



MICRO POWER PUMPS

1G



SALES ORGANISATION

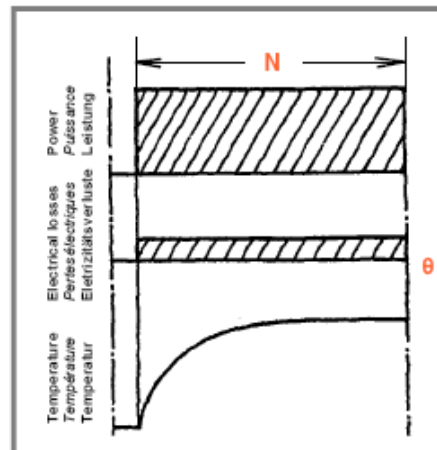


Representative chart

DUTY TYPES DIRECT CURRENT MOTORS

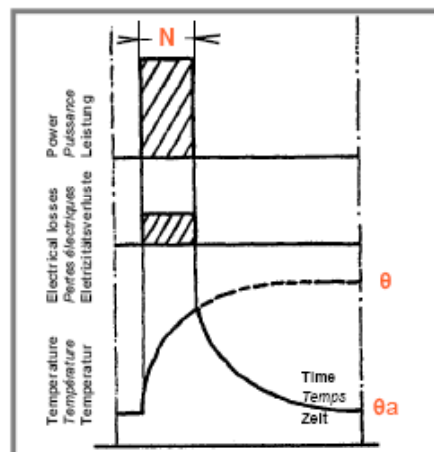
S1 Continuous Duty

Duty type consisting of working at a constant load during a certain time long enough to reach the thermal equilibrium.



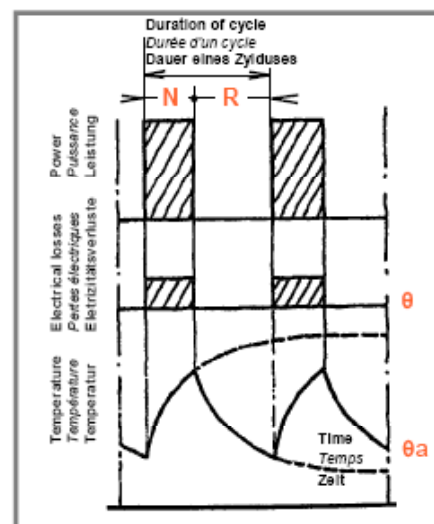
S2 Temporary Duties

Duty types consisting of working at constant load during a determined period shorter than the one necessary for reaching the thermal equilibrium, followed by a rest the duration of which should be long enough to reach the same temperature as the cooling medium.



S3 Periodical intermittent Duties

Types of duties consisting of a series of identical cycles each of them including a working time at constant load and a rest time, the durations being not sufficient for reaching the thermal equilibrium during the heating periods as well as the cooling periods.



Legend:

- N: Working at nom. load
- R: Rest
- D: Starting
- θ: Temperature during Continuous Duty
- θ_a: Temperature of cooling medium

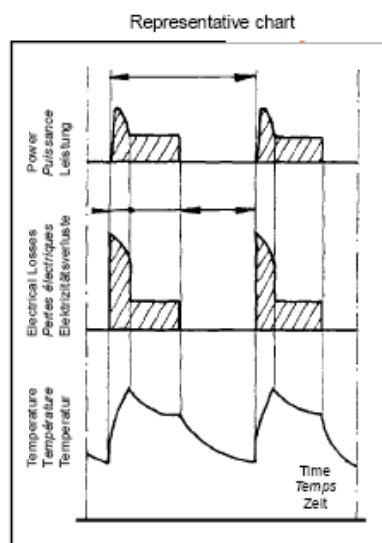
DUTY TYPES DIRECT CURRENT MOTORS

S4

Intermittent starting Duties

Types of duties consisting of a series of identical cycles, each of them including a starting time, a working time at constant load and a rest time. The working time and the rest time are short enough not to reach the thermal equilibrium during a cycle.

In these duties, the motor stops either due to the natural slowing-down after switching off or by means of a brake such as a mechanical brake which does not cause complementary heating-up of the coils.

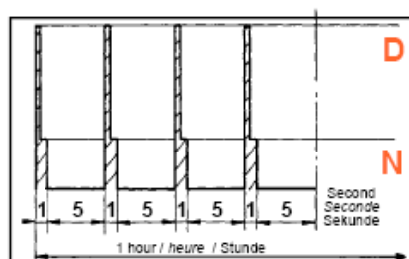


S4a

Specific Duties

Determines the number of startings per hour according to the S4 cycle here after mentioned :

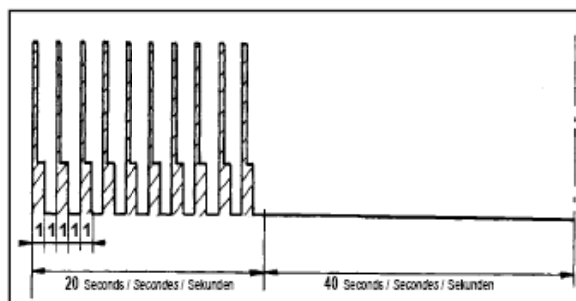
- 1 second of working time
- 5 seconds of rest time.



S4b

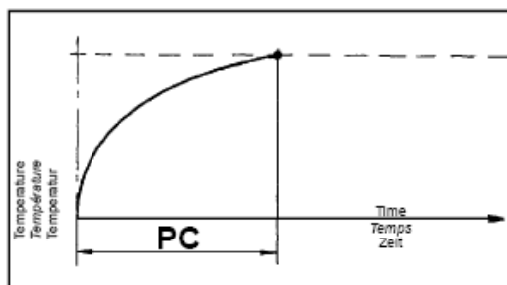
Determines the number of startings per hour according to the S4 cycle here after mentioned :

- 1 second of working time
- 1 second of rest time during 20 seconds;
- 40 seconds of rest time.



PC

Critical moment at permanent functioning S2 under load in minutes before destruction.



Legend :

- N Working at nom. load
 - R Rest
 - D Starting
 - ⊖ Temperature during Continuous Duty
 - ⊖ Temperature of cooling medium
- Documentation :
 French Standards NFC 51 111
 German Standards VDE 530-1

I P	54
I Sign Signe Zeichen	II Sign Signe Zeichen

IP

00

44

54

55

Closed machine , protected against water projection

DIRECT CURRENT

Code Code Kode	Power <i>Puissance</i> kW Leistung		Flow <i>Débit</i> Fördermenge
	12 V	24 V	
FE	0,175	0,175	0,2 to - à - bis 12 l / min
* KE		0,6	
HE	0,8	1	
AE	1,1	1,2	

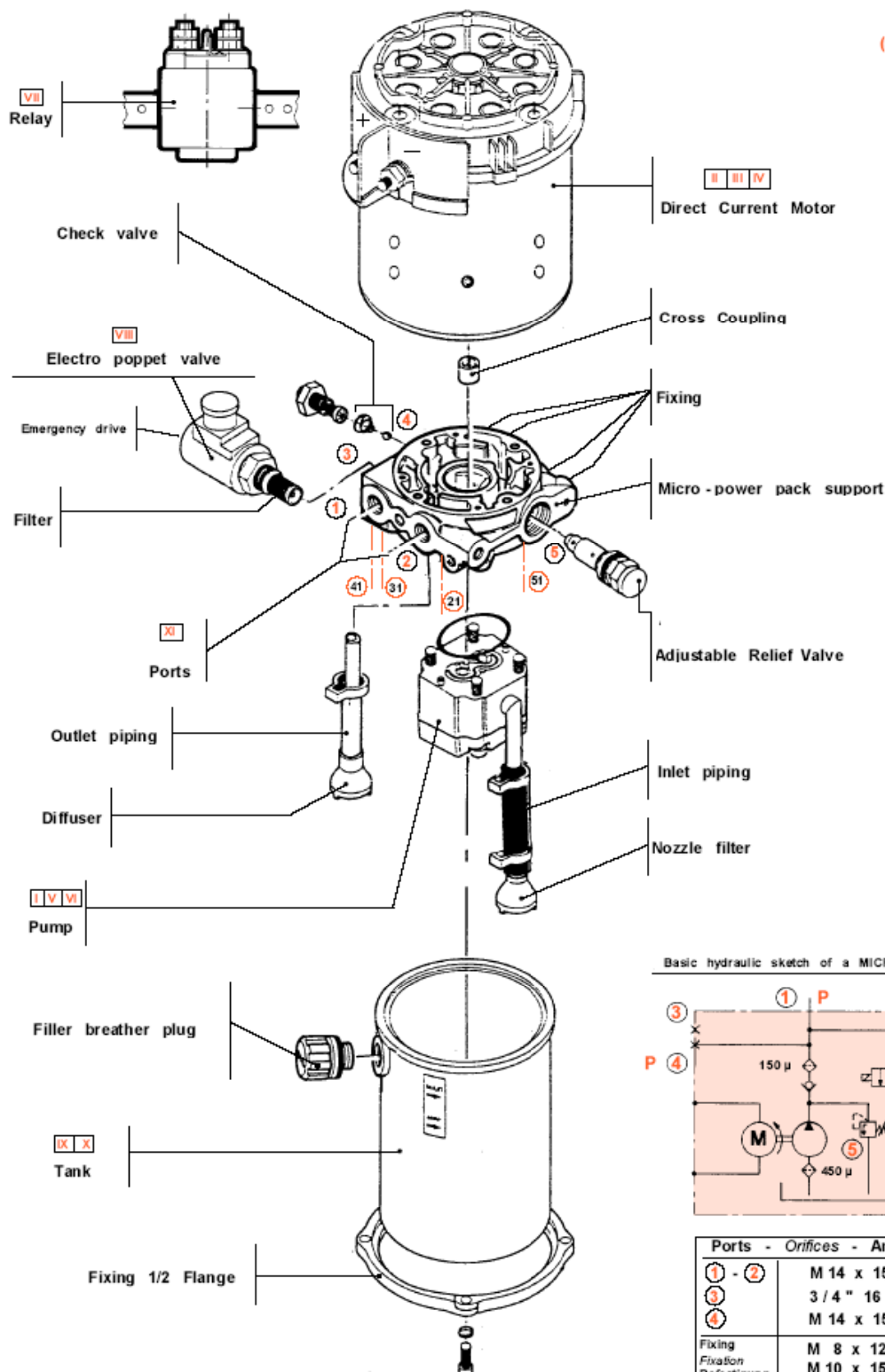
* Voltage 24 and 48 V



DIRECT CURRENT

01	HE	2	C	100	T	R	14	F	1	20	X	2	N
I Sign Zeichen	II Sign Zeichen	III Sign Zeichen	IV Sign Zeichen	V Sign Zeichen	VI Sign Zeichen	VII Sign Zeichen	VIII Sign Zeichen	IX Sign Zeichen	X Sign Zeichen	XI Sign Zeichen	XII Sign Zeichen	XIII Sign Zeichen	XIV Sign Zeichen

CODIFICATION
(F.T R 0026)



TECHNOLOGICAL COMPOSITION of the MICRO-POWER PACK

DIRECT CURRENT

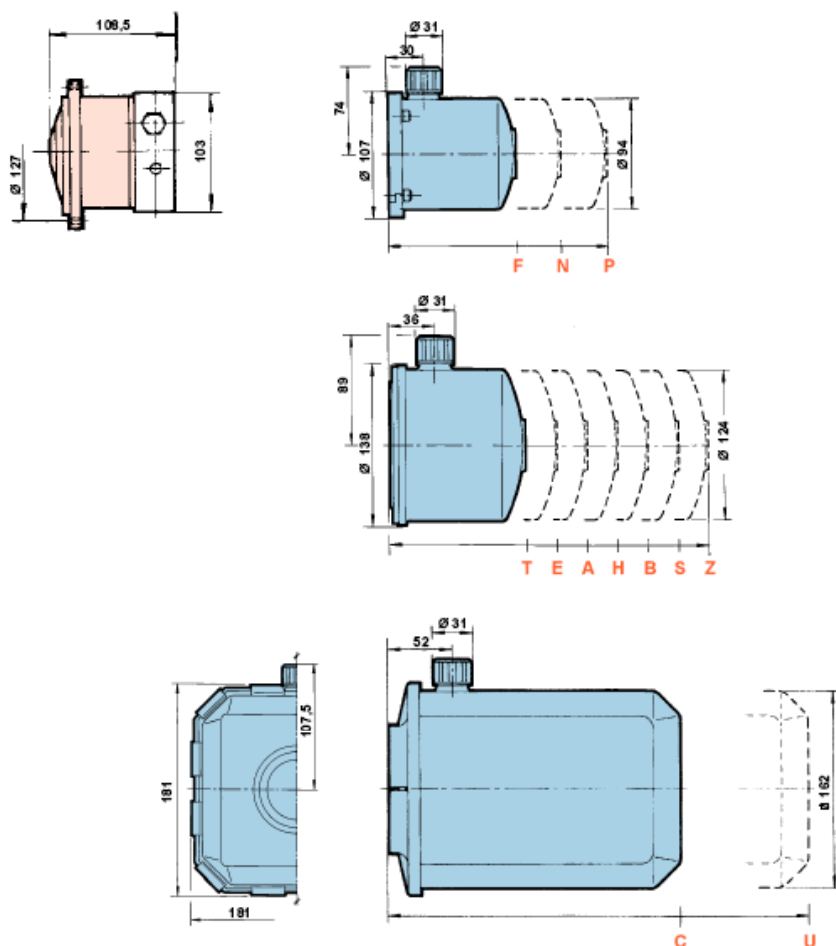
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
		Sign Signe Zeichen		Sign Signe Zeichen				Sign Signe Zeichen	Sign Signe Zeichen				
01	FE		C		T								

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER			POSITIONS POSITIONS LAGEN 1 - 3 - 4 - 5		POSITION POSITION LAGE 2		DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT					
▲ F	0,5 L	0,5 L				110	
W	0,75 L	0,7 L	0,6 L			150	
P	1 L	0,9 L	0,8 L			190	
T	1,1 L	1,1 L	0,7 L			111	
E	1,5 L	1,4 L	1 L			148	
A	2 L	2 L	1,4 L			193,5	
H	2,5 L	2,4 L	2 L			244	
■ B	3 L		2,3 L			284,5	
■ S	4 L		3,4 L			390	
■ Z	6 L		5,3 L			606	
C	5 L	4,7 L	3,8 L			242	
■ U	6 L		5 L			297	

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS DIRECT CURRENT

TYPE FE

12 V - 24V
0,175 kW
JTEKT


DIRECT CURRENT

CODIFICATION

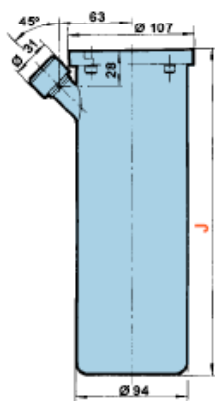
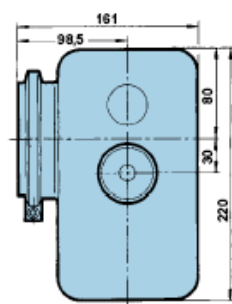
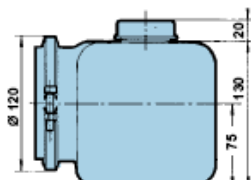
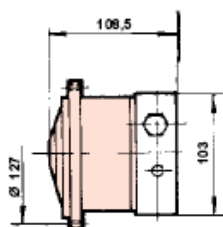
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	FE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN		POSITION POSITION LAGE	DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT		2	
■ J	1,7 L	1,1 L	1,28 L	280	
▲ M	3,3 L	2,6 L			

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS

DIRECT CURRENT

TYPE FE

12 V - 24V
0,175 kW

JTEKT
HPI


DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	FE	Sign Signe Zeichen	C	Sign Signe Zeichen	T								

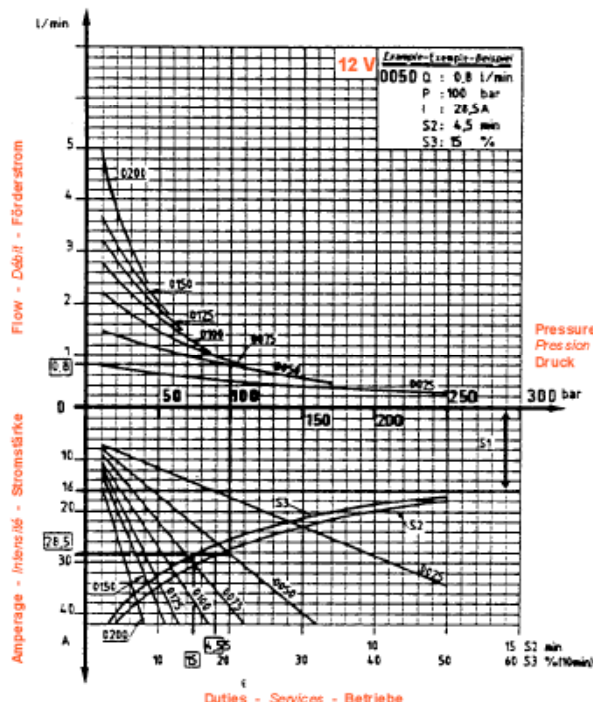
(F.T R 0026)

DIRECT CURRENT MOTOR
NOMINAL POWER **0,175 kW**
S3 (10 % of 10 min)

Reference
109 519

Code **FE 1**

II	III
Sign Signe Zeichen	Sign Signe Zeichen



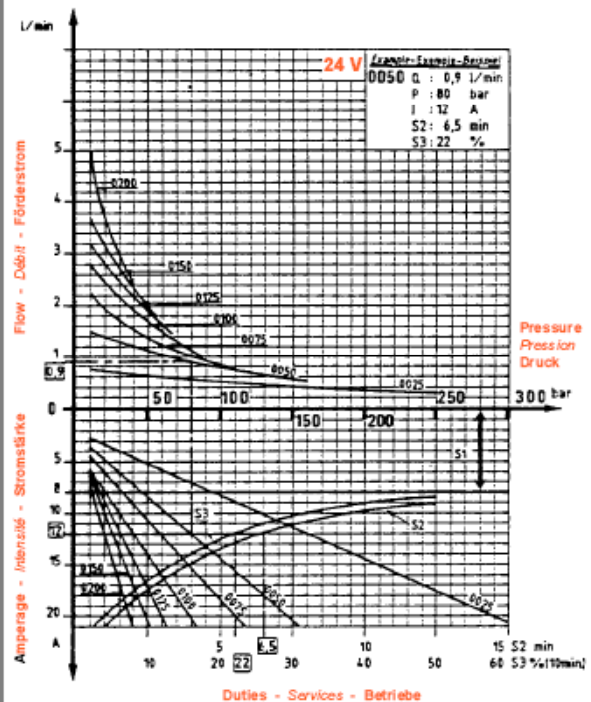
Duty up to **16 A**
Service jusqu'à
Betrieb bis

DIRECT CURRENT MOTOR
NOMINAL POWER **0,175 kW**
S3 (10 % of 10 min)

Reference
109 399

Code **FE 2**

II	III
Sign Signe Zeichen	Sign Signe Zeichen



Duty up to **8 A**
Service jusqu'à
Betrieb bis

Flow variation in l/min , for a supplied tension (U) of 1V variation .

$$\Delta Q = 0,26 \times Q \times \frac{\Delta U}{U}$$

l / min cm³ / t Volt

EXAMPLE

Pump : 0,5 cc / rev Voltage : 12 V

$$\Delta Q = Q_{n.al} \times \frac{\Delta U}{U} \times Q$$

$$\Delta Q = 0,26 \times \frac{1}{12} \times 0,5 = 0,010$$

TYPE	Flow Débit Förderstrom	12 V	24 V
0025	0,085	0,083	
0050	0,13	0,085	
0075	0,195	0,098	
0100	0,28	0,13	
0125	0,325	0,183	
0150	0,39	0,195	
0200	0,50	0,25	

S1 : Continuous Duty
S2 : Temporary Duty (min)
S3 : Periodical Intermittent Duty (10% of 10 min)
ID : Starting Amperage 12 V : 100 Amp.
24 V : 60 Amp.

