ING-TED

Hydraulic power pack

hydraulikaggregat

MC4

hydr·app®

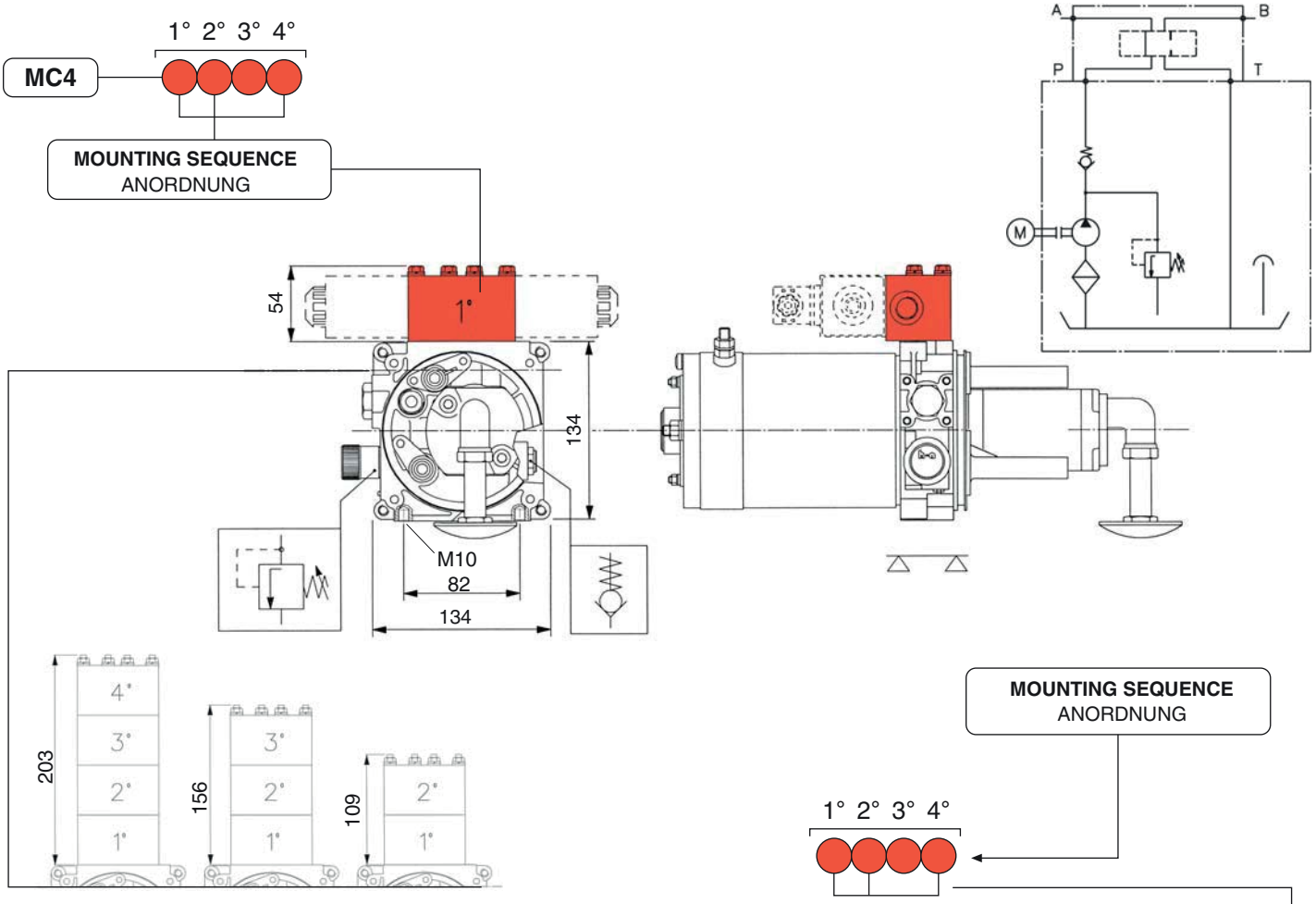
DOC00005 - Rev. 02

brevini fluid power

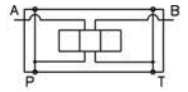
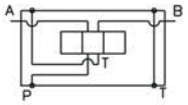
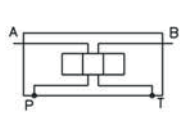
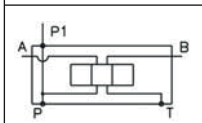
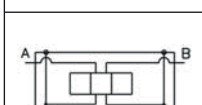
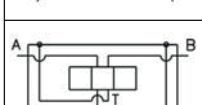
MC4

