

Document title: Datasheet BF 10

Created by -

Date: 10.10.2007

Description

Thanks to their small overall height, these units suit perfectly for narrow fitting spaces, e.g. in case of lifter tables.

The installation height depends on the flange diameter of the electric motor and, with this type, it only amounts to 210mm.

Apart from the lifting-lowering module which can be regarded as standard for lifting devices, further hydraulic circuits are available, see in addition the pages 3 - 17 of this data sheet.



Thanks to its design, this unit suits for intermittent operation, i.e. continuous operation is only possible with reduced power.

Unless nothing else is indicated, the power rating for the operating mode S3-10% is valid.

Technical Data

Operating voltage: 400 V, 50 Hz, 3 ~

Special voltage available on request

Nominal volume of the reservoir:

10 Ltr. Further data according to the type code

Maximum operating pressure as a function of installed power and pump capacity

Power Pump-capacity	0,75 KW	1,1 KW	1,5 KW	2,2 KW	3,0 KW	Number of poles e-motor	Displacement Pump
2,2 L/min	201 bar	250 bar				2-polig	0,8 cm ³ /U
2,8 L/min		232 bar	250 bar			4-polig	2,0 cm ³ /U
3,6 L/min	127 bar	186 bar	250 bar			4-polig	2,5 cm ³ /U
4,5 L/min			201 bar	250 bar		2-polig	1,6 cm ³ /U
5,6 L/min				236 bar	250 bar	2-polig	2,0 cm ³ /U
6,1 L/min				210 bar		4-polig	4,3 cm ³ /U
7,0 L/min				189 bar	250 bar	2-polig	2,5 cm ³ /U
9,0 L/min					201 bar	2-polig	3,2 cm ³ /U
10,6 L/min					169 bar	2-polig	3,8 cm ³ /U
12,0 L/min					150 bar	2-polig	4,3 cm ³ /U

Type code:

BF10 X XX XXXX XX X

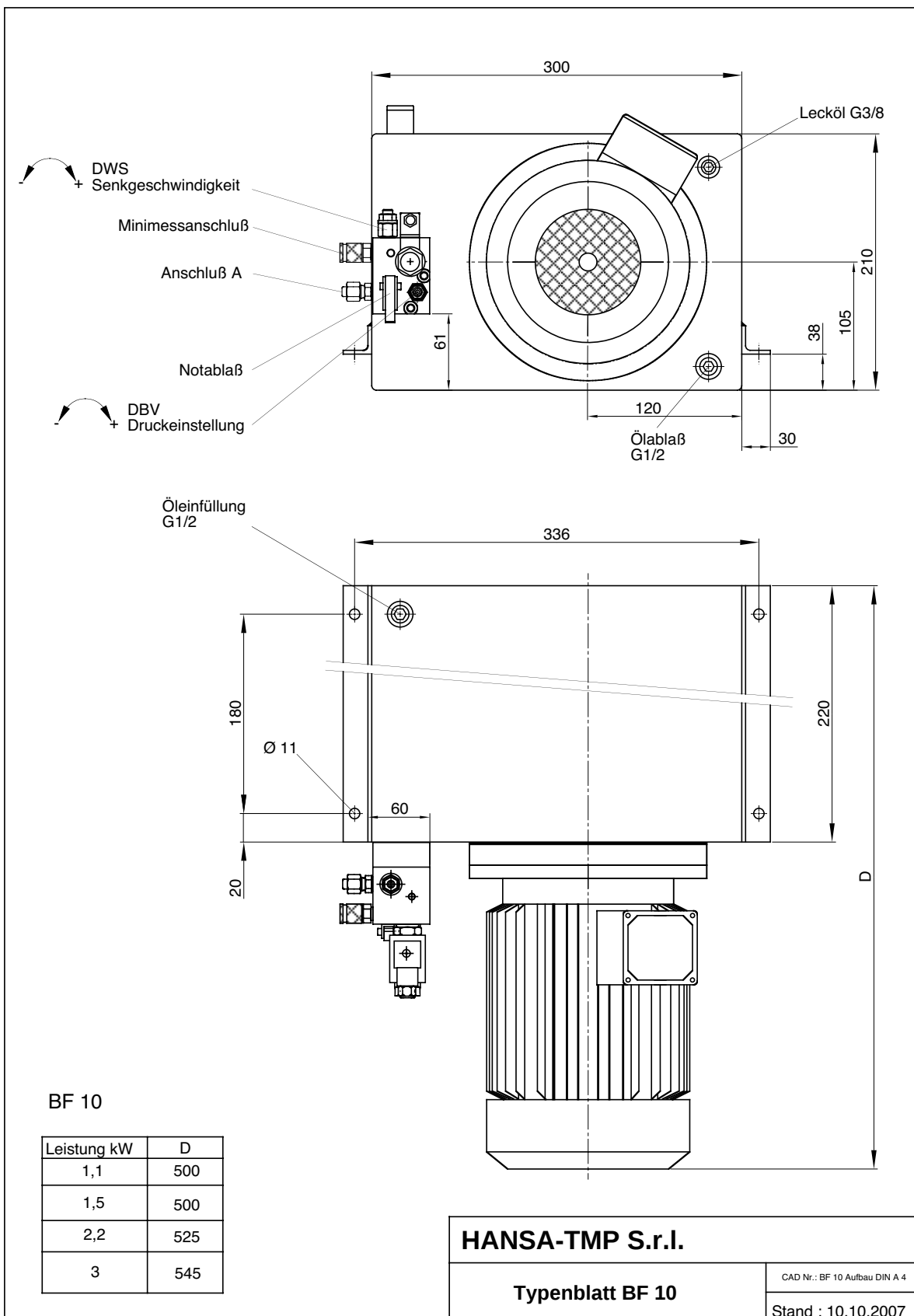
Installed power		Pump delivery		Control voltage		Hydraulic circuit	Issue
0,7	0,75 KW	22	2,2 L/min	230A	230V AC	see page 3 - 17	
1,1	1,1 KW	28	2,8 L/min	024A	24V AC		
1,5	1,5 KW	36	3,6 L/min	024D	24V DC		
2,2	2,2 KW	45	4,5 L/min				
3,0	3,0 KW	56	5,6 L/min				
		70	7,0 L/min				
		90	9,0 L/min				
		10	10,6 L/min				
		12	12 L/min				

Type of example: BF10 1,1 28 230A AJ 1

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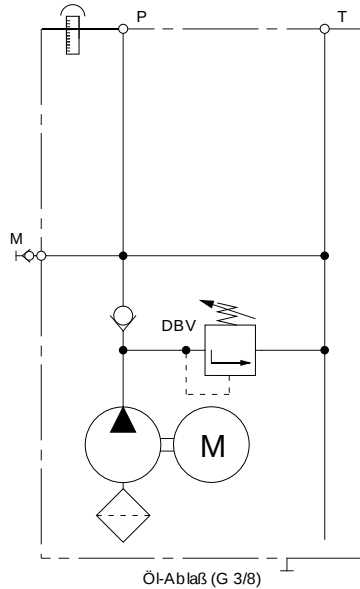


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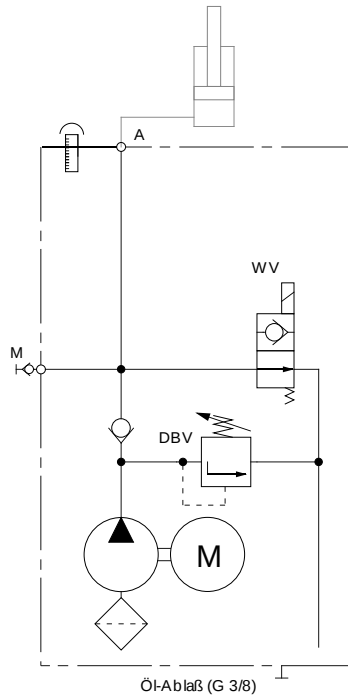
Created by -

Date: 10.10.2007

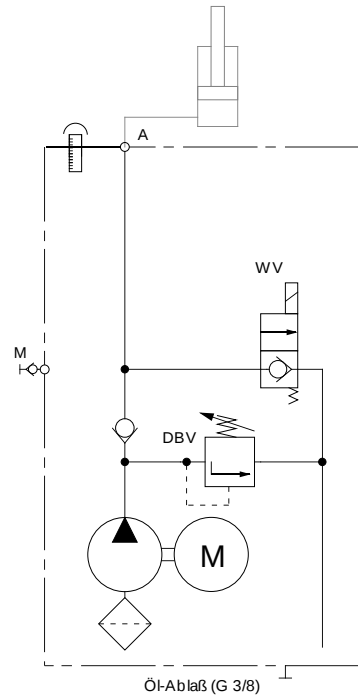
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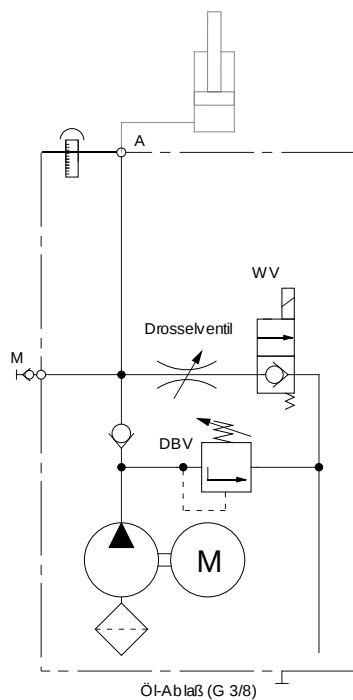
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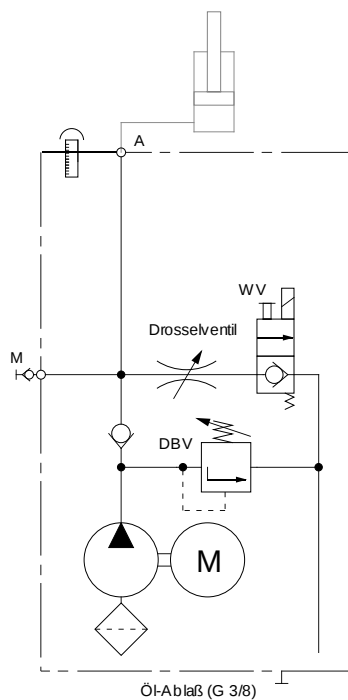
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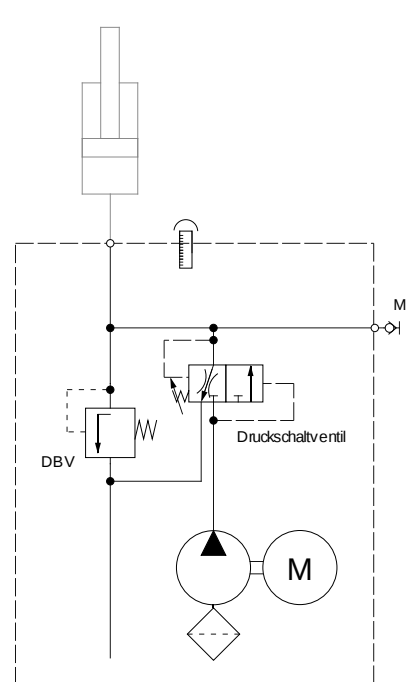
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Circuit Code: AE



Circuit Code: AF

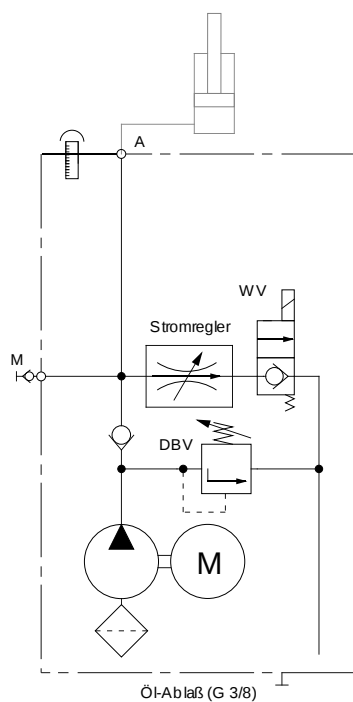


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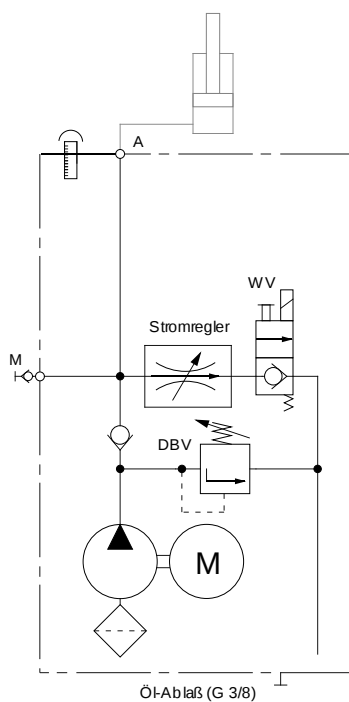
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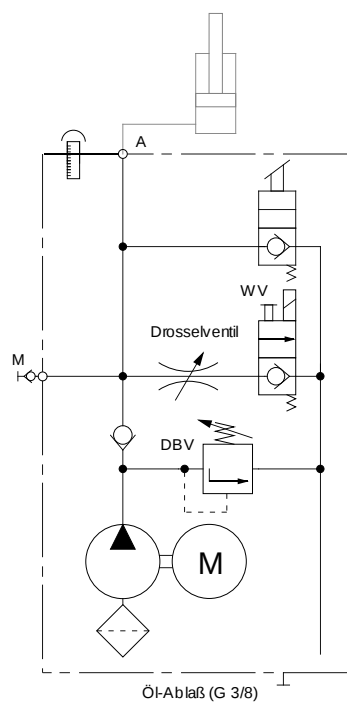
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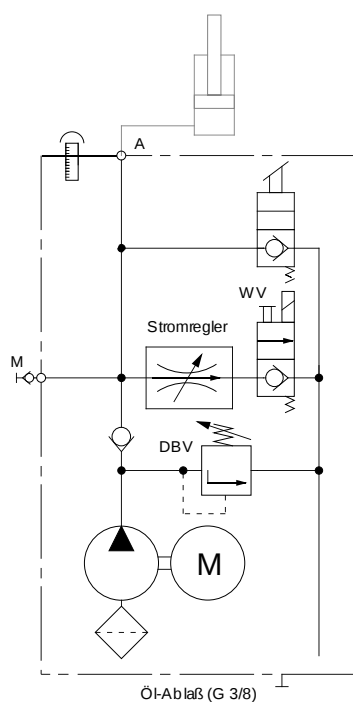
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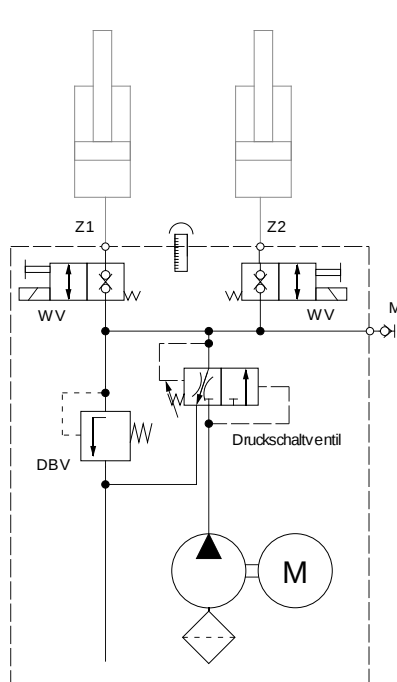
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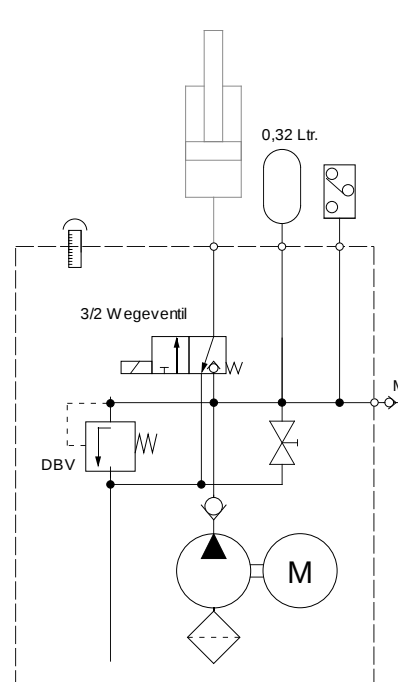
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Circuit Code: AK



Circuit Code: AL

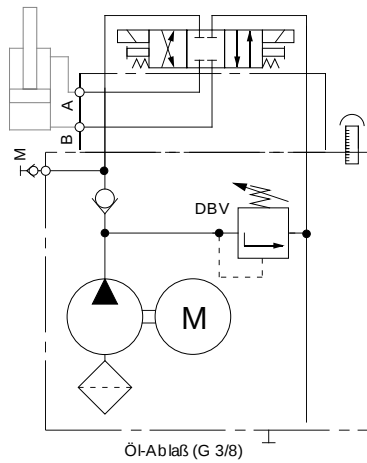


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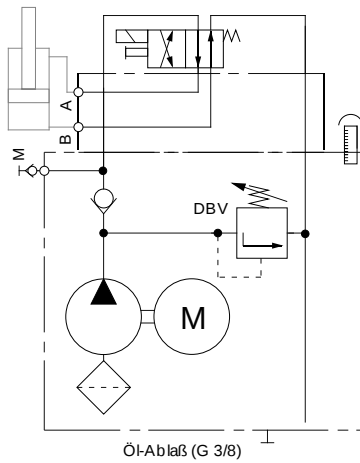
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Date: 10.10.2007

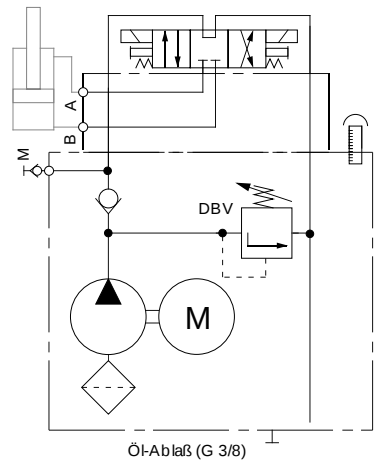
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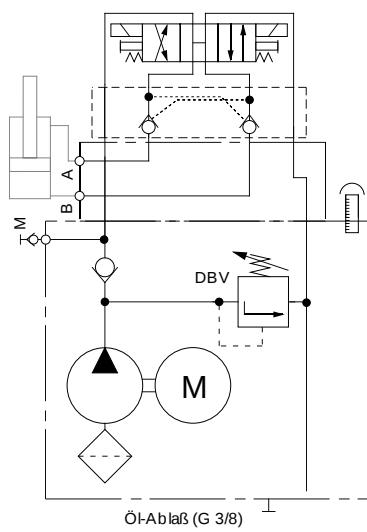
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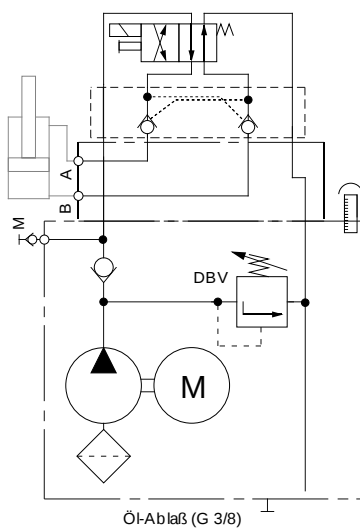
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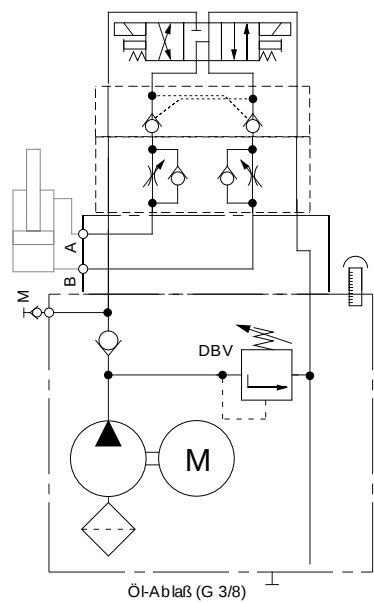
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Circuit Code: AQ