Curves drawn with
a constant tension : Oil SHELL Tellus T46
Viscosity 46 cSt (±10%) at 40 °C

Test temperature : Oil 40 °C
Ambient 20 °C

Characteristics given as an indication

Reading example — — —

ELECTRO - HYDRAULIC CHARACTERISTICS

MOTOR TYPE **FE 12 - 24 V**
0,175 kW

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	FE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

DIRECT CURRENT ELECTRIC MOTOR
with permanents magnets

References : II Signe III Signe

12 V : 109 519 FE 1

24 V : 109 399 FE 2

NOMINAL POWER DUTY S3
12 and 24 V : 0,175 kW

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS
OF MINI POWER PACKS

MOTOR FE 12 V : 0,175 kW
24 V : 0,175 kW

PUMPS POMPES PUMPEN		12 V PRESSURE - PRESSION - DRUCK								24 V PRESSURE - PRESSION - DRUCK							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
		Q	I	S2	S3	Q	I	S2	S3	Q	I	S2	S3	Q	I	S2	S3
Q Flow in l/min Débit en l/min Fördermenge in l/min	0025	0,8	8,6	S1	S1	0,65	12	S1	S1	0,55	14	S1	S1	0,5	17	S1	S1
		0,4	20	9,5	37	0,35	22	8	30	0,3	26	5,5	19	0,2	34	2,8	8
		1,5	9	S1	S1	1,15	17	8	30	0,9	22	4	14	0,75	30	7,5	3
		0,65	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
I Amperage Intensité en Ampères Stromstärke in Ampere	0050	1,5	9	S1	S1	1,15	17	8	30	0,9	22	4	14	0,75	30	7,5	3
		0,65	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		2,35	9,4	S1	S1	1,4	22	8	30	1,15	27	4	14	0,85	35	7,5	3
		0,7	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
S1 Permanent Dauerbetrieb	0075	2,35	9,4	S1	S1	1,4	22	8	30	1,15	27	4	14	0,85	35	7,5	3
		0,7	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		3	9,7	S1	S1	1,75	28	4,7	17	1,25	35	1,6	10	1	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
S2 min	0100	3	9,7	S1	S1	1,75	28	4,7	17	1,25	35	1,6	10	1	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		3,5	10	S1	S1	1,9	34	3,2	10	1,3	48	0,1	0,1	1,3	23,5	0,1	0,1
		0,1	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
S3 % (10 min)	0125	3,5	10	S1	S1	1,9	34	3,2	10	1,3	48	0,1	0,1	1,3	23,5	0,1	0,1
		0,1	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		4	10,5	S1	S1	2	40	1,6	10	2	50	0,05	0,05	2	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
S3 % (10 min)	0150	4	10,5	S1	S1	2	40	1,6	10	2	50	0,05	0,05	2	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		5,5	12	S1	S1	2	50	0,05	0,05	5,5	25	0,05	0,05	2	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
S3 % (10 min)	0200	5,5	12	S1	S1	2	50	0,05	0,05	5,5	25	0,05	0,05	2	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8
		6	12	S1	S1	2	50	0,05	0,05	6	25	0,05	0,05	2	50	0,05	0,05
		0,05	20	9,5	37	0,55	22	8	30	0,45	26	5,5	19	0,45	34	2,8	8

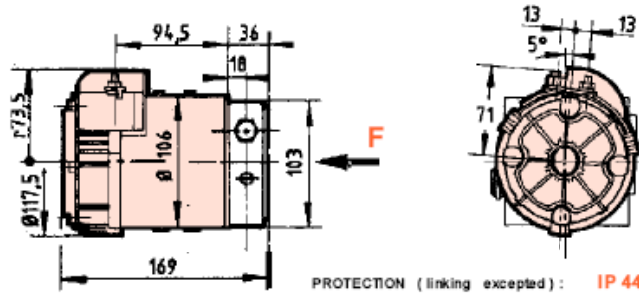
DIRECT CURRENT

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
		Sign Signe Zeichen		Sign Signe Zeichen									
		01 KE		C	T								

(F.T R 0026)

MOTOR TYPE DIRECT CURRENT (Sign - Signe - Zeichen II - III - IV)

PUMP TYPE (Sign - Signe - Zeichen I - V)



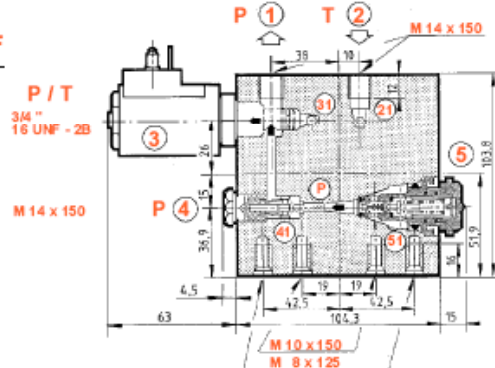
PROTECTION (linking excepted) : **IP 44**

CODE	VOLTAGE	MOTOR REFERENCE	NOMINAL POWER S1	TERMINALS	MASS of MOTOR
CODE	TENSION	REFERENCE MOTEUR	PUISSANCE NOM. S1	BORNES	MASSE du MOTEUR
KODE	SPANNUNG	MOTOR REFERENZ	NENNLEISTUNG S1	E. ANSCHLÜSSE	MASSSE von MOTOR
KE2	24 V	111 048	0,6 kW	\oplus M 6 x 100	3,4 Kg
KE4	48 V	111 049	0,6 kW	\ominus M 8 x 125	

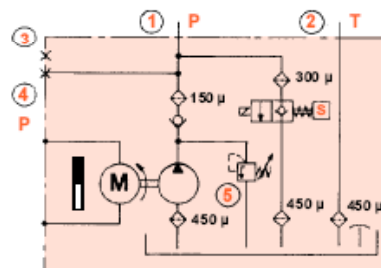
Motors with brush wear indicator (Damaged brush sets, contact with \odot)

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2	0,12

VIEW **F**



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see page 134)

CONNECTION : Bell housings - Couplings
- Interfaces

ELECTRIC CONNECTION : Relay - Braid
- Collars

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :
Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4/2 Ways Valves - Manifolds -
Check Valves (VAR) -
Mechanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompressure Switch

VARIOUS ACCESSORIES : Cowling -
Flange

MICRO POWER - PACKS DIRECT CURRENT

TYPE **KE** **24 V : 0,6 kW**
48 V : 0,6 kW DUTY **S1**

DIRECT CURRENT

CODIFICATION

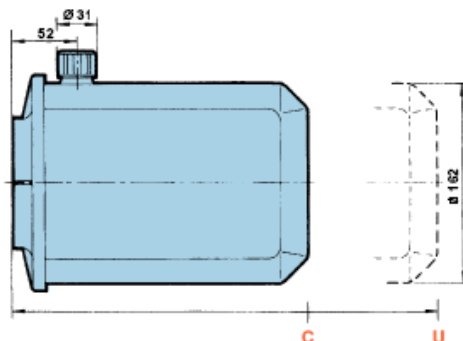
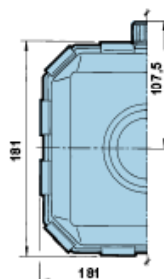
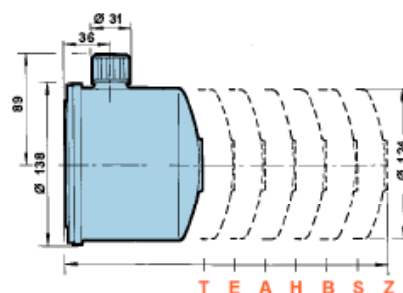
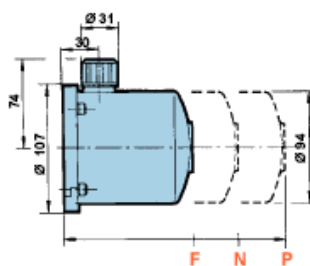
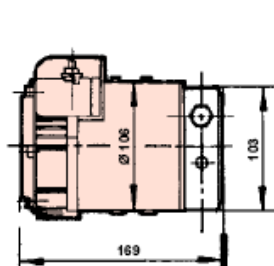
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	KE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN 1 - 3 - 4 - 5		POSITION POSITION LAGE 2	DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L	0,5 L			110
W	0,75 L	0,7 L		0,6 L	150
P	1 L	0,9 L		0,8 L	190
T	1,1 L	1,1 L		0,7 L	111
E	1,5 L	1,4 L		1 L	148
A	2 L	2 L		1,4 L	193,5
H	2,5 L	2,4 L		2 L	244
■ B	3 L			2,3 L	284,5
■ S	4 L			3,4 L	390
■ Z	6 L			5,3 L	606
C	5 L	4,7 L		3,8 L	242
■ U	6 L			5 L	297

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS DIRECT CURRENT

TYPE

KE 24 V : 0,6 kW
48 V : 0,6 kW

DUTY

S1

JTEKT
HPI

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	KE	Sign Signe Zeichen	C	Sign Signe Zeichen	T								

(F.T R 0026)

DIRECT CURRENT MOTOR **0,6 kW**
NOMINAL POWER
S1

Reference
111 048

Code **KE** **2**

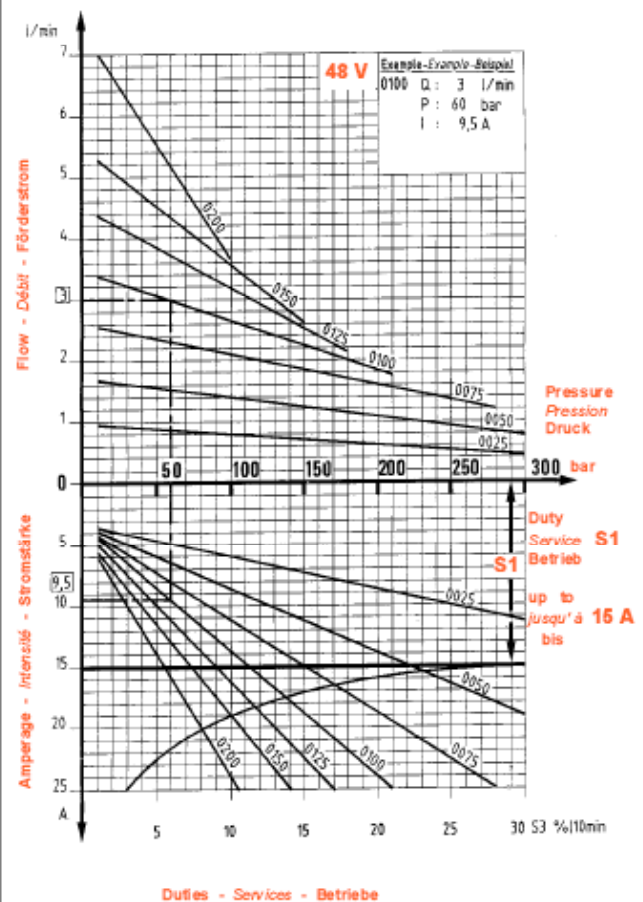
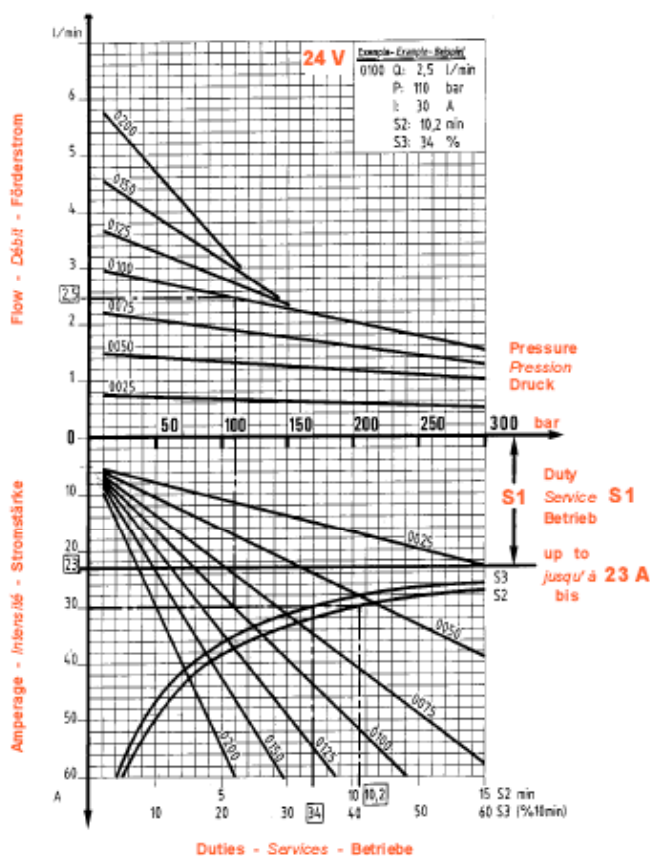
II	III
Sign Signe Zeichen	Sign Signe Zeichen

DIRECT CURRENT MOTOR **0,6 kW**
NOMINAL POWER
S1

Reference
111 049

Code **KE** **4**

II	III
Sign Signe Zeichen	Sign Signe Zeichen



S1 : Continuous Duty
S2 : Temporary Duty (min)
S3 : Periodical Intermittent Duty (10% of 10 min)

ID : Starting Amperage 24 V : 460 Amp.
48 V : 380 Amp.

Curves drawn with
a constant tension : Oil SHELL Tellus T46
Viscosity 46 cSt (± 10%) at 40 °C

Test temperature : Oil 40 °C
Ambient 20 °C

Characteristics given as an indication

Reading example — — —

ELECTRO - HYDRAULIC CHARACTERISTICS

MOTOR TYPE **KE** **24 V : 0,6 kW** DUTY **S1**
48 V : 0,6 kW

JTEKT
HPI

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	KE	Sign Zeichen	C	Sign Zeichen	T			Sign Zeichen	Sign Zeichen				

(F.T R 0026)

DIRECT CURRENT ELECTRIC MOTOR
with permanents magnets with
brush wear indicator

References :

24 V : 111 048 KE 2

48 V : 111 049 KE 4

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS
OF MINI POWER PACKS

MOTOR KE 24 V : 0,6 kW
48 V : 0,6 kW

DUTY S1

	PUMPS POMPES PUMPEN	24 V PRESSURE - PRESSION - DRUCK								48 V PRESSURE - PRESSION - DRUCK								
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	
		Q	I	S1	S1	S1	S1	S1	S1	Q	I	S1	S1	S1	S1	S1	S1	
Q Flow in l/min Débit en l/min Fördermenge in l/min	0025	Q	0,8	0,75	0,7	0,65	0,6	0,55	0,5	0,45	1	0,95	0,8	0,7	0,65	0,6	0,55	0,5
		I	7,5	10	13	15,5	17	18	19,5	21	3,4	4,7	6	7,3	8	8,7	9,2	10
		S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1	S1
	0050	Q	1,7	1,55	1,4	1,2	1,15	1,1	1	0,9	1,7	1,55	1,4	1,25	1,15	1,1	1	0,9
		I	7,7	12,5	18	23	25,5	28,5	31	34	3,6	6	8,6	11,2	12,5	14	15	16,5
		S1	S1	S1	S1	S1	S1				S1	S1	S1	S1	S1	S1	S1	
	0075	Q	2,5	2,3	2,05	1,8	1,7	1,6	1,5	1,45	2,6	2,35	2,1	1,85	1,7	1,6	1,5	1,35
		I	8	15	23	34	34	38	42	45,5	3,8	7,3	11,2	15	17	19	20,8	22,6
		S1	S1	S1	S1	S1					S1	S1	S1	S1				
0100	Q	3,35	3	2,65	2,25	2	1,85				3,4	3,1	2,65	2,25	2,05	1,8		
	I	8,5	18	28	38	42,5	48				4	8,6	13,8	19	20,5	24		
	S1	S1	S1	S1					S1	S1	S1							
0125	Q	4,3	3,75	3,1	2,55	2,2				4,5	3,8	3,2	2,5	2,2				
	I	8,8	20	38	43	49				4,2	10	16,2	22,5	25				
	S1	S1	S1					S1	S1									
0150	Q	5,5	4,5	3,5					5,4	4,5	3,55							
	I	9	23,5	39					5	11,8	19							
	S1	S1	S1					S1	S1									
0200	Q	7	5,5	3,8					7,2	5,5	3,6							
	I	10,5	28	58					5	14	24							
	S1	S1	S1					S1	S1									
I Amperage Intensité en Amperes Stromstärke in Ampere	S1 Permanent Permanent Dauerbetrieb	Q																
		I																
		S1																

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	HE	Sign Signe Zeichen	C	Sign Signe Zeichen	T								

(F.T R 0026)

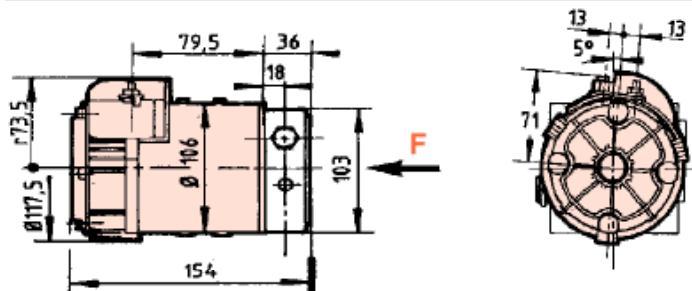
MOTOR TYPE

DIRECT CURRENT

(Sign - Signe - Zeichen II - III - IV)

PUMP TYPE

(Sign - Signe - Zeichen I - V)