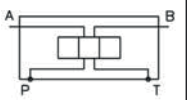
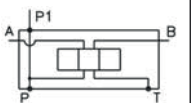
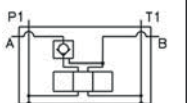
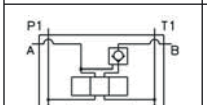
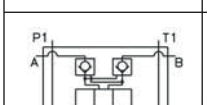
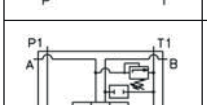
MC 4 modular power-packs were engineered to provide a practical and economical solution to various hydraulic applications. Modularity concept allows us to use standare components manufactured in large quantities. The high quality of components and their great mounting ease makes power pack extremely flexible and ready to cover a wide range of power requirements. Every component is completely interchangeable and it can be stocked separately and used in all required systems, obtaining in this way a time and stock costs save.
The result is a silent compact assembly with high performance which has large application possibilities in all industrial fields.

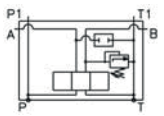
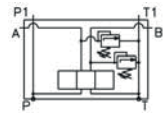
Die Kleinaggregate der Baureihe "**MC4**" sind das Ergebnis unserer langjährigen Erfahrung. Sie wurden entwickelt, um praktische und wirtschaftliche Lösungen für die verschiedene Problemstellungen der Hydraulik-Automation anzubieten. Das Baukastensystem besteht aus Standard-Komponenten, die in unserem Werk in großen Stückzahlen hergestellt werden. Diese Komponenten stellen aufgrund Ihrer hohen Qualität eine einfache Montage und zuverlässige Funktion sicher. Durch den modularen Aufbau und die Austauschbarkeit der Elemente untereinander können die Kleinaggregate für verschiedene Hydraulik-Systeme und auch auf vorhandenen Ölbehältern verwendet werden. Das geringe Laufgeräusch der Pumpen erlaubt einen störungsarmen Einsatz in allen Industriebereichen.
Das Baukastensystems ermöglicht außerdem eine zeitplatz-und kostensparende Lagerthaltung der Komponenten.

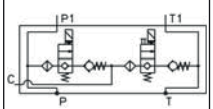
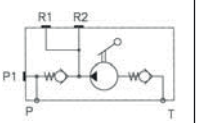
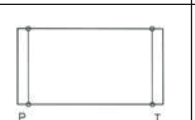


MANIFOLD BLOCKS FOR CETOP3 SOLENOID VALVES (UNI ISO 4401-AB-03-4)
ANSCHLUßBLÖCKE FÜR CETOP3 VENTILE (UNI ISO 4401 - AB - 03 - 4)

SCHEMATIC SCHALTSYMBOL	DESCRIPTION BESCHREIBUNG
	**A** **1/4" PARALLEL OPENED** 1/4" ZWISCHENPLATTE
	**B** **1/4" SERIE OPENED** 1/4" MITTELPLATTE
	**C** **1/4" CLOSED** 1/4" ENDPLATTE
	**D** **1/4" GAUGE PORT** 1/4" ENDPLATTE MIT MANOMETERANSCHLUß
	**E** **3/8" PARALLEL OPENED** 3/8" ZWISCHENPLATTE
	**F** **3/8" SERIE OPENED** 3/8" MITTELPLATTE