Circuit Code: AR

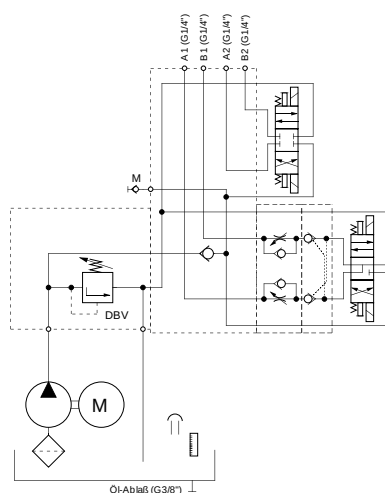


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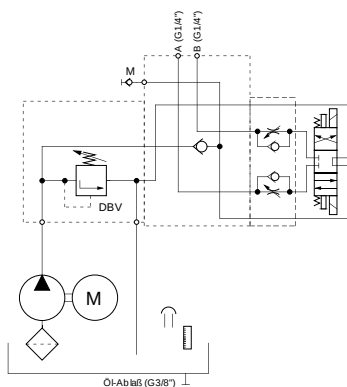
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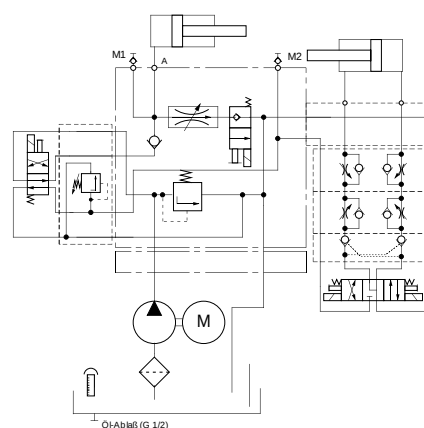
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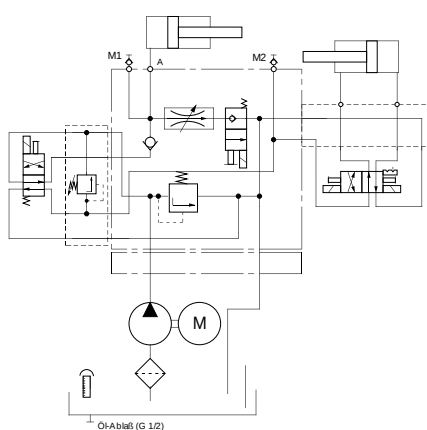
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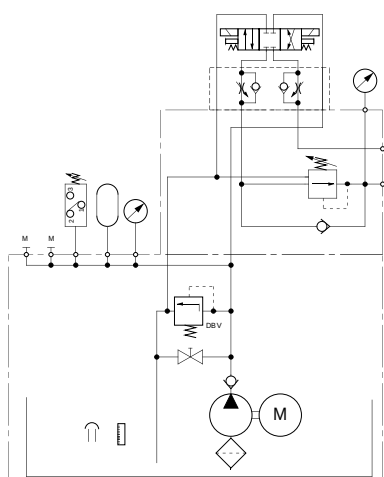
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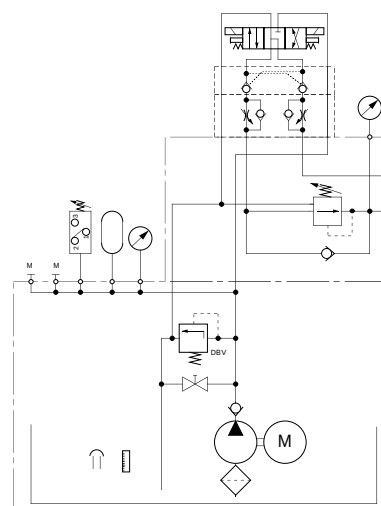
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Circuit Code: AW



Circuit Code: AX

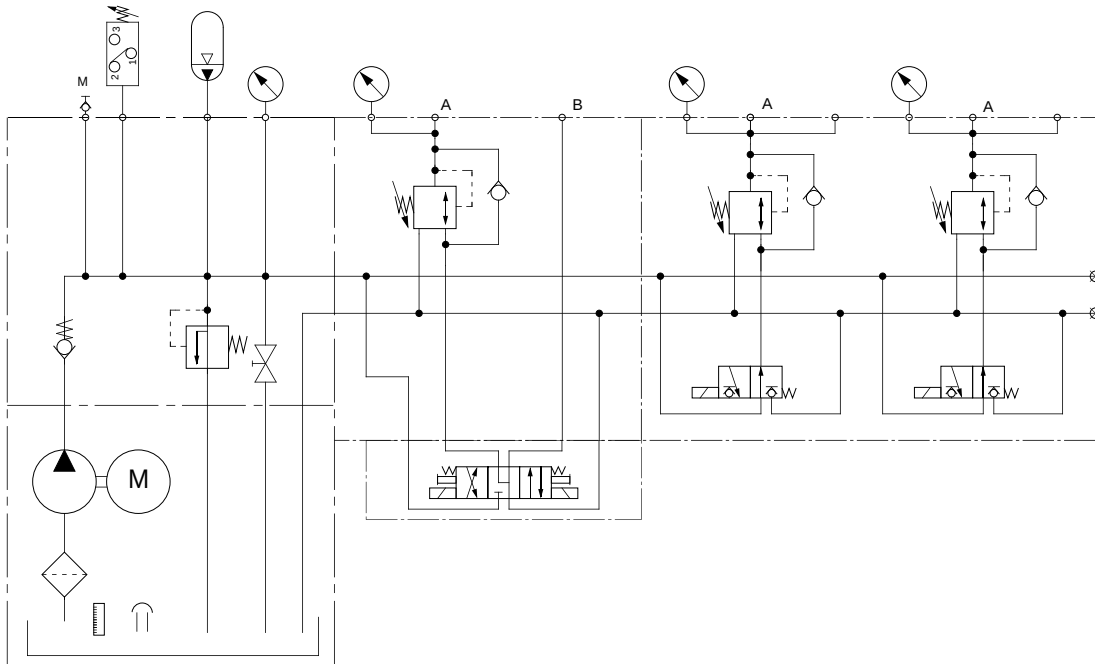


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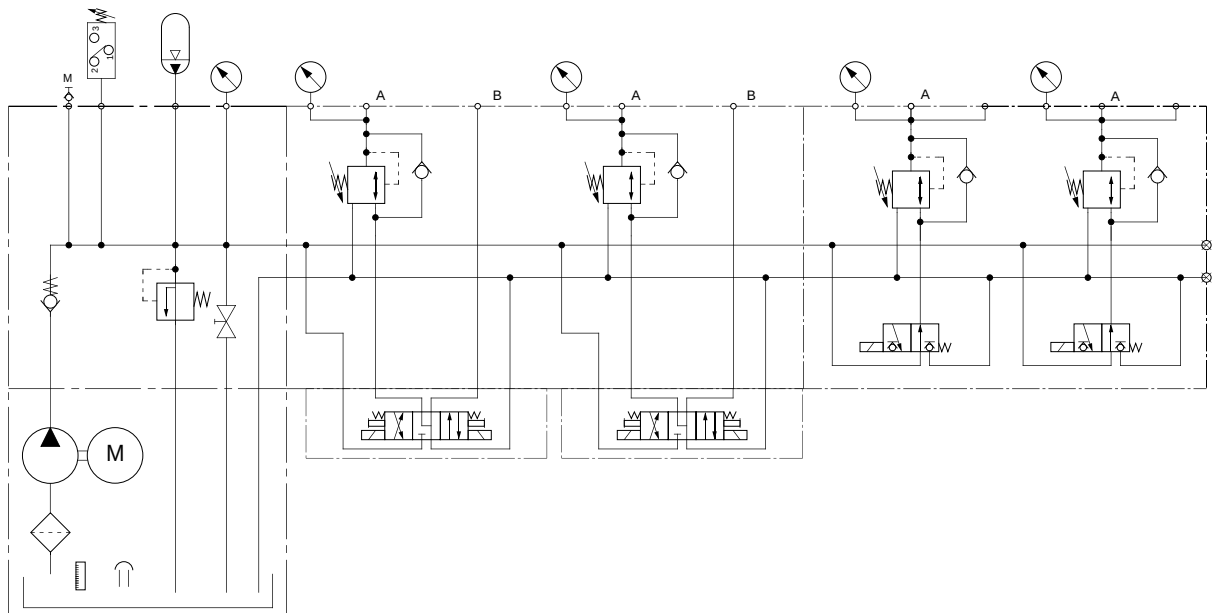
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Date: 10.10.2007

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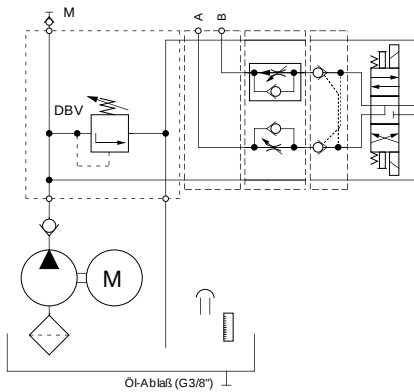


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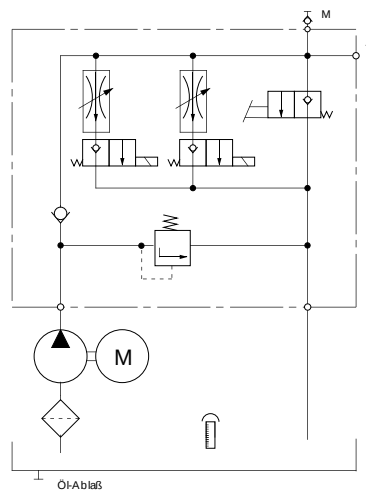
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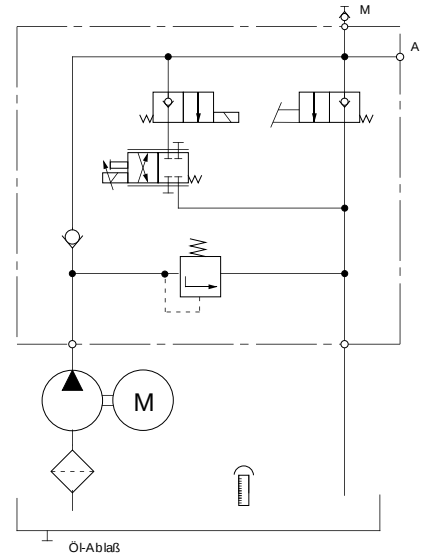
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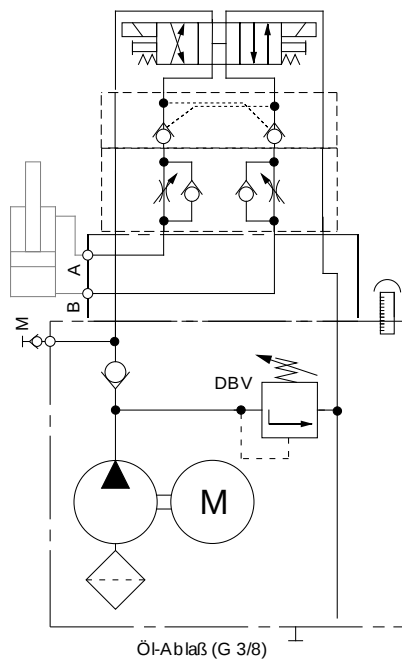
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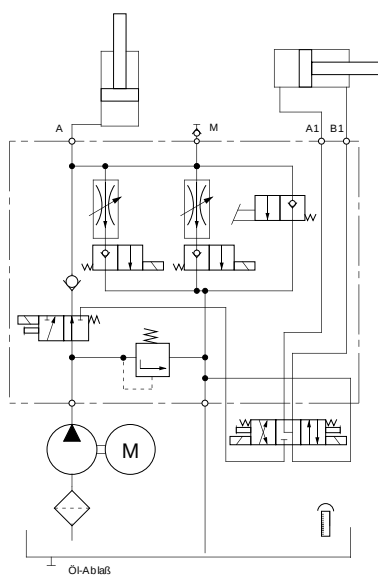
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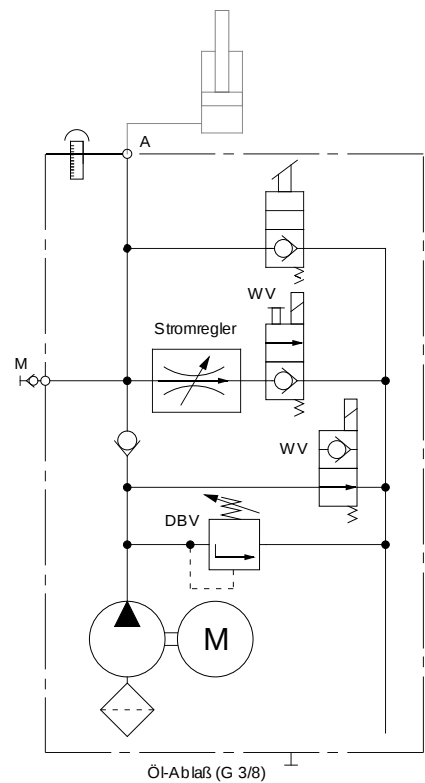
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Circuit Code: BE

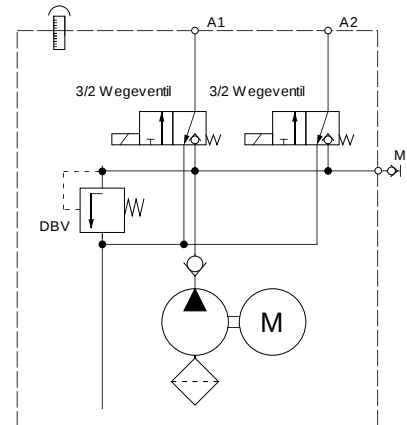
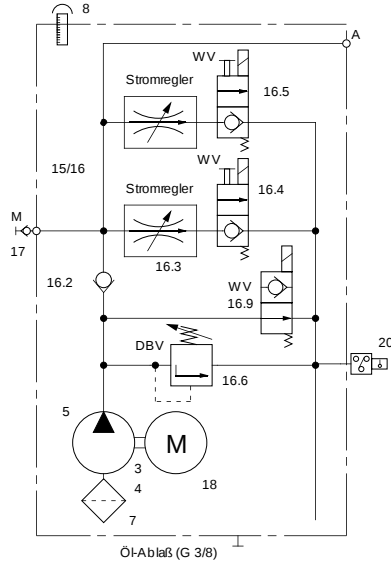


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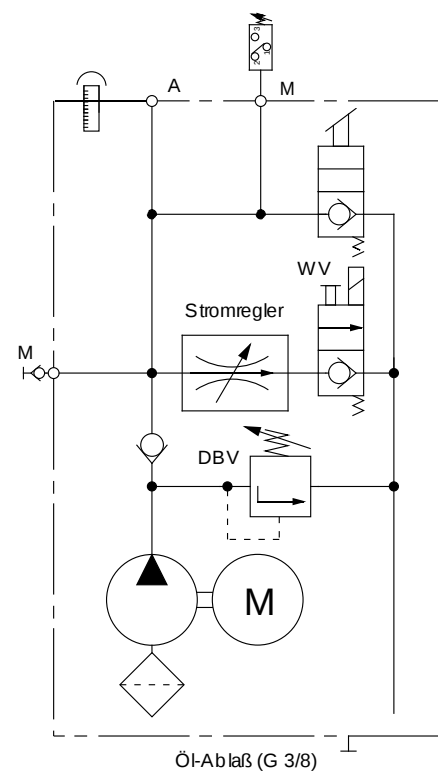


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Circuit Code: BL

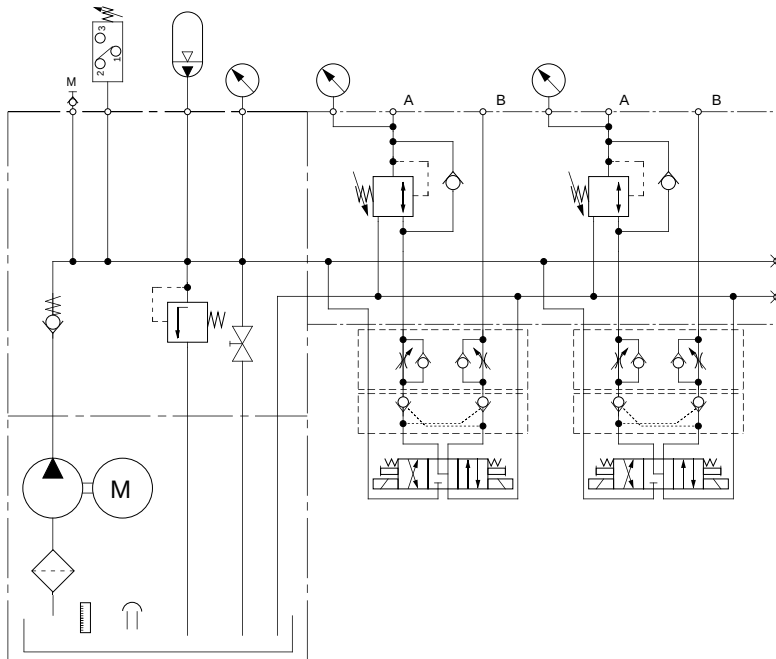


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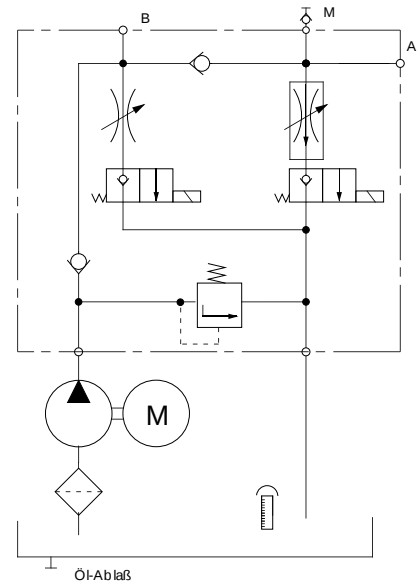
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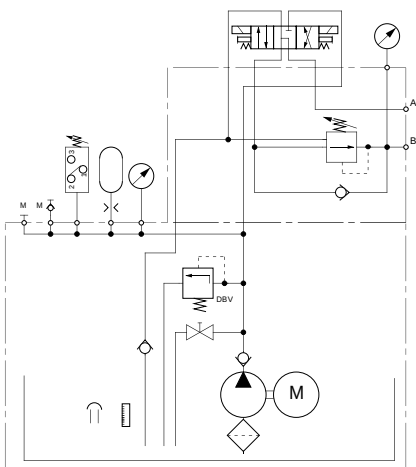
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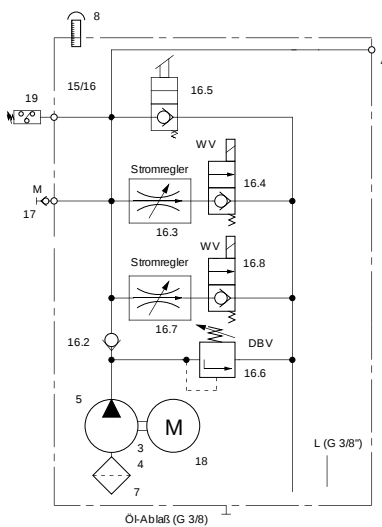
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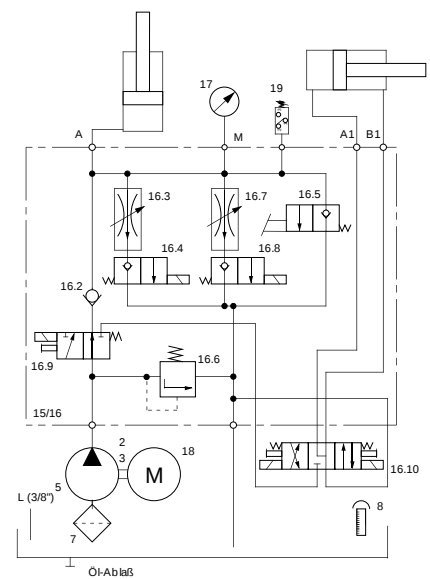
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Circuit Code: BO



Circuit Code: BP

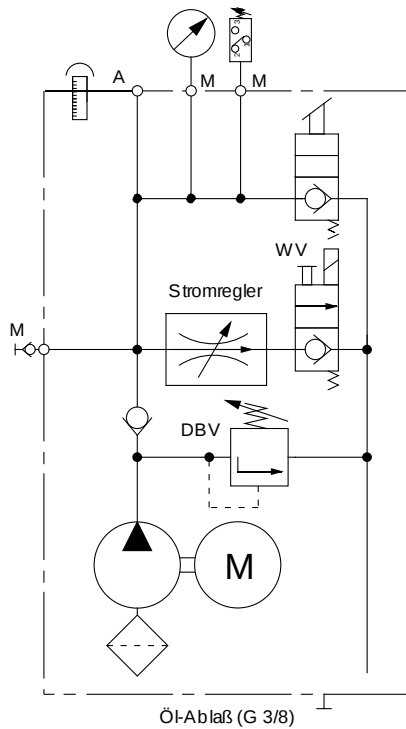


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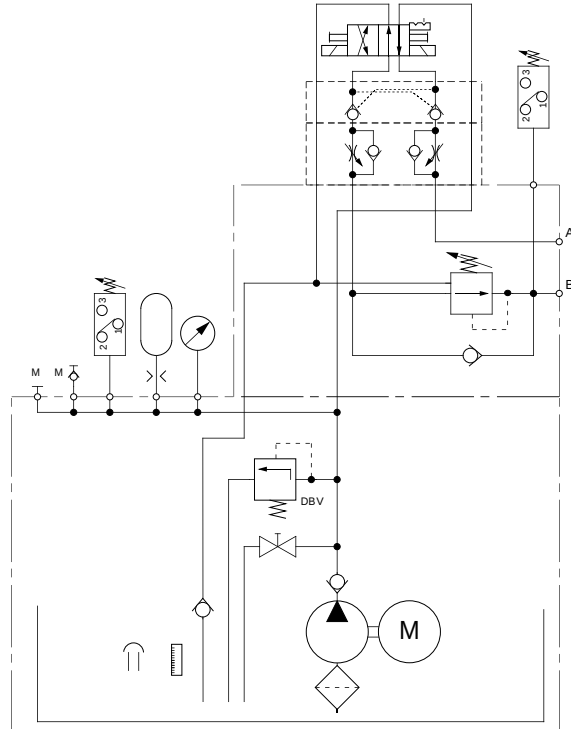
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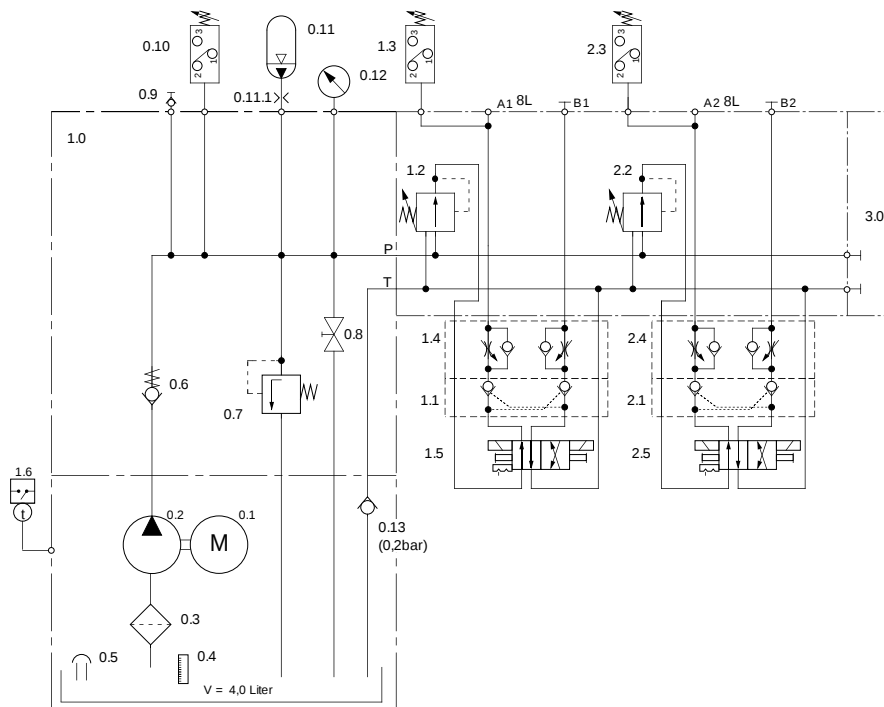
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Circuit Code: BR



