 L, 4 L and 8 L pump 203

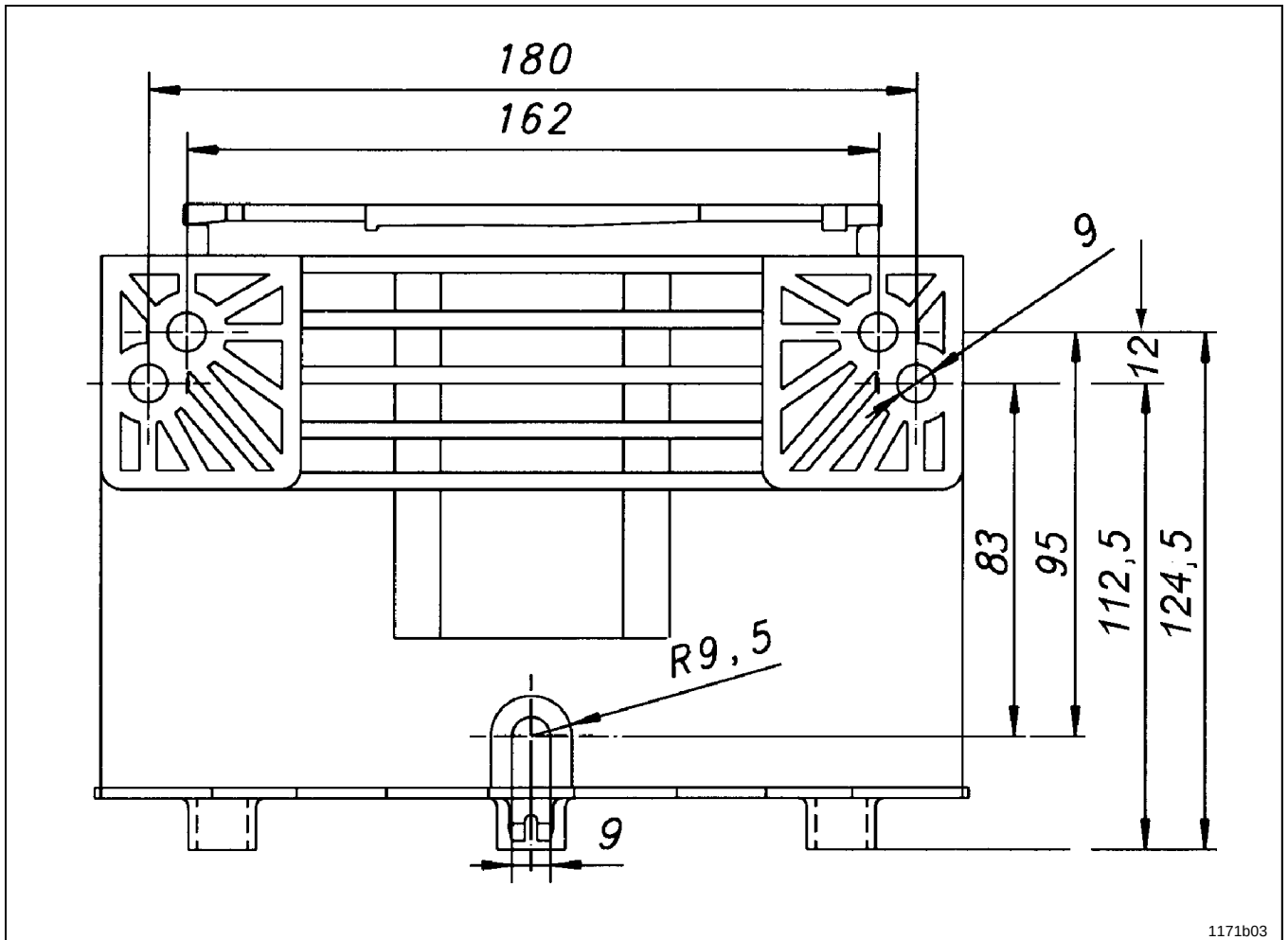


Fig. 167 Fixing boreholes of the 2 L, 4 L and 8 L pump 203



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NOTE

Tighten pump models with 2L flat-type, 4L, 8L and 15L reservoirs with a third fastening screw (on point R 9,5).