SCHEMATIC SCHALTSYMBOL	DESCRIPTION BESCHREIBUNG
	**G** **3/8" CLOSED** 3/8" ENDPLATTE
	**H** **3/8" GAUGE PORT** 3/8" ENDPLATTE MIT MANOMETERANSCHLUß
	**L** **PILOT CHECK VALVE ON "A" PORT** MIT ENTSPERRBAREM RV IN "A"
	**M** **PILOT CHECK VALVE ON "B" PORT** MIT ENTSPERRBAREM RV IN "B"
	**N** **PILOT CHECK VALVE ON "A" AND "B" PORTS** MIT ENTSPERRBAREM RV IN "A" UND "B"
	**P** **ADJUSTABLE PRESSURE ON "A" PORT** MIT DBV IN "A"

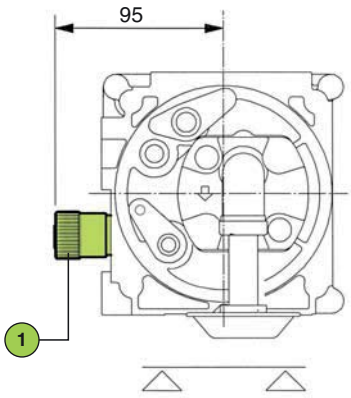
SCHEMATIC SCHALTSYMBOL	DESCRIPTION BESCHREIBUNG
	**R** **ADJUSTABLE PRESSURE ON "B" PORT** MIT DBV IN "B"
	**S** **ADJUSTABLE PRESSURE ON "A" AND "B" PORTS** MIT DBV IN "A" UND "B"

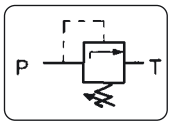
SCHEMATIC SCHALTSYMBOL	DESCRIPTION BESCHREIBUNG
	**V** **BLOCK N.13** STEUERBLOCK N.13
	**K** **HAND PUMP** MIT HANDPUMPE 6 cm³/Hub
	**U** **HIGHTENING PLATE h=29 NECESSARY FOR AC MOTOR M-N-P** HEBEPLATTE h=29 NOTWENDIG FUER EL-MOTOREN -M-N-P

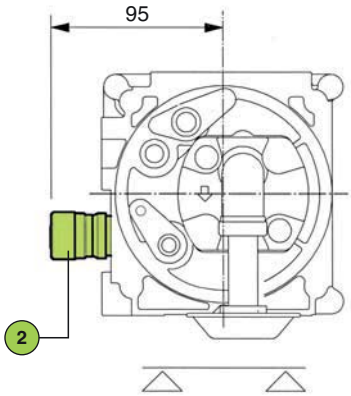
V

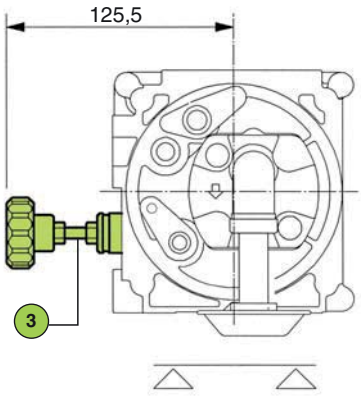
	PRESSURE RANGE EINSTELLBEREICH	STANDARD SETTING STANDARD EINSTELLUNG
A	35-90 bar	50 bar
B	75-190 bar	150 bar
C	160-290 bar	180 bar

1	**WITH PROTECTION CAP** MIT SCHUTZKAPPE
2	**WITH SEALED CAP** MIT SICHERUNGSKAPPE
3	**WITH HAND WHEEL** MIT HANDRAD





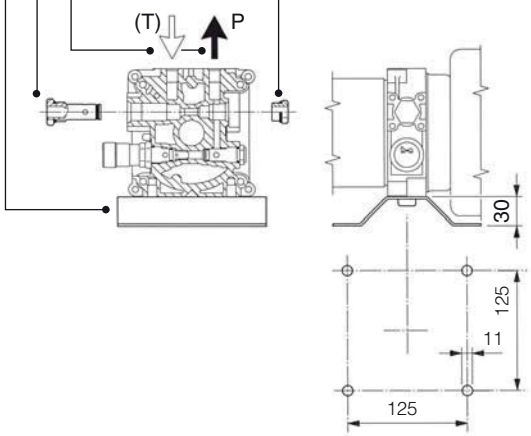




OPTIONS
OPTIONEN

R

1	**P (T) BSP G 3/8" without holes for blocks mounting** P (T) BSP G 3/8" ohne Bohrungen fuer die Bloeckemontage
2	**Auxiliary pressure port -** Zusätzlicher Anschluß
5	**1/4" Auxiliary return port -** 1/4" Zusatz-Ablaßstropfen
7	**Mounting foot -** Befestigungsfuß
0	**With M6 holes for blocks mounting** Mit Bohrungen M6 fuer die Bloeckemontage