Circuit Code: BS

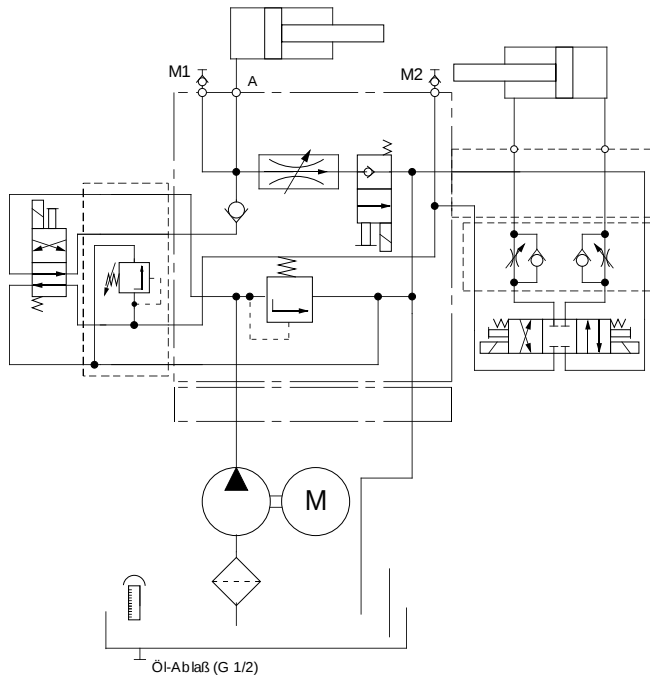


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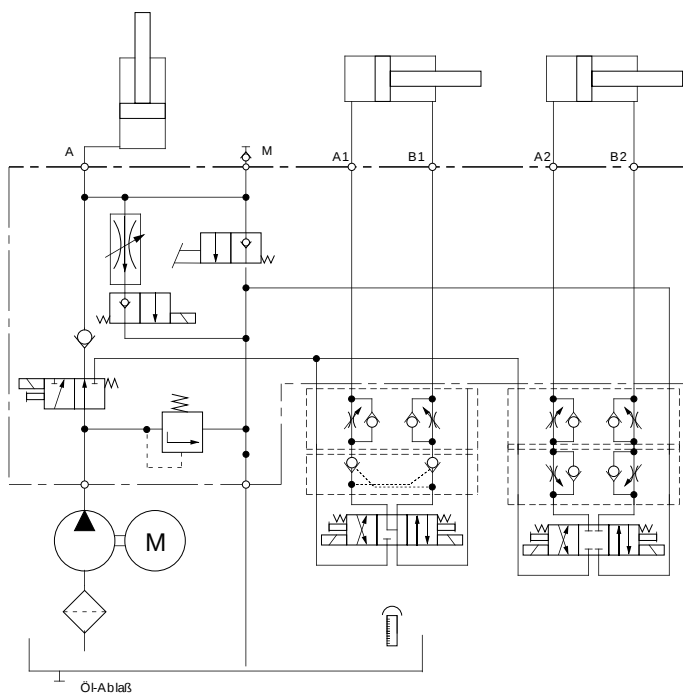
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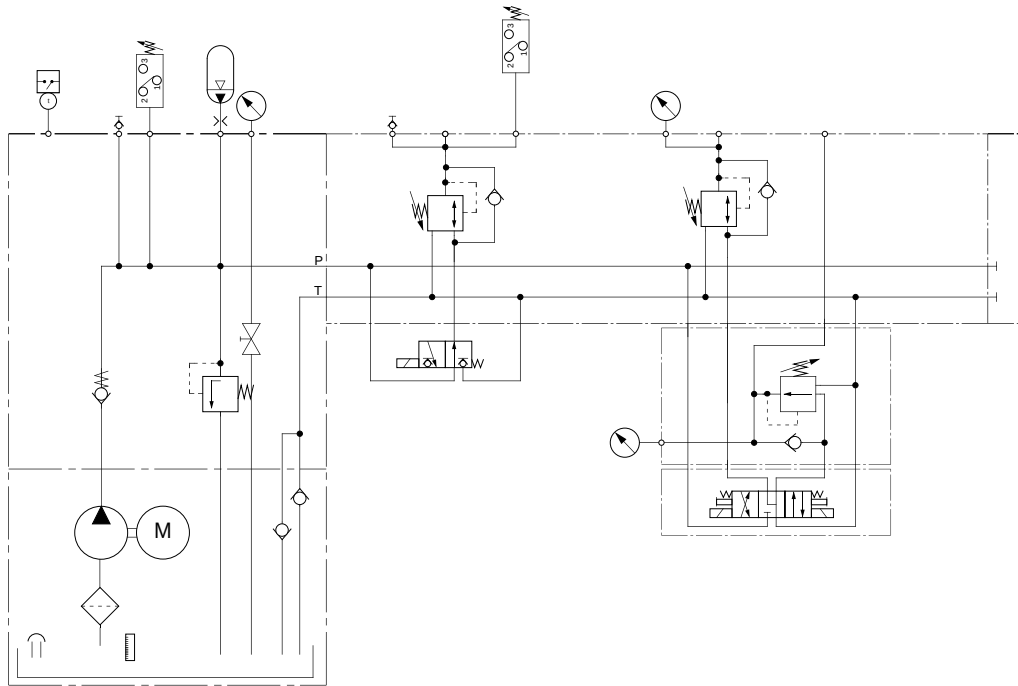


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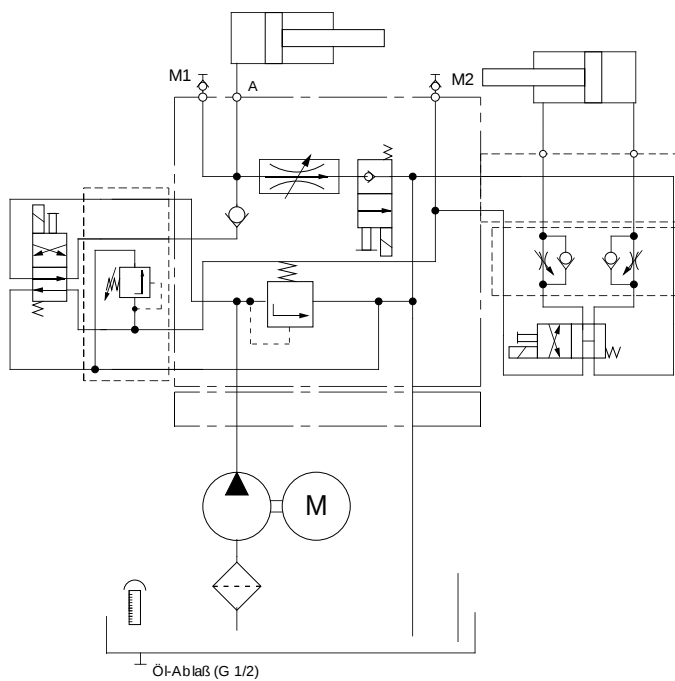
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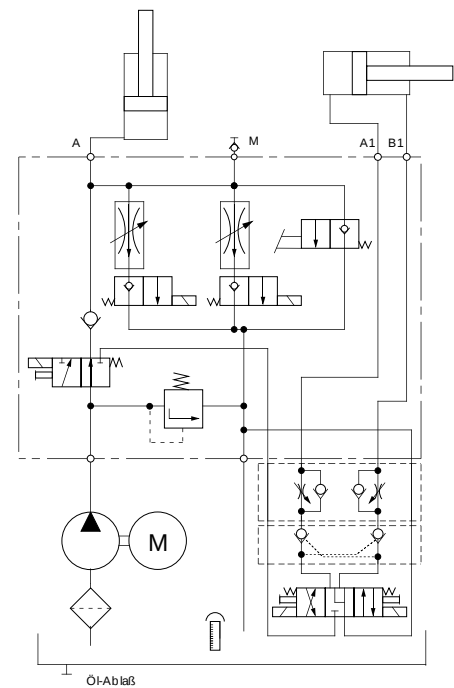


Circuit Code: BW



Öl-Ablauf (G 1/2)

Circuit Code: BX



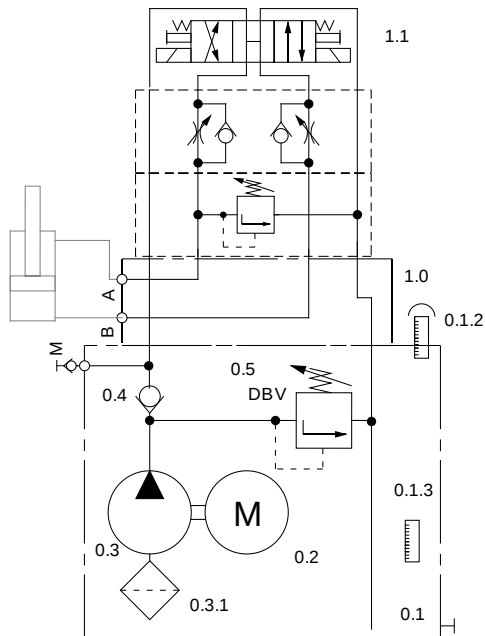
Öl-Ablauf

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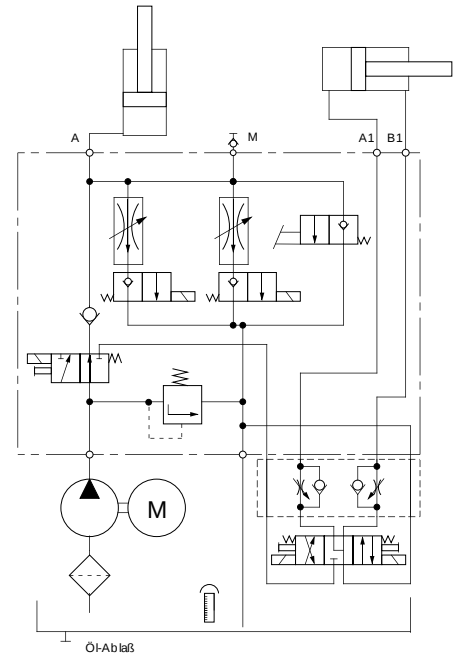
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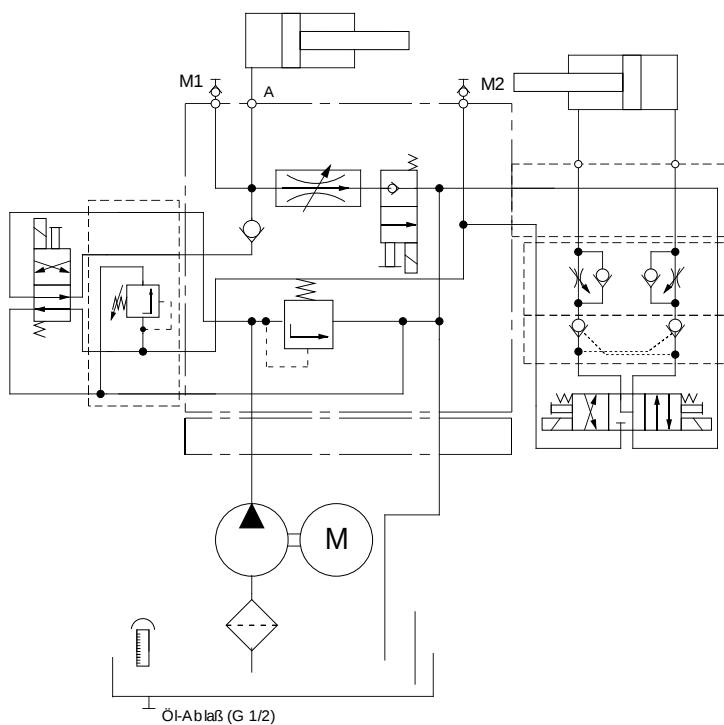
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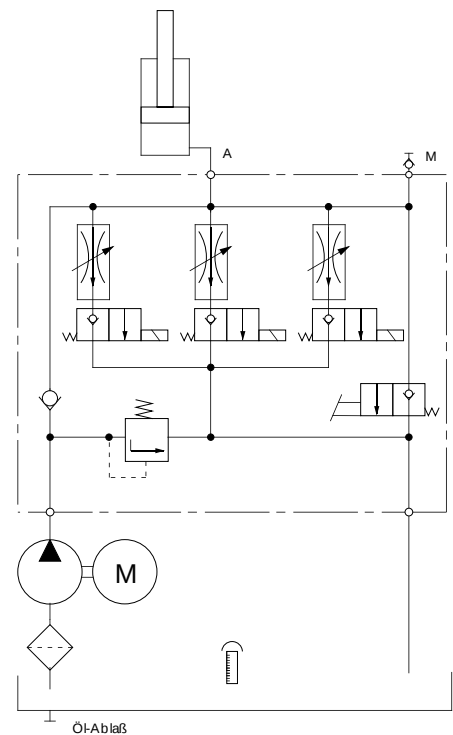
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Circuit Code: CA



Circuit Code: CB

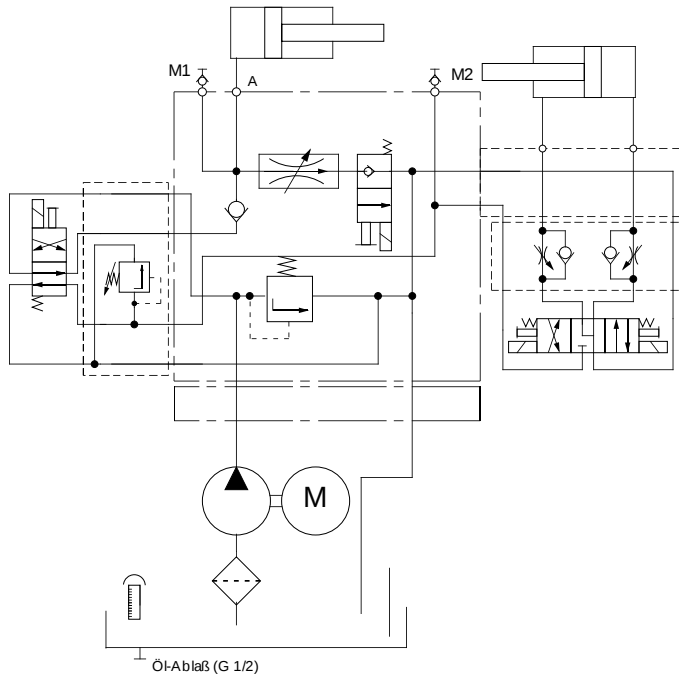


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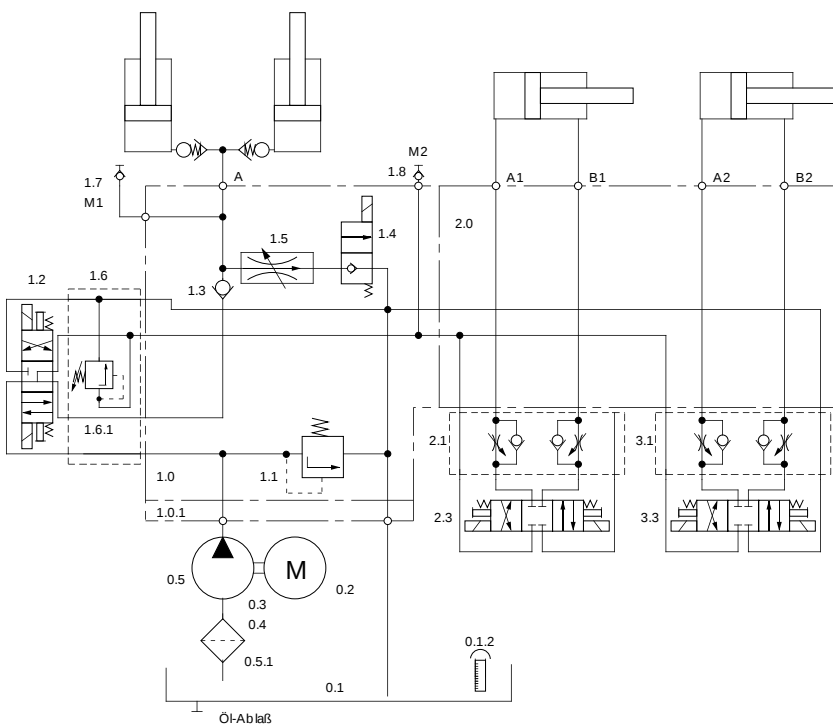
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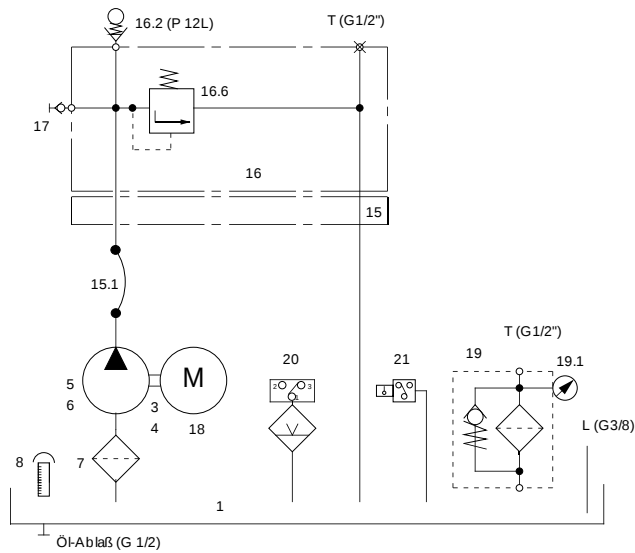
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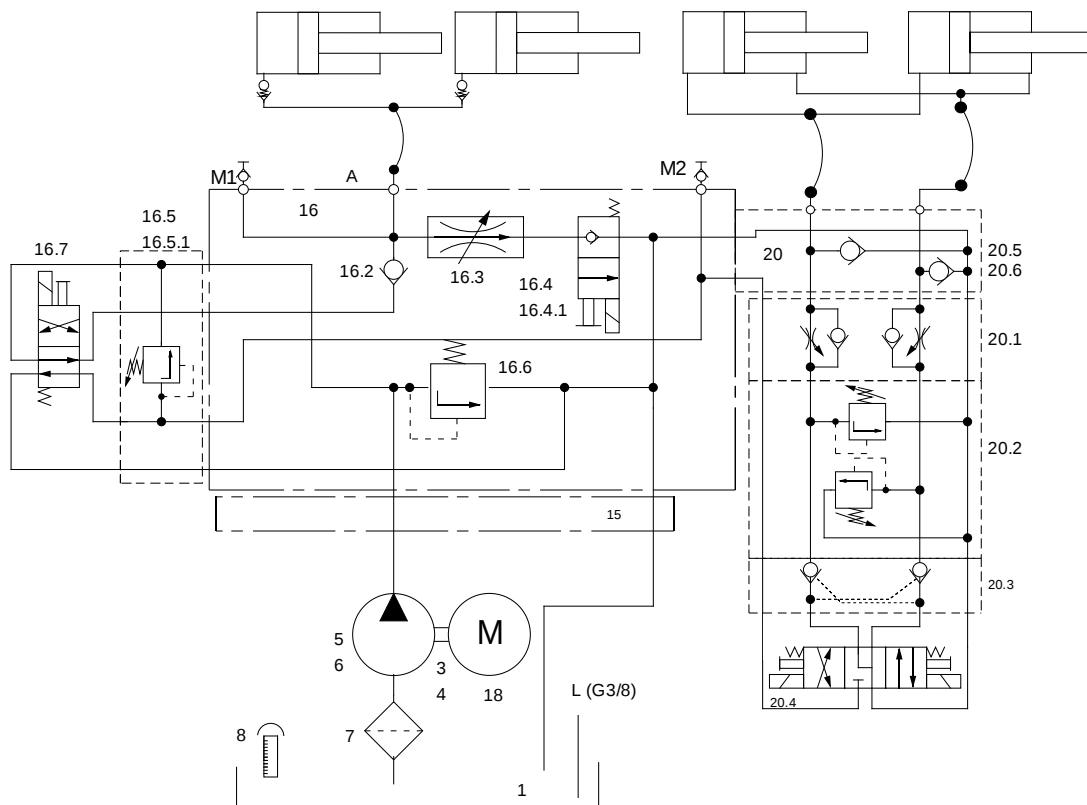
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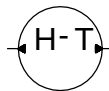
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Circuit Code: CE



Circuit Code: CF





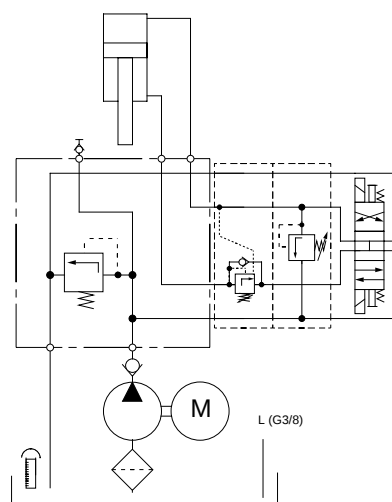
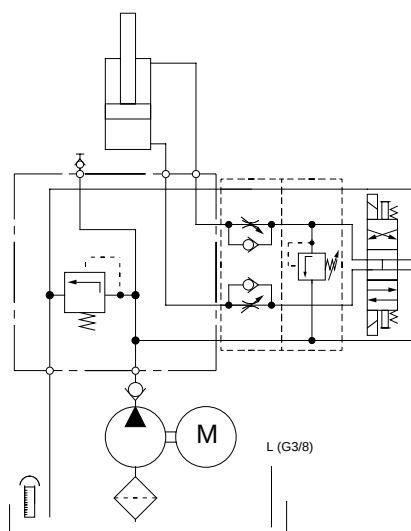
Document title:	Datasheet BF 10
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Created by -

Date: 10.10.2007

Circuit Code: CG

Circuit Code: CH



Description

Hydraulic-powerunit with increased power density. Electric drive and pump are inserted in the oil reservoir; the multi-functional base plate integrates the control elements and components for filling, level control and electricity supply.

