

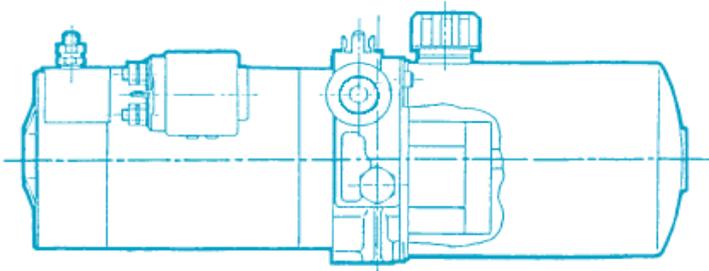


## MINI POWER PACKS 1G

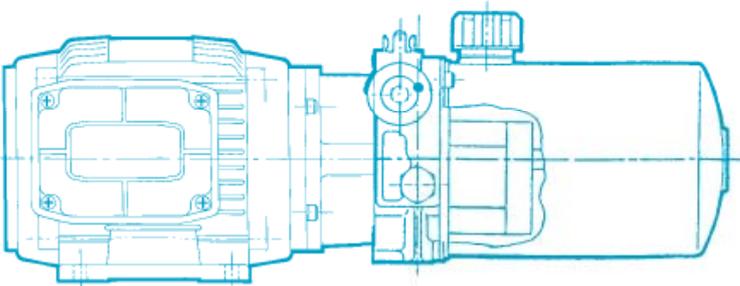


DIRECT CURRENT. ALTERNATING CURRENT.

## DIRECT CURRENT



## ALTERNATING CURRENT



**DIRECT CURRENT.**

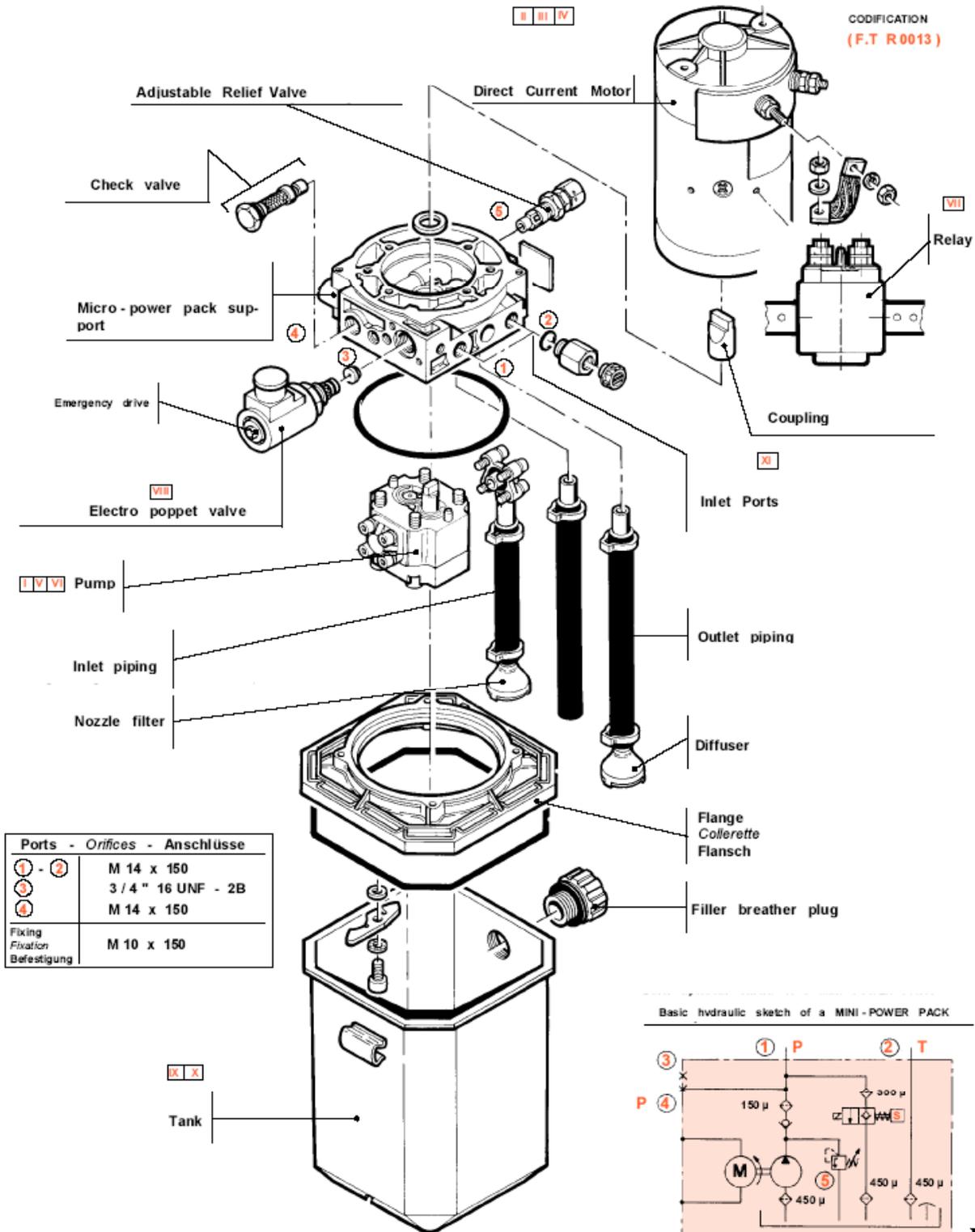
Code <i>Code</i> Kode	Power <i>Puissance</i> kW Leistung		Flow <i>Débit</i> Fördermenge
	12 V	24 V	
	DI	1,3	
BI	1,5	1,8	
BL	2,1	2,2	
CI		3	