PUMPS DISPLACEMENT
PUMPENGRÖßEN

P

	NOMINAL DISPLACEMENT CC/REV FÖRDERVOLUMEN NOMINAL cm.³/U	PUMP GROUP BAUGRÖßE
A	0,25	0,5
B	0,45	
C	0,56	
D	0,75	
J	0,92	
E	1,2	1
F	1,7	
G	2,2	
L	2,6	
M	3,2	
N	3,8	
P	4,3	
H	4,8	
T	6,0	
R	7,8	
S	9,8	

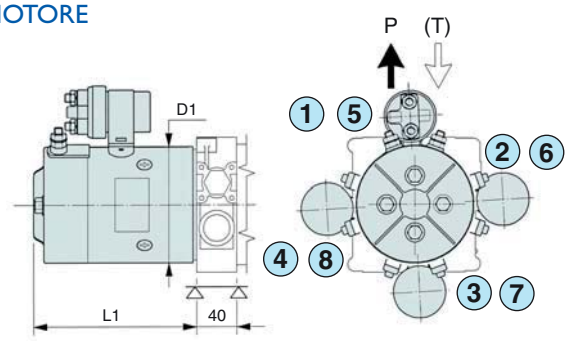
CONTACT HYDR-APP TO CHECK THE OPERATING DATA
KONTAKT HYDR-APP ZUR ÜBERPRÜFUNG DER BETRIEBSDATEN

DC - AC MOTORS
ELEKTROMOTORE DC/AC

DC MOTORS - GLEICHSTROMMOTORE

	TYPE TYP	D1	L1
EQ	12Volt DC 0,35 kW	76	143,5
ER	24Volt DC 0,4 kW		
AU	12Volt DC 0,7 kW	76	162
AV	24Volt DC 0,8 kW		
EN	12Volt DC 1,6 kW	114	158
ES	24Volt DC 2,2 kW		
FB	24Volt DC 3,0 kW	125	207,5

1	**START SWITCH POSITION** POSITION DES STARTRELAIS
2	
3	
4	
5	**TERMINAL POSITION WITHOUT START SWITCH** POSITION DER POLE OHNE STARTRELAIS
6	
7	
8	



THERMAL SWITCH PROTECTION AND FAN COOLED MOTORS ARE AVAILABLE
MOTORE AUCH MIT THERMOSCHALTER UND LUFTER VERFÜGBAR

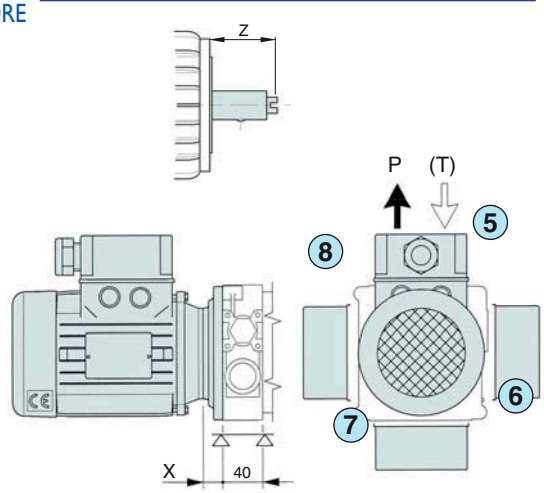
M

AC MOTORS
DREH - WECHSELSTROMMOTORE

0 5 6 7 8

WITHOUT MOTOR - OHNE MOTOR

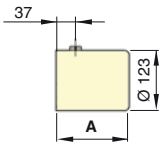
	SIZE BAUGRÖßE	2 POLES kW	4 POLES kW	6 POLES kW	X	Gr 1 Z	Gr 0,5 Z	FRAME BAUFORM
R	63	0,18-0,25	0,12-0,18	0,09-0,12	19,5	42,8	62,7	B14
L	71	0,37-0,55	0,25-0,37	0,18-0,25	19,5	42	42	
M	80	0,75-1,1	0,55-0,75	0,37-0,55	30,5	53	53	
N	90	1,5-2,2	1,1-1,5	0,75-1,1	40,5	63	-	
P	100/112	3-5,5	2,2-4	1,5-2,2	75	81,5	-	