NEW: E-Motor-Connection by plug !

Application

Thanks to its compact design, it suits perfectly for the use with lifting tables, stroke roofs, supports and test control units in the field of shop technology. It can be used as clamping pressure supply in machine tools as well. Because of the special design, these units suit for intermittent operation, i.e. continuous operation is only possible with reduced power. Unless nothing else is indicated, the power rating for the operating mode S3-10% is valid. Installation position: horizontal or vertical



Technical data

Operating voltage: 400 V, 50 Hz, 3 ~
 Rated current: 2,1A
 Line pressure: up to 230 bar
 Further data according to the type code

Advantages

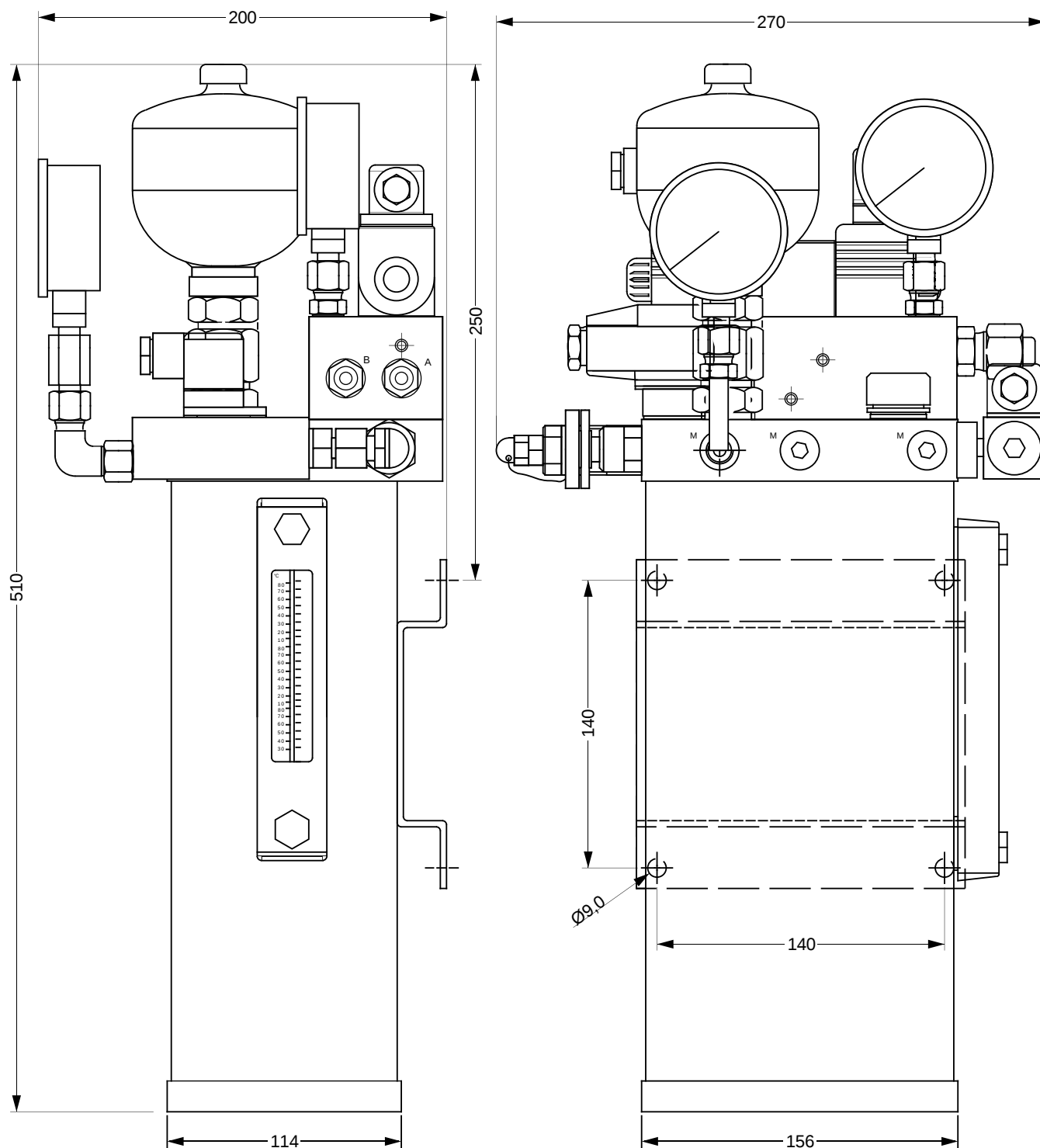
- + Small dimensions (p.t.o.)
- + High power density
- + Easy installation
- + Favourable price due to serial production
- + Various types are available at short notice
- + Quick interchange thanks to the electric plug connection
- + Increased quality

Type code:

ZPU20 XX XX XXXX XX X X

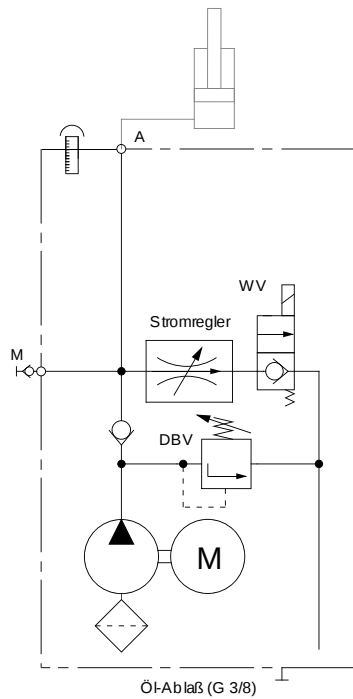
Reservoir useful volume		Pump capacity / max. operating Pressure		Control voltage		Hydraulic circuit	Installation position		Issue
18	1,8 L	02	2,2 L/min 200 bar	230A	230V AC	see page 3 - 17	V	Vertical	
22	2,2 L	03	3,4 L/min 134 bar	024A	24V AC		H	Horizontal	
27	2,7 L	04	4,5 L/min 100 bar	024D	24V DC				
		06	5,6 L/min 80 bar						
		07	7,0 L/min 64 bar						
		09	9,0 L/min 50 bar						
		10	10,6 L/min 33 bar						