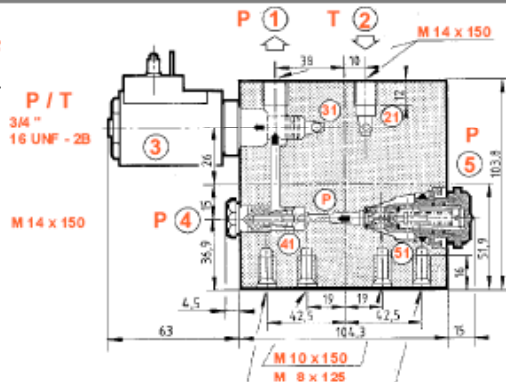


PROTECTION (linking excepted) : IP 44

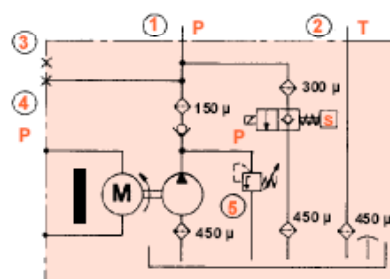
CODE	VOLTAGE	MOTOR REFERENCE	NOMINAL POWER S3 10 %	TERMINALS	MASS of MOTOR
CODE	TENSION	REFERENCE MOTEUR	PUISSANCE NOM. S3 10 %	BORNES	MASSE du MOTEUR
KODE	SPANNUNG	MOTOR REFERENZ	NENNLEISTUNG S3 10 %	E. ANSCHLÜSSE	MASSE von MOTOR
HE1	12 V	109 510	0,8 kW	M 6 x 100	3,25 Kg
HE2	24 V	109 500	1 kW	M 8 x 125	

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2	0,12

VIEW F



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see page 134)

CONNECTION: Bell housings - Couplings
- Interfaces

ELECTRIC CONNECTION: Relay - Braid
- Collars

HYDRAULIC CONNECTION: Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION:
Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4/2 Ways Valves - Manifolds -
Check Valves (VAR) -
Mechanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompressure Switch

VARIOUS ACCESSORIES: Cowling -
Flange

MICRO POWER - PACKS

DIRECT CURRENT

TYPE HE 12 V : 0,8 kW
24 V : 1 kW

DIRECT CURRENT

CODIFICATION

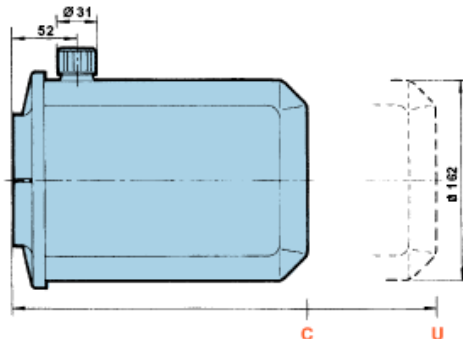
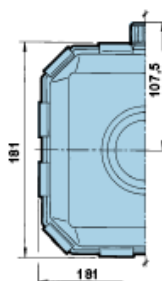
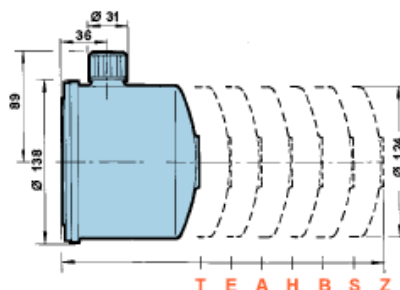
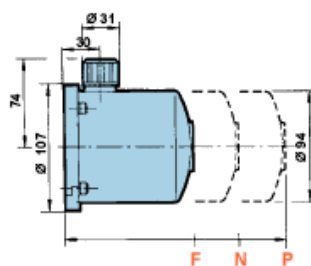
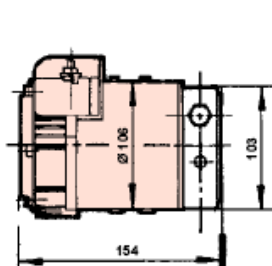
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	HE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN 1 - 3 - 4 - 5		POSITION POSITION LAGE 2	DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L	0,5 L			110
W	0,75 L	0,7 L	0,6 L		150
P	1 L	0,9 L	0,8 L		190
T	1,1 L	1,1 L	0,7 L		111
E	1,5 L	1,4 L	1 L		148
A	2 L	2 L	1,4 L		193,5
H	2,5 L	2,4 L	2 L		244
■ B	3 L		2,3 L		284,5
■ S	4 L		3,4 L		390
■ Z	6 L		5,3 L		606
C	5 L	4,7 L	3,8 L		242
■ U	6 L		5 L		297

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS DIRECT CURRENT

TYPE

HE 12 V: 0,8 kW
24 V: 1 kW

JTEKT


DIRECT CURRENT

CODIFICATION

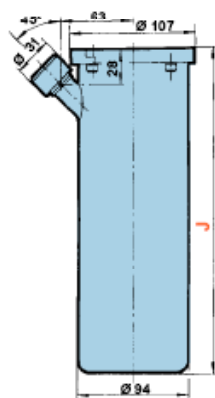
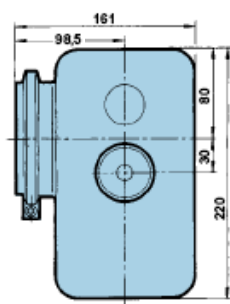
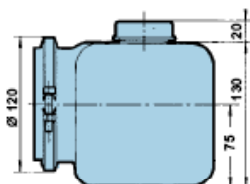
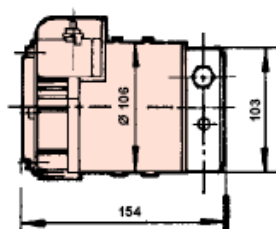
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	HE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN		POSITION POSITION LAGE	
CODE CODE KODE	TYPE TYPE TYP	1	3 - 4 - 5	2	
■ J	1,7 L	1,1 L	1,28 L		
▲ M	3,3 L	2,6 L			

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS DIRECT CURRENT

TYPE HE 12 V : 0,8 kW
24 V : 1 kW

JTEKT
HPI

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	HE	Signe Zeichen	C	Signe Zeichen	T								

(F.T R 0026)

DIRECT CURRENT MOTOR 0,8 kW
NOMINAL POWER
S3 (10 % of 10 min)

Reference
109 510

Code **HE** **1**

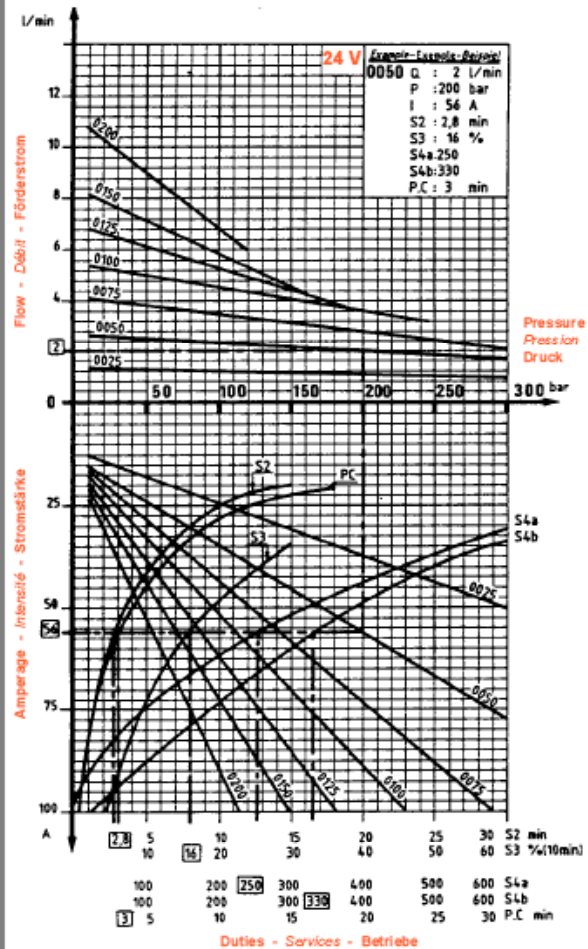
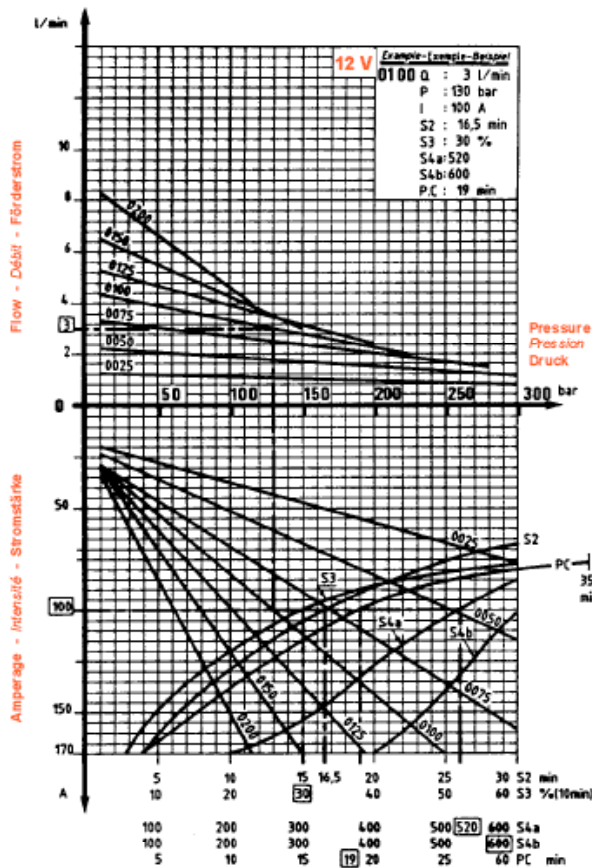
II	III
Signe	Signe
Zeichen	Zeichen

DIRECT CURRENT MOTOR 1 kW
NOMINAL POWER
S3 (10 % of 10 min)

Reference
109 500

Code **HE** **2**

II	III
Signe	Signe
Zeichen	Zeichen



S1 : Continuous Duty
S2 : Temporary Duty (min)
S3 : Periodical Intermittent Duty (10% of 10 min)
S4a - S4b : Intermittent Starting Duty

P.C : Critical Moment (min)
ID : Starting Amperage 12 V : 300 Amp.
24 V : 320 Amp.

Curves drawn with
a constant tension : Oil SHELL Tellus T46
Viscosity 46 cSt (± 10%) at 40 °C

Test temperature : Oil 40 °C
Ambient 20 °C

Characteristics given as an indication

Reading example 

ELECTRO - HYDRAULIC CHARACTERISTICS

MOTOR TYPE **HE** **12 V : 0,8 kW**
24 V : 1 kW

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	HE	Signe Zeichen	C	Signe Zeichen	T			Signe Zeichen	Signe Zeichen				

(F.T R 0026)

DIRECT CURRENT ELECTRIC MOTOR
with permanents magnets

References :

II Signe III Signe

12 V : 109 510

HE 1

24 V : 109 500

HE 2

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS
OF MICRO POWER PACKSMOTOR HE 12 V : 0,8 kW
24 V : 1 kW

	PUMPS POMPES PUMPEN	12 V PRESSURE - PRESSION - DRUCK								24 V PRESSURE - PRESSION - DRUCK							
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI
		Q	I	S2	S3	S4a	S4b	PC		Q	I	S2	S3	S4a	S4b	PC	
Q Flow in l / min Débit en l / min Fördermenge in l / min	0025	1,2	1,1	1	0,98	0,95	0,9	0,85	0,8	1,65	1,3	1,15	1,1	1,08	1,05	1	1
		18	28	38	48	54	60	64	70	12	18	25	31	34	37,5	40	43
		30	30	30	30	30	30	30	30	15	15	10,5	7,8	6,7	6,2	5,4	4,8
		60	60	60	60	60	60	60	54	30	30	30	30	30	28	25,5	23
		600	600	600	600	600	600	600	600	600	600	600	600	550	480	450	410
I Amperage Intensité en Ampères Stromstärke in Ampere	0050	35	35	35	35	35	35	35	35	18	18	13	9	7,7	6,7	6	5,4
		2,3	2,05	1,9	1,7	1,6	1,5	1,4	1,3	2,6	2,45	2,3	2,15	2,05	2	1,9	1,85
		22	37	54	70	77	85	94	100	13	23,5	35	45	50	56	61	66,5
		30	30	30	30	25,5	22	19	16,5	15	11	6,7	4,5	3,5	2,8	2,4	2
		60	60	60	60	60	46	36	30	30	30	30	22	19	16	13,5	11,5
S1 Permanent Dauerbetrieb	0075	600	600	600	600	600	600	560	520	600	600	540	390	315	230	205	160
		600	600	600	600	600	600	600	600	600	600	580	435	380	330	290	250
		35	35	35	35	35	26,5	22	19	18	13	7,4	5	4	3,5	2,7	2,2
		3,3	2,9	2,6	2,3	2,1	2	1,8	1,6	4,15	3,8	3,45	3,1	2,95	2,75	2,6	2,4
		25	46	69	91	102	114	125	136	14,5	28	42,5	58	65	73	80	88
S2 min	0100	30	30	29	19	15,7	13	10,8	8,6	15	8,7	4,8	2,7	2	1,4	1,2	0,8
		60	60	60	36	28	23	18	14	30	30	23,5	15	12	10	7,2	6,8
		600	600	600	560	510	450	410	370	600	580	410	235	170	110	65	30
		600	600	600	600	565	535	510	510	600	600	450	315	255	200	150	115
		35	35	35	22	18,2	15,4	12,5	10,5	18	8,2	5,3	3	2,2	1,5	1,15	0,9
S3 % (10 min)	0125	4,3	3,9	3,4	2,85	2,6	2,3	2		5,5	5	4,55	4,1	3,85	3,6	3,35	
		26	53	87	112	126	149	156		15	32	50	70	78,5	88	97	
		30	30	22,5	13,6	10,5	7,7	5,6		15	7,2	3,5	1,7	1,2	0,7	0,6	
		60	60	50	23,5	17	12	8		30	30	18	10,4	8,5	6,5	5	
		600	600	600	460	405	355	290		600	580	300	130	75	28	5	
S4a Number of start / hour 1 sec. work 1 sec. stop during 20 sec. Nb de démarrage / h 1 sec. travail 1 sec. arrêt Anzahl der Anläufe / h 1 Sek. Arbeit 1 Sek. Stillstand während 20 Sek.	0150	600	600	600	570	535	500	450		600	600	370	220	160	95	35	
		600	600	600	570	535	500	450		600	600	370	220	160	95	35	
		35	35	26	15,6	12,5	8,6	6,4		18	8,2	4	1,8	1,3	0,9	0,8	
		5,4	4,7	3,9	3,15	2,7				6,9	6,15	5,3	4,45	4			
		26,5	62	100	138	157				15,5	37	61	85	96			
S4b Continuous working breaking point (min) Point critique en fonctionnement interrompu (min) Kritischer Punkt bei durchgehendem Betrieb	0200	30	30	16,5	8,5	5,5				15	5,8	2,5	0,8	0,7			
		60	60	30	13,2	8				30	27	13,5	7,2	5,5			
		600	600	520	370	290				600	480	200	40	5			
		600	600	600	510	450				600	515	280	120	50			
		35	35	19	10	6,5				18	6,5	2,7	1	0,9			

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	AE	Sign Signe Zeichen	C	Sign Signe Zeichen	T								

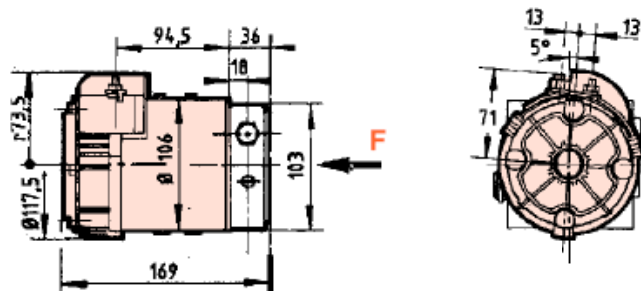
MOTOR TYPE

DIRECT CURRENT



(Sign - Signe - Zeichen II - III - IV)

PUMP TYPE

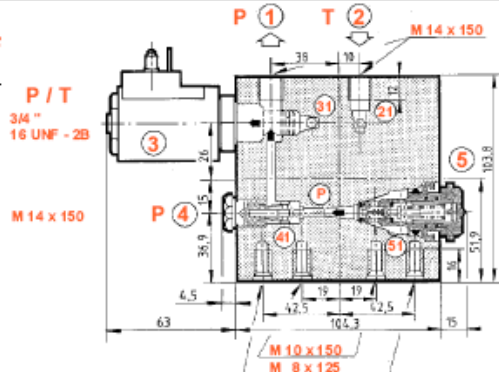
(Sign - Signe - Zeichen I - V)



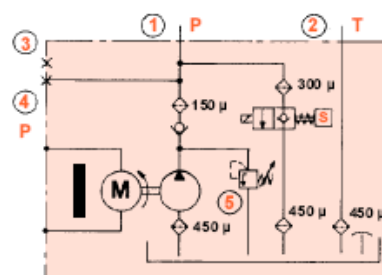
PROTECTION (linking excepted) : IP 44

CODE	VOLTAGE	MOTOR REFERENCE	NOMINAL POWER S3 10 %	TERMINALS	MASS of MOTOR
CODE	TENSION	REFERENCE MOTEUR	PUISSANCE NOM. S3 10 %	BORNES	MASSE du MOTEUR
KODE	SPANNUNG	MOTOR REFERENZ	NENNLEISTUNG S3 10 %	E. ANSCHLÜSSE	MASSE von MOTOR
AE1	12 V	109 511	1,1 kW	 M 6 x 100	3,4 Kg
AE2	24 V	109 512	1,2 kW	 M 8 x 125	

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacit�	
	cm 3 / t	cubic / inch
TYP	F�rdervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2	0,12

VIEW **F**

Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see page 134)

CONNECTION : Bell housings - Couplings
- Interfaces

ELECTRIC CONNECTION: Relay - Braid - Collars

HYDRAULIC CONNECTION : Adaptors - Pressure Port Adaptors

DISTRIBUTION and REGULATION:
 Electro Poppet Valves (V.N.O - V.N.F -
 V.L.B) - 4/2 Ways Valves - Manifolds -
 Check Valves (VAR) -
 Mechanical Lowering Valve (VDM)
 Pressure Relief Valve (VLP)
 Flow Regulator - Hollow Screws
 Manual Decompress Switch