TANKS
BEHÄLTER

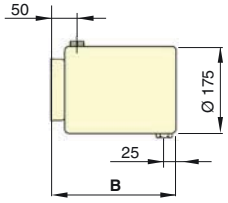
T	01	02	03	05	P05	06	07	P07	08	09	10	12	14	25
NOMINAL CAPACITY NENNVOLUMEN	1	2	3	5		6	7		8	9	10	12	14	25

SPECIAL SIZES ON REQUEST
SONDERGRÖßEN AUF ANFRAGE

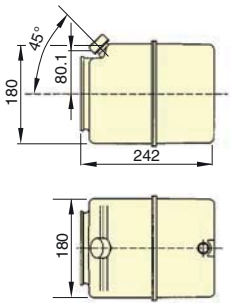


	A
01	141
02	200
03	330

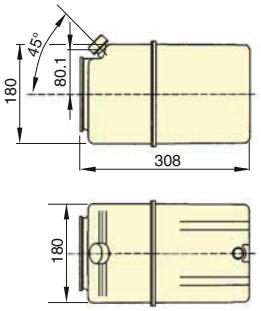
	B
05	246
06	308
08	370



P05



P07



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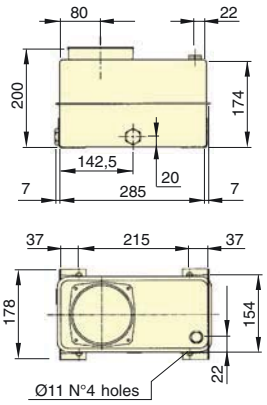

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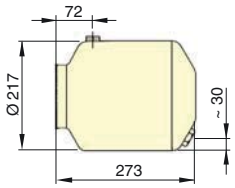

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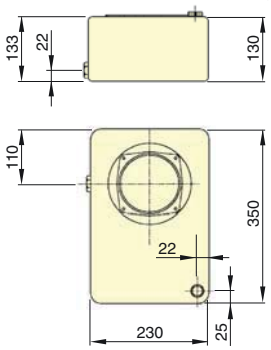

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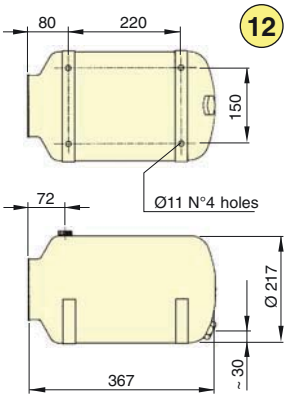

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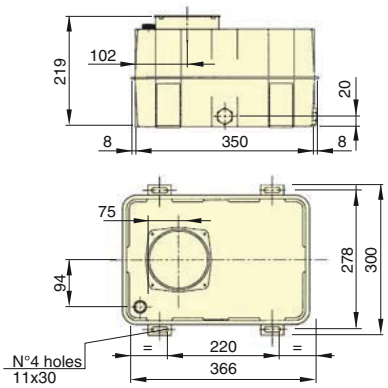
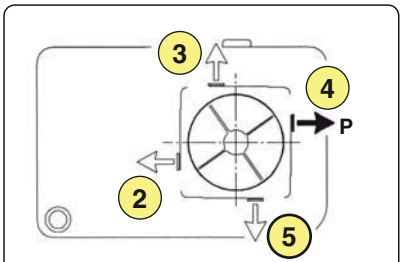