Type of Example: ZPU20 22 04 230A AJ V 1

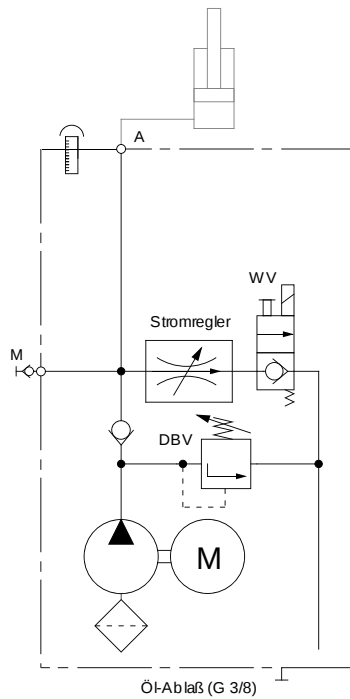


The dimensions shown refer to type: ZPU20 22 04 024D AW V 1

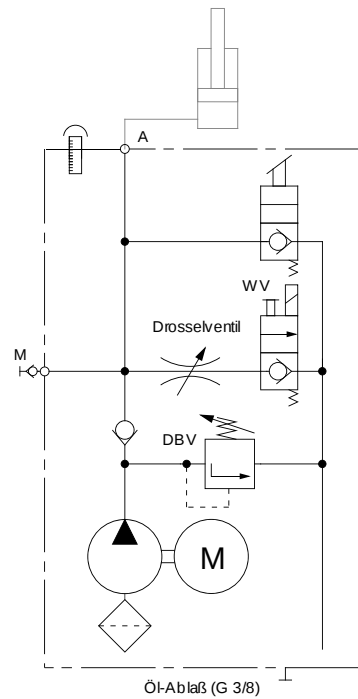
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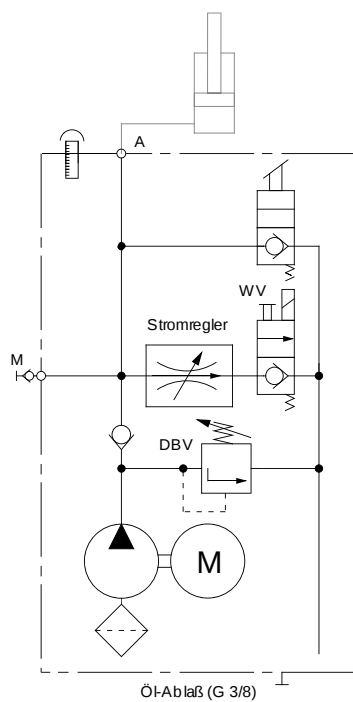
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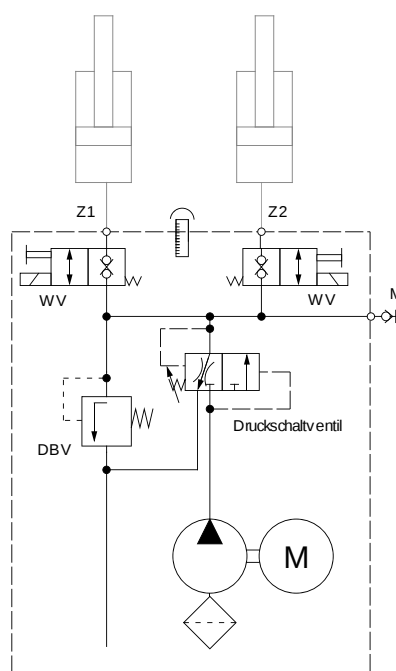
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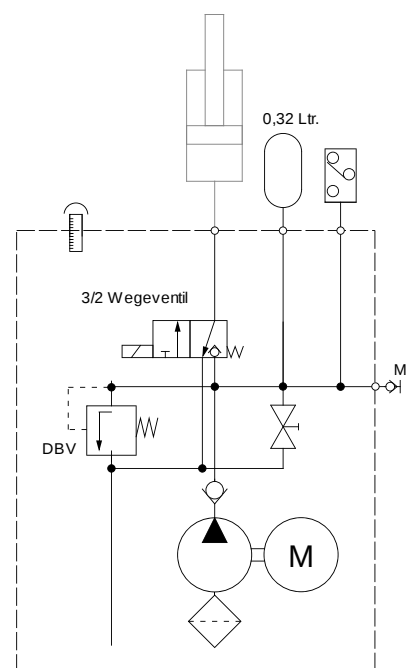
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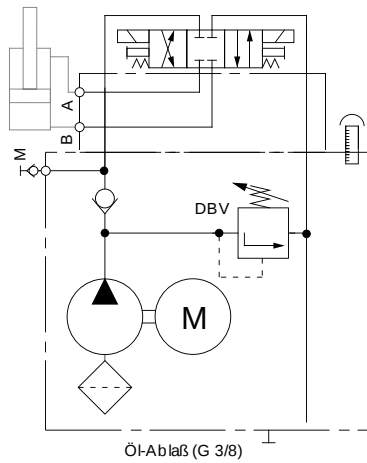
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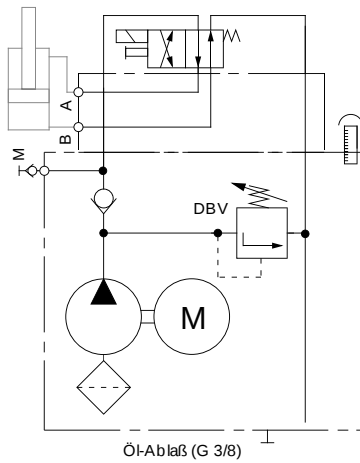
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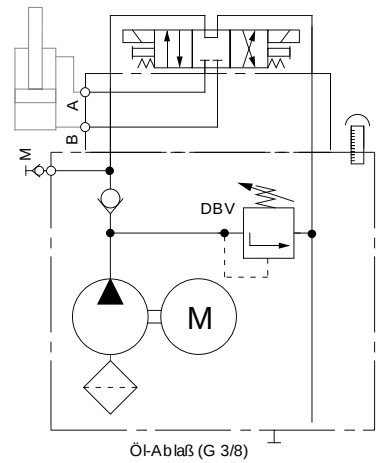
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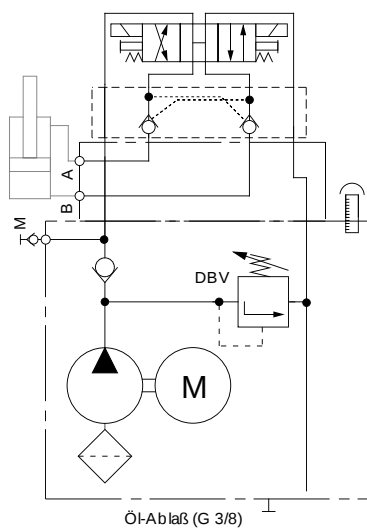
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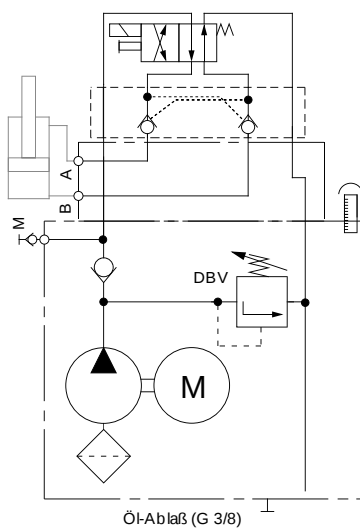
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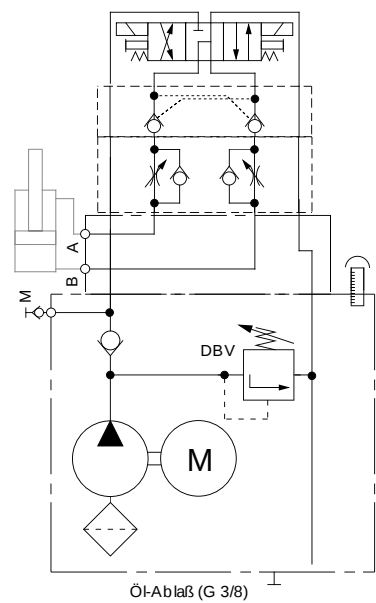
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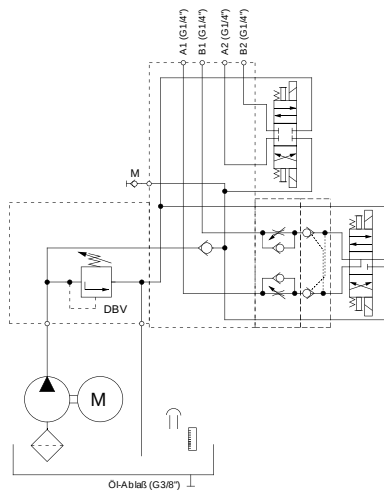
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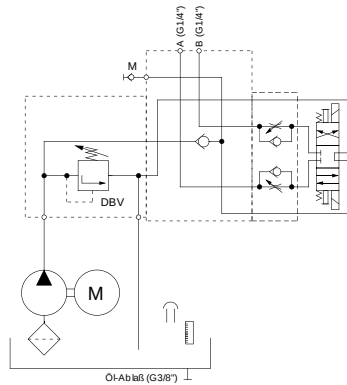
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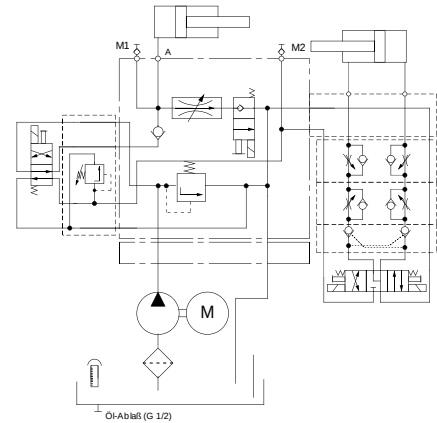
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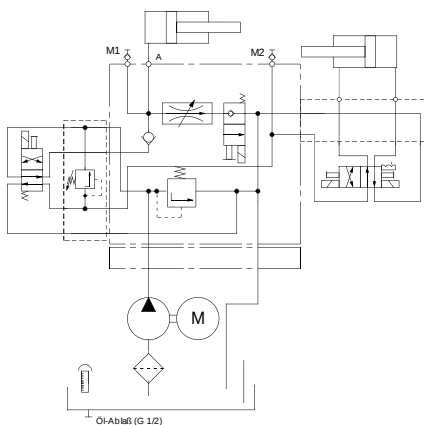
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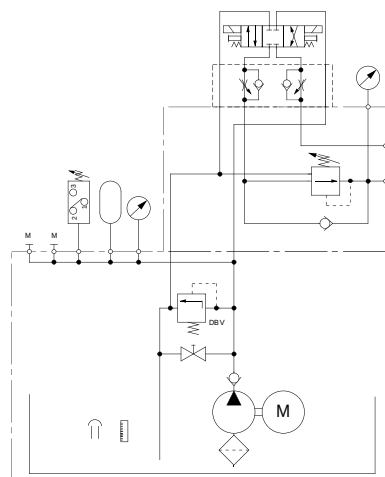
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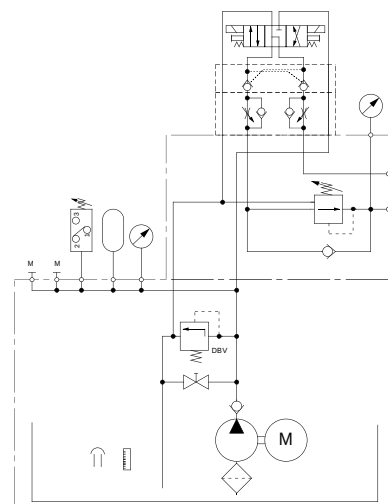
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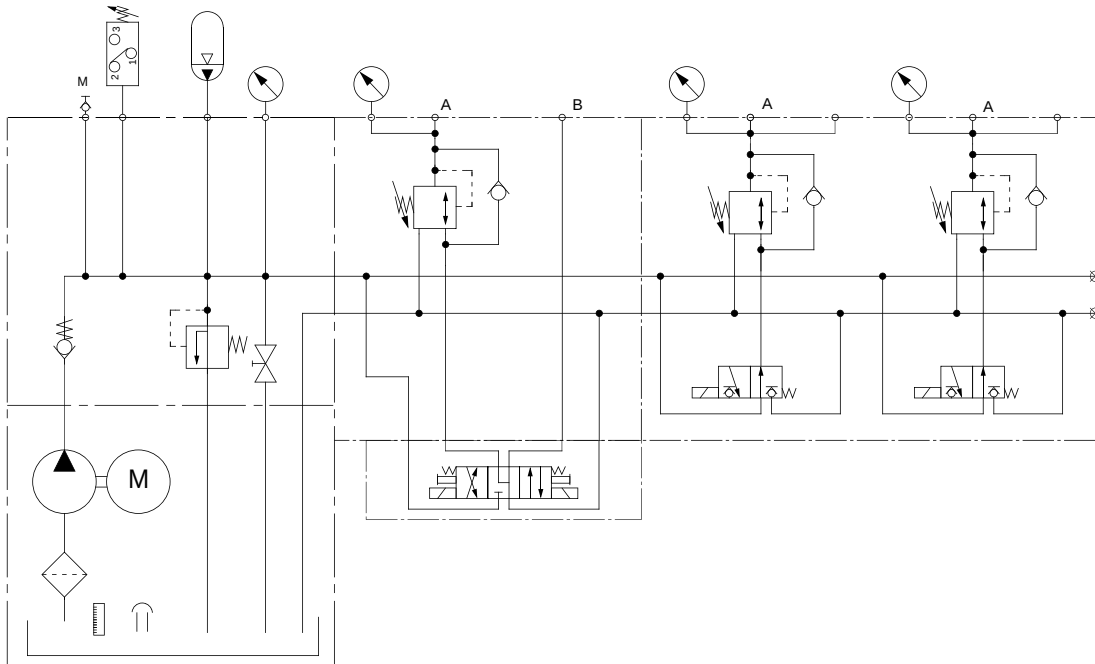
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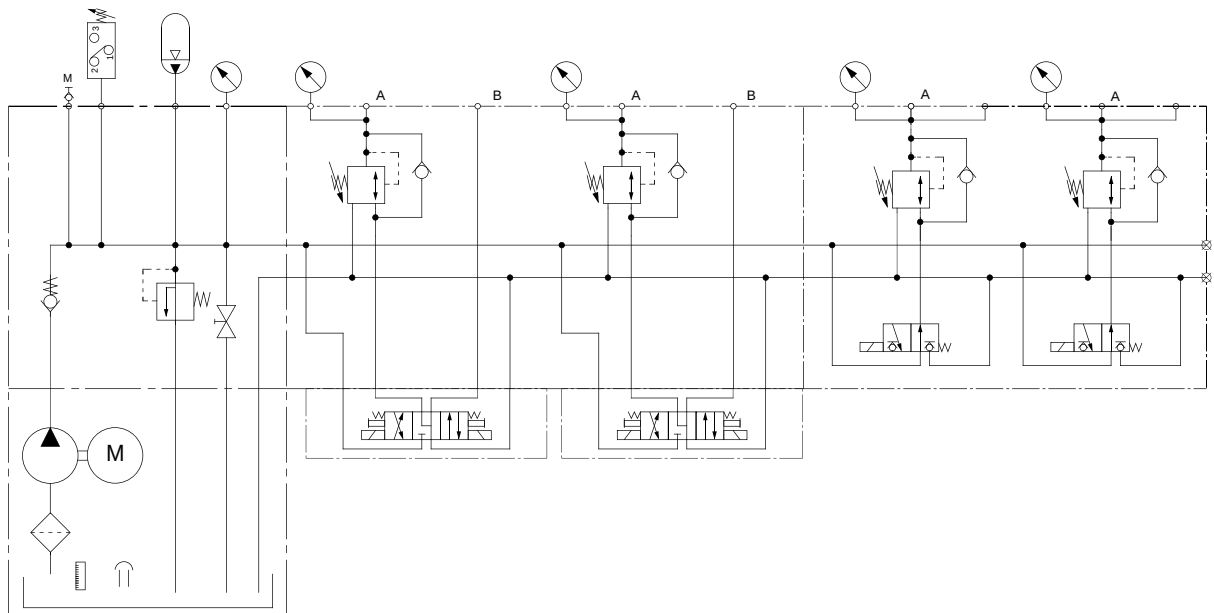
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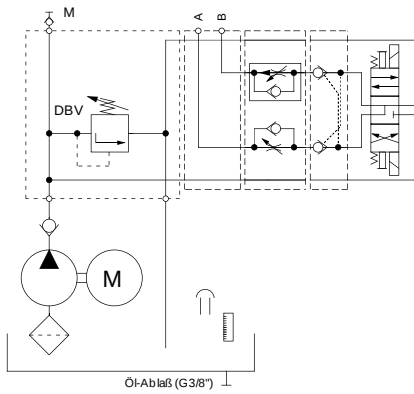
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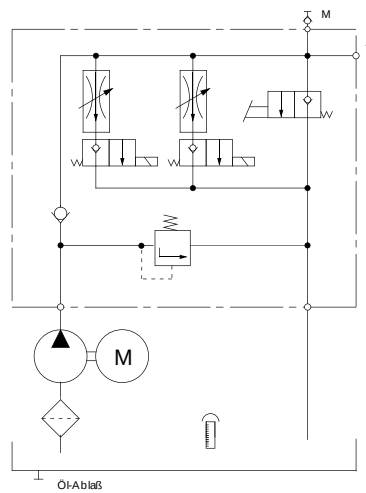
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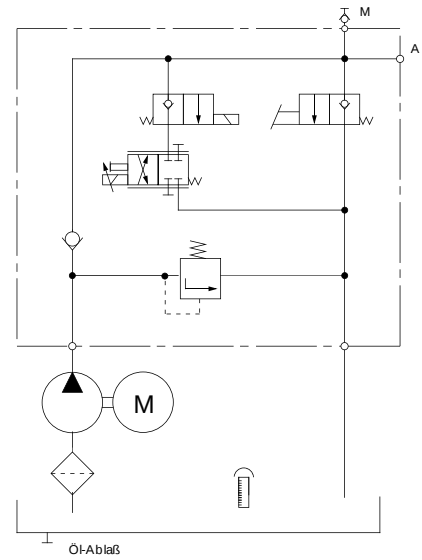
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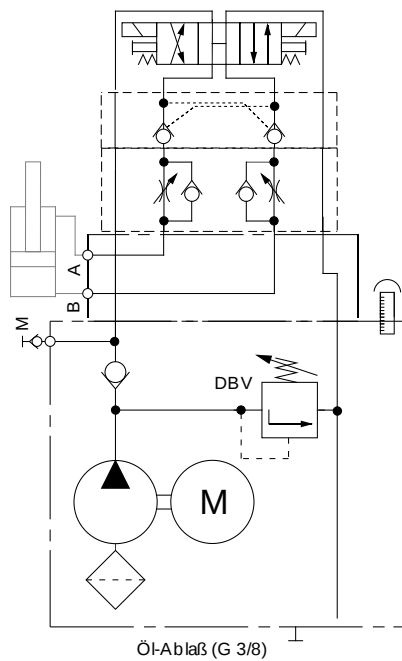
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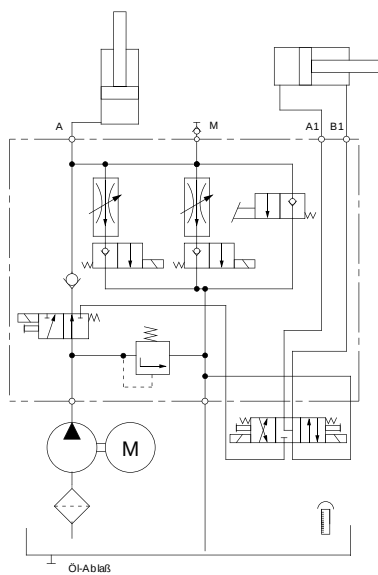
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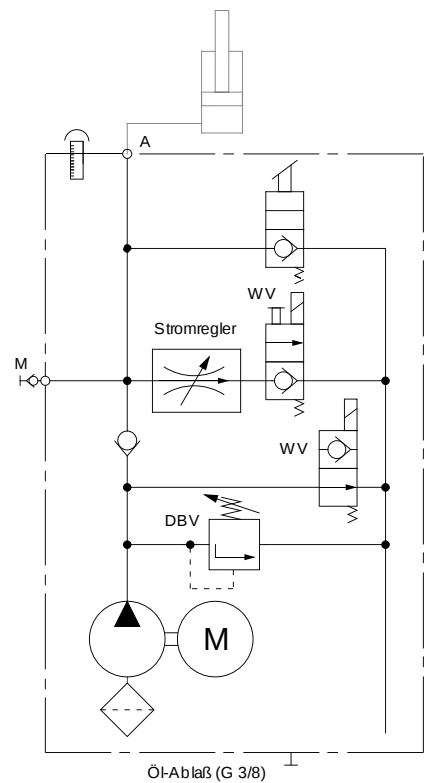
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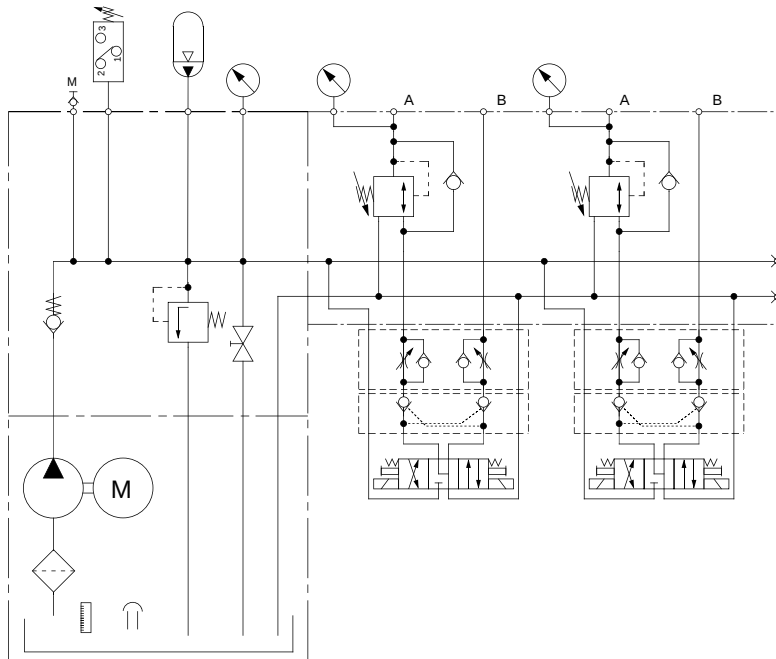
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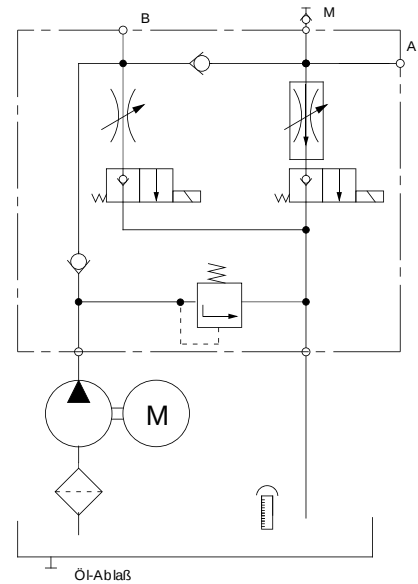
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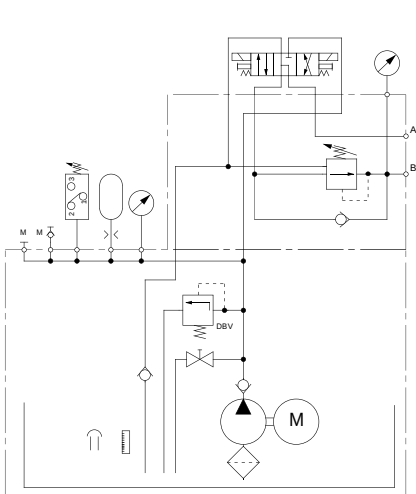
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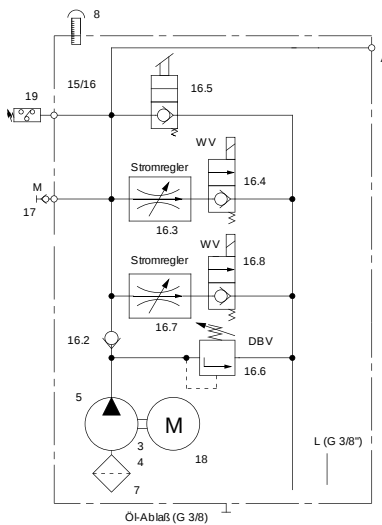
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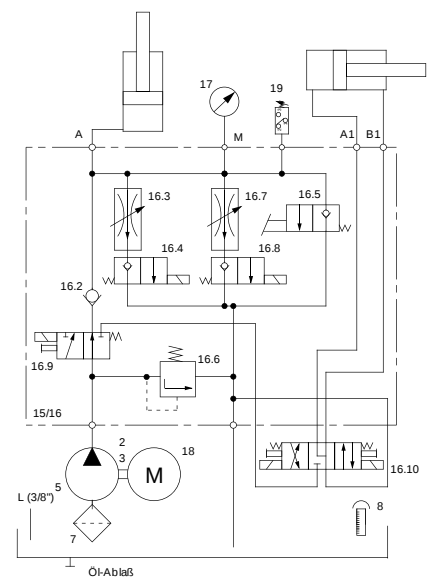
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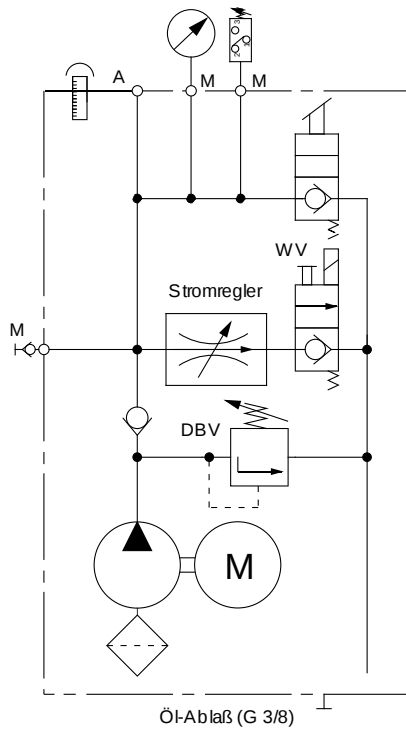
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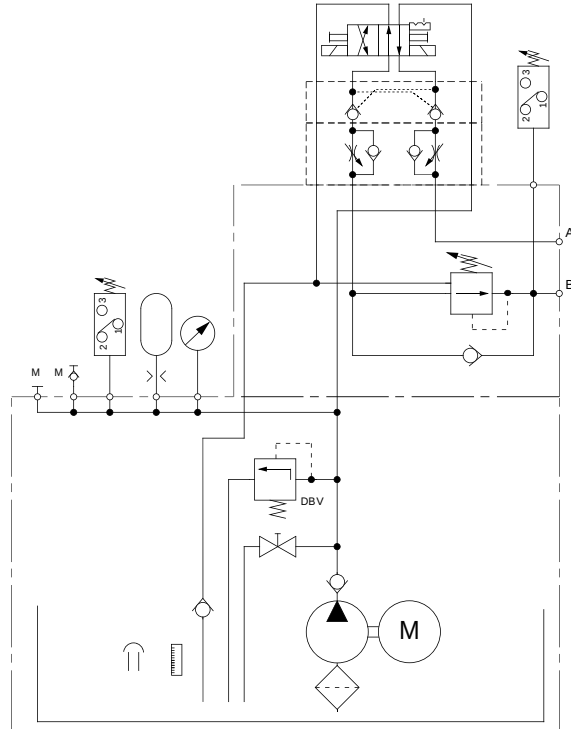
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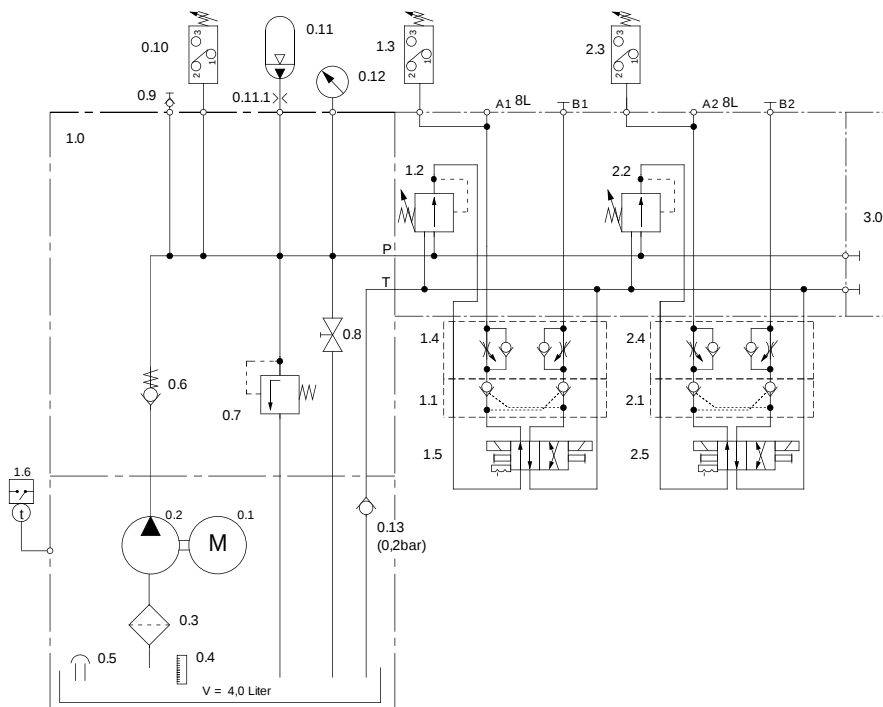
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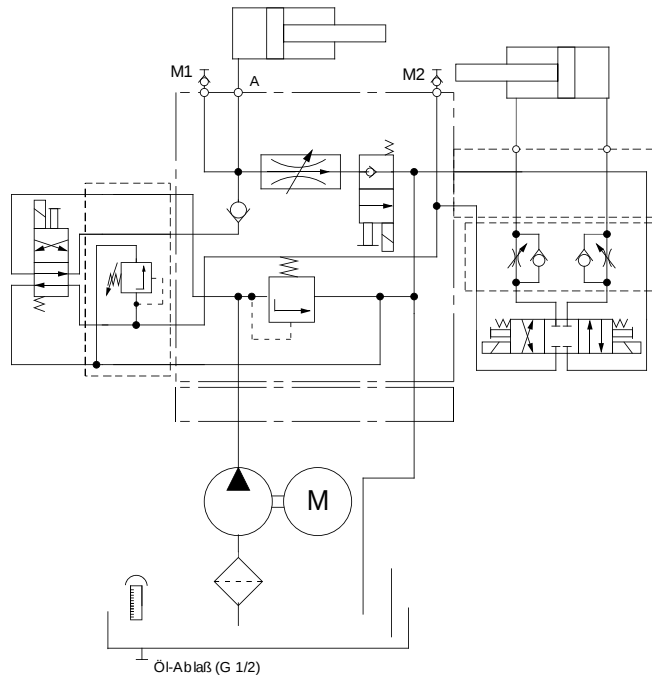
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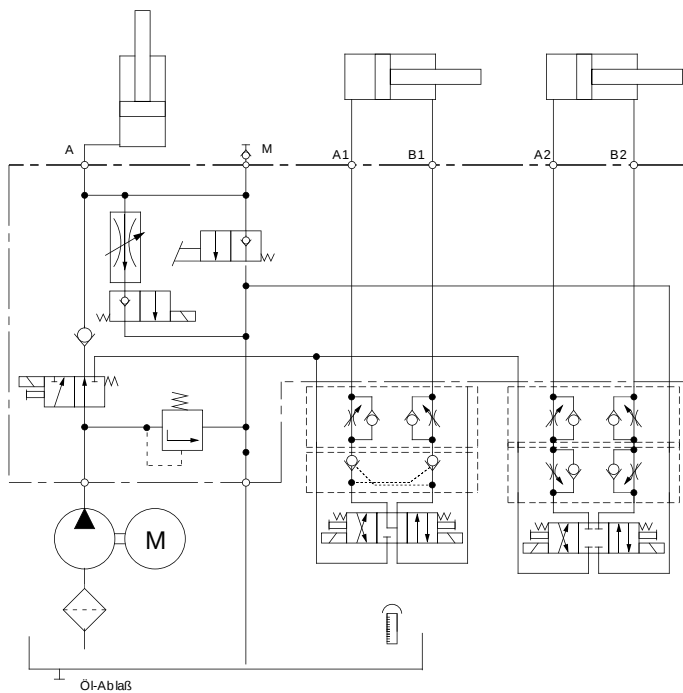
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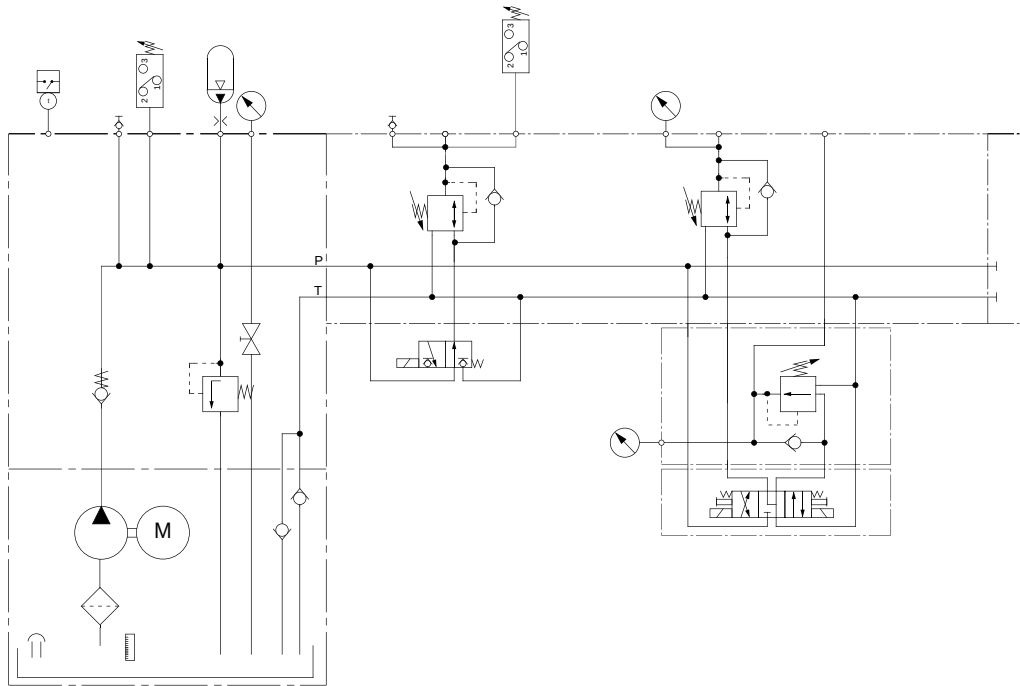
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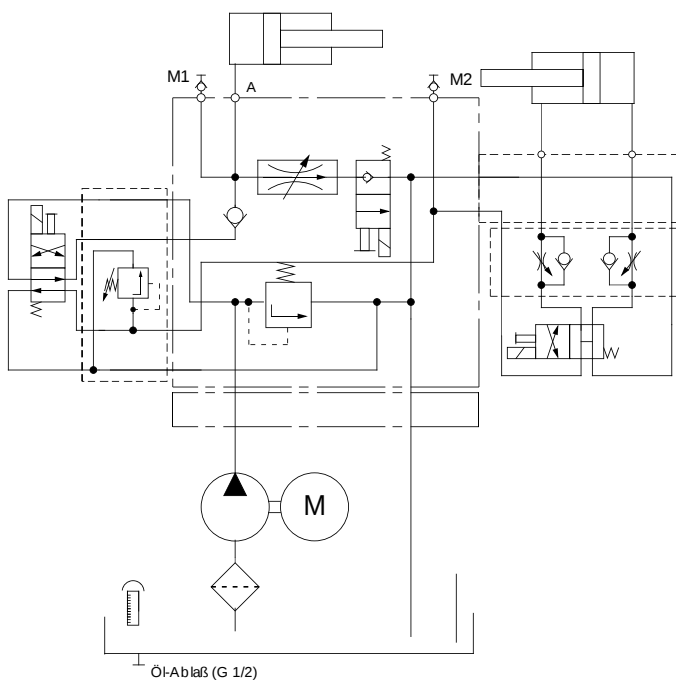
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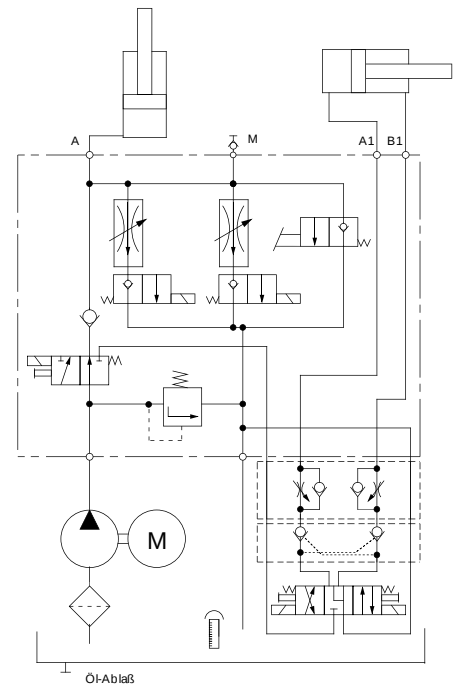
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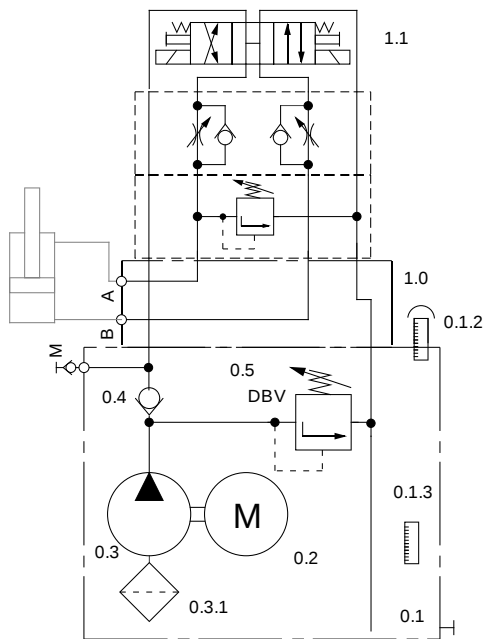
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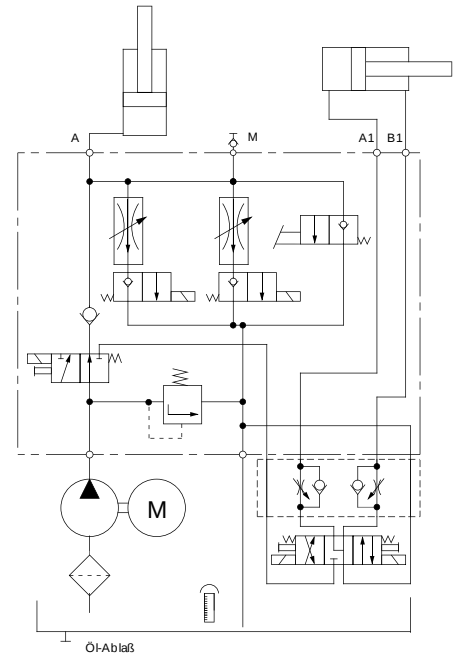
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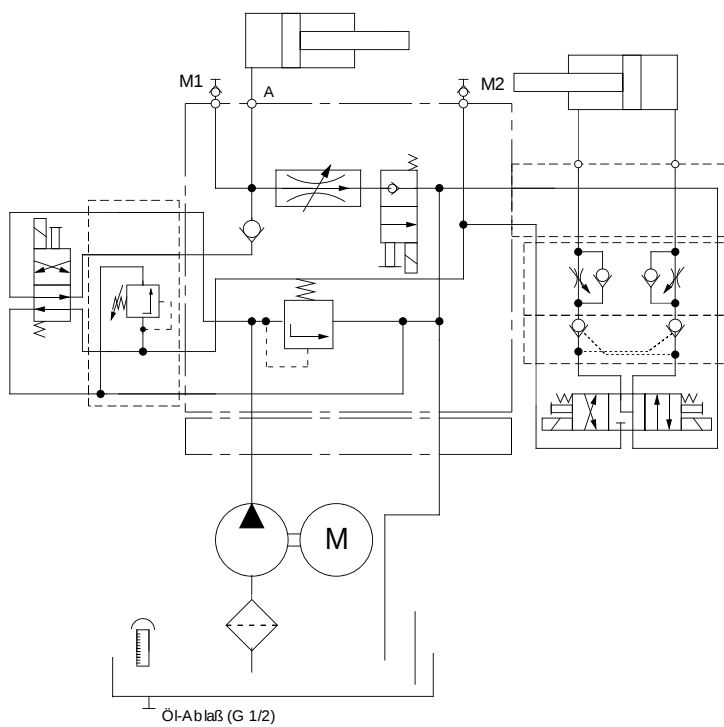
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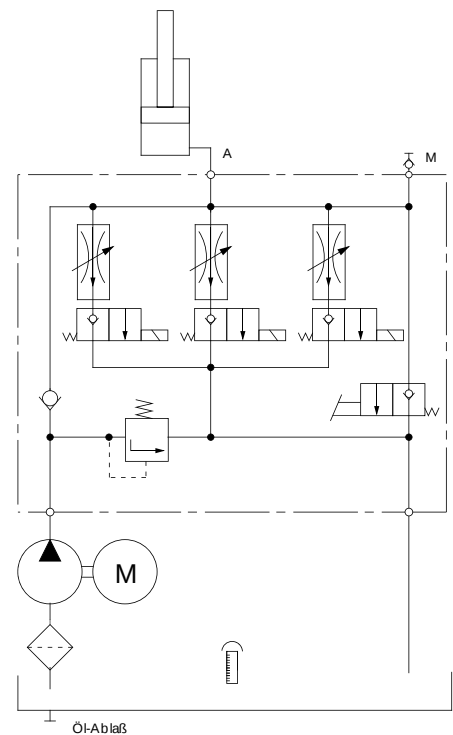
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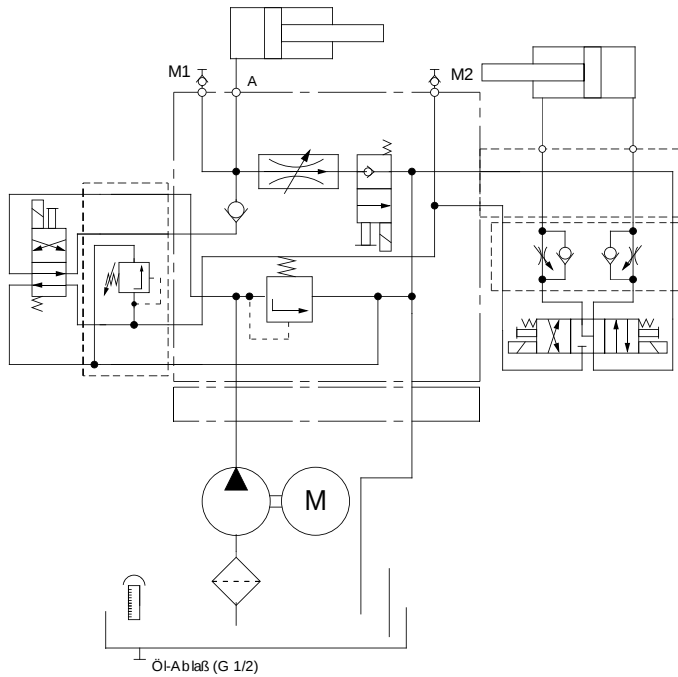
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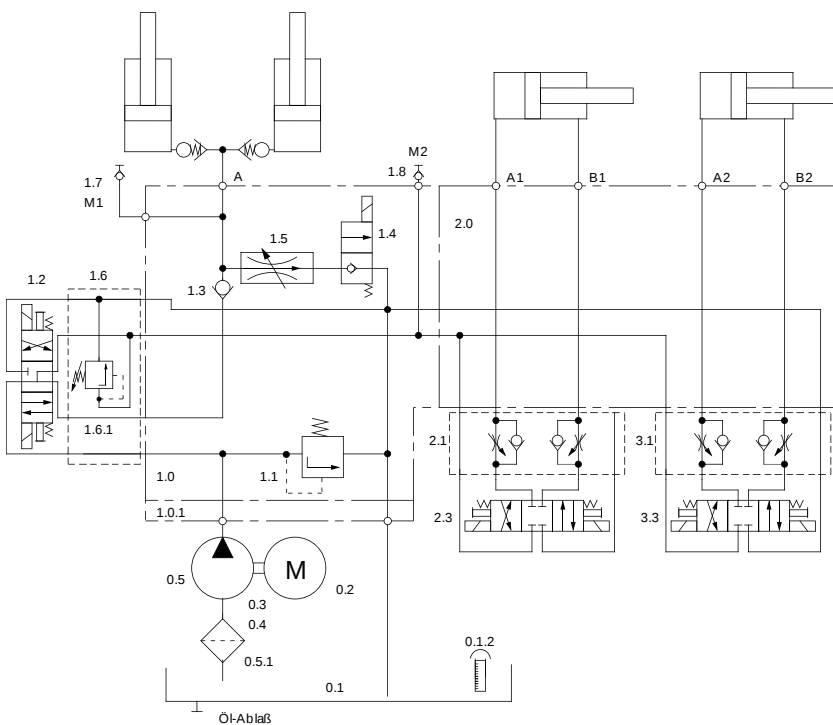
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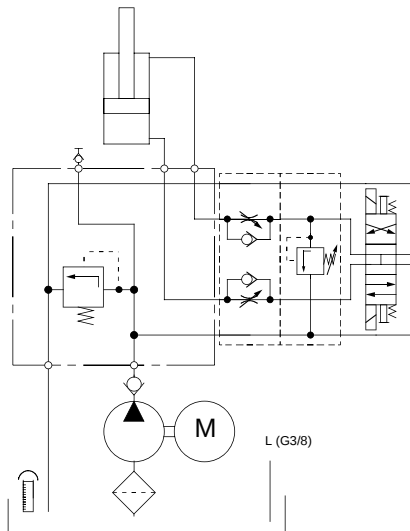
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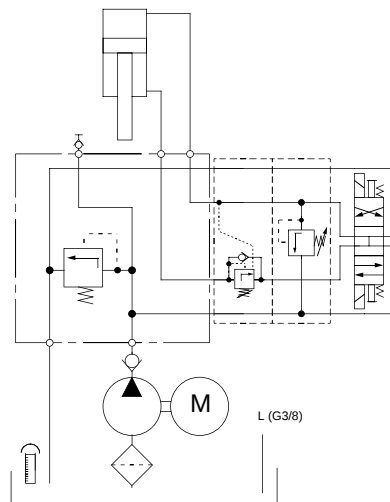
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Circuit Code: CG