VARIOUS ACCESSORIES : Cowling -
Flange

MICRO POWER - PACKS DIRECT CURRENT

TYPE **AE** 12 V : 1,1 kW
24 V : 1,2 kW



DIRECT CURRENT

CODIFICATION

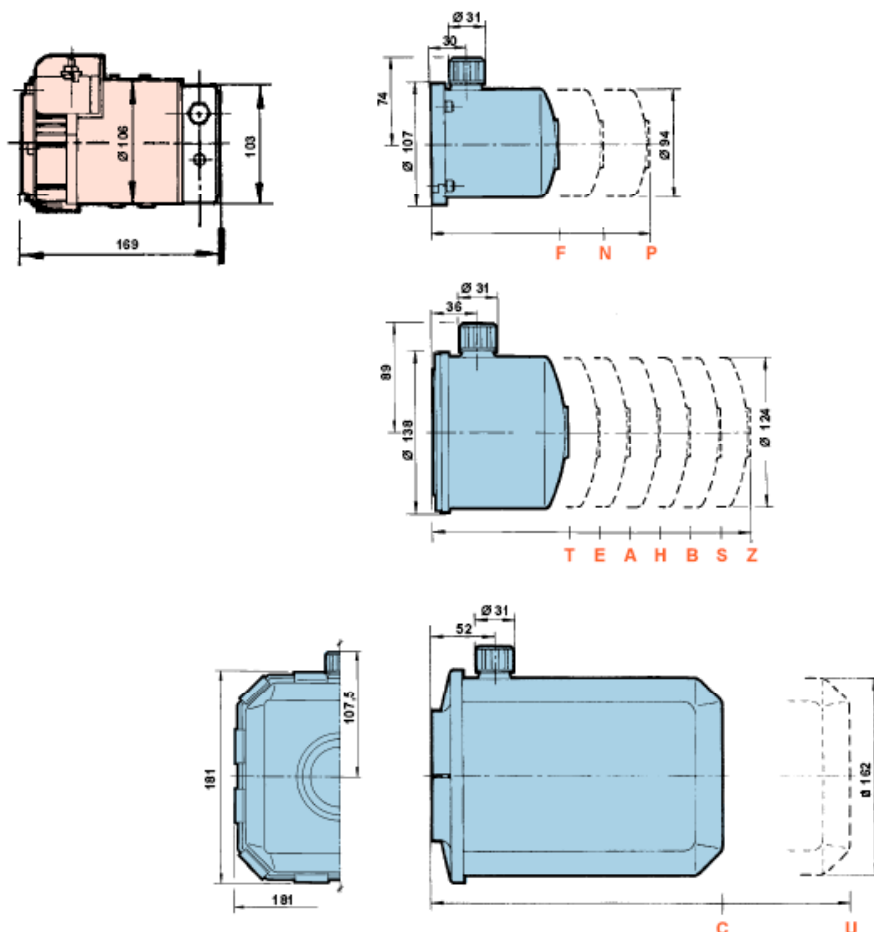
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	AE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN 1 - 3 - 4 - 5		POSITION POSITION LAGE 2	DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L	0,5 L			110
W	0,75 L	0,7 L	0,6 L		150
P	1 L	0,9 L	0,8 L		190
T	1,1 L	1,1 L	0,7 L		111
E	1,5 L	1,4 L	1 L		148
A	2 L	2 L	1,4 L		193,5
H	2,5 L	2,4 L	2 L		244
■ B	3 L		2,3 L		284,5
■ S	4 L		3,4 L		390
■ Z	6 L		5,3 L		606
C	5 L	4,7 L	3,8 L		242
■ U	6 L		5 L		297

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS

DIRECT CURRENT

TYPE

AE 12 V: 1,1 kW
24 V: 1,2 kW

JTEKT
HPI

DIRECT CURRENT

CODIFICATION

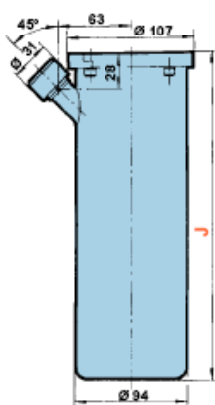
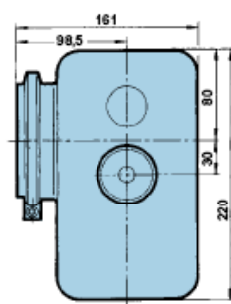
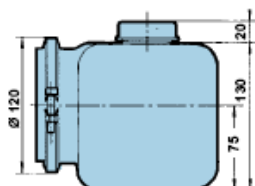
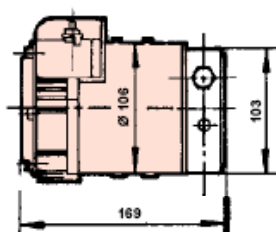
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	AE	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0026)

TYPE OF TANKS

(Full capacity)

(Sign - Signe - Zeichen VIII)



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS LAGEN		POSITION POSITION LAGE	DIMENSIONS DIMENSIONS MASSE
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT		2	
■ J	1,7 L	1,1 L	1,28 L		280
▲ M	3,3 L	2,6 L			

■ In vertical position only

▲ in horizontal position only

MICRO POWER - PACKS DIRECT CURRENT

 TYPE AE 12 V : 1,1 kW
 24 V : 1,2 kW

JTEKT
HPI

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	AE	Sign Signe Zeichen	C	Sign Signe Zeichen	T								

(F.T R 0026)

DIRECT CURRENT MOTOR **1,1 kW**
NOMINAL POWER
S3 (10 % of 10 min)

Reference
109 511

Code **AE** **1**

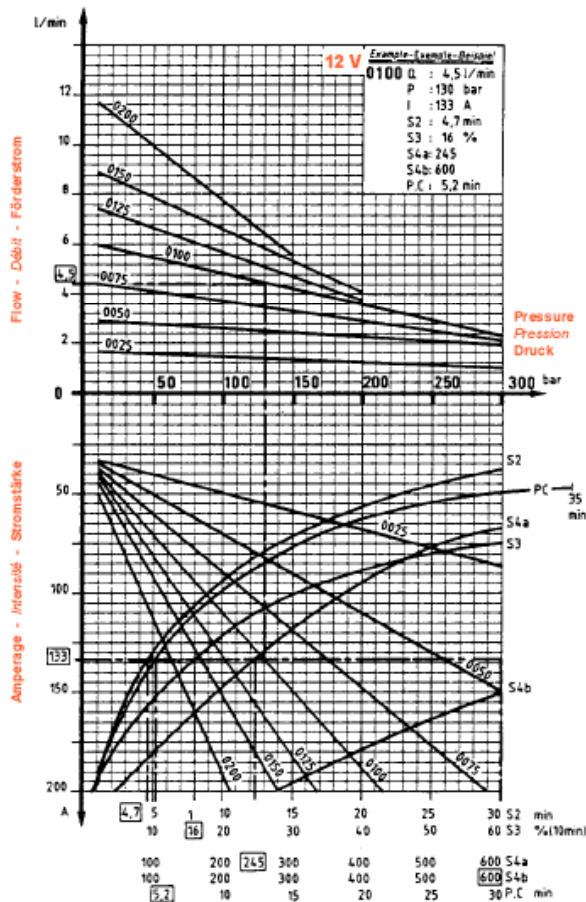
II	III
Sign Signe Zeichen	Sign Signe Zeichen

DIRECT CURRENT MOTOR **1,2 kW**
NOMINAL POWER
S3 (10 % of 10 min)

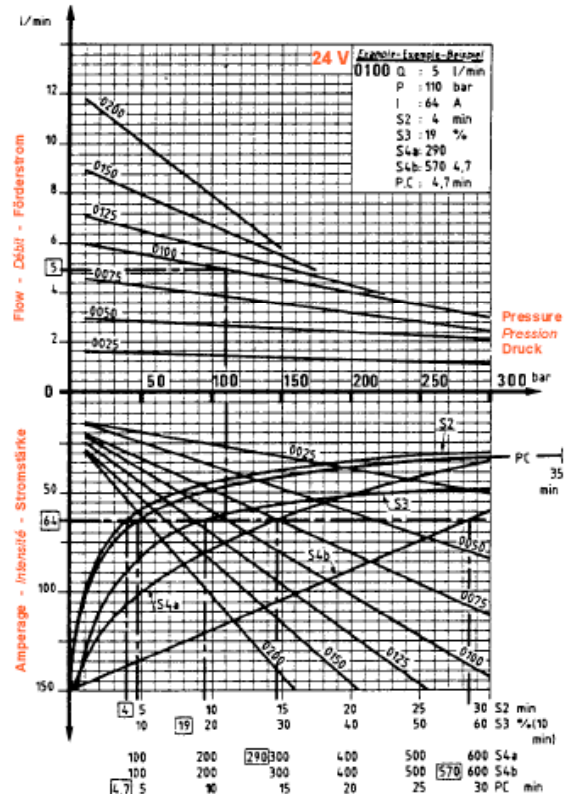
Reference
109 512

Code **AE** **2**

II	III
Sign Signe Zeichen	Sign Signe Zeichen



Duties - Services - Betriebe



Duties - Services - Betriebe

S1: Continuous Duty
S2: Temporary Duty (min)
S3: Periodical Intermittent Duty (10% of 10 min)
S4a - S4b: Intermittent Starting Duty

P.C.: Critical Moment (min)
I.D.: Starting Amperage 12 V: 460 Amp.
24 V: 380 Amp.

Curves drawn with
a constant tension: Oil SHELL Tellus T46
Viscosity 46 cSt ($\pm 10\%$) at 40 °C

Test temperature: Oil 40 °C
Ambient 20 °C

Characteristics given as an indication

Reading example

ELECTRO - HYDRAULIC CHARACTERISTICS

MOTOR TYPE **AE** **12 V : 1,1 kW**
24 V : 1,2 kW

DIRECT CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	AE	Signe Zeichen	C	Signe Zeichen	T			Signe Zeichen	Signe Zeichen				

(F.T R 0026)

DIRECT CURRENT ELECTRIC MOTOR
with permanents magnets

References :

II Signe

III Signe

12 V : 109 511

AE

1

24 V : 109 512

AE

2

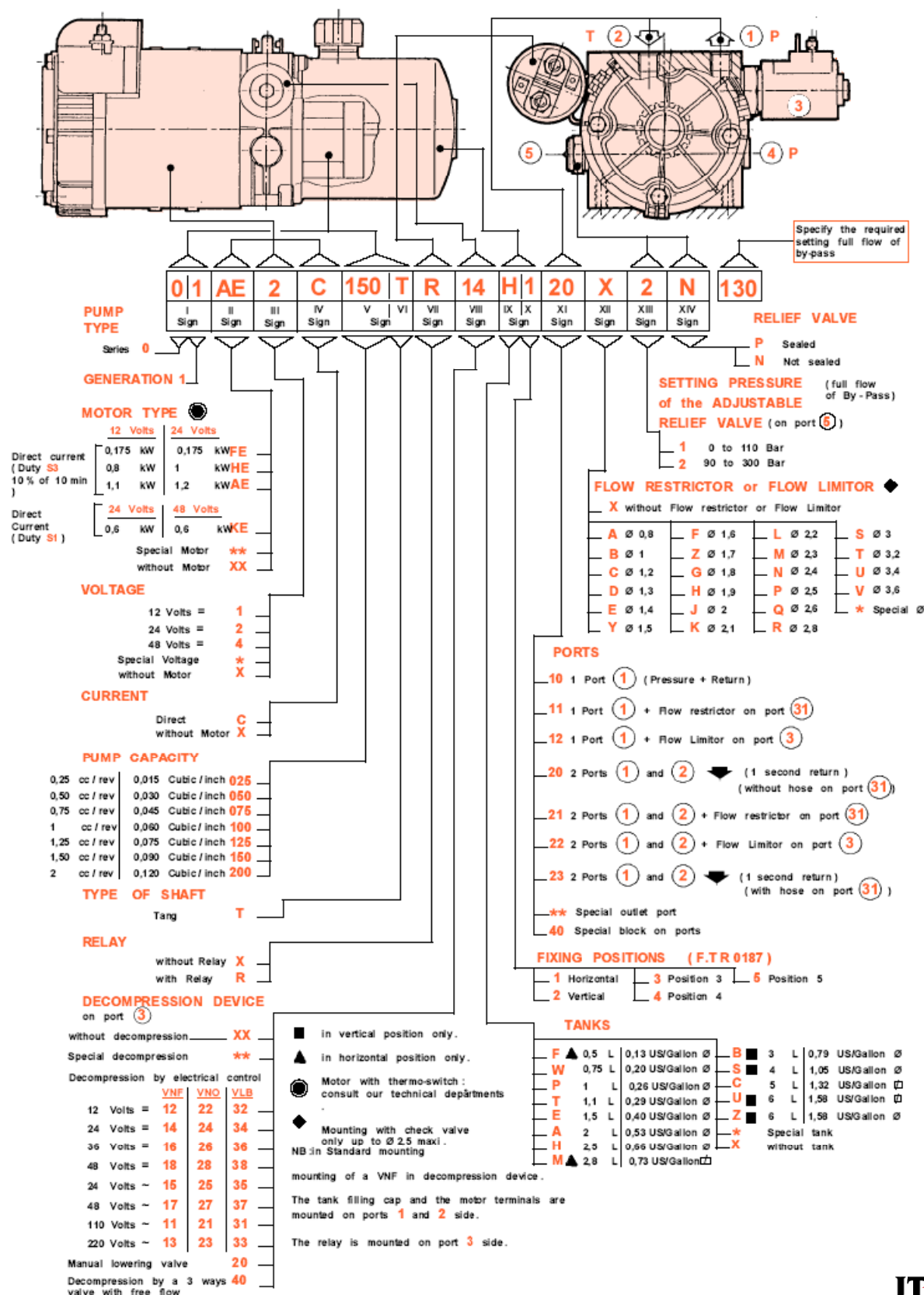
MAIN ELECTRO - HYDRAULIC CHARACTERISTICS
OF MICRO POWER PACKSMOTOR AE 12 V : 1,1 kW
24 V : 1,2 kW

PUMPS POMPES PUMPEN		12 V								24 V								
		PRESSURE - PRESSION - DRUCK								PRESSURE - PRESSION - DRUCK								
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	
Q Flow in l / min Débit en l / min Fördermenge in l / min	0025	Q	1,7	1,6	1,4	1,35	1,3	1,25	1,2	1,15	1,6	1,5	1,4	1,35	1,33	1,3	1,25	1,2
		I	30	40	48	58	64	68	73	77	14	19	26	32	35	38	41	44
		S2	30	28,5	24	21,5	20	15,5	14	13	30	30	30	23	19	15,5	11,5	10,5
		S3	60	60	60	60	60	60	60	54	30	30	30	30	60	60	60	60
		S4a	600	600	600	600	600	600	530	490	600	600	600	600	600	550	510	470
		S4b	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
		PC	35	35	30	22	20	18	16,5	15	35	35	35	29	22	18	14,5	12,5
	0050	Q	4,5	4,15	3,7	3,4	3,2	3	2,8	2,6	3	2,9	2,7	2,55	2,48	2,36	2,28	2,2
		I	33	60	90	118	133	148	162	176	16	25	37	49	55	60	65	70
		S2	30	24	15	10,5	9	7,5	6,5	5	30	30	17	8,5	6,5	4,8	3,7	2,8
		S3	60	60	60	39	31	25	20,5	17	60	60	60	60	35	26	17	14
		S4a	600	600	560	420	375	330	290	260	600	600	570	430	390	330	280	240
		S4b	600	600	600	600	600	600	600	600	600	600	600	600	600	600	560	520
		PC	35	29	17	12	9,5	8	6,9	5,5	35	35	20,5	10,2	7,6	5,7	4,5	3,5
I Amperage Intensité en Ampères Stromstärke in Ampere	0075	Q	4,5	4,15	3,7	3,4	3,2	3	2,8	2,6	4,6	4,25	3,8	3,45	3,3	3,1	3	2,8
		I	33	60	90	118	133	148	162	176	18	32	48	64	72	80	88	96
		S2	30	19	11	6,3	4,7	3,5	2,5	1,7	30	22	8	4	2,8	2	1,5	1
		S3	60	60	39	21	16	11,5	8	5	60	60	54	18	13,5	10,5	8	6,2
		S4a	600	600	420	300	230	200	160	115	600	600	420	290	230	190	150	115
		S4b	600	600	600	600	600	600	510	410	600	600	600	560	510	460	410	350
		PC	35	21,7	12	7	5,2	4	2,7	1,9	35	26	10	4,5	3,2	2,4	1,7	1,2
	0100	Q	6	5,6	4,8	4,2	3,8	3,55	3,2		6,1	5,65	5,1	4,5	4,25	3,9	3,8	3,5
		I	34	70	110	148	165	185	205		20	38	60	80	90	100	110	120
		S2	30	15	7,5	3,5	2,2	1,5	0,5		30	15	4,8	2	1,2	0,8	0,5	0,3
		S3	60	60	25	11,5	7	3,5	1		60	60	24	10,5	7,5	5,8	4	2,7
		S4a	600	600	335	200	140	80			600	540	330	190	135	95	60	40
		S4b	600	600	600	600	460	340			600	600	600	460	390	320	250	180
		PC	35	17,1	8	3,8	2,4	1,7			35	17	5,8	2,5	1,5	1,2	0,5	0,35
S1 Permanent Permanent Dauerbetrieb	0125	Q	7,6	6,8	5,6	4,7	4,2			7,6	6,6	5,8	5	4,7	4,3	3,8		
		I	35	82	133	183	208			22	46	72	96	108	120	132		
		S2	29	12,5	4,7	1,5	0,5			30	10	2,7	1	0,5	0,3	0,2		
		S3	60	48	16	3,5	1			60	60	14	6,5	4,2	3	1,5		
		S4a	600	470	255	100				600	460	250	115	75	40	20		
		S4b	600	600	600	380				600	600	520	350	275	180	100		
		PC	32,6	14,2	5,3	1,7				35	8	3,5	1,2	0,6	0,35	0,25		
	0150	Q	9,1	7,9	6,6	5,3					9,1	7,9	6,7	5,5	4,9			
		I	39	92	152	212					24	52	84	114	130			
		S2	28	10	3,2	0,5					30	6,5	1,7	0,3	0,1			
		S3	60	36	9,7	0,5					60	36	9	3,2	1,8			
		S4a	600	410	190						600	380	170	55	25			
		S4b	600	600	590						600	600	435	230	120			
		PC	32,6	11,2	3,5						35	8	2,1	0,35	0,25			
S2 min	0200	Q	12	9,9	7,7						12,1	10	7,8	5,8				
		I	40	112	190						28	62	100	140				
		S2	28	7	1,2						30	4,2	0,7	0,2				
		S3	60	23,5	3						60	20	6,5	1,3				
		S4a	600	320	75						600	290	20	10				
		S4b	600	600	330						600	570	90	40				
		PC	35	35	35						35	5	0,9	0,25				
	S3 % (10 min)	Q	12	9,9	7,7						12,1	10	7,8	5,8				
		I	40	112	190						28	62	100	140				
		S2	28	7	1,2						30	4,2	0,7	0,2				

Charts drawn with a constant tension

Oil SHELL Tellus T46
Viscosity 46 cSt (± 10 %) at 40 °C
Test temperature : Oil 40 °C
Ambient 20 °C


DIRECT CURRENT



MICRO POWER PACKS " CODING CHART "