MOUNTING POSITION
MONTAGESCHLÜSSEL

F		
0	VERTICAL WITHOUT TANK	SENKRECHT OHNE BEHÄLTER
1	HORIZONTAL	WAAGERECHT
2 3 4 5	VERTICAL	SENKRECHT



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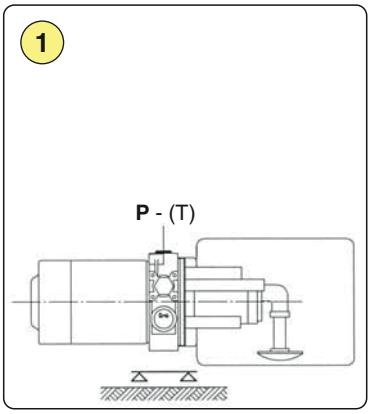

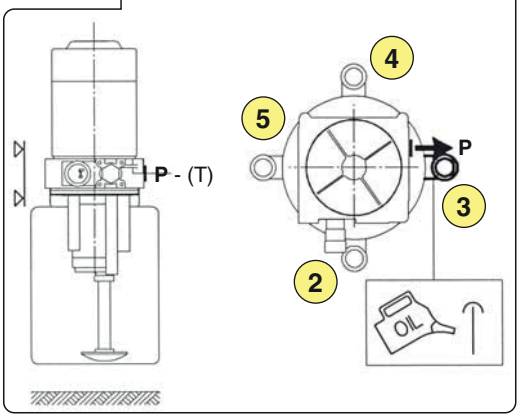

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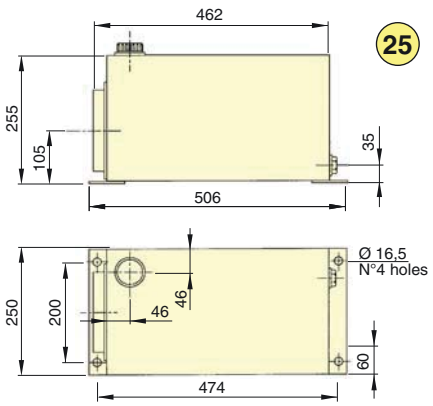

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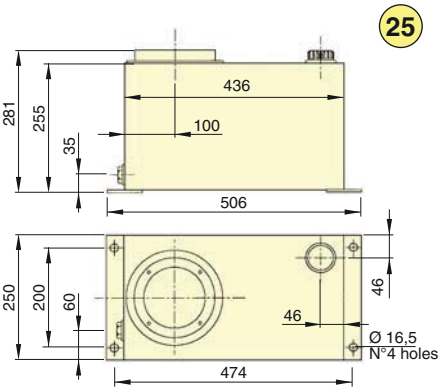
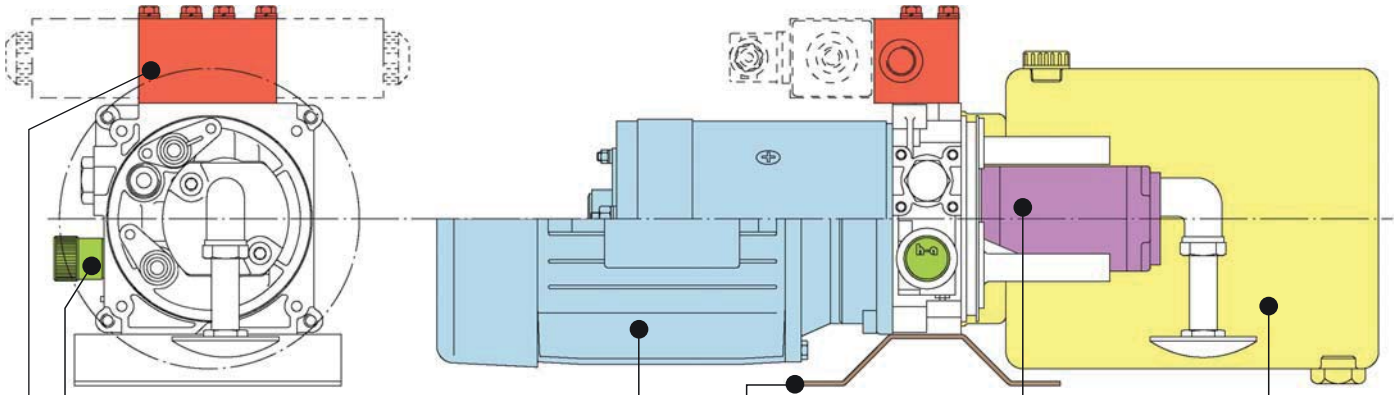