DIRECT CURRENT.

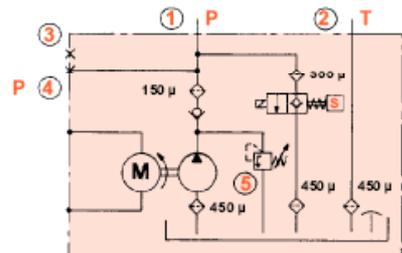
<b>11</b>	<b>BL</b>	<b>2</b>	<b>C</b>	<b>2</b>	<b>T</b>	<b>R</b>	<b>14</b>	<b>C</b>	<b>1</b>	<b>20</b>	<b>X</b>	<b>2</b>	<b>N</b>
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe	Signe
Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen	Zeichen

CODIFICATION  
(F.T R 0013)



Ports - Orifices - Anschlüsse	
① - ②	M 14 x 150
③	3 / 4 " 16 UNF - 2B
④	M 14 x 150
Fixing / Fixation / Befestigung	M 10 x 150

Basic hydraulic sketch of a MINI-POWER PACK



TECHNOLOGICAL COMPOSITION of the MINI-POWER PACK



**DIRECT CURRENT.**

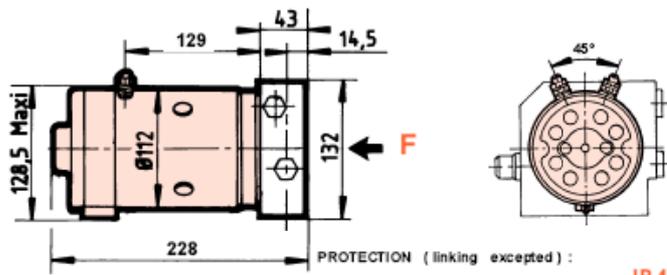
**CODIFICATION**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>DI</b>	Sign Signe Zeichen	<b>C</b>	Sign Signe Zeichen	<b>T</b>								

(F.T R 0013)

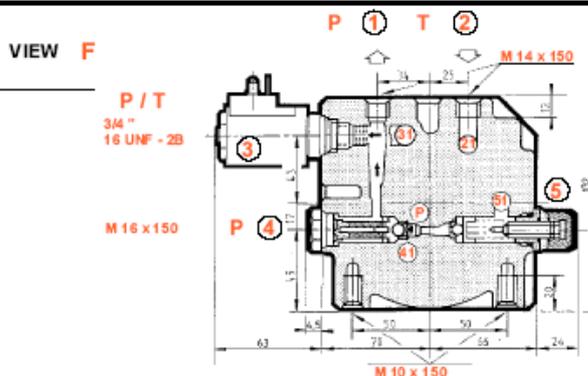
**MOTOR TYPE** DIRECT CURRENT (Sign - Signe - Zeichen II - III - IV)