DIRECT CURRENT VERSION 1G SERIES 0

ALTERNATING CURRENT

Three - Phase	Type Type Typ	Power <i>Puissance</i> Leistung		kW
		S1	S3	
	71	0,26	0,55	
		0,50	0,80	
			1,10	
	80	0,95		

Singlephase	Type Type Typ	Power <i>Puissance</i> Leistung		kW
		S1	S3	
	71		0,75	
	80	0,75	1,10	



ALTERNATING CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	T	X							

(F.T R 0180)

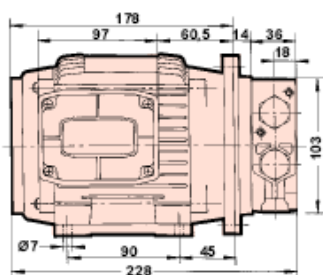
MOTOR TYPE

ALTERNATING CURRENT

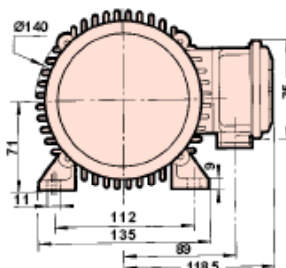
(Sign - Signe - Zeichen
II - III - IV)

PUMP TYPE

(Sign - Signe - Zeichen I - V)



F

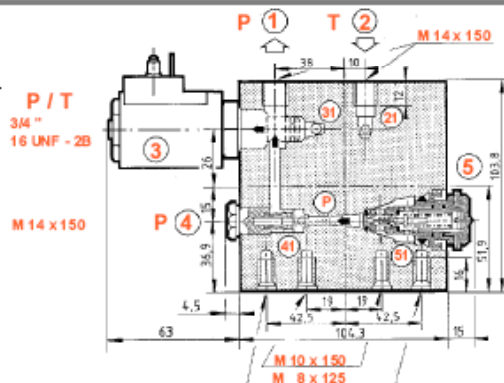


CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG kW	E.D	NOTA	MASSE Kg
NK 6	230/400	112 874	3000	0,55	S3	NV	4,4
NF 6	230/400	112 873	3000	0,80	S3	NV	6
NP 6	230/400	112 872	3000	1,10	S3	NV	6,9

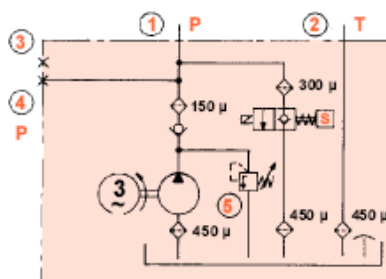
NV Not cooled
Non Ventilée
nicht belüftet

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW F



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see pages 049 and 154)

CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :

Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4/2 Ways Valves - Manifolds -
Check Valves (VAR) -
Méchanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompressure Switch

MICRO POWER - PACKS 1G

THREE - PHASE TYPE **71** DUTY **S3**

SHORT VERSION

JTEKT
HPI

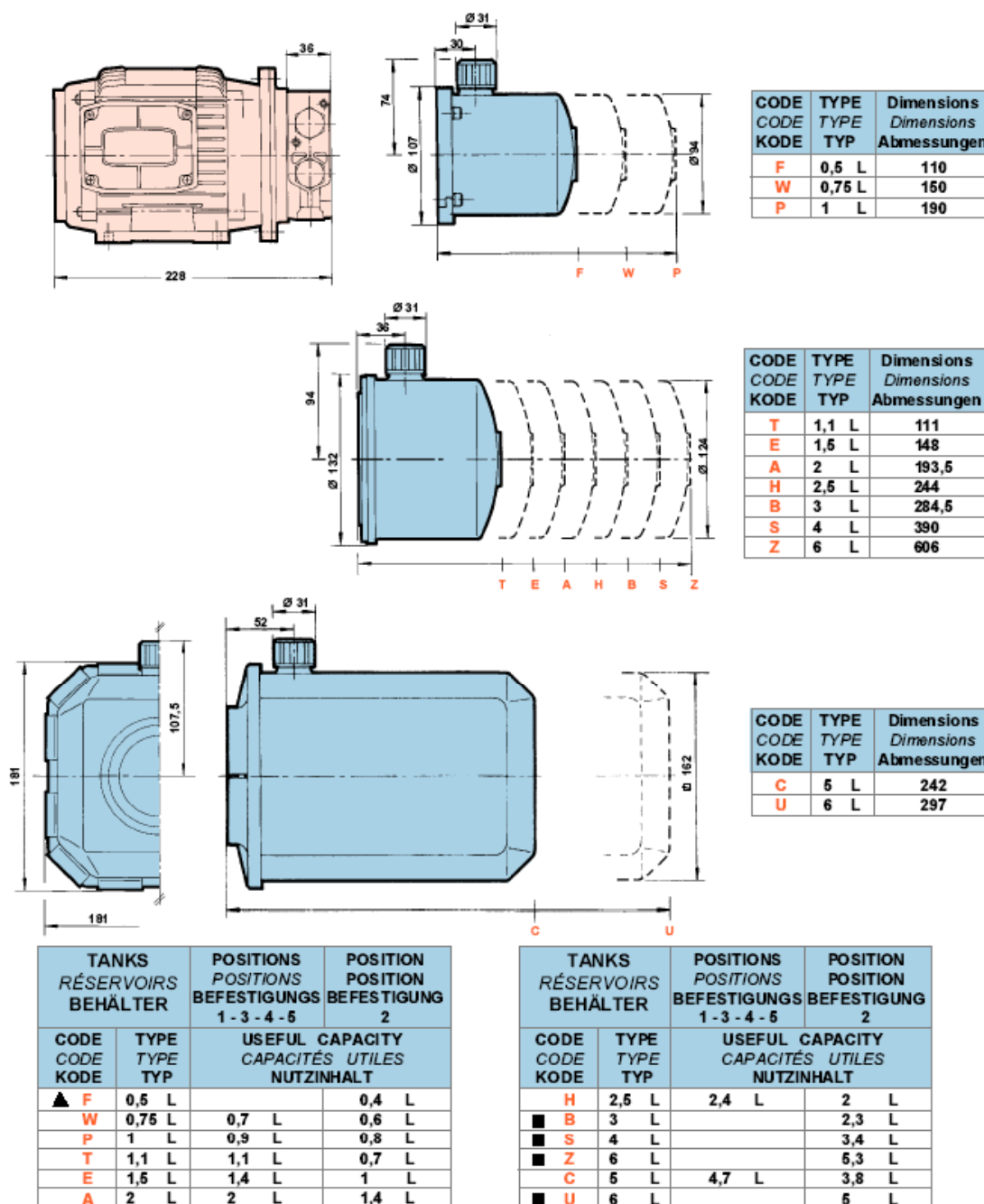
ALTERNATING CURRENT

CODIFICATION													
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	T	X							

(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



▲ In horizontal position only

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S3**

SHORT VERSION



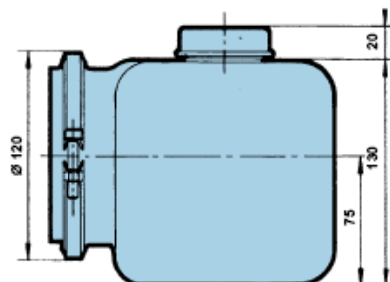
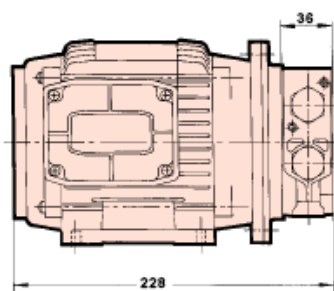
ALTERNATING CURRENT

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	T	X							

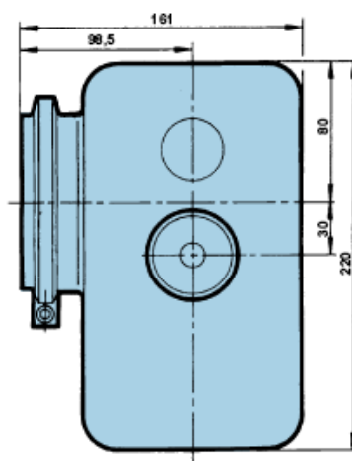
(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
M	2,8 L



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
■ M	2,8 L		2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S3**
SHORT VERSION

JTEKT
HPI

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	
	01	NK	6	T	Sign Signe Zeichen	T	X								(F.T R 0180)

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	
	01	NF	6	T	Sign Signe Zeichen	T	X								(F.T R 0180)

	PUMPS POMPES PUMPEN	PRESSURE - PRESSION - DRUCK									
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	280 bar
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	4060 PSI
Q Flow in l / min Débit en l / min Fördermenge in l / min	0025	Q	0,75	0,74	0,73	0,73	0,72	0,72	0,71	0,71	0,70
		I	1,00	1,05	1,10	1,12	1,15	1,17	1,20	1,22	1,25
		S3	50	50	50	50	50	50	50	50	50
		dBa	50	52	53	54	54	55	55	56	56
	0050	Q	1,50	1,45	1,43	1,42	1,41	1,40	1,38	1,35	1,32
		I	1,00	1,07	1,20	1,25	1,30	1,35	1,40	1,50	1,60
		S3	50	50	50	44	35	27	21	17	14
		dBa	52	54	55	56	56	57	57	58	59
I Amperage Intensité en Ampères Stromstärke in Ampere	0075	Q	2,25	2,18	2,10	2,05	2,00	1,95			
		I	1,00	1,09	1,30	1,40	1,50	1,60			
		S3	50	50	35	24	17	12			
		dBa	53	56	57	58	58	59			
	0100	Q	3,00	2,85	2,80	2,75					
		I	1,00	1,12	1,40	1,55					
		S3	50	50	22	14					
		dBa	55	59	60	61					
DUTIES SERVICES E.D	0125	Q	3,75	3,55	3,45						
		I	1,10	1,20	1,50						
		S3	50	44	14						
		dBa	57	61	61						
S3 % (10 min)	0150	Q	4,50	4,20	3,90						
		I	1,10	1,30	1,70						
		S3	50	35	10						
		dBa	58	62	63						
dBa Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	0200	Q	6,00	5,50							
		I	1,10	1,40							
		S3	50	21							
		dBa	59	63							

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF
MICRO POWER PACKS

ALTERNATING CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	NP	6	T	Sign Signe Zeichen	T	X							

(F.T R 0180)

PUMPS POMPES PUMPEN		PRESSURE - PRESSION - DRUCK										
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	280 bar	
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	4060 PSI	
Q Flow in l/min Débit en l/min Fördermenge in l/min	0025	Q	0,75	0,74	0,73	0,73	0,72	0,72	0,71	0,71	0,70	0,70
		I	1,10	1,15	1,20	1,22	1,25	1,27	1,30	1,32	1,35	1,40
		S3	50	50	50	50	50	50	50	50	50	50
		dBa	52	53	54	55	55	56	56	57	57	57
I Amperage Intensité en Ampères Stromstärke in Ampere	0050	Q	1,50	1,47	1,45	1,44	1,43	1,42	1,40	1,37	1,34	1,30
		I	1,10	1,17	1,30	1,35	1,40	1,45	1,50	1,60	1,70	1,80
		S3	50	50	50	50	50	43	38	32	27	21
		dBa	54	55	56	57	57	58	58	59	59	60
S3 % (10 min)	0075	Q	2,25	2,20	2,15	2,13	2,10	2,05	2,00	1,90	1,85	
		I	1,10	1,20	1,40	1,50	1,60	1,80	1,95	2,10	2,30	
		S3	50	50	50	39	32	24	19	15	11	
		dBa	56	57	58	59	59	60	61	62	63	
DUTIES SERVICES E.D	0100	Q	3,00	2,95	2,90	2,85	2,80	2,75	2,70			
		I	1,10	1,25	1,50	1,65	1,80	2,10	2,40			
		S3	50	50	38	28	20	14	10			
		dBa	58	60	61	62	62	63	64			
dBa Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	0125	Q	3,75	3,60	3,55	3,50	3,45					
		I	1,20	1,30	1,70	1,95	2,20					
		S3	50	50	28	18	12					
		dBa	60	62	62	63	64					
	0150	Q	4,50	4,30	4,10	4,00						
		I	1,20	1,40	1,90	2,20						
		S3	50	50	20	12						
		dBa	61	63	64	65						
	0200	Q	6,00	5,70	5,40							
		I	1,20	1,60	2,30							
		S3	50	37	10							
		dBa	62	64	66							

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF
MICRO POWER PACKS

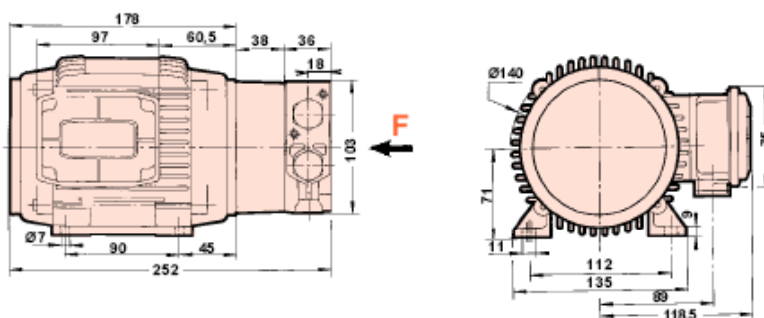
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

MOTOR TYPE
TYPE de MOTEUR
MOTOR TYP

ALTERNATING CURRENT (Sign - Signe - Zeichen
COURANT ALTERNATIF II - III - IV)
WECHSELSTROM

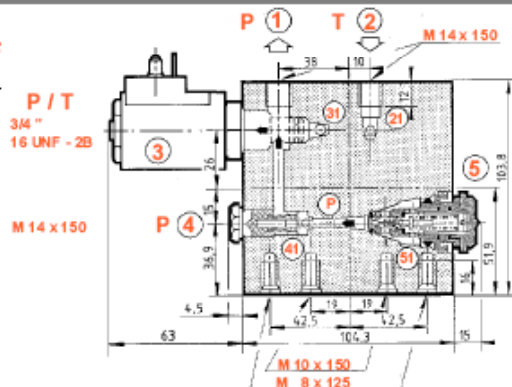
PUMP TYPE
TYPE de POMPE (Sign - Signe - Zeichen I - V)
PUMPE TYP



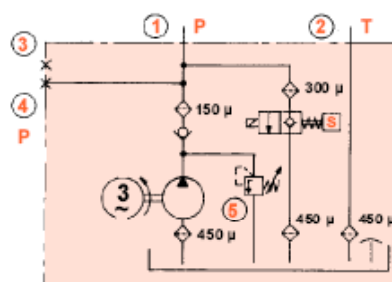
CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG kW	E.D	NOTA	MASSE Kg
NB 6	230/400	112 476	3000	0,55	S3	NV	4,4
NG 6	230/400	112 423	3000	0,80	S3	NV	6
NH 6	230/400	112 120	3000	1.10	S3	NV	6,9

NV Not cooled
Non Ventilé
nicht belüftet

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW
VUE F
ANSICHT

Basic hydraulic sketch of a MICRO POWER PACK
Schéma hydraulique de base d'une MICRO-CENTRALE
Grund-Hydraulikschemata eines MIKRO-AGGREGATS



CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :

Electro Poppet Valves (V.N.O - V.N.F - V.L.B) - 4/2 Ways Valves - Manifolds - Check Valves (VAR) - Mechanical Lowering Valve (VDM) Pressure Relief Valve (VLP) Flow Regulator - Hollow Screws Manual Decompressure Switch

MICRO POWER - PACKS 1G

THREE - PHASE TYPE **71** DUTY **S3**

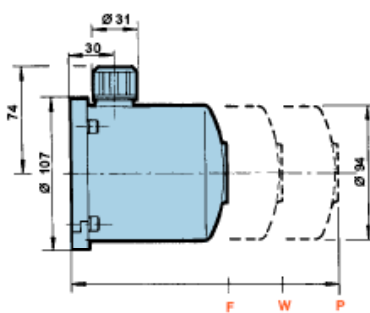
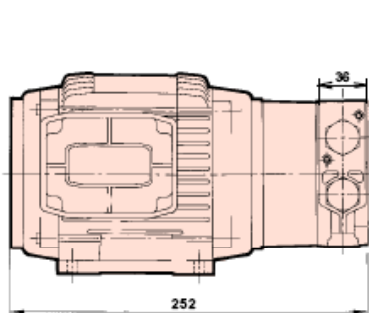


ALTERNATING CURRENT

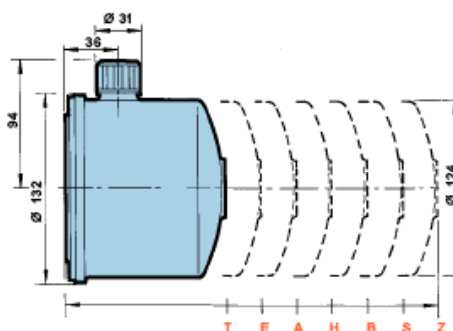
CODIFICATION															
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV		
01		Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							(F.T R 0180)	

TYPE of TANKS

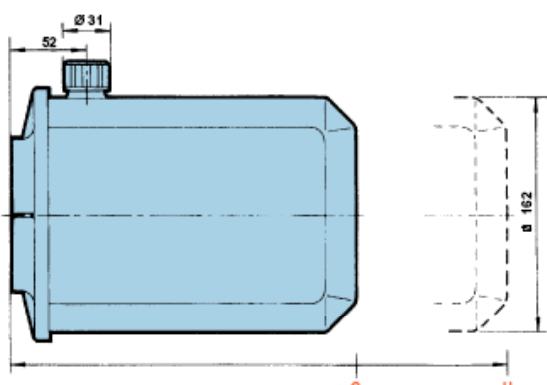
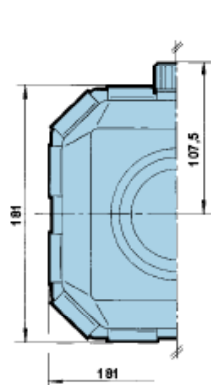
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	150
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5		POSITION POSITION BEFESTIGUNG 2	
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L			0,4	L
W	0,75 L		0,7 L		0,6 L
P	1 L		0,9 L		0,8 L
T	1,1 L		1,1 L		0,7 L
E	1,5 L		1,4 L		1 L
A	2 L		2 L		1,4 L

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5		POSITION POSITION BEFESTIGUNG 2	
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
H	2,5 L	2,4 L		2 L	
B	3 L			2,3 L	
S	4 L			3,4 L	
Z	6 L			5,3 L	
C	5 L	4,7 L		3,8 L	
U	6 L			5 L	