Dimensions, continuation

SSV M Metering Devices

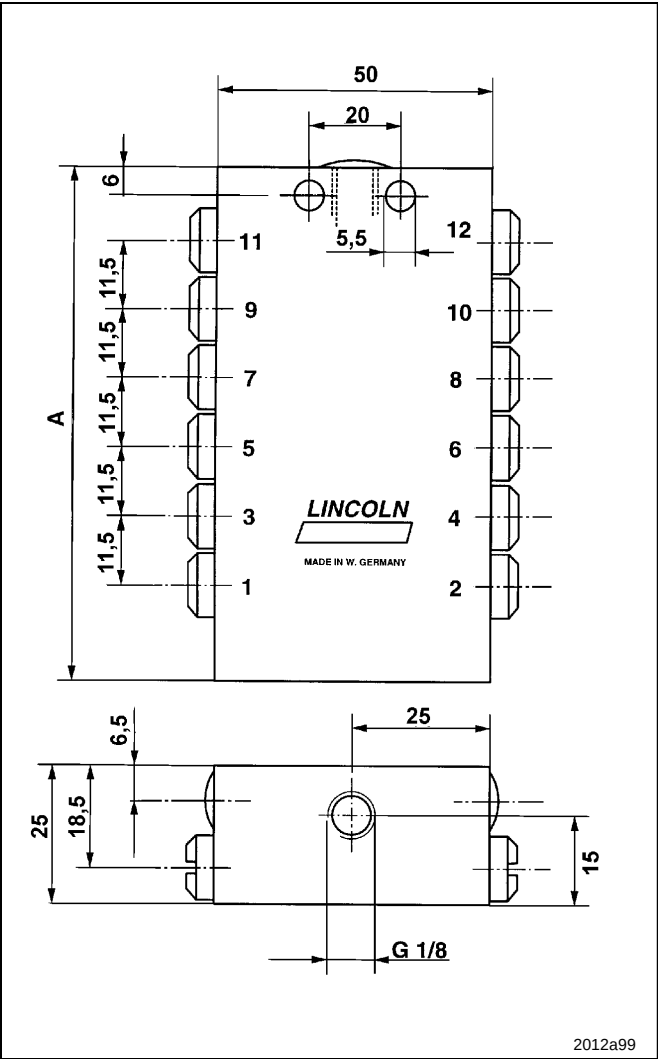


Fig. 168 SSV M metering devices

Model SSV	Dimensions A in mm
6	48,5
8	60
10	71,5
12	83

Block Metering Devices SSV 6 to SSV 22

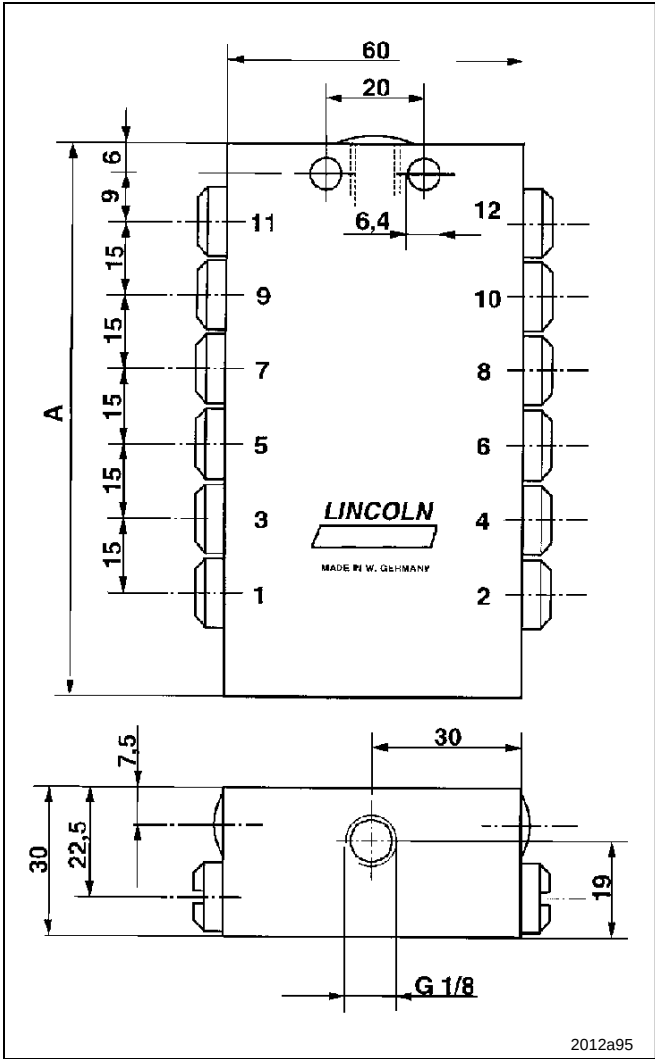


Fig. 169 Block metering devices SSV 6 to SSV 22

Model SSV	Dimensions A in mm
6	60
8	75
10	90
12	105
14	120
16	135
18	150
20	165
22	180