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

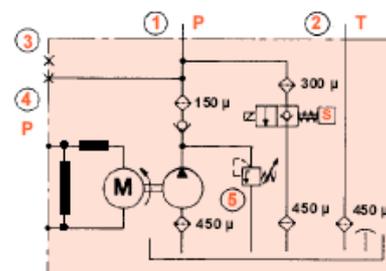


CODE	VOLTAGE	MOTOR REFERENCE	NOMINAL POWER S3 10 %	TERMINALS	MASS. of MOTOR
CODE	TENSION	REFERENCE MOTEUR	PUISSANCE NOM. S3 10 %	BORNES	MASSE du MOTEUR
KODE	SPANNUNG	MOTOR REFERENZ	NENNLEISTUNG S3 10 %	E. ANSCHLÜSSE	MASSE vom MOTOR
<b>DI 1</b>	<b>12 V</b>	<b>110 806</b>	<b>1,3 kW</b>	M 8 x 125	8,3 Kg
<b>DI 2</b>	<b>24 V</b>	<b>110 807</b>	<b>1,5 kW</b>	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
<b>1001</b>	<b>1,02</b>	<b>0,06</b>
<b>1002</b>	<b>2,05</b>	<b>0,12</b>
<b>1003</b>	<b>3,07</b>	<b>0,18</b>
<b>1004</b>	<b>4,09</b>	<b>0,24</b>
<b>1005</b>	<b>5,12</b>	<b>0,30</b>
<b>1006</b>	<b>6,14</b>	<b>0,36</b>



Basic hydraulic sketch of a MINI 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

**MINI POWER - PACKS DIRECT CURRENT**

TYPE **DI** 12 V : 1,3 kW  
 24 V : 1,5 kW



**DIRECT CURRENT.**

CODIFICATION

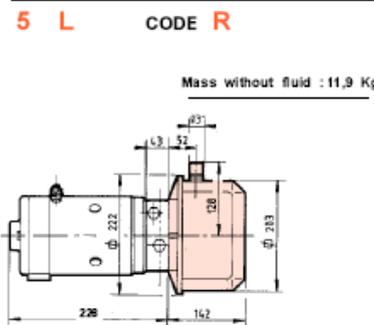
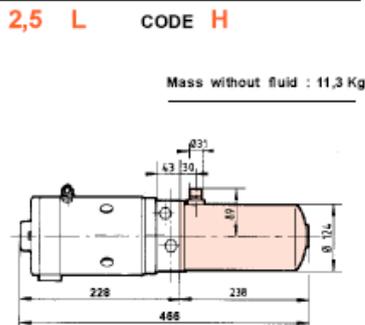
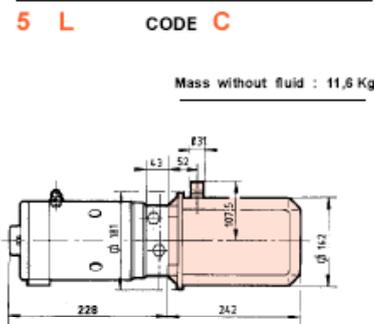
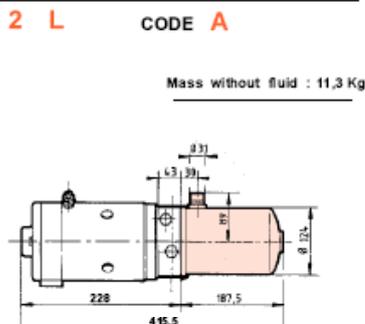
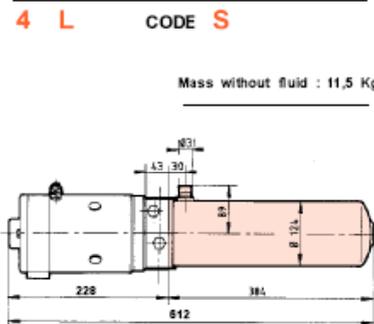
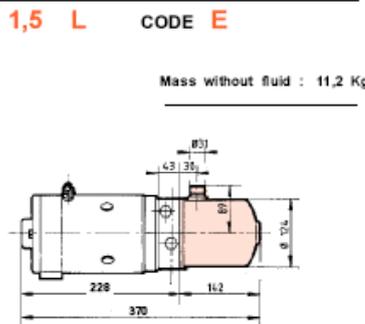
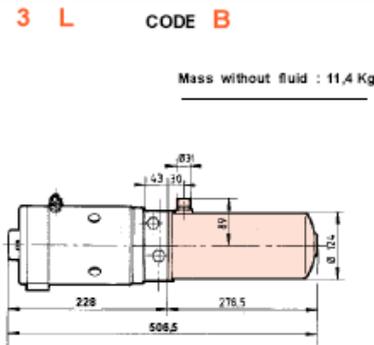
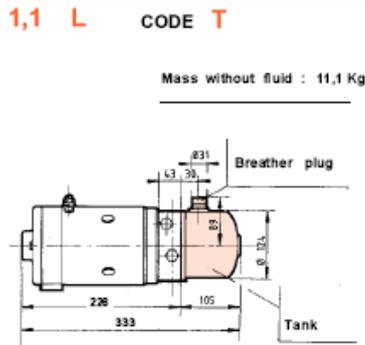
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	DI	Sign Signe Zeichen	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0013)