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S3**
JTEKT

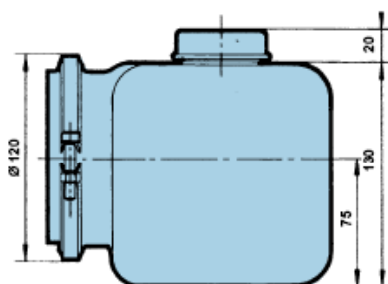
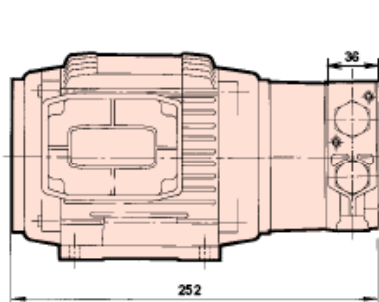

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

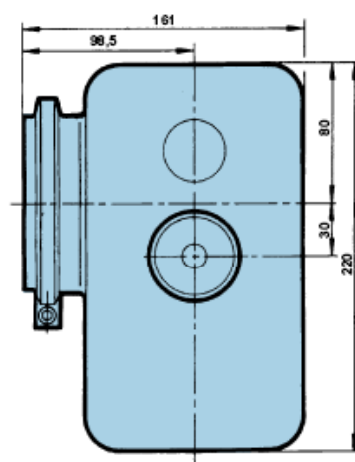
(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



TANKS	POSITIONS	POSITION
RÉSERVOIRS	POSITIONS	POSITION
BEHÄLTER	BEFESTIGUNGS	BEFESTIGUNG
	1 - 3 - 4 - 5	2
CODE	TYPE	USEFUL CAPACITY
CODE	TYPE	CAPACITÉS UTILES
KODE	TYP	NUTZINHALT
M	2,8 L	2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S3**

JTEKT
HPI

ALTERNATING CURRENT

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	
CODIFICATION	01	NB	6	T	Sign Signe Zeichen	C	X								(F.T R 0180)

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	
CODIFICATION	01	NG	6	T	Sign Signe Zeichen	C	X								(F.T R 0180)

PUMPS POMPES PUMPEN		PRESSURE - PRESSION - DRUCK									
		5 bar 72 PSI	50 bar 725 PSI	100 bar 1450 PSI	125 bar 1810 PSI	150 bar 2175 PSI	175 bar 2540 PSI	200 bar 2900 PSI	225 bar 3260 PSI	250 bar 3630 PSI	280 bar 4060 PSI
Q Flow in l/min Débit en l/min Fördermenge in l/min	0025	Q 0,75	0,74	0,73	0,73	0,72	0,72	0,71	0,71	0,70	0,70
		I 1,00	1,05	1,10	1,12	1,15	1,17	1,20	1,22	1,25	1,30
		S3 50	50	50	50	50	50	50	50	50	50
I Amperage Intensité en Ampères Stromstärke in Ampere	0050	dBa 50	52	53	54	54	55	55	56	56	56
		Q 1,50	1,45	1,43	1,42	1,41	1,40	1,38	1,35	1,32	1,28
		I 1,00	1,07	1,20	1,25	1,30	1,35	1,40	1,50	1,60	1,70
DUTIES SERVICES E.D	0075	S3 50	50	50	44	35	27	21	17	14	10
		dBa 52	54	55	56	56	57	57	58	58	59
		Q 2,25	2,18	2,10	2,05	2,00	1,95				
S3 % (10 min)	0100	I 1,00	1,09	1,30	1,40	1,50	1,60				
		S3 50	50	35	24	17	12				
		dBa 53	56	57	58	58	59				
dBa Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	0125	Q 3,00	2,85	2,80	2,75						
		I 1,00	1,12	1,40	1,55						
		S3 50	50	22	14						
	0150	dBa 55	59	60	61						
		Q 3,75	3,55	3,45							
		I 1,10	1,20	1,50							
	0200	S3 50	44	14							
		dBa 57	61	61							
		Q 4,50	4,20	3,90							
		I 1,10	1,30	1,70							
		S3 50	35	10							
		dBa 58	62	63							
		Q 6,00	5,50								
		I 1,10	1,40								
		S3 50	21								
		dBa 59	63								

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF
MICRO POWER PACKS

ALTERNATING CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	NH	6	T	Sign Signe Zeichen	C	X							

(F.T R 0180)

PUMPS POMPS PUMPEN		PRESSURE - PRESSION - DRUCK									
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	280 bar
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	4060 PSI
Q Flow in l/min Débit en l/min Fördermenge in l/min	0025	Q 0,75	0,74	0,73	0,73	0,72	0,72	0,71	0,71	0,70	0,70
		I 1,10	1,15	1,20	1,22	1,25	1,27	1,30	1,32	1,35	1,40
		S3 50	50	50	50	50	50	50	50	50	50
I Amperage Intensité en Ampères Stromstärke in Ampere	0050	dBa 52	53	54	55	55	56	56	57	57	57
		Q 1,50	1,47	1,45	1,44	1,43	1,42	1,40	1,37	1,34	1,30
		I 1,10	1,17	1,30	1,35	1,40	1,45	1,50	1,60	1,70	1,80
S3 % (10 min)	0075	S3 50	50	50	50	50	43	38	32	27	21
		dBa 54	55	56	57	57	58	58	59	59	60
		Q 2,25	2,20	2,15	2,13	2,10	2,05	2,00	1,90	1,85	
dBa Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	0100	I 1,10	1,20	1,40	1,50	1,60	1,80	1,95	2,10	2,30	
		S3 50	50	50	39	32	24	19	15	11	
		dBa 56	57	58	59	59	60	61	62	63	
DUTIES SERVICES ED	0125	Q 3,00	2,95	2,90	2,85	2,80	2,75	2,70			
		I 1,10	1,25	1,50	1,65	1,80	2,10	2,40			
		S3 50	50	38	28	20	14	10			
	0150	dBa 58	60	61	62	62	63	64			
		Q 3,75	3,60	3,55	3,50	3,45					
		I 1,20	1,30	1,70	1,95	2,20					
	0200	S3 50	50	28	18	12					
		dBa 60	62	62	63	64					
		Q 4,50	4,30	4,10	4,00						
		I 1,20	1,40	1,90	2,20						
		S3 50	50	20	12						
		dBa 61	63	64	65						
		Q 6,00	5,70	5,40							
		I 1,20	1,60	2,30							
		S3 50	37	10							
		dBa 62	64	66							

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF
MICRO POWER PACKS

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

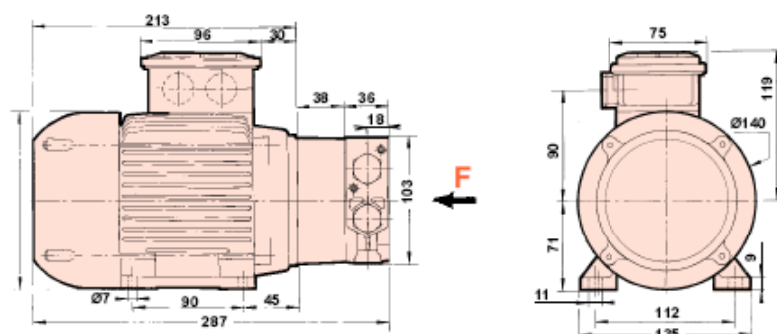
MOTOR TYPE

ALTERNATING CURRENT

(Sign - Signe - Zeichen
II - III - IV)

PUMP TYPE

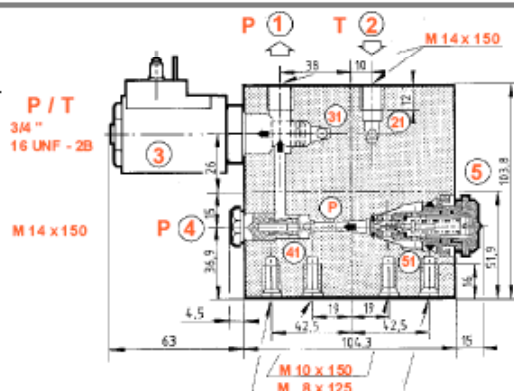
(Sign - Sione - Zeichen I - V)



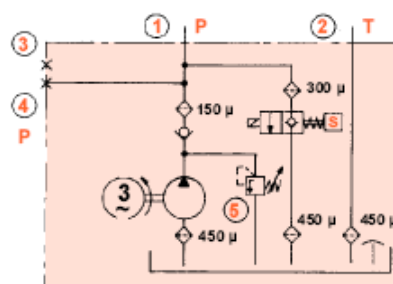
CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAH U / min	LEISTUNG kW	E.D	NOTA	MASSE Kg
NA 6	230/400	112 484	1500	0,26	S1	V	5,7
NC 6	230/400	112 485	1500	0,50	S1	V	7,3

V Cooled
Ventilée
beüftet

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW **F**

Basic hydraulic sketch of a MICRO POWER PACK



CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :

DISTRIBUTION AND REGULATION -
Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4/2 Ways Valves - Manifolds -
Check Valves (VAR) -
Mechanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompressure Switch

MICRO POWER - PACKS 1G

THREE - PHASE TYPE **71** DUTY **S1**



ALTERNATING CURRENT

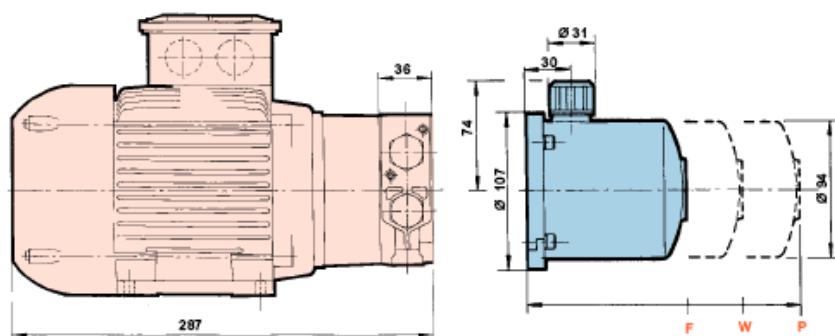
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

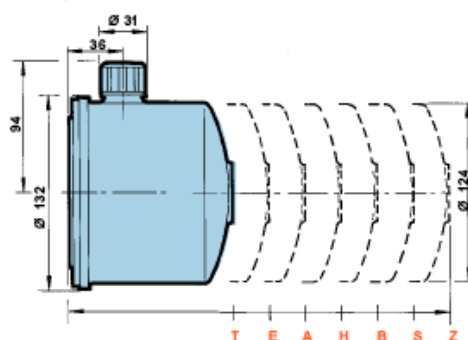
(F.T.R 0180)

TYPE of TANKS

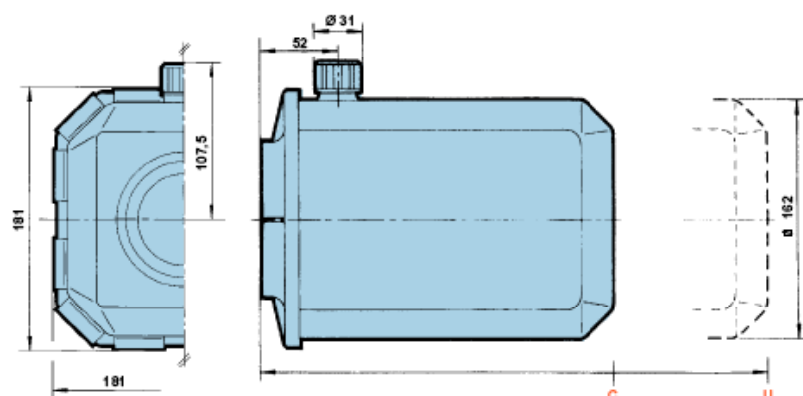
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	150
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS		POSITION POSITION BEFESTIGUNG	
		1 - 3 - 4 - 5		2	
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L				0,4 L
W	0,75 L		0,7 L		0,6 L
P	1 L		0,9 L		0,8 L
T	1,1 L		1,1 L		0,7 L
E	1,5 L		1,4 L		1 L
A	2 L		2 L		1,4 L

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS		POSITION POSITION BEFESTIGUNG	
		1 - 3 - 4 - 5		2	
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
H	2,5 L		2,4 L		2 L
B	3 L				2,3 L
S	4 L				3,4 L
Z	6 L				5,3 L
C	5 L		4,7 L		3,8 L
U	6 L				5 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S1**

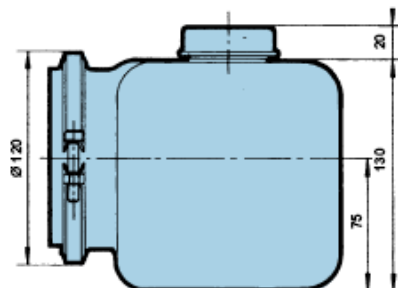
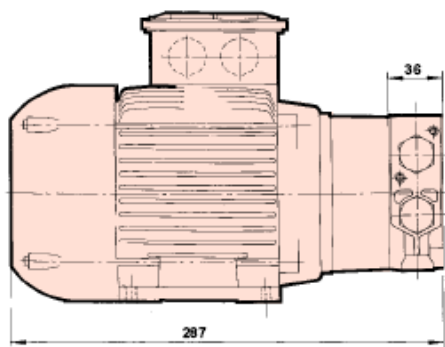

ALTERNATING CURRENT

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

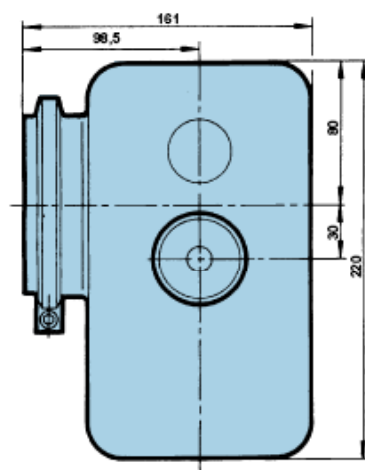
(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
■ M	2,8 L		2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **71** DUTY **S1**

JTEKT
HPI

ALTERNATING CURRENT

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	PC	6	T	Sign Signe Zeichen	C	X							

(F.T R 0180)

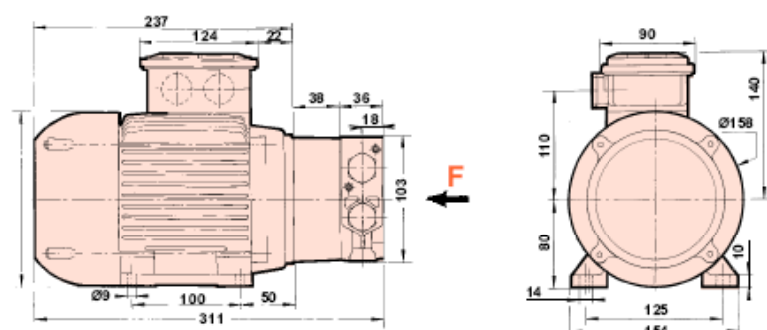
MOTOR TYPE

ALTERNATING CURRENT

(Sign - Signe - Zeichen
II - III - IV)

PUMP TYPE

(Sign - Signe - Zeichen I - V)

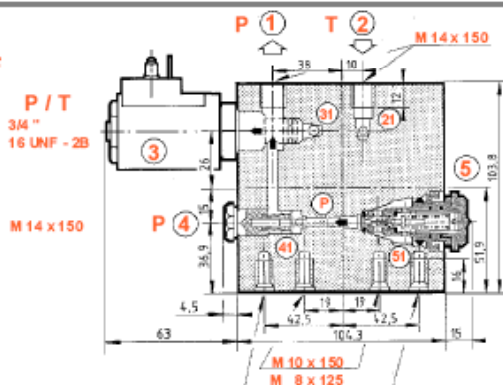


CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANLING	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG kW	E.D.	NOTA	MASSE Kg
PC 6	230/400	112 486	1500	0,95	S1	V	10,6

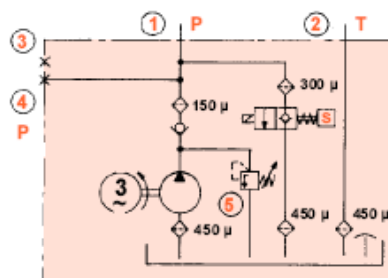
V Cooled
Ventilé
belüftet

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW F



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see pages 049 and 154)

CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :

Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4/2 Ways Valves - Manifolds -
Check Valves (VAR) -
Méchanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompress Switch

MICRO POWER - PACKS 1G

THREE - PHASE TYPE 80 DUTY S1

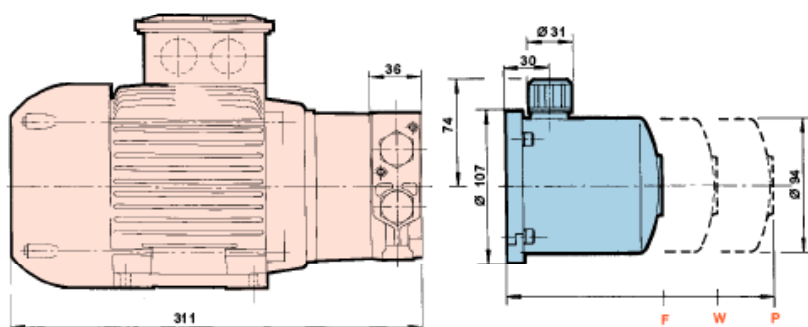
ALTERNATING CURRENT

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	Sign Signe Zeichen			Sign Signe Zeichen									
01		6	T		C	X							

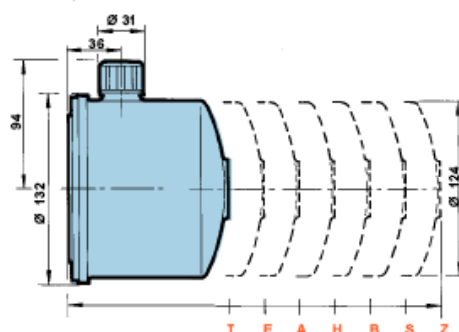
(F.T R 0180)

TYPE of TANKS

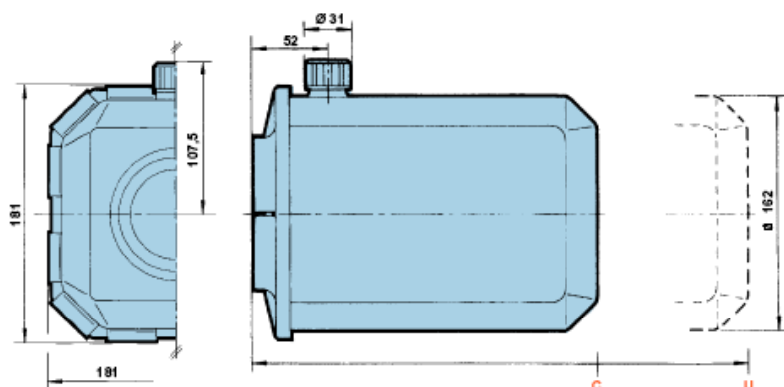
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	150
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER	POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT
F	0,5 L	0,4 L
W	0,75 L	0,6 L
P	1 L	0,8 L
T	1,1 L	0,7 L
E	1,5 L	1 L
A	2 L	1,4 L