Dimensions, continuation

Block Metering Devices SSV D 6 to SSV D 22

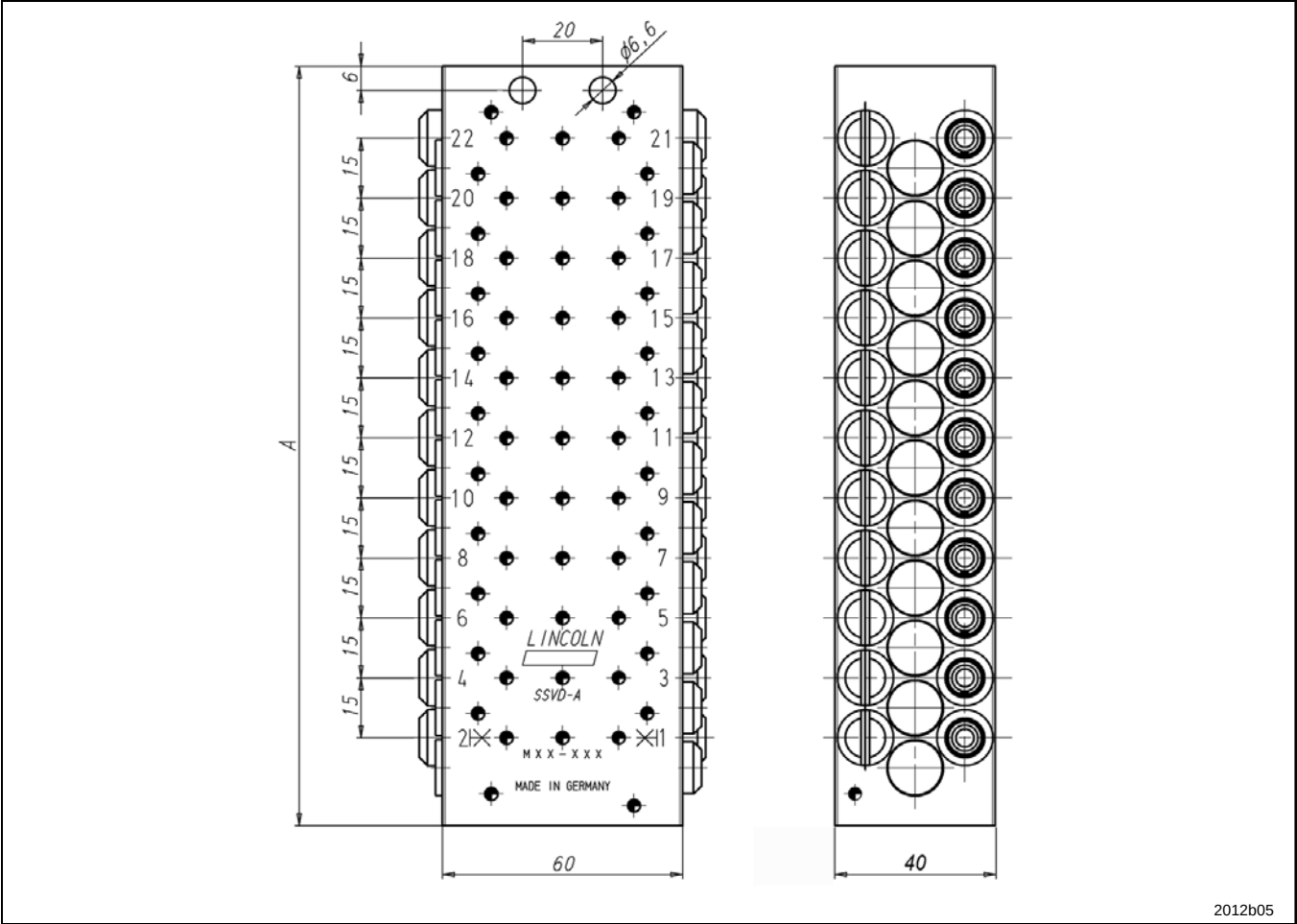


Fig. 170 Block metering devices SSV D 6 to SSV D 22

Model SSV D	Dimensions A in mm
6	70
8	85
10	100
12	115
14	130
16	145
18	160
20	175
22	190

Fittings

Male connector

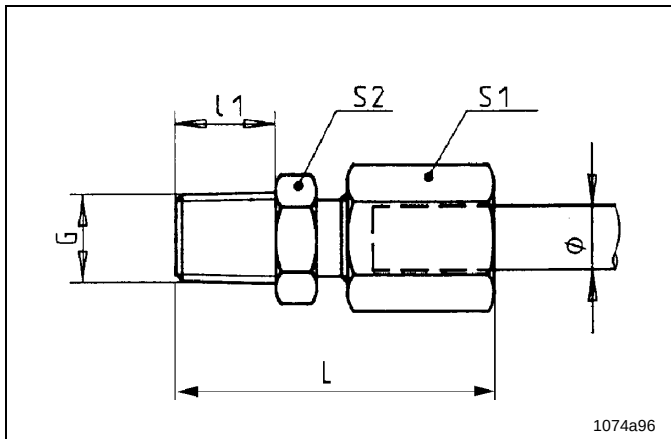


Fig. 171 Male connector

Ø	L	L1	S1	S2	Thread	Part no.
4	26	8	10	9	M 6 x 1 con.	223-12533-5
4	25	8	10	10	M 8 x 1 con.	223-12271-8
4	25	8	12	11	M10 x 1 con.	223-13069-1
4	26	8	12	11	R 1/8 con.	223-12270-8
6	26	8	12	11	M 6 x 1 con.	223-12533-9
6	26	8	12	11	M 8 x 1 con.	223-13023-1
6	26	8	12	11	M10 x 1 con.	223-12271-7
6	26	8	12	11	R 1/8 con.	223-12270-7
8	23	8	14	14	M 10 x 1 con.	223-13021-1
8	25	12	17	17	M12 x 1.5 con.	223-12361-6
8	28	8	14	12	R 1/8 con.	223-12270-9
8	25	12	19	17	R 1/4 con.	223-13621-6

Male elbow

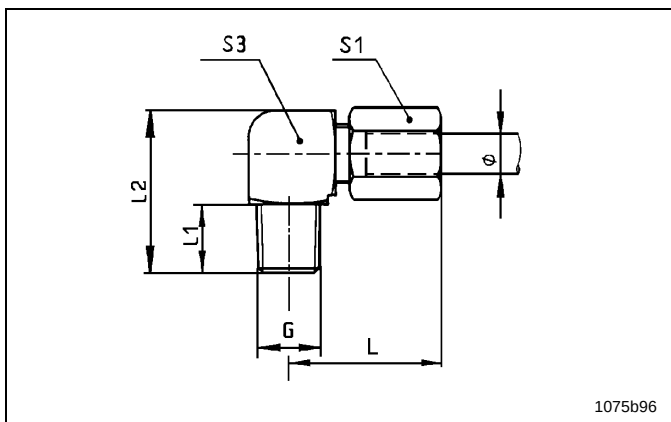


Fig. 172 Male elbow

Ø	L	L1	L2	S1	S3	Thread	Part no.
4	21	8	17	10	9	M 6 x 1 con.	223-12533-6
4	21	8	17	10	9	M 8 x 1 con.	223-13021-5
4	21	8	17	10	9	M10 x 1 con.	223-13069-2
4	21		17	10	9	R 1/8 con.	223-13021-4
6	21	8	17	12	11	M 6 x 1 con.	223-13023-2
6	21	8	17	12	11	M 8 x 1 con.	223-13023-3
6	21	8	17	12	11	M10 x 1 con.	223-13021-3
6	21	8	17	12	11	R 1/8 con.	223-12485-9
8	23	8	20	14	12	M10 x 1 con.	223-12362-4
8	29	12	26	17	14	M12 x 1.5 con.	223-12362-8
8	23	8	20	14	12	R 1/8 con.	223-13021-6