Circuit Code: CH

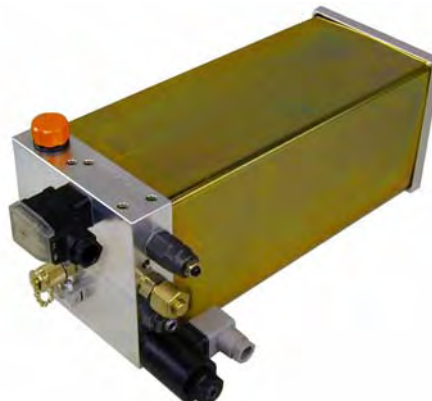


Document title: Datasheet ZPU 30
Created by: R. Otto
Date: 8.5.2003

Description

Hydraulic-powerunit with increased power density. Electric drive and pump are inserted in the oil reservoir; the multi-functional base plate integrates the control elements and components for filling, level control and electricity supply.

NEW: E-Motor-Connection by plug !



Application

Thanks to its compact design, it suits perfectly for the use with lifting tables, car lifts, stroke roofs, hydraulic support equipment or similar applications. It can be used as clamping pressure supply in machine tools as well.

Because of the special design, these units suit for intermittent operation, i.e. continuous operation is only possible with reduced power. Unless nothing else is indicated, the power rating for the operating mode S3-10% is valid

Installation position: horizontal or vertical

Technical data

Operating voltage: 400 V, 50 Hz, 3 ~

Rated current: 6,8A

Line pressure: up to 500 bar

Further data according to the type code

Advantages

- + Small dimensions (p.t.o.)
- + High power density
- + Easy installation
- + Favourable price due to serial production
- + Various types are available at short notice
- + Quick interchange thanks to the electric plug connection
- + Increased quality

Type code:

ZPU30 XX XX XXXX XX X X

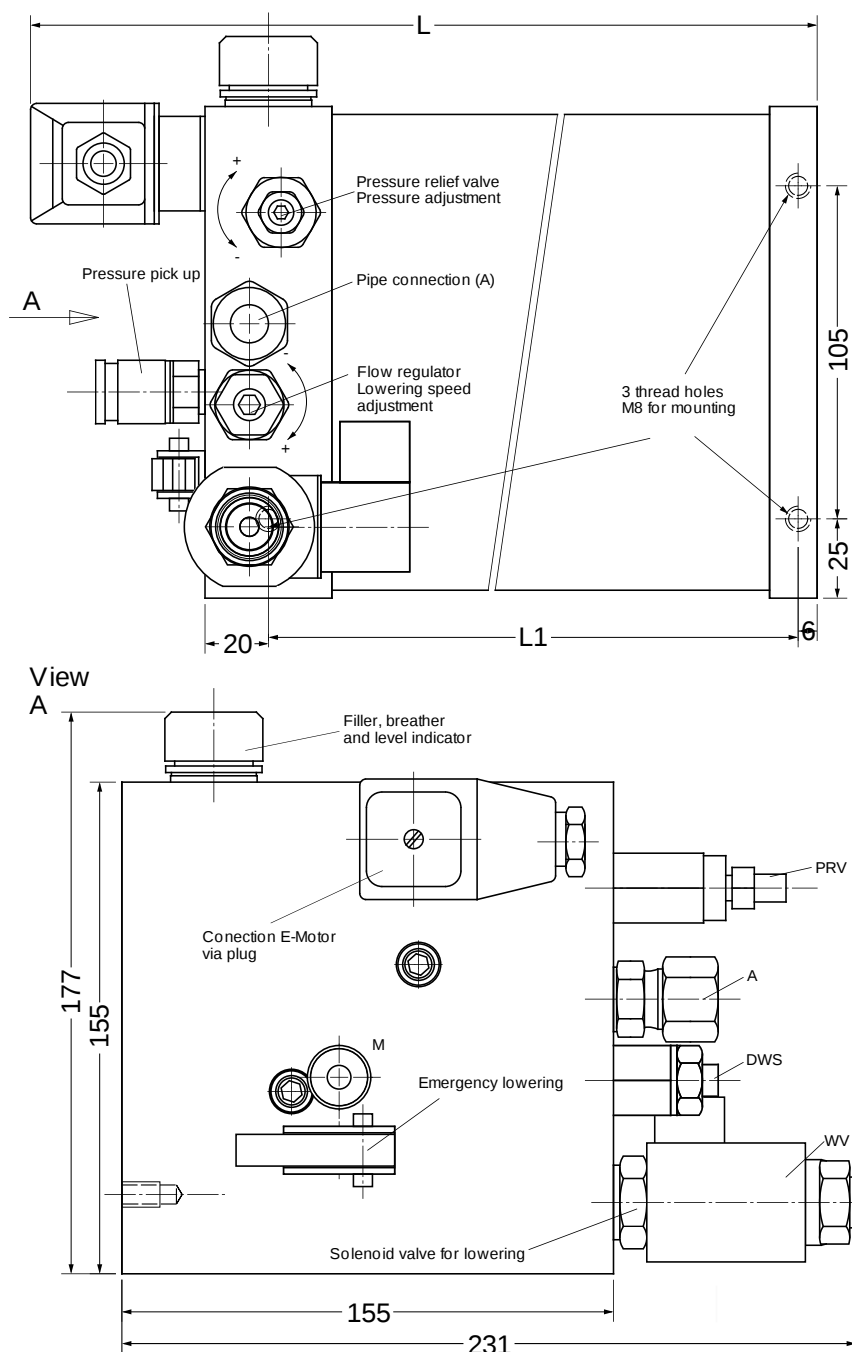
Reservoir useful volume		Pump capacity / max. operating Pressure		Control voltage		Hydraulic circuit	Installation position		Issue
25	2,5 L	02	2,2 L/min 230 bar	230A	230V AC	see page 3 - 6	V	Vertical	
45	4,5 L	03	3,4 L/min 230 bar	024A	24V AC		H	Horizontal	
65	6,5 L	04	4,5 L/min 230 bar	024D	24V DC				
85	8,5 L	06	5,6 L/min 230 bar						
		07	7,0 L/min 230 bar						
		09	9,0 L/min 200 bar						
		10	10,6 L/min 170 bar						

Type of Example: ZPU30 45 04 230A AJ H 1

Document title: Datasheet ZPU 30

Created by R. Otto

Date: 8.5.2003



The dimensions shown refer to type: ZPU30 3 04 230A AJ H 1

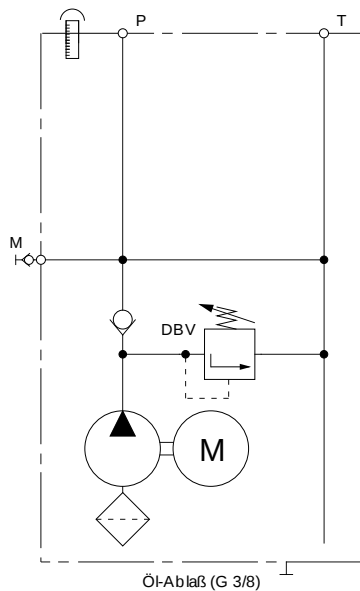
Dimensions			
Type	ZPU 30 3 ...	ZPU 30 5 ...	ZPU 30 7 ...
Reservoir capacity	3,5 Ltr	5,4 Ltr	7,6 Ltr
Useful volume	2,5 Ltr	4,5 Ltr	6,5 Ltr
Length overall L	441 mm	533 mm	638 mm
Length L1	360 mm	452 mm	557 mm

Document title: Datasheet ZPU 30

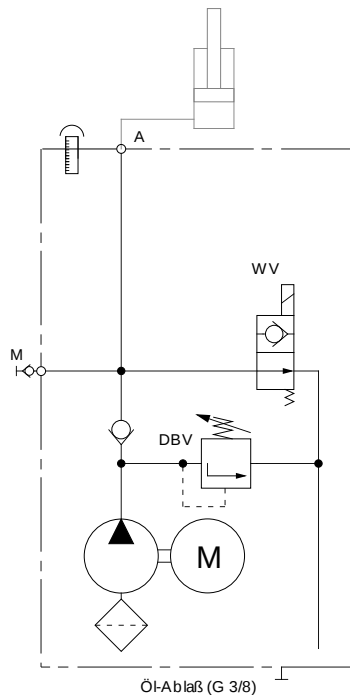
Created by R. Otto

Date: 8.5.2003

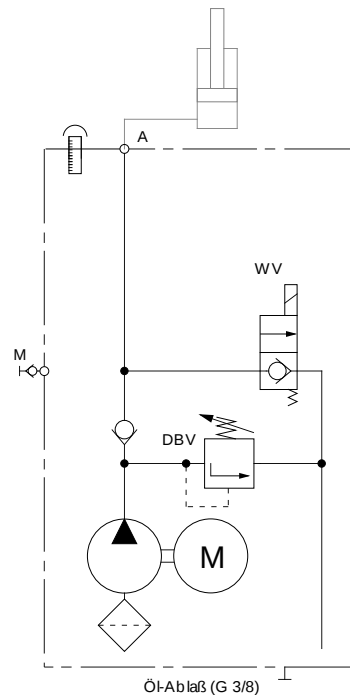
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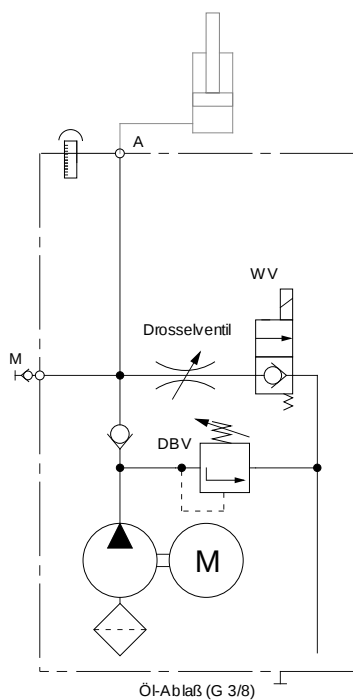
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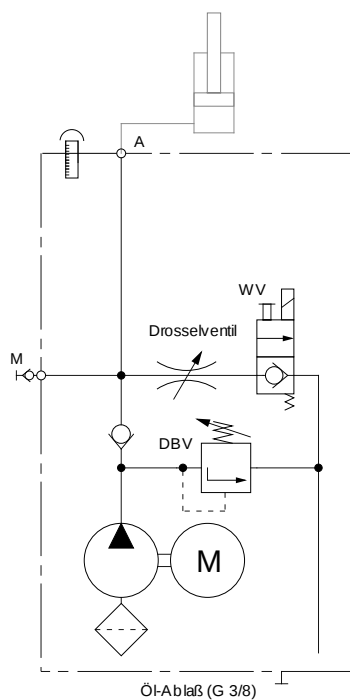
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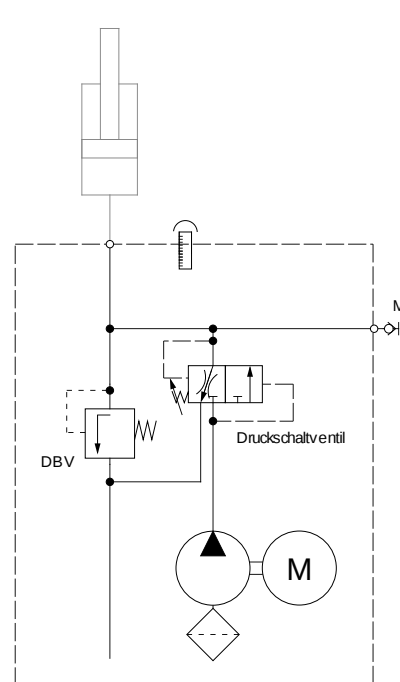
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Circuit Code: AE