TYPE OF TANKS

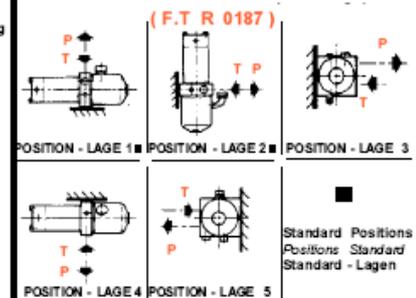
( Full capacity )

(Sign - Signe - Zeichen IX - X)



TANKS RESERVOIRS BEHÄLTER	POSITIONS LAGEN 1 - 3 - 4 - 5	POSITION LAGE 2
CODE CODE KODE	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN	
T	1,1 L	0,75 L
E	1,5 L	1,1 L
A	2 L	1,65 L
H	2,5 L	2 L
B	3 L	2,5 L
S	4 L	3,6 L
C	5 L	4,35 L
R	5 L	4 L
		0,6 L
		0,85 L
		1,3 L
		1,9 L
		2,15 L
		3,25 L
		6,6 L
		3,8 L

FIXING POSITIONS



MINI POWER - PACKS

DIRECT CURRENT

TYPE

**DI** 12 V : 1,3 kW  
24 V : 1,5 kW



**DIRECT CURRENT.**

**CODIFICATION**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>DI</b>	Signe Zeichen	<b>C</b>	Signe Zeichen	<b>T</b>			Signe Zeichen	Signe Zeichen				

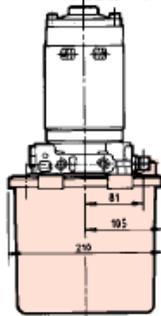
( F.T R 0013 )

TYPE OF TANKS

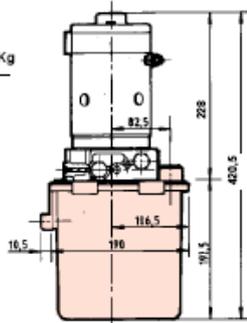
( Full capacity )

(Sign - Signe - Zeichen IX - X)