Banjo connector

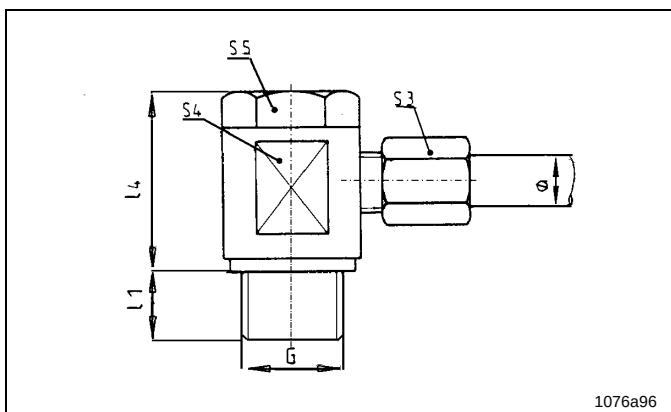


Fig. 173 Banjo connector

Ø	L1	L4	S3	S4	S5	Thread	Part no.
4	6	20	12	14	14	G 1/8 A	223-13629-1
4	6	20	12	14	14	M10 x 1	223-12480-8
6	6	20	12	14	14	G 1/8 A	223-12479-9
6	6	20	12	14	14	M10 x 1	223-12480-7

Fittings, continuation

Extensions

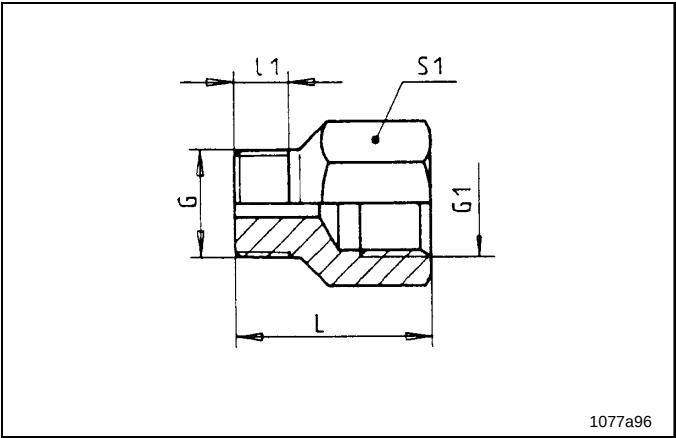


Fig. 174 Extension

L	L1	S1	Thread	Thread 1	Part no.
16	6	10	M 8 x 1	M 8 x 1	304-19437-1
18	6	13	G 1/8"	M10 x 1	304-19230-1
20	8	14	M12 x 1	M10 x 1	712-12724-7
17	6	13	M 8 x 1	R 1/8	304-19167-1
20	6	10	M 6 x 1	M 8 x 1	304-19787-1
18	4,5	13	M10 x 1	M10 x 1	304-19509-1
16	6	10	M8 x 1.25 a	M8 x 1 i	304-19548-1