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER	POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT
H	2,5 L	2,4 L
B	3 L	2,3 L
S	4 L	3,4 L
Z	6 L	5,3 L
C	5 L	4,7 L
U	6 L	5 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **80** DUTY **S1**

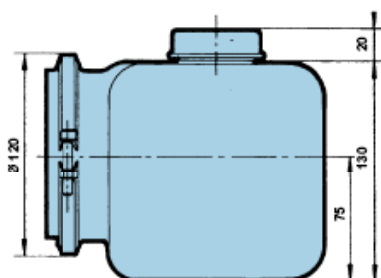
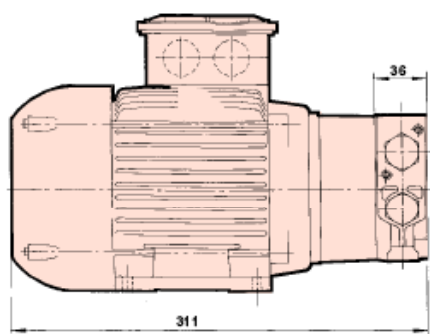

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	PC	6	T	Sign Signe Zeichen	C	X							

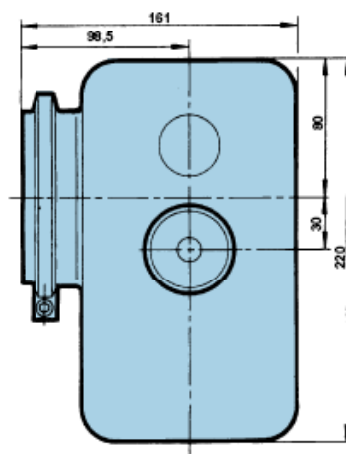
(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
M	2,8 L		2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** THREE - PHASE TYPE **80** DUTY **S1**

JTEKT
HPI

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	Sign Signe Zeichen	M	Sign Signe Zeichen	C	X							

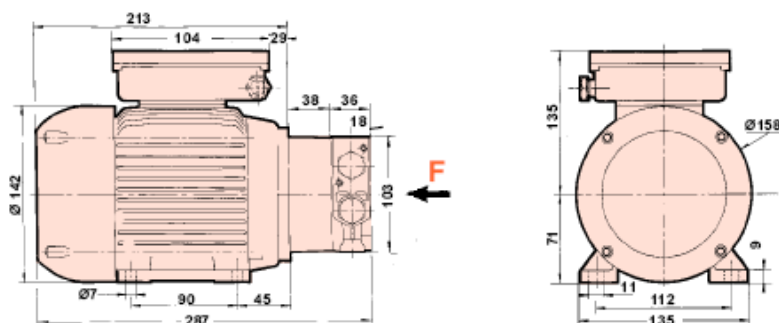
MOTOR TYPE

ALTERNATING CURRENT

(Sign - Signe - Zeichen
II - III - IV)

PUMP TYPE

(Sign - Signe - Zeichen I - V)

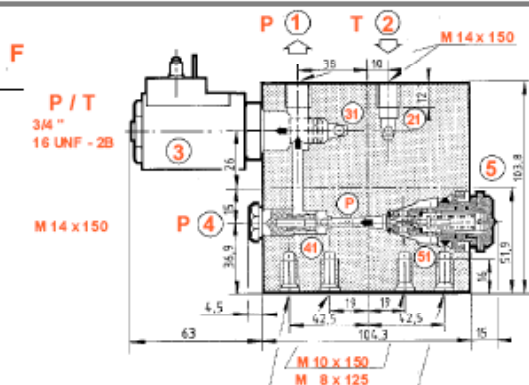


CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	CONDENSER		NOTA	MASSE Kg
	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	Starting Démarage	Permanent Permanent		
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAH U / min	LEISTUNG kW	E.D	Kondensator Anlauf Permanent		NOTA	MASSE Kg
ND 8	100	112 643	3000	0,75	S3	50 - 63 µF	16 µF	NV	8,5
NE 9	220/230	112 644	3000	0,75	S3	40 µF	16 µF	NV	8,5
NF 5	110/115	112 645	3600	0,75	S3	25 µF	16 µF	NV	8,5

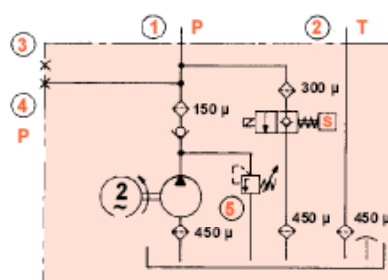
NV Not cooled
Non Ventilé
nicht belüftet

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacit�	
	cm 3 / t	cubic / inch
TYP	F�rdervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see pages 049 and 154)

CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors - Pressure Port Adaptors

DISTRIBUTION and REGULATION :

Electro Poppet Valves (V.N.O - V.N.F - V.L.B) - 4/2 Ways Valves - Manifolds - Check Valves (VAR) - Mechanical Lowering Valve (VDM) Pressure Relief Valve (VLP) Flow Regulator - Hollow Screws Manual Decompress Switch

MICRO POWER - PACKS 1G

SINGLEPHASE

TYPE 71

DUTY **S3**

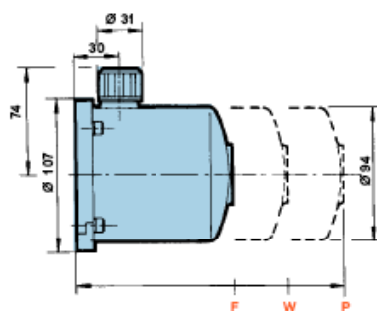
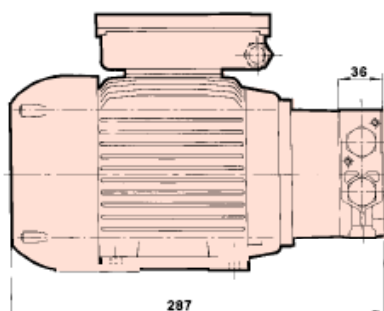
ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	Sign Signe Zeichen	Sign Signe Zeichen	M	Sign Signe Zeichen	C	X							

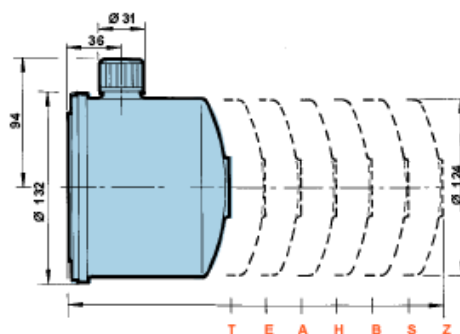
(F.T R 0180)

TYPE of TANKS

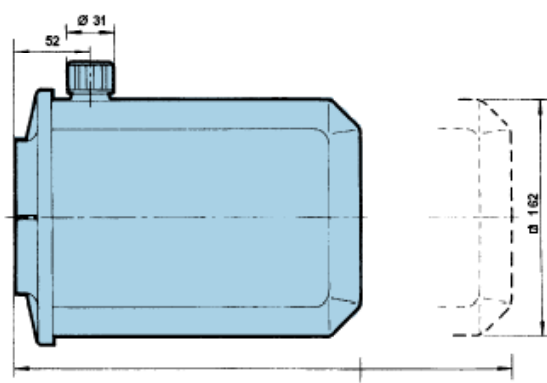
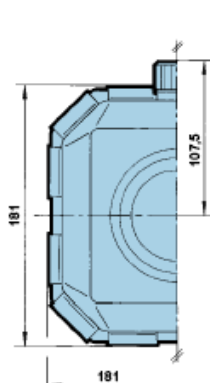
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	160
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER	POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT
▲ F	0,5 L	0,4 L
W	0,75 L	0,6 L
P	1 L	0,8 L
T	1,1 L	0,7 L
E	1,5 L	1 L
A	2 L	1,4 L

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER	POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT
H	2,5 L	2,4 L
B	3 L	2,3 L
S	4 L	3,4 L
Z	6 L	5,3 L
C	5 L	4,7 L
U	6 L	5 L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE TYPE **71** DUTY **S3**

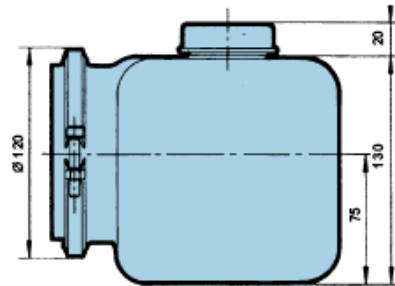
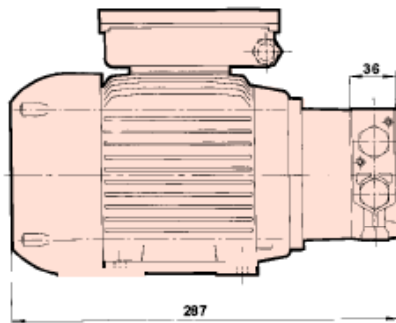

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	Sign Signe Zeichen	Sign Signe Zeichen	M	Sign Signe Zeichen	C	X							

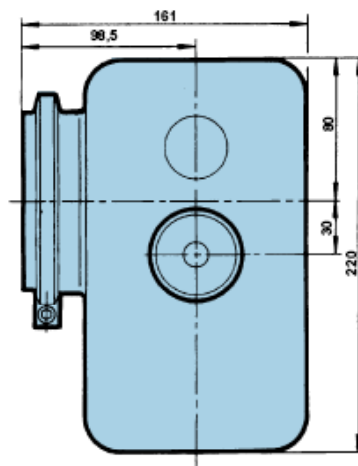
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TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
		1 - 3 - 4 - 5	2
CODE	TYPE	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
CODE	TYPE		
KODE	TYP		
■ M	2,8 L		2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE TYPE **71** DUTY **S3**

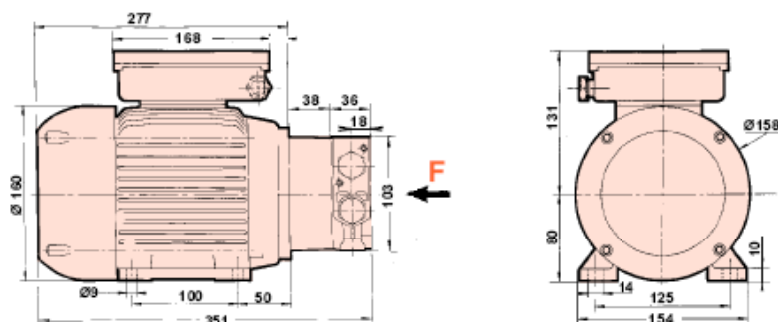
JTEKT
HPI

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	PG	9	M	Sign Signe Zeichen	C	X							

(F.T R 0180)

MOTOR TYPE ALTERNATING CURRENT (Sign - Signe - Zeichen II - III - IV)



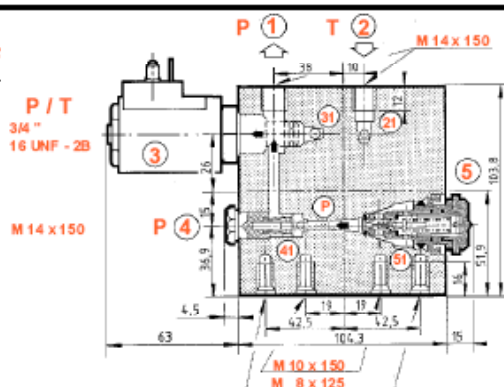
CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	CONDENSER	NOTA	MASSE
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	CONDENSATEUR	NOTA	MASSE
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL 1 / min	LEISTUNG kW	E.D	KONDENSATOR	NOTA	MASSE
PG 9	220/230	112 677	3000	1,10	S3	80 - 100 µF 25 µF	NV	11,4

NV Not cooled
Non Ventilé
nicht belüftet

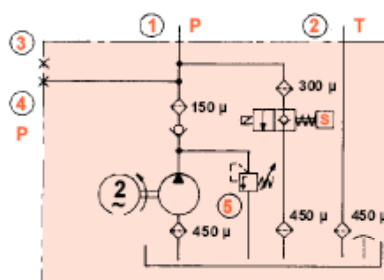
PUMP TYPE (Sign - Signe - Zeichen I - V)

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW F



Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see pages 049 and 154)

CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :
Electro Poppet Valves (V.N.O - V.N.F -
V.L.B) - 4 / 2 Ways Valves - Manifolds -
Check Valves (VAR) -
Méchanical Lowering Valve (VDM)
Pressure Relief Valve (VLP)
Flow Regulator - Hollow Screws
Manual Decompressure Switch

MICRO POWER - PACKS 1G

SINGLEPHASE TYPE 80 DUTY S3

JTEKT
HPI

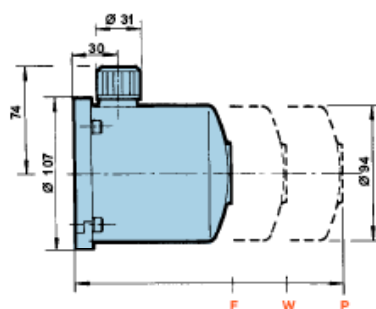
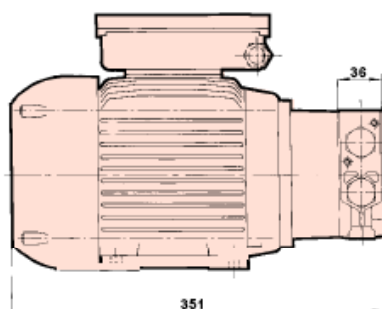
ALTERNATING CURRENT

CODIFICATION													
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	Sign Signe Zeichen	Sign Signe Zeichen	Sign Signe Zeichen	Sign Signe Zeichen	X							

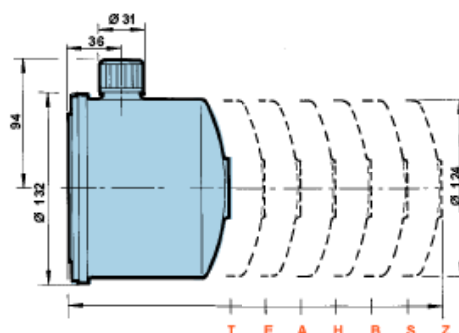
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TYPE of TANKS

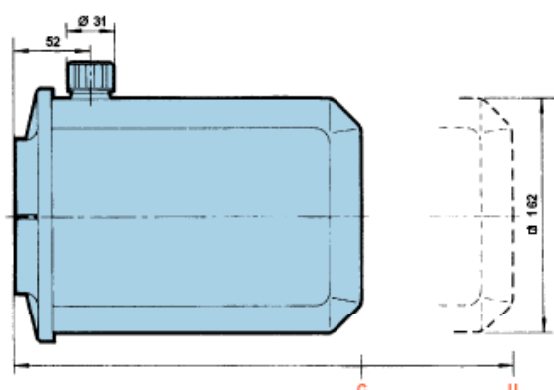
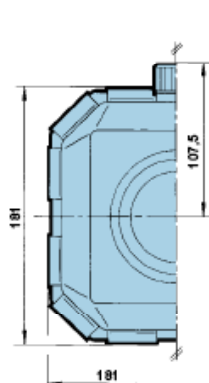
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	150
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5		POSITION POSITION BEFESTIGUNG 2	
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
▲ F	0,5 L			0,4 L	
W	0,75 L	0,7 L		0,6 L	
P	1 L	0,9 L		0,8 L	
T	1,1 L	1,1 L		0,7 L	
E	1,5 L	1,4 L		1 L	
A	2 L	2 L		1,4 L	

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER			POSITIONS POSITIONS BEFESTIGUNGS		POSITION POSITION BEFESTIGUNG	
			1 - 3 - 4 - 5		2	
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT				
H	2,5 L	2,4 L	L		2 L	L
■ B	3 L				2,3 L	L
■ S	4 L				3,4 L	L
■ Z	6 L				5,3 L	L
C	5 L	4,7 L	L		3,8 L	L
■ U	6 L				5 L	L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE TYPE **80** DUTY **S3**
JTEKT

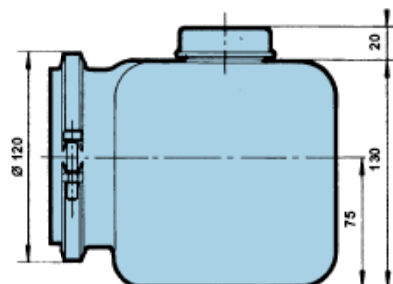
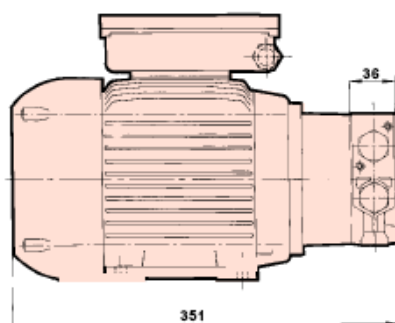

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	PG	9	M	Sign Signe Zeichen	C	X							

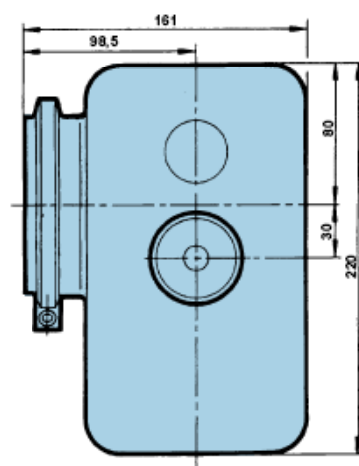
(F.T R 0180)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



TANKS RÉSERVOIRS BEHÄLTER	POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT
■ M	2,8 L	2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE

TYPE **80** DUTY **S3**

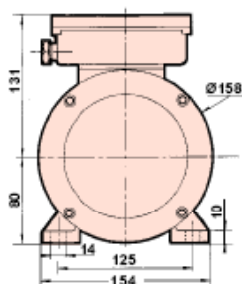
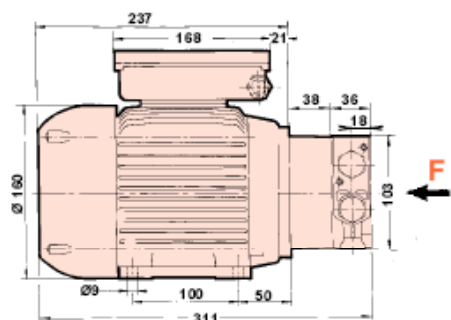
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
01	Sign Signe Zeichen	Sign Signe Zeichen	M	Sign Signe Zeichen	C	X							

MOTOR TYPE

ALTERNATING CURRENT

(Sign - Signe - Zeichen
II - III - IV)



CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	CONDENSER		NOTA	MASSE Kg
	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	Starting	Permanent		
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG kW	E.D	KONDENSATOR		NOTA	MASSE Kg
						Anlauf	Permanent		
PA 9	220/230	112 437	3000	0,75	S1	25 µF	16 µF	V	11
PB 5	110/115	112 438	3600	0,75	S1	80 µF		V	11,4