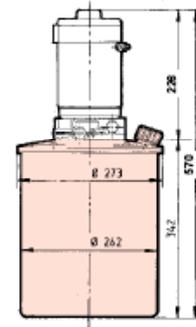
**5,2 L \* CODE V**



Mass without fluid : 12,6 Kg

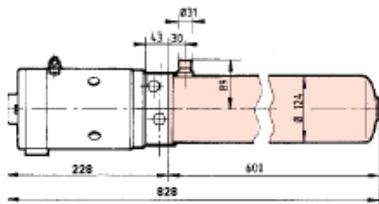


**15 L \* CODE L**



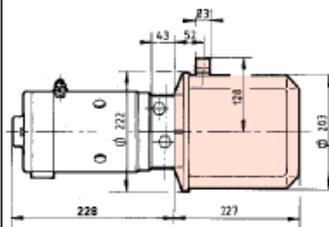
Mass without fluid : 15,6 Kg

**6 L CODE Z**



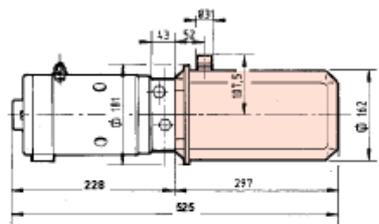
Mass without fluid : 11,6 Kg

**7,5 L CODE K**



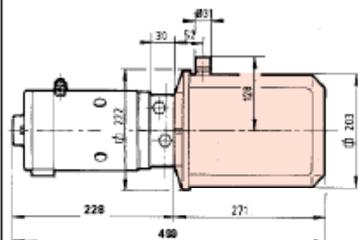
Mass without fluid : 11,8 Kg

**6 L CODE U**



Mass without fluid : 12,1 Kg

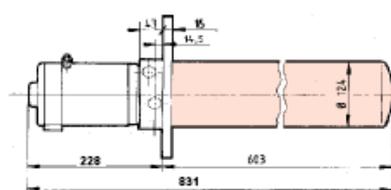
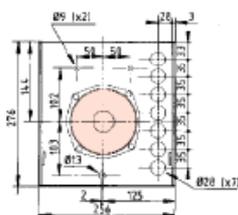
**10 L CODE D**



Mass without fluid : 11,9 Kg

**6 L Embeddable according to customer's request**

Mass without fluid : 12,9 Kg

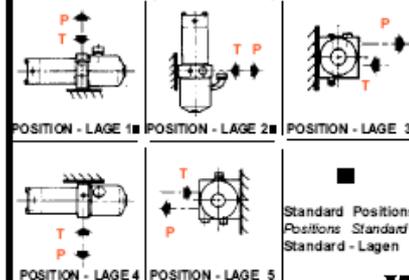


TANKS RESERVOIRS BEHÄLTER	POSITIONS LAGEN	POSITION LAGE
CODE CODE KODE	TYPE TYPE TYP	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN
* V	6 L	5,2 L
Z	6 L	5,1 L
U	6 L	5,5 L
G	6 L	5,1 L
K	7,5 L	7,2 L
D	10 L	8,8 L
* L	15 L	15,2 L
		L

\* Mounting only in vertical position

FIXING POSITIONS

( F.T R 0187 )



MINI POWER - PACKS DIRECT CURRENT

TYPE **DI**

**12 V : 1,3 kW**  
**24 V : 1,5 kW**



DIRECT CURRENT.

CODIFICATION

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

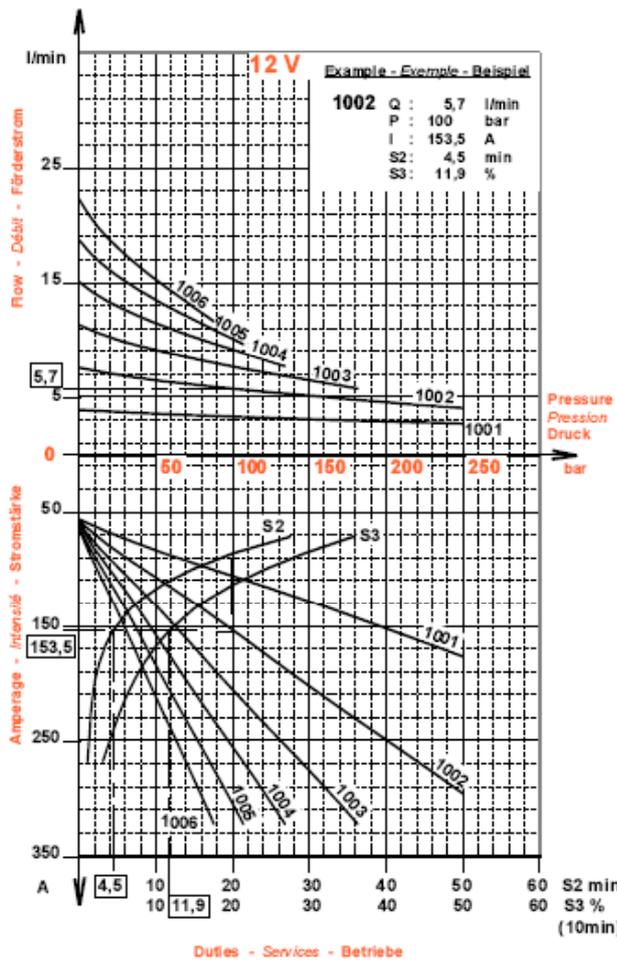
(F.T R 0013)

DIRECT CURRENT MOTOR **1,3 kW**  
 NOMINAL POWER  
 S3 ( 10 % of 10 min )