Union

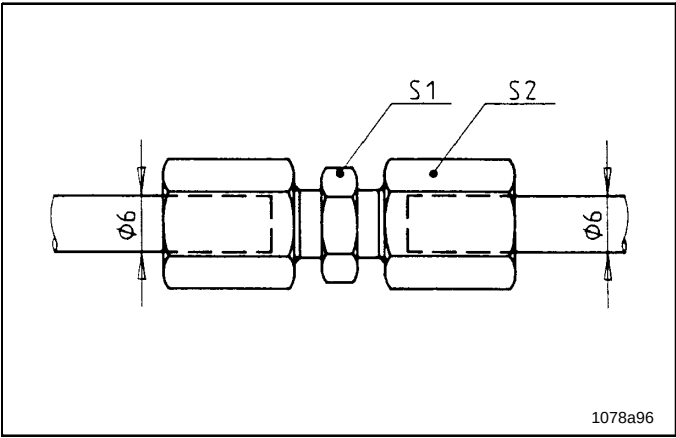


Fig. 175 Union

S1	S2	Part no.
11	12	223-12482-9

Union tee

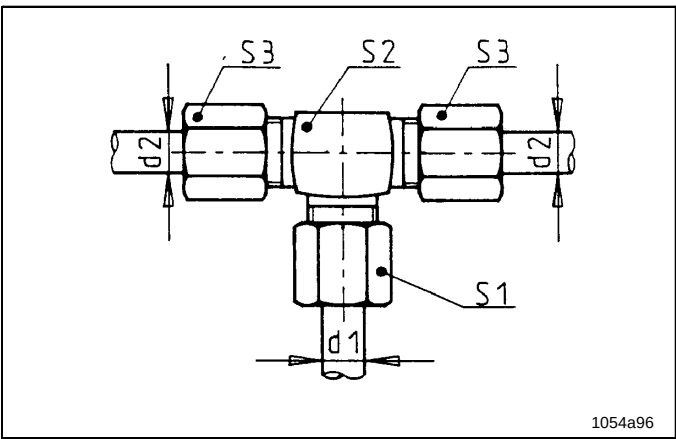


Fig. 176 Union tee

S1	S2	S3	Part no.
12	11	12	223-12484-9

Subject to modification

Fittings, continuation

Male connector, push-in type

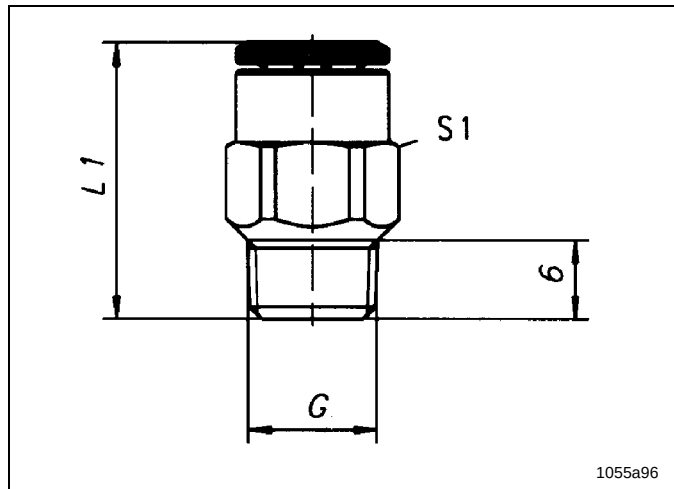


Fig. 177 Male connector, push-in type

Ø	L1	S1	Thread	Part no.
4	21	10	M 6 x 1 con.	226-13752-3
4	18	10	M 8 x 1 con.	226-13752-1
4	18	12	M 10 x 1 con.	226-13752-2
4	19	12	R 1/8 con.	226-13752-4
6	23.5	12	M 6 x 1 con.	226-13752-8
6	23	12	M 8 x 1 con.	226-13752-7
6	21	12	M 10 x 1 con.	226-13752-6
6	21.5	12	R 1/8 con.	226-13752-9
6	21.5	12	R 1/8 con.	226-14111-1

Male elbow, push-in type

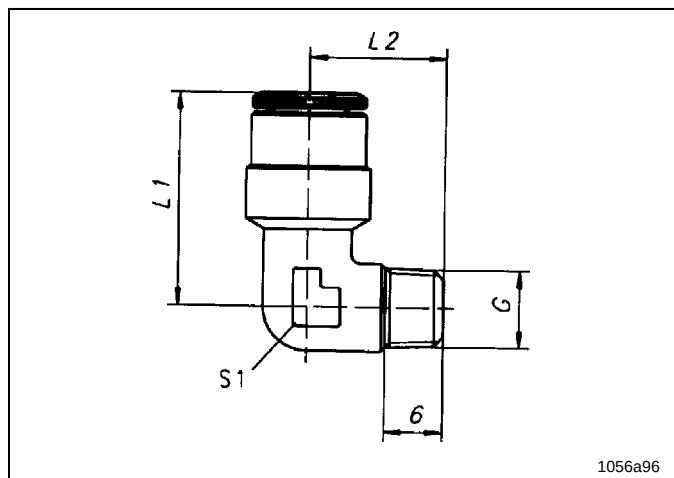


Fig. 178 Male elbow, push-in type

Ø	L1	L2	S1	Thread	Part no.
4	20	13,5	10	M 6 x 1 con.	226-13753-5
4	20	15	10	M 8 x 1 con.	226-13753-1
4	20	15	10	M 10 x 1 con.	226-13753-2
4	20	15	10	R 1/8 con.	226-13753-3
6	22	15	10	M 6 x 1 con.	226-13753-7
6	22	14	10	M 8 x 1 con.	226-13753-8
6	22	14	10	M 10 x 1 con.	226-13753-6
6	22	16.5	10	R 1/8 con.	226-13753-4
6	23	16	10	R 1/8 con.	226-13753-9

Male elbow, push-in type, rotatable

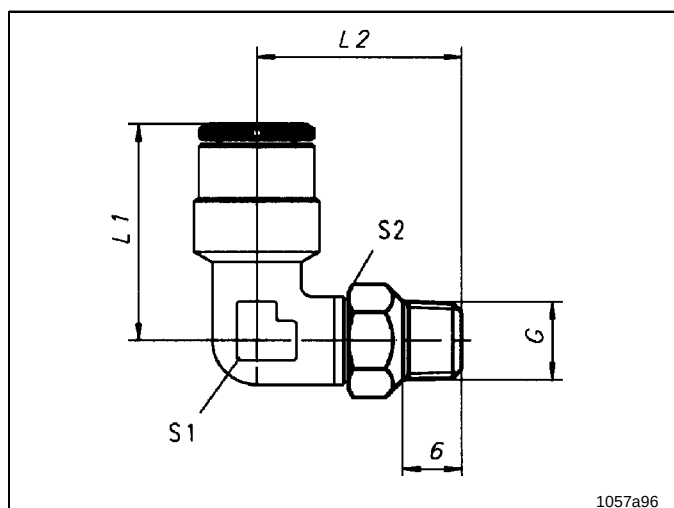


Fig. 179 Male elbow, push-in type, rotatable

Ø	L1	S1	S2	Thread	Part no.
4	20	21	10	M10 x 1	226-13756-2
4	20	21	10	M 8 x 1	226-13756-1
6	20	21	12	R 1/8	226-13756-3
6	22	21	10	M 8 x 1	226-13756-4
6	22	21	12	M 10 x 1	226-13756-5
4	20	21	10	M 6 x 1	226-13756-6
6	22	21	10	M 6 x 1	226-13756-7
6	22	21	10	R 1/8	226-13756-8

Fittings, continuation

Valve body, push-in type

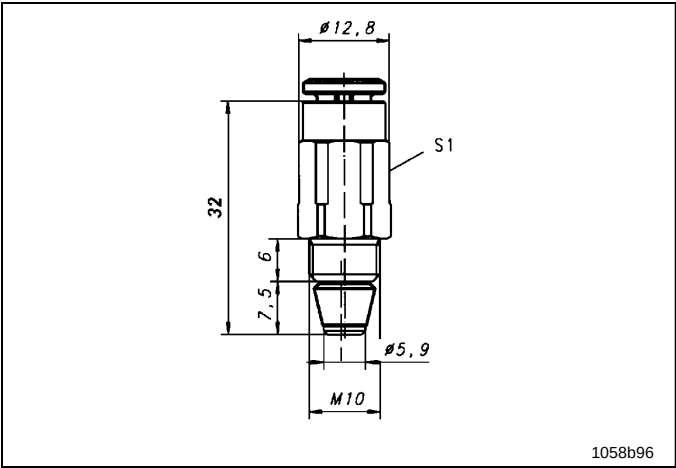


Fig. 180 Valve body, push-in type

Thread	Part no.
Standard design M 10 x 1	226-14091-2
Reinforced collar M 10 x 1	226-14091-4