Circuit Code: AF

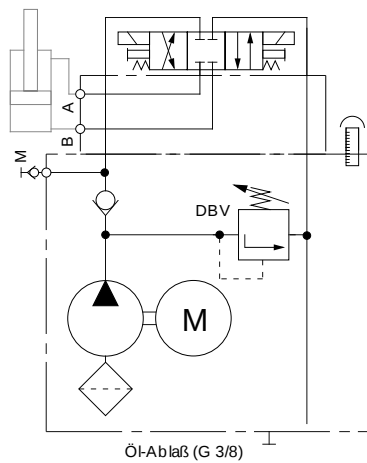


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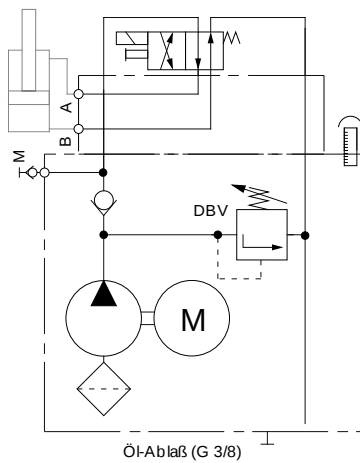
Created by R. Otto

Date: 8.5.2003

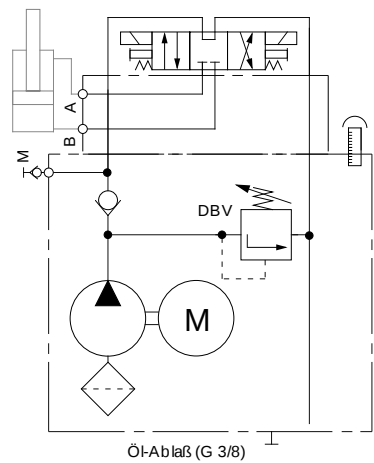
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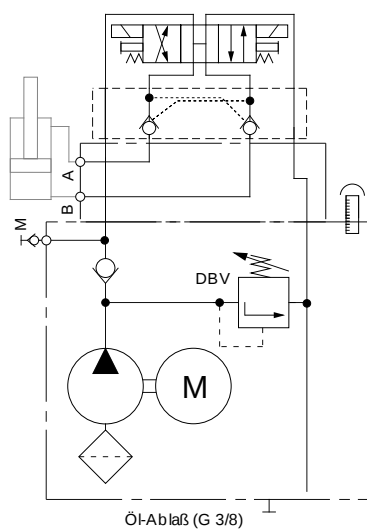
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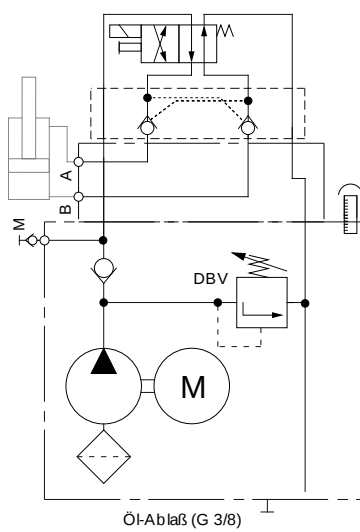
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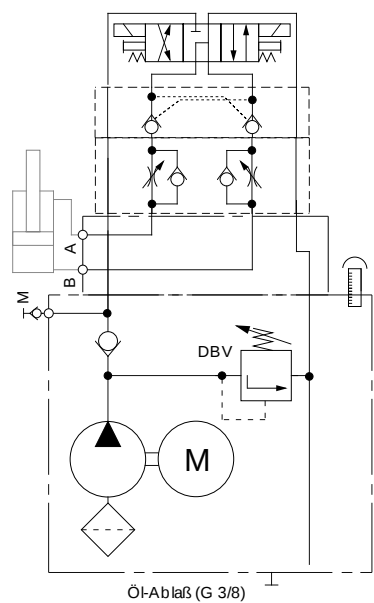
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Circuit Code: AQ



Circuit Code: AR

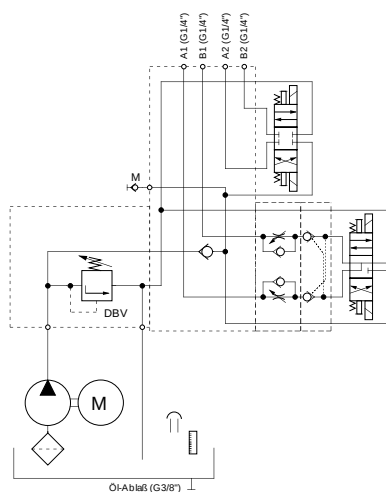


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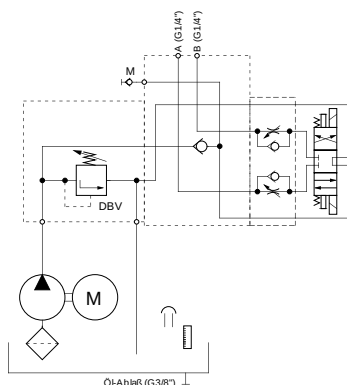
Created by R. Otto

Date: 8.5.2003

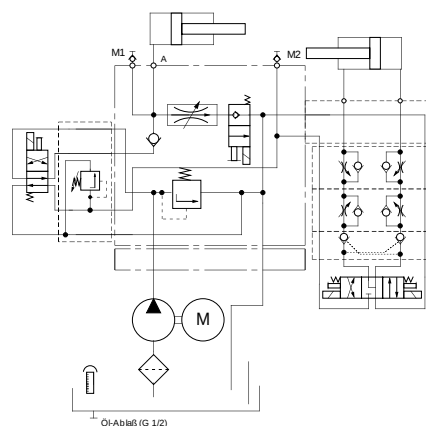
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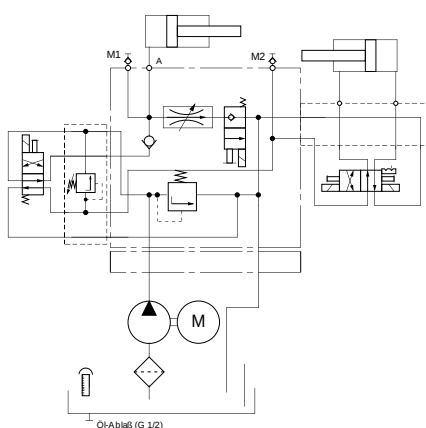
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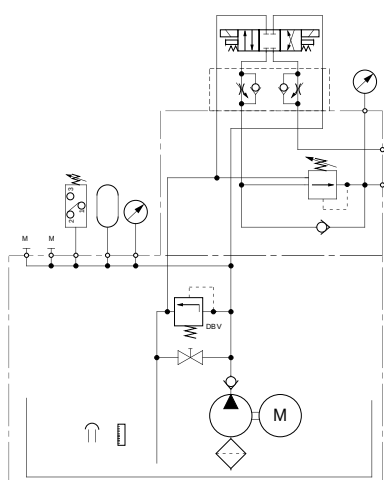
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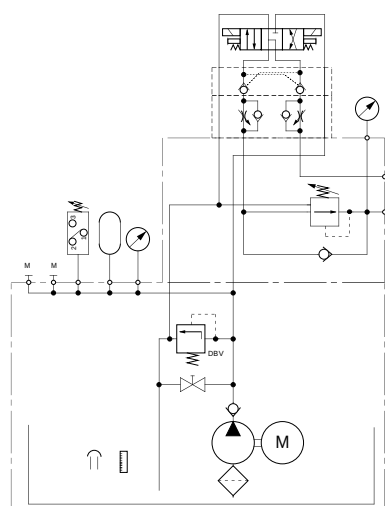
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Circuit Code: AW



Circuit Code: AX

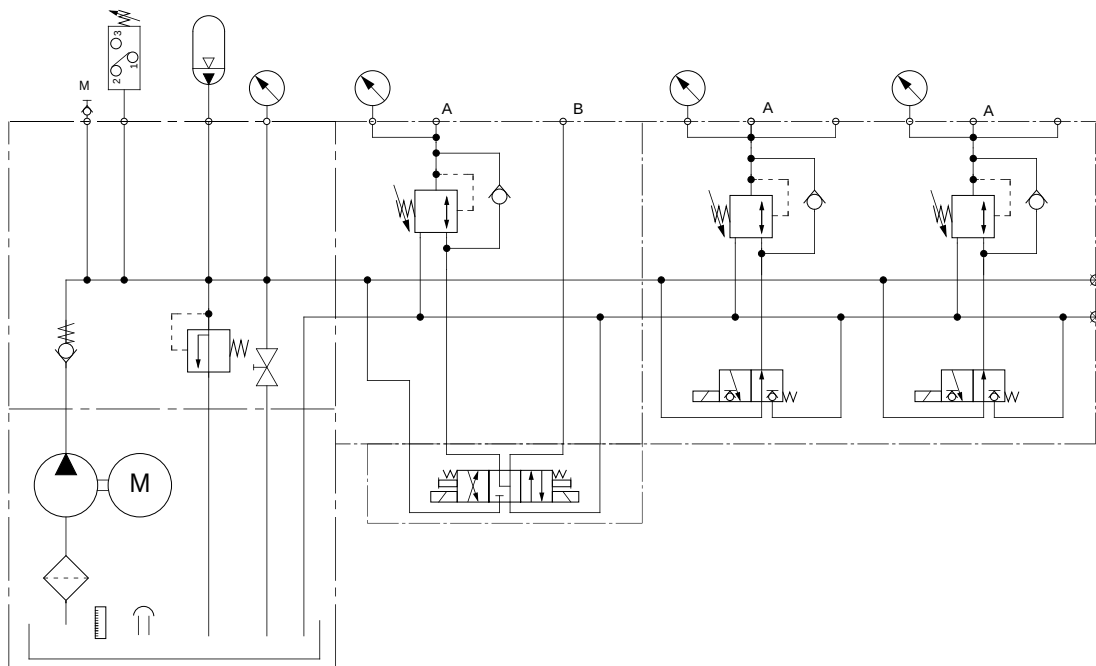


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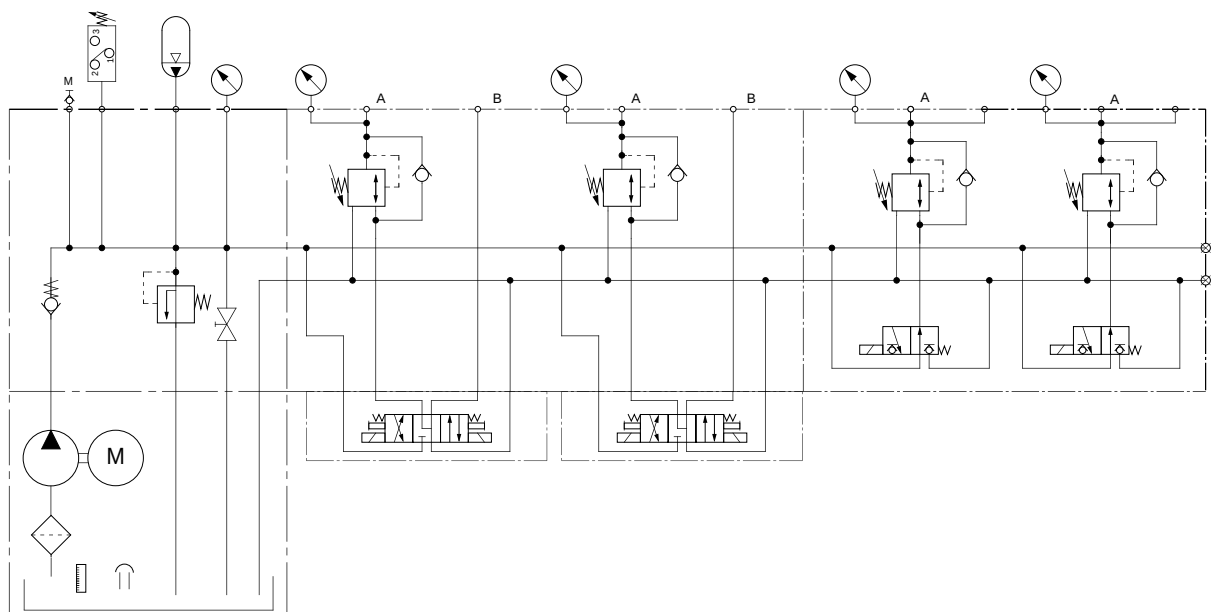
Created by R. Otto

Date: 8.5.2003

Circuit Code: AY



Circuit Code: AZ

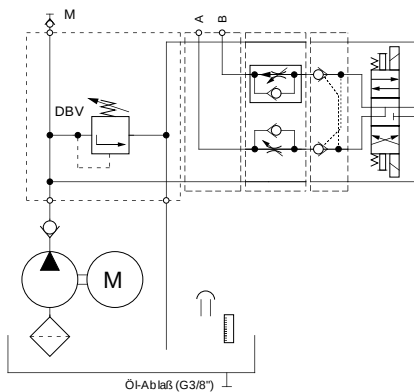


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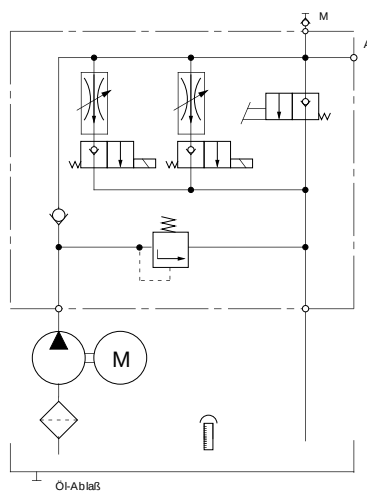
Created by R. Otto

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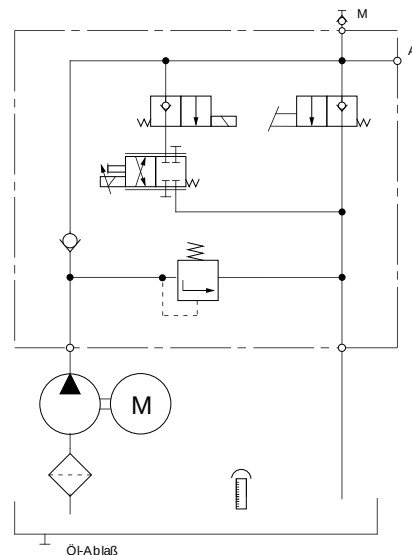
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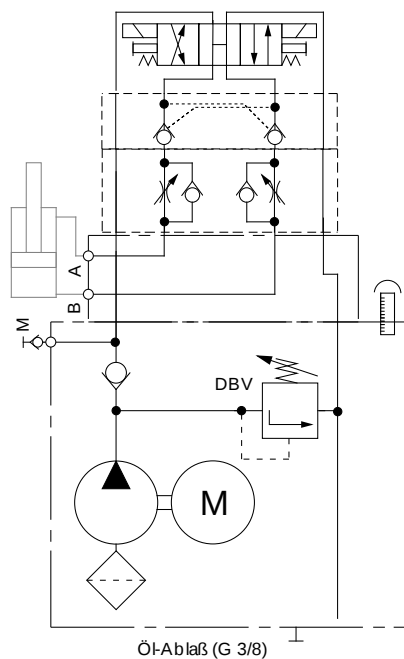
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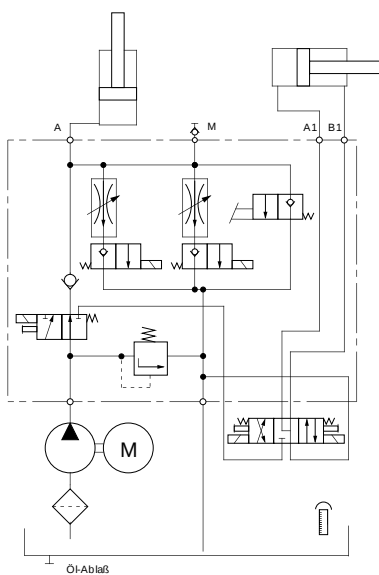
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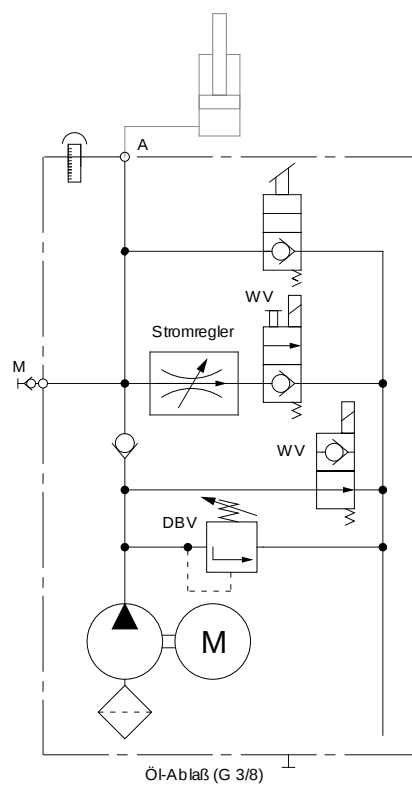
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Circuit Code: BE



Circuit Code: BF

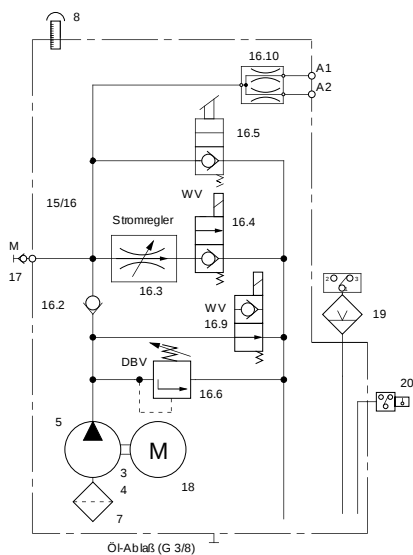


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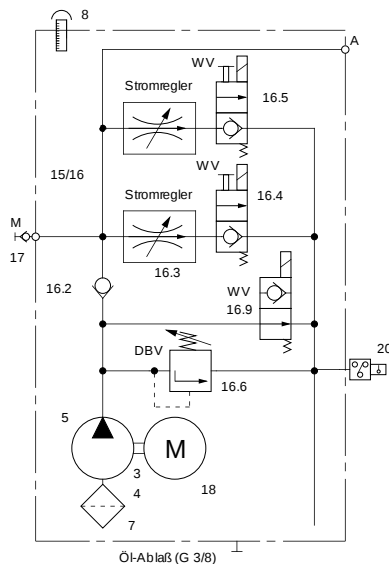
Created by R. Otto

Date: 8.5.2003

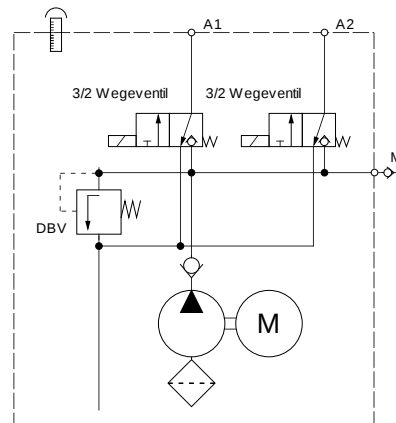
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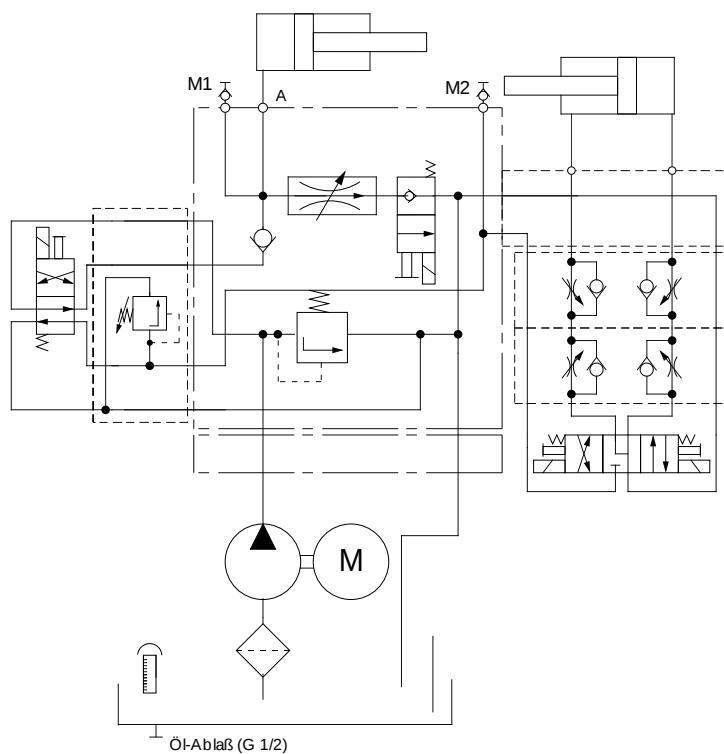
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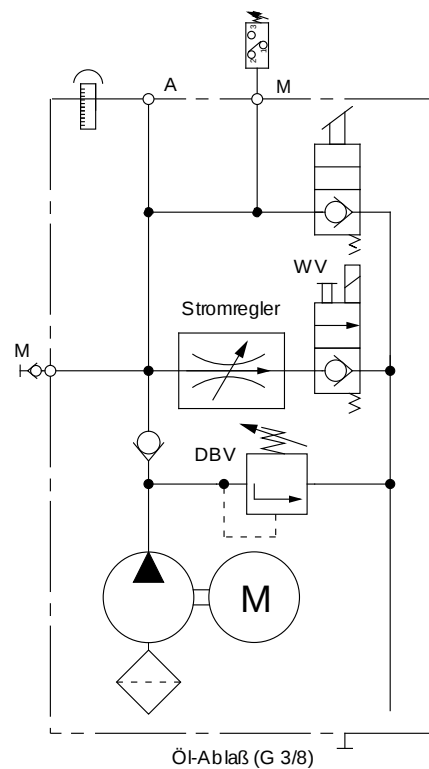
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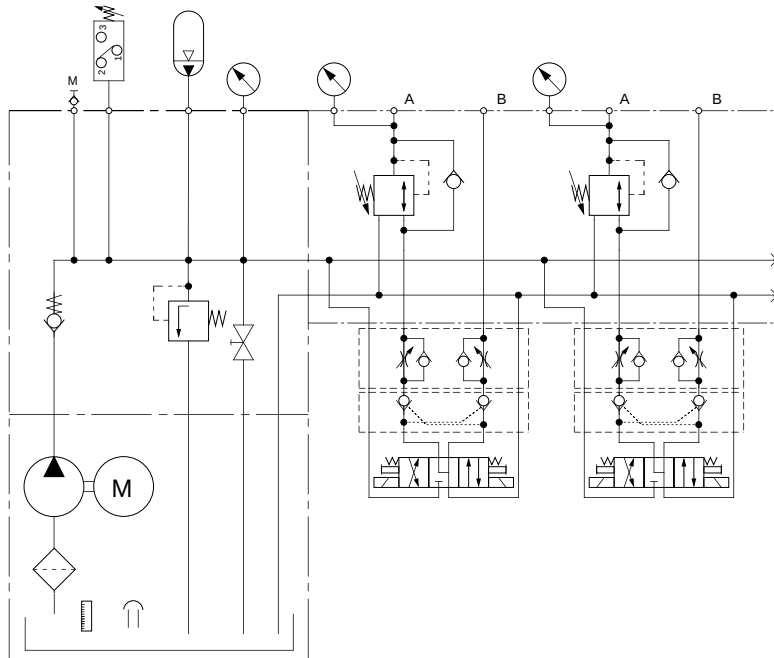