ORDERING CODE
BESTELLSCHLÜSSEL



MC4

Mounting blocks / Steuerblöcke

A	**1/4" PARALLEL INTERMEDIATE SUBPLATE** 1/4" ZWISCHENPLATTE
B	**1/4" SERIE INTERMEDIATE SUBPLATE** 1/4" MITTELPLATTE - SERIE
C	**1/4" PARALLEL TOP BLOCK** 1/4" ENDPLATTE
D	**1/4" PARALLEL TOP BLOCK WITH GAUGE PORT** 1/4"ENDPLATTE MIT MANOMETERANSCHLUß
E	**3/8" PARALLEL INTERMEDIATE SUBPLATE** 3/8" ZWISCHENPLATTE
F	**3/8" SERIE INTERMEDIATE SUBPLATE** 3/8" MITTELPLATTE
G	**3/8" PARALLEL TOP BLOCK** 3/8" ENDPLATTE
H	**3/8" PARALLEL TOP BLOCK WITH GAUGE PORT** 3/8" ENDPLATTE MIT MANOMETERANSCHLUß
L	**PILOT CHECK ON "A" PORT** MIT ENTSPERRBAREM RV IN "A"
M	**PILOT CHECK ON "B" PORT** MIT ENTSPERRBAREM RV IN "B"
N	**PILOT CHECKS ON "A" AND "B" PORTS** MIT ENTSPERRBAREM RV IN "A" UND "B"
P	**ADJUSTABLE PRESSURE RELIEF ON "A" PORT** MIT DBV IN "A"
R	**ADJUSTABLE PRESSURE RELIEF ON "B" PORT** MIT DBV IN "B"
S	**ADJUSTABLE PRESSURE RELIEF ON "A" AND "B" PORTS** MIT DBV IN "A" UND "B"
V	**BLOCK N 13** STEUERBLOCK N 13
K	**HAND PUMP** MIT HANDPUMPE 6 cm³/Hub
U	**HIGHTENING PLATE h=29 NECESSARY FOR AC MOTOR M-N-P** HEBEPLATTE h=29 NOTWENDIG FUER EL-MOTOREN -M-N-P

V

1	Protection cap Schutzkappe
2	Sealed cap Sicherungskappe
3	Hand wheel Handrad

Pressure range Einstellbereigh	35-90 bar	A
	75-190 bar	B
	160-290 bar	C

R

Options - Optionen

Nominal displacement cc/rev. Fördervolumen nominal cm³/U	
0,25	A
0,45	B
0,56	C
0,75	D
0,92	J
1,2	E
1,7	F
2,2	G
2,6	L
3,2	M
3,8	N
4,3	P
4,8	H
6,0	T
7,8	R
9,8	S

P

M

AC motors - Wechselstrom-Motore

R	Gr. 63	AC motor position mounting Einbaulage	0
L	Gr. 71		5
M	Gr. 80		6
N	Gr. 90		7
P	Gr. 100		8

DC motors - Gleichstrom-Motore

EQ	12Volt 350W	DC motor mounting position with start switch Position des Startrelais	1
ER	24Volt 400W		2
AU	12Volt 700W		3
AV	24Volt 800W		4
EN	12Volt 1600W	DC motor mounting position without start switch Position der pole ohne Startrelais	5
ES	24Volt 2200W		6
FB	24Volt 3000W		7
			8

T

01	Nominal capacity (litres) Nennvolumen (Liter)	
02		
03		
05		
P05		
06		
07		
P07		
08		
09		
10		
12		
14		
25		

F

0	Vertical without tank Senkrecht ohne Behälter
1	Horizontal Waagerecht
2	Vertical Senkrecht
3	
4	
5	

Brevini Fluid Power S.p.A.
Via Moscova, 6
42124 Reggio Emilia - Italy
tel. +39 0522 270711
fax +39 0522 270660
www.hydr-app.it
info@brevinifluidpower.com