Valve body 90° with clamping ring, push-in type

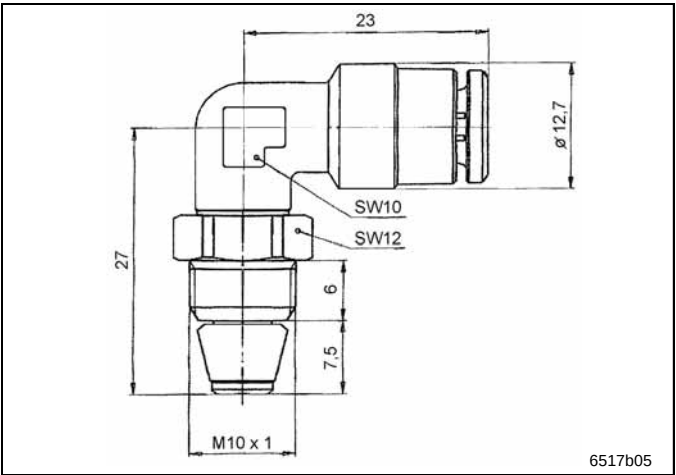


Fig. 181 Reinforced version for the connection of hose studs

Designation	Tube-Ø	Part no.
Reinforced collar WRWV 6521-6-M 10 x 1	6 mm	226-14091-8
Standard design WRV 6511-6-M 10 x 1	6 mm	226-14091-9