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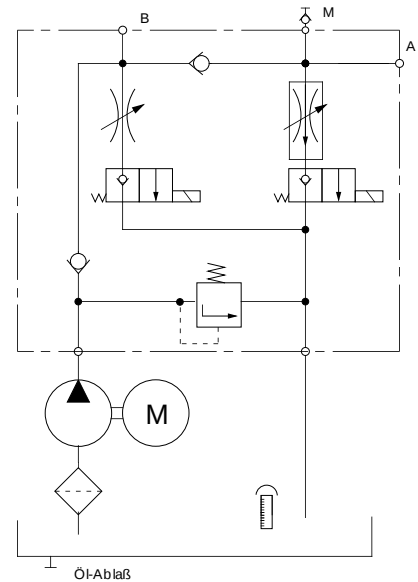
Created by R. Otto

Date: 8.5.2003

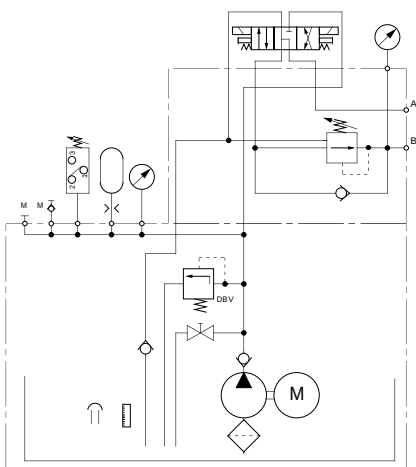
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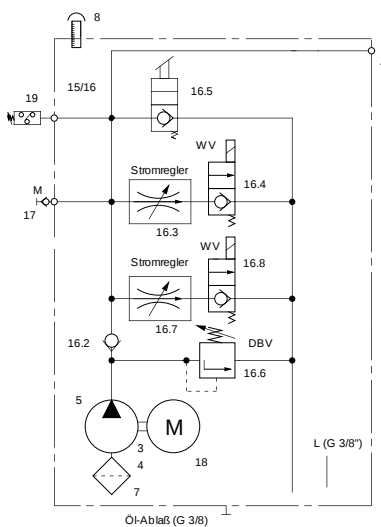
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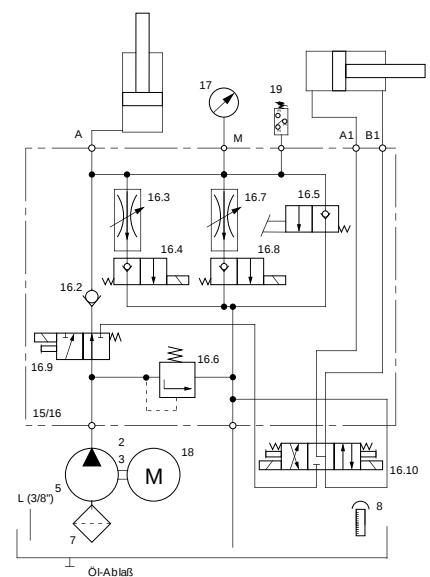
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Circuit Code: BO



Circuit Code: BP

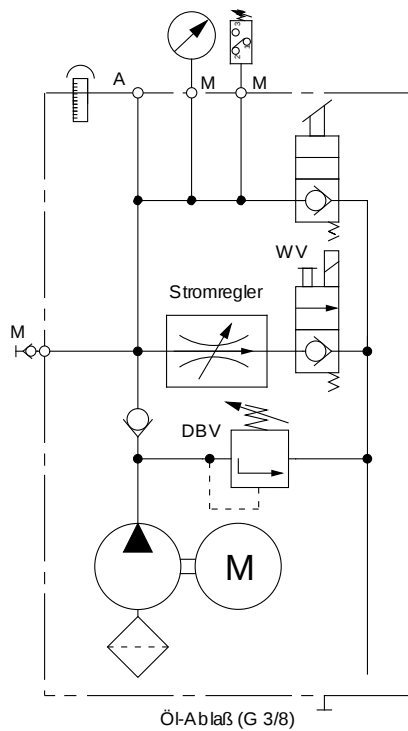


Document title: Datasheet ZPU 30

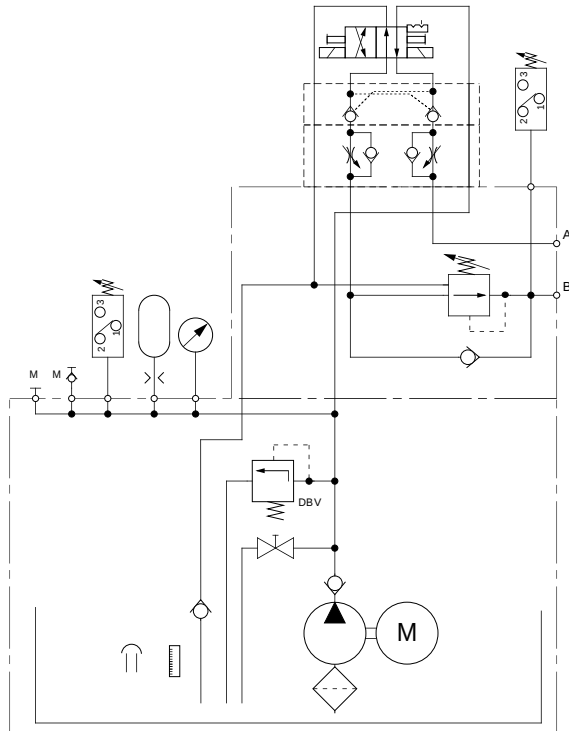
Created by R. Otto

Date: 8.5.2003

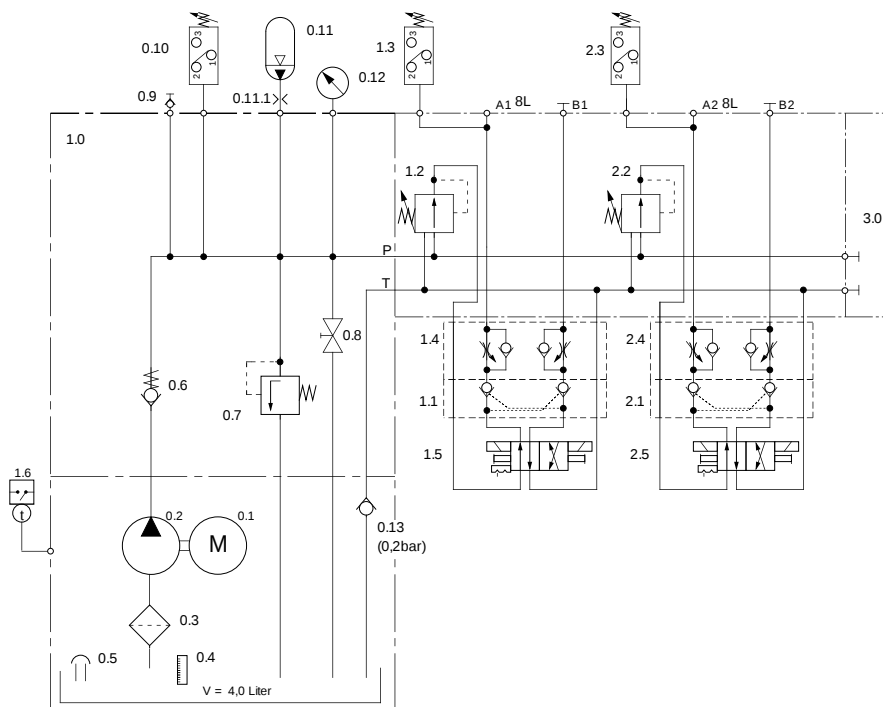
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Circuit Code: BR



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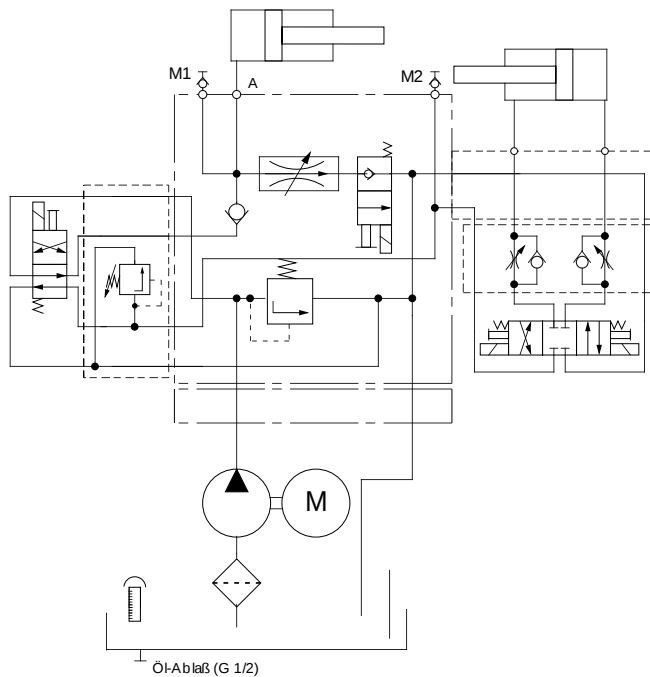


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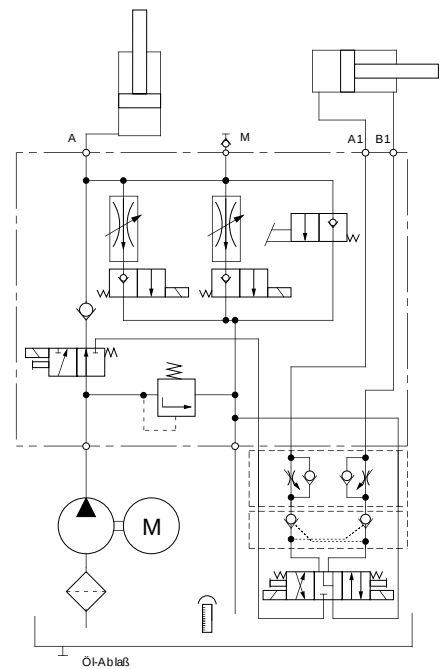
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Date: 8.5.2003

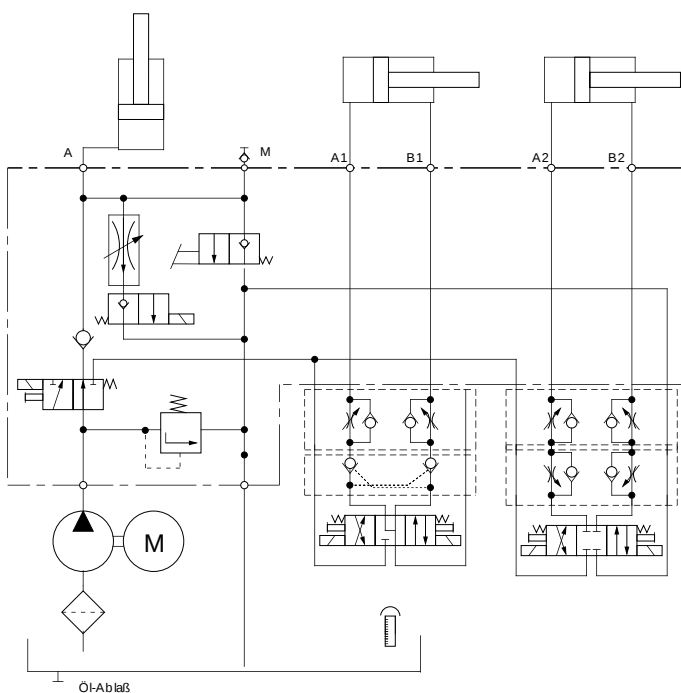
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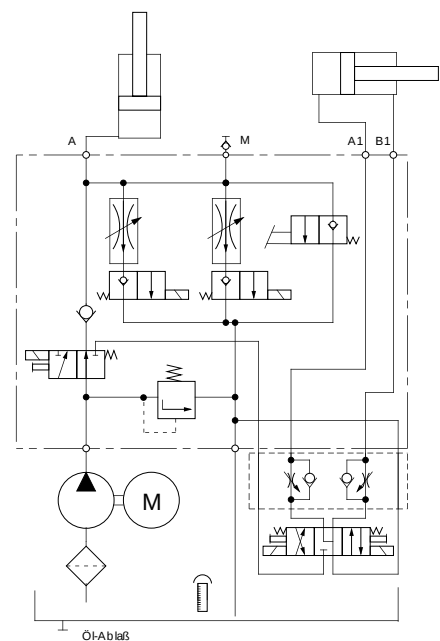
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Circuit Code: BU



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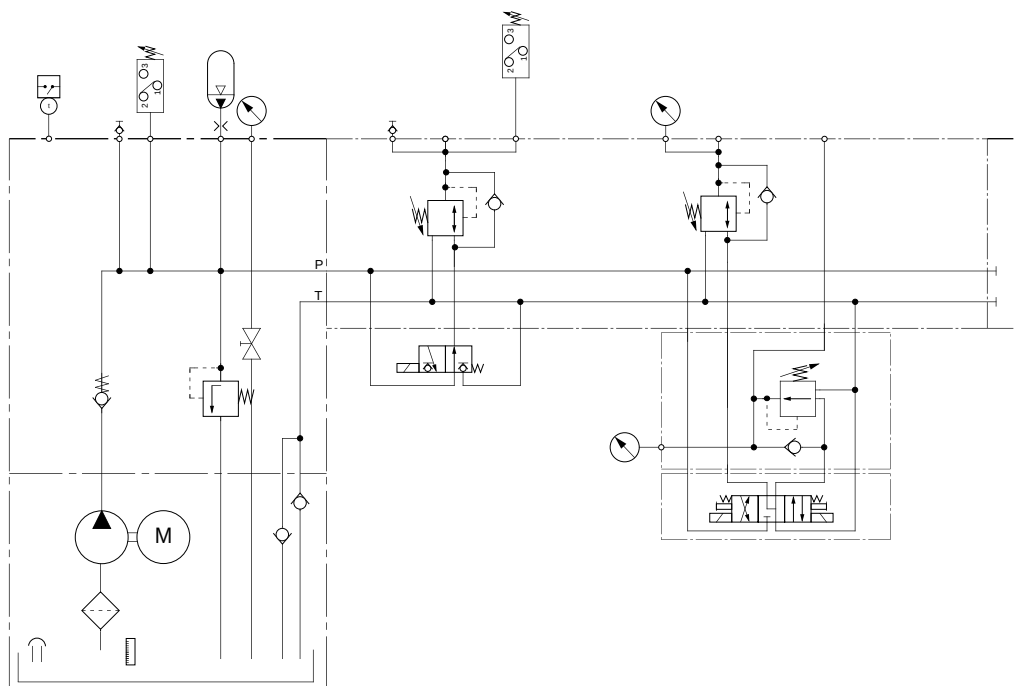


Document title: Datasheet ZPU 30

Created by R. Otto

Date: 8.5.2003

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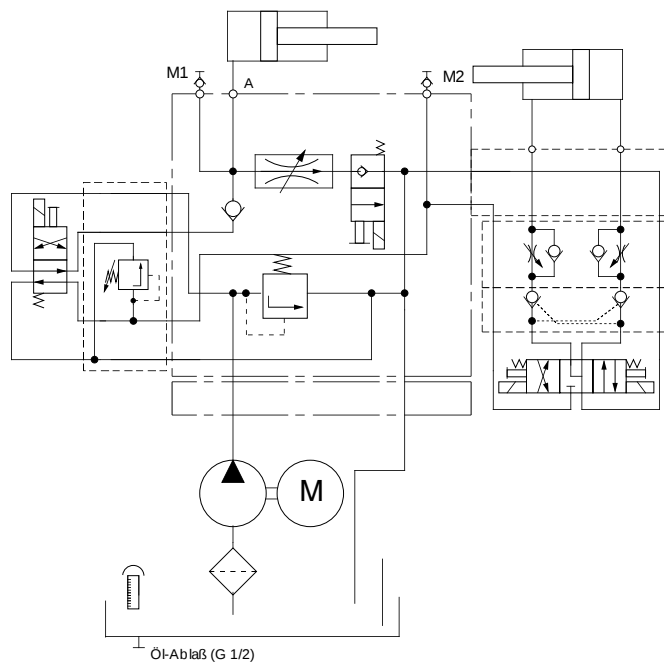


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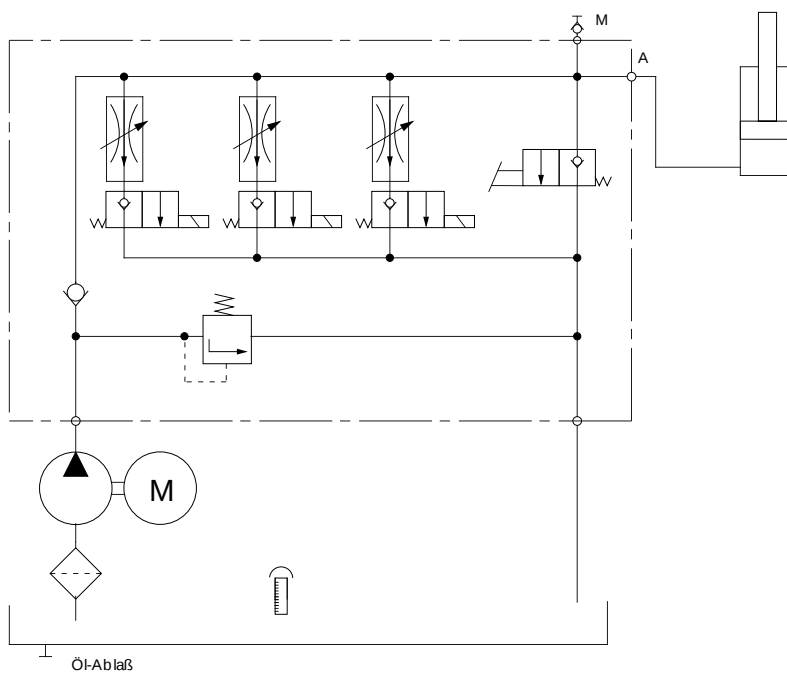
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Date: 8.5.2003

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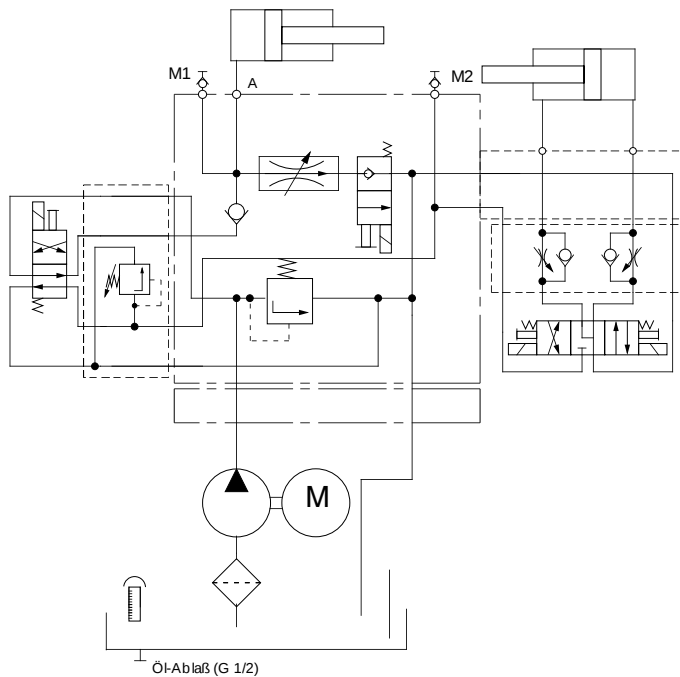


Circuit Code: CB



Document title: Datasheet ZPU 30
Created by R. Otto
Date: 8.5.2003

Circuit Code: CC



Circuit Code:



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