PB 5

approved UL
Certifié UL
UL zertifiziert

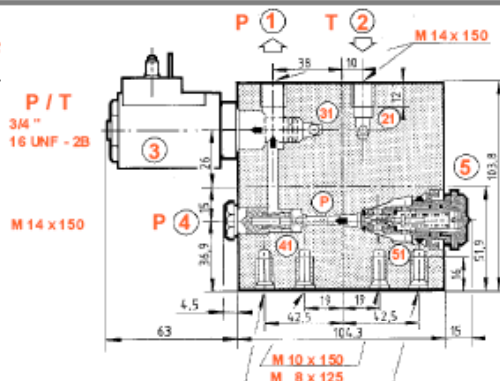
V

V Cooled
Ventilé
Belüftet

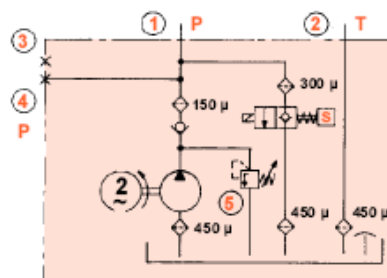
PUMP TYPE

(Sign - Signe - Zeichen I - V)

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacit�	
	cm 3 / t	cubic / inch
TYP	F�rdervolumen	
	cm 3 / U	cubic / inch
0025	0,25	0,01
0050	0,50	0,03
0075	0,75	0,04
0100	1	0,06
0125	1,25	0,07
0150	1,50	0,09
0200	2,00	0,12

VIEW **F**

Basic hydraulic sketch of a MICRO POWER PACK



ACCESSORIES (see pages 049 and 154)

CONNECTION : Bell housings - Couplings
- Interfaces

HYDRAULIC CONNECTION : Adaptors -
Pressure Port Adaptors

DISTRIBUTION and REGULATION :
Electro Poppet Valves (V.N.O - V.N.F - V.L.B) - 4/2 Ways Valves - Manifolds - Check Valves (VAR) - Méchanical Lowering Valve (VDM) Pressure Relief Valve (VLP) Flow Regulator - Hollow Screws Manual Decompressure Switch

MICRO POWER - PACKS 1G

SINGLEPHASE

TYPE **80**

DUTY

S1



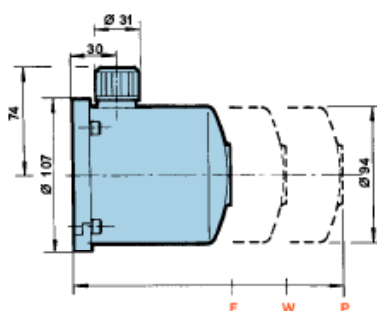
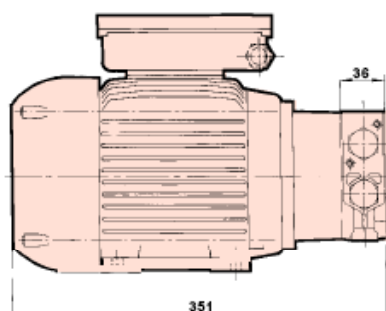
ALTERNATING CURRENT

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	Signe	Signe	Signe	Signe	Signe								
	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen								
01				M		C	X						

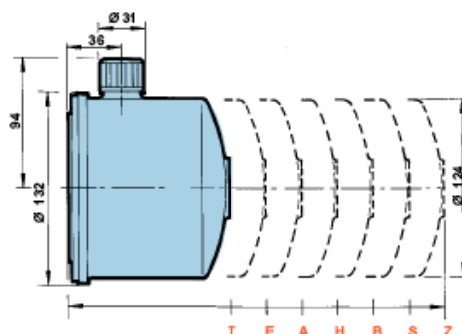
(F.T R 0180)

TYPE of TANKS

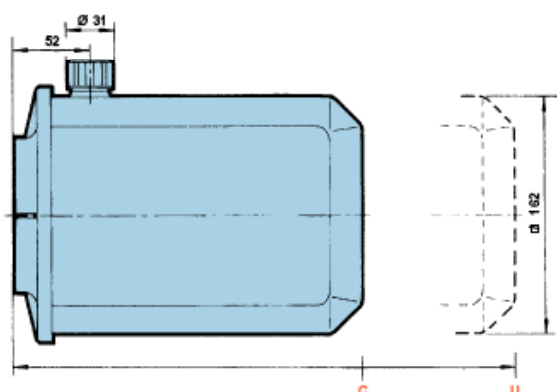
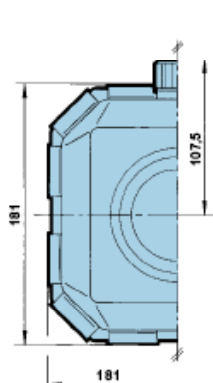
(Sign - Signe - Zeichen IX-X)



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
F	0,5 L	110
W	0,75 L	150
P	1 L	190



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	111
E	1,5 L	148
A	2 L	193,5
H	2,5 L	244
B	3 L	284,5
S	4 L	390
Z	6 L	606



CODE CODE CODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	242
U	6 L	297

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
F	0,5 L		0,4 L
W	0,75 L	0,7 L	0,6 L
P	1 L	0,9 L	0,8 L
T	1,1 L	1,1 L	0,7 L
E	1,5 L	1,4 L	1 L
A	2 L	2 L	1,4 L

▲ In horizontal position only

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE CODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
H	2,5 L	2,4 L	2 L
B	3 L		2,3 L
S	4 L		3,4 L
Z	6 L		6,3 L
C	5 L	4,7 L	3,8 L
U	6 L		5 L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE TYPE **80** DUTY **S1**

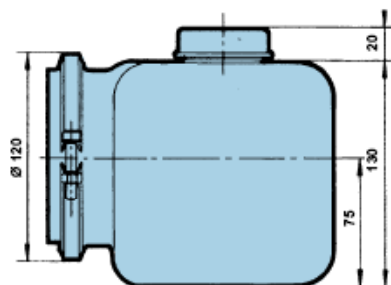
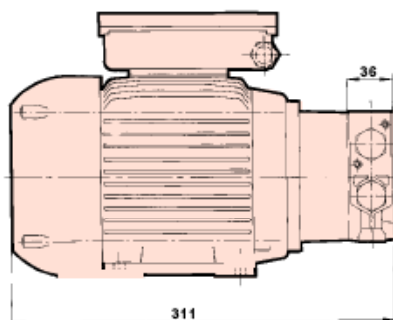

ALTERNATING CURRENT

CODIFICATION	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	01	Sign Signe Zeichen	Sign Signe Zeichen	M	Sign Signe Zeichen	C	X							

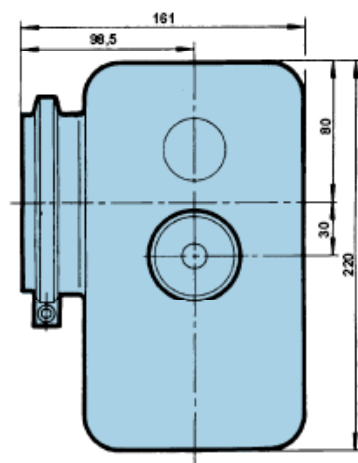
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TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE	TYPE
CODE	TYPE
KODE	TYP
M	2,8 L



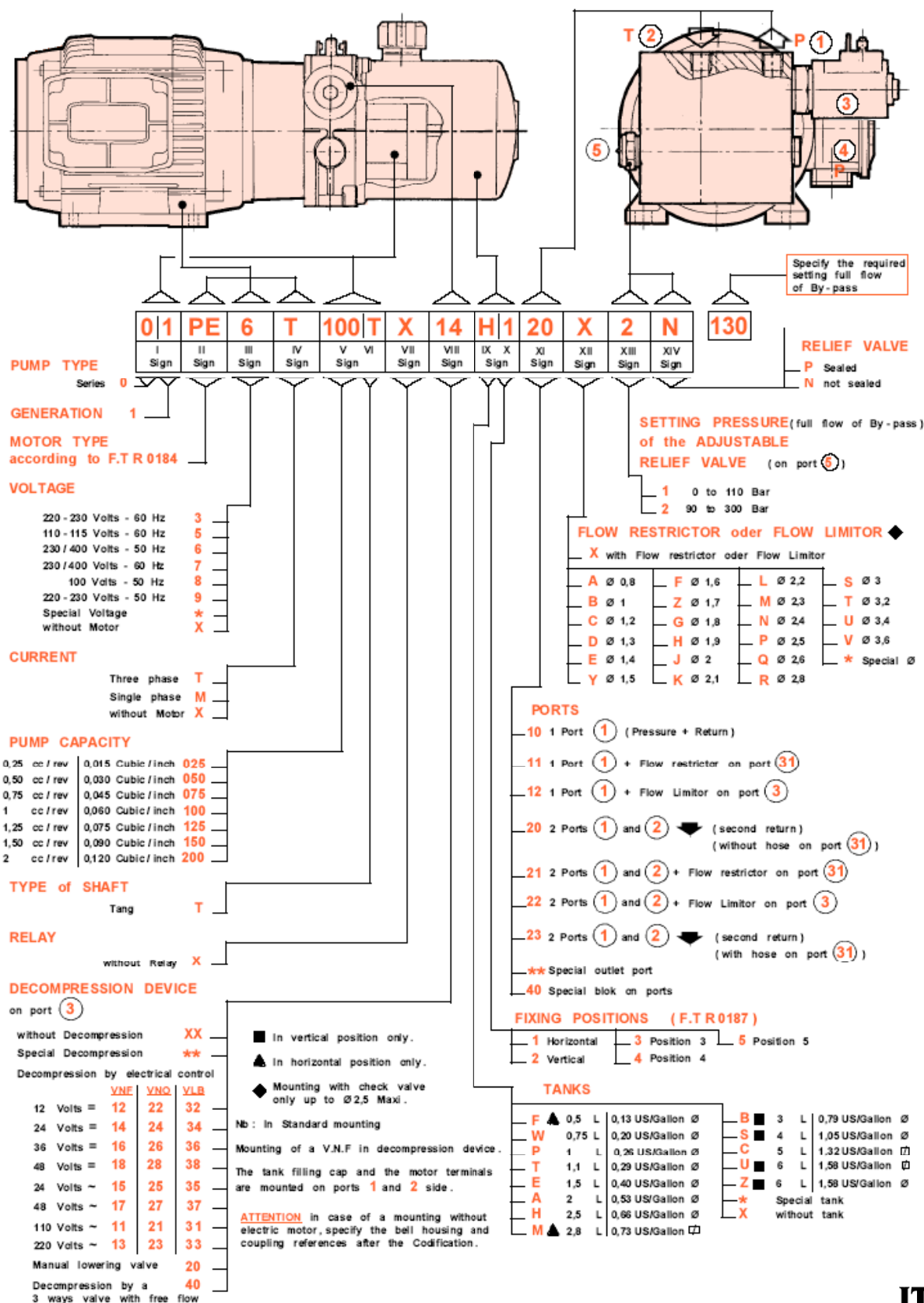
TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
■ M	2,8 L		2,28 L

■ In vertical position only

MICRO POWER - PACKS **1G** SINGLEPHASE TYPE **80** DUTY **S1**



ALTERNATING CURRENT



MICRO POWER PACKS "CODING CHART"
ALTERNATING CURRENT VERSION **1G** SERIES **0**

ALTERNATING CURRENT

Frame 71

Three-Phase Motors

II Sign Signe Zeichen	Voltage Tension Spannung III Sign Signe Zeichen	Ref.	Speed Vitesse Drehzahl rev / min t / min U / min	Power Puissance Leistung kW	Duty Service E.D	Frequency Frequence Frequenz Hz	NB Nota Nota	Bell - Housing Lanterne Flansch
NA	6	112 484	1500	0,26	S1	50	air cooled - Ventilé - belüftet	109 593
NC	6	112 485	1500	0,50	S1	50	air cooled - Ventilé - belüftet	
NB	6	112 476	3000	0,55	S3	50	not cooled - Non ventilé - nicht belüftet	
NG	6	112 423	3000	0,80	S3	50	not cooled - Non ventilé - nicht belüftet	
NH	6	112 120	3000	1,10	S3	50	not cooled - Non ventilé - nicht belüftet	
NK	6	112 874	3000	0,55	S3	50	Motors at tang - not cooled Moteurs à tenon - Non ventilé - Motoren mit Zapfen - nicht belüftet	112 871
NF	6	112 873	3000	0,80	S3	50		
NP	6	112 872	3000	1,10	S3	50		

Frame 80

II Sign Signe Zeichen	Voltage Tension Spannung III Sign Signe Zeichen	Ref.	Speed Vitesse Drehzahl rev / min t / min U / min	Power Puissance Leistung kW	Duty Service E.D	Frequency Frequence Frequenz Hz	NB Nota Nota	Bell - Housing Lanterne Flansch
PC	6	112 486	1500	0,95	S1	50	air cooled - Ventilé - belüftet	109 592

THREE-PHASE MOTORS for MICRO ELECTRO PUMP SETS and MICRO POWER PACKS

ALTERNATING CURRENT

Frame 71

Single phase Motors

II Sign Zeichen	Voltage Tension Spannung	Ref.	Speed Vitesse Drehzahl	Power Puissance Leistung	Duty Service E.D	Frequency Frequence Frequenz	Condenser Condensateur Kondensator		NB Nota Nota	Bell - Housing Lanterne Flansch
	III Sign Zeichen		rev / min t / min U / min	kW		Hz	Starting Démarrage Anlauf	Permanent Permanent Permanent		
ND	8	112 643	3000	0,75	S3	50	50-63 μF	16 μF	not cooled - Non ventilé -nicht belüftet	109 593
NE	9	112 644	3000	0,75	S3	50	40 μF	16 μF	not cooled - Non ventilé -nicht belüftet	
NF	5	112 645	3600	0,75	S3	60	25 μF	16 μF	not cooled - Non ventilé -nicht belüftet	

Frame 80

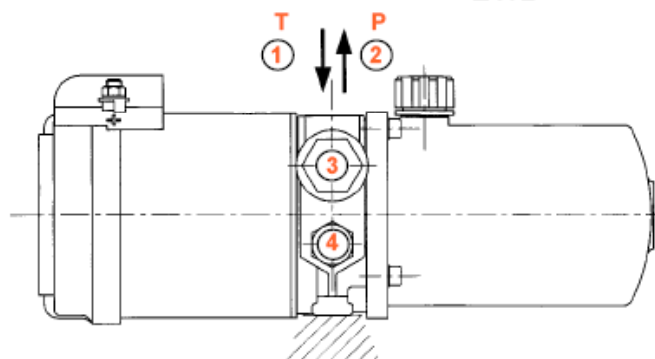
II Sign Zeichen	Voltage Tension Spannung	Ref.	Speed Vitesse Drehzahl	Power Puissance Leistung	Duty Service E.D	Frequency Frequence Frequenz	Condenser Condensateur Kondensator		NB Nota Nota	Bell - Housing Lanterne Flansch
	III Sign Zeichen		rev / min t / min U / min	kW		Hz	Démarrage	Permanent Permanent Permanent		
PA	9	112 437	3000	0,75	S1	50	25 μF	16 μF	air cooled - Ventilé - belüftet	109 592
PB	5	112 438	3450	0,75	S1	60	80 μF		air cooled - Ventilé - belüftet	
PG	9	112 677	3000	1.10	S3	50	80-100 μF	25 μF	not cooled - Non Ventilé - nicht belüftet	

**	*	Special Motor - Special Voltage Moteur spécial - Tension spéciale Spezial Motor - Spezial Spannung
XX	X	without Motor - Sans Moteur - ohne Motor -

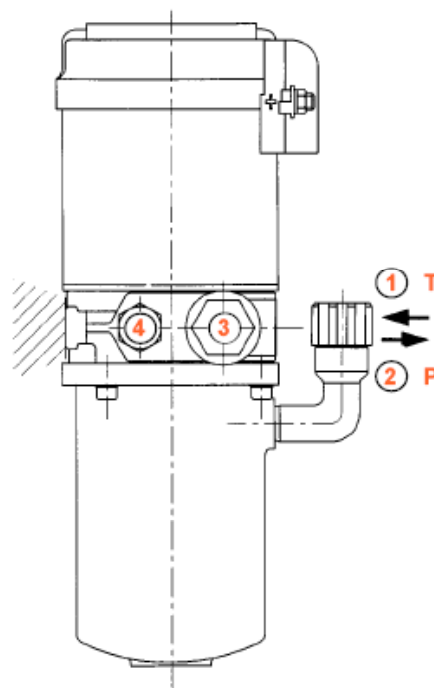
SINGLE PHASE MOTORS for MICRO ELECTRO PUMP SETS and MICRO POWER PACKS

ALTERNATING CURRENT

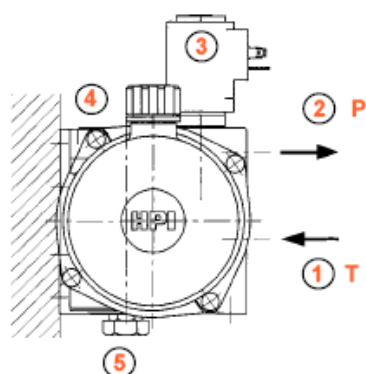
POSITION
POSITION **1**
LAGE



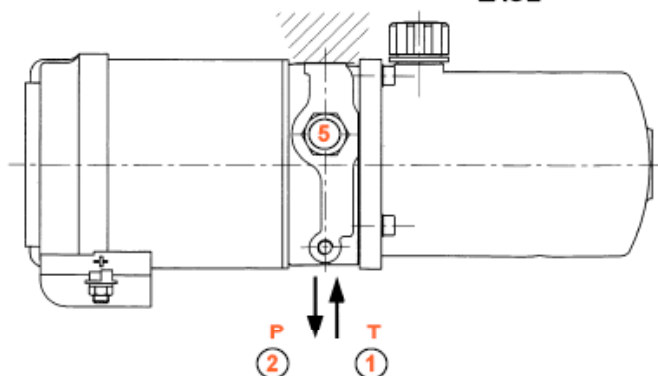
POSITION
POSITION **2**
LAGE



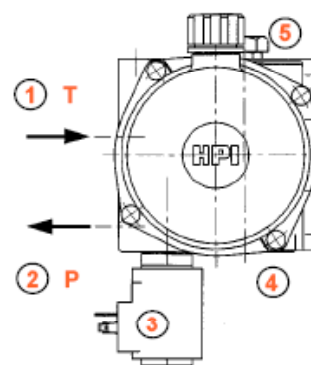
POSITION
POSITION **3**
LAGE



POSITION
POSITION **4**
LAGE



POSITION
POSITION **5**
LAGE



**FIXING POSITIONS DIRECT and ALTERNATING CURRENT
of MICRO and MINI POWER PACKS**

VERSION **1G**

JTEKT
HPI