T-piece, push-in type

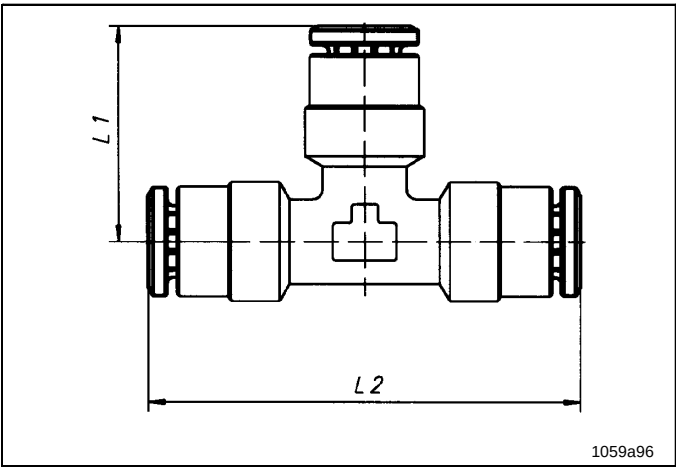


Fig. 182 T-piece, push-in type

L1	L2	Part no.
23	46	226-14097-2
23	46	226-14097-4

Subject to modification

Fittings, continuation

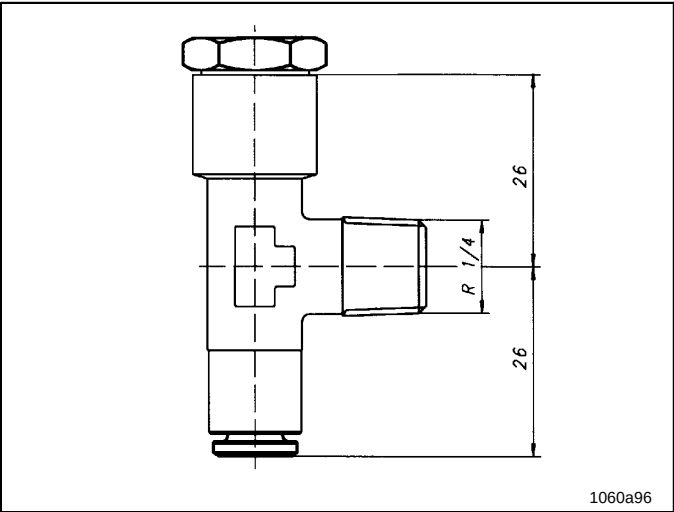


Fig. 183 Pressure relief valve, push-in type

Pressure relief valve, push-in type

Designation	Tube-Ø	Part no.
Pressure relief valve	6 mm	624-28860-1

Brackets

Pump 203

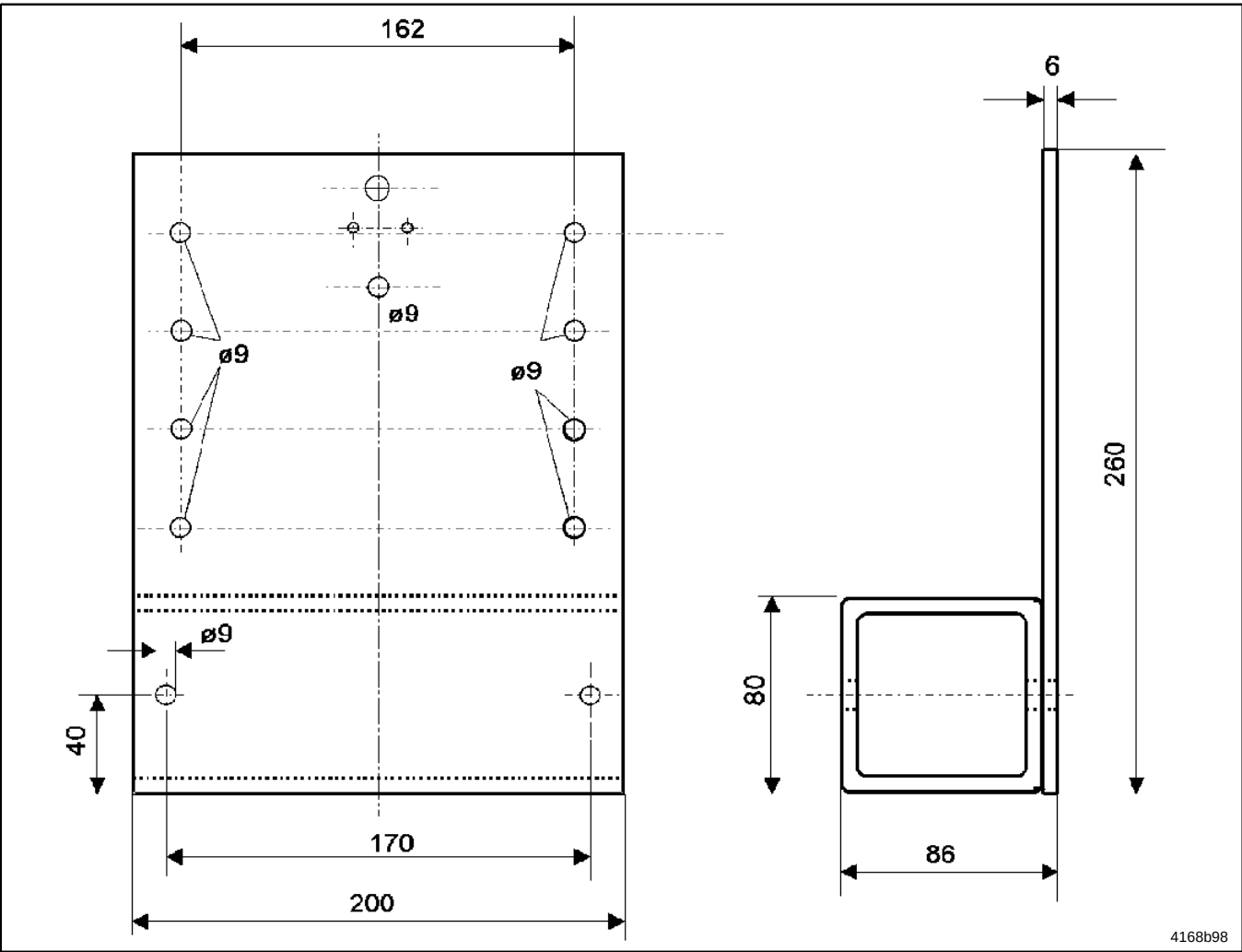


Fig. 184 Bracket for Pump 203

Subject to modification

Brackets and Mounting Elbows

Metering Devices

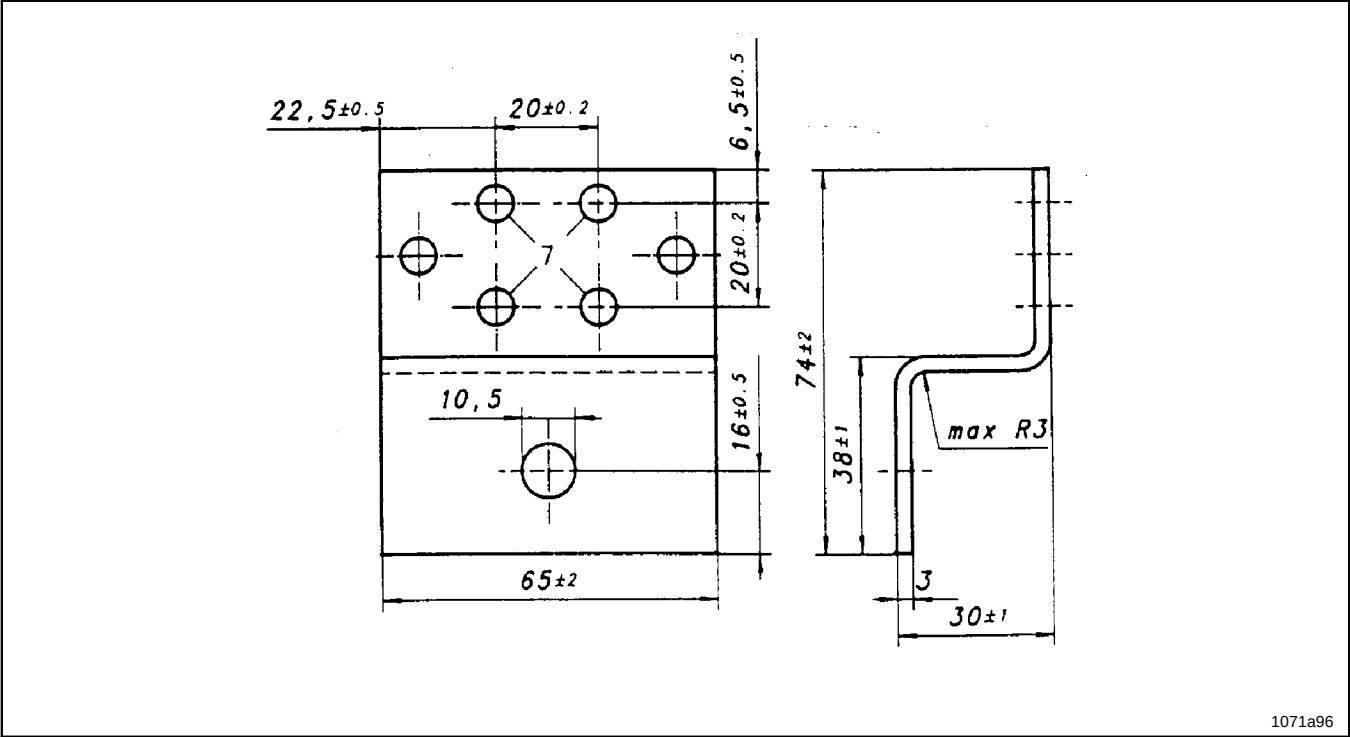


Fig. 185 Bracket for metering devices

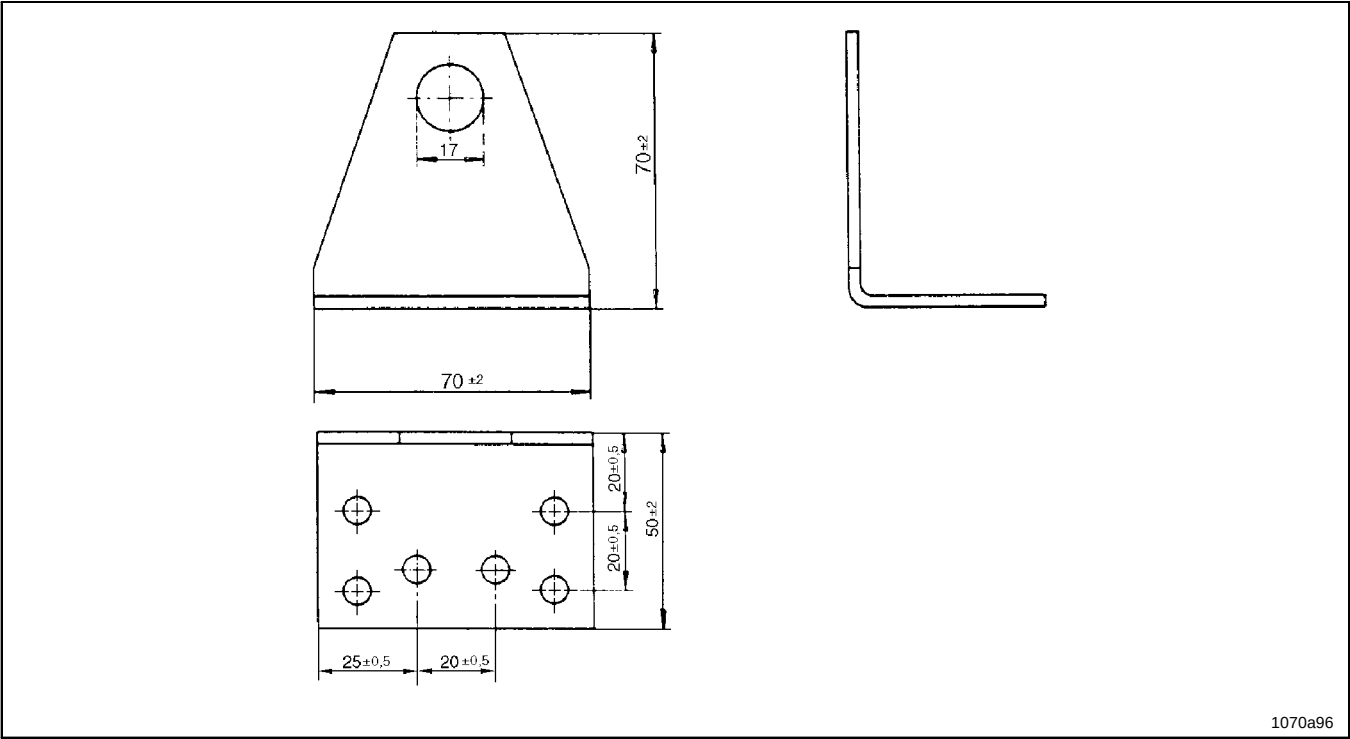


Fig. 186 Mounting elbows for metering devices

Subject to modification

Weights

Pumps 203

The weights mentioned below include the following "individual weights":

- Pump kit with **one** pump element, pressure relief valve, grease filling (0.75 kg, 1.5 kg)
- Packaging (cardboard box)
- Fixing parts
- Operating instructions

2 L reservoir, standard (0.75 kg)

Pump model 203 without connecting cable	5.4 Kg
Pump model 203 type of connection 1A1	6.5 Kg
Pump model 203 type of connection 2A1	7.1 Kg

4 L reservoir, standard (1.5 kg)

Pump model 203 without connecting cable	8.3 Kg
Pump model 203 type of connection 1A1	9.3 Kg
Pump model 203 type of connection 2A1	9.9 Kg

8 L reservoir, standard (1.5 kg)

Pump model 203 without connecting cable	8.6 Kg
Pump model 203 type of connection 1A1	9.6 Kg
Pump model 203 type of connection 2A1	10.2 Kg

In the case of other pump models, the weights of the components must be added to the before mentioned weights.

per pump element	+0.2 kg
per pressure relief valve	+0.1 kg
10 m connection cable, 5-core	
- (microprocessor) 2A4.....	+1.1 kg
10 m connection cable, 4-core	
- (microprocessor) 2A4.....	+0.4 kg
Connection cable with piston detector00.....	+0.1 kg
Reservoir design "Filling from top (only 2 L) ¹⁾	+0.15 kg
2 L flat-type reservoir.....	+0.5 kg



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NOTE

The 4 L and 8 L reservoirs are equipped in series with "Filling from top".

Metering devices

SSV 6	0.8 kg
SSV 8	1.0 kg
SSV 10	1.2 kg
SSV 12	1.4 kg
SSV 14	1.8 kg
SSV 16	2.0 kg
SSV 18	2.2 kg
SSV 20	2.4 kg
SSV 22	2.6 kg
SSV D 6	1.2 kg
SSV D 8	1.5 kg
SSV D 10	1.7 kg
SSV D 12	1.9 kg
SSV D 14	2.2 kg
SSV D 16	2.5 kg
SSV D 18	2.8 kg
SSV D 20	3.1 kg
SSV D 22	3.4 kg

Accessories

Check valve assy., screw type	16.2 g
Check valve assy., push-in type	18.9 g
Male connectors	
- screw type	13.8 g
- push-in type	10.6 g
Male elbows	
- screw type	23.5 g
- push-in type	16.0 g
Hydraulic lubrication fitting	10.3 g
Indicator pin.....	15.0 g
Indicator pin & limit switch	102.0 g
Piston detector	130.0 g
Piston detector, 3-wire.....	30.0 g

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