References  
**110 806**

Code **DI | 1**

II	III
Sign	Sign
Signe	Signe
Zeichen	Zeichen

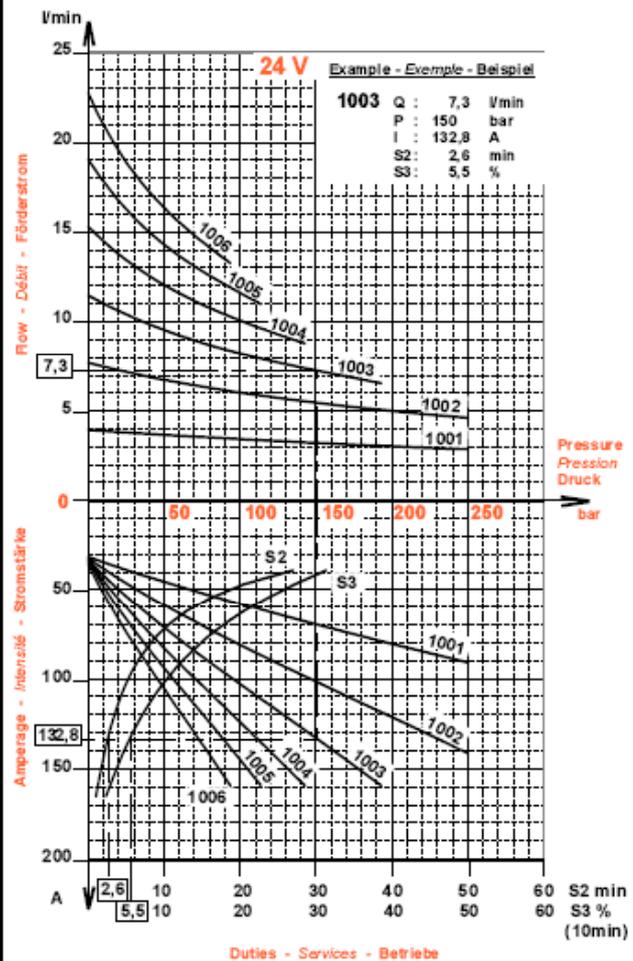


DIRECT CURRENT MOTOR **1,5 kW**  
 NOMINAL POWER  
 S3 ( 10 % of 10 min )

References  
**110 807**

Code **DI | 2**

II	III
Sign	Sign
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)  
 I D : Starting Amperage 12 V : 800 Amp.  
 24 V : 650 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 **DI** 12 V : 1,3 kW  
 24 V : 1,5 kW



**DIRECT CURRENT.**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>DI</b>	Signe Zeichen	<b>C</b>	Signe Zeichen	<b>T</b>			Signe Zeichen	Signe Zeichen				

( F.T R 0013 )

**DIRECT CURRENT ELECTRIC MOTOR  
ENERGIZING COMPOUND**

References :            II Signe    III Signe

**12 V : 110 806            DI    1**

**24 V : 110 807            DI    2**

Charts drawn with a constant tension

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

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		
<b>Q</b> Flow in l/min Débit en l/min Fördermenge in l/min  <b>I</b> Amperage Intensité en Ampères Stromstärke in Ampere  <b>S1</b> Permanent Permanent Dauerbetrieb  <b>S2</b> min  <b>S3</b> % ( 10 min )	<b>1001</b>	Q	3,9	3,6	3,3	3,1	3	2,9	2,8	2,7	3,9	3,7	3,4	3,2	3,1	3	2,95	2,8
		I	59,5	83,3	105,8	128,4	140,2	152,2	164,5	176,8	32,9	45,3	57,9	69,5	75,1	80,4	85,7	90,8
		S2	30	21,3	12,9	7,8	6	4,6	3,6	2,9	30	21,4	14,5	10,6	9,3	8,1	7,2	6,4
	<b>1002</b>	S3	40,9	30,6	22,3	16,4	14	12,1	10,4	9	34,5	27,9	22,1	17,9	16,2	14,7	13,3	12,2
		Q	7,5	6,5	5,7	5,1	4,8	4,6			7,6	6,8	6	5,5	5,2	5	4,8	4,6
		I	64,2	107,1	153,5	202,4	226,1	249,2			35,1	58,6	81	101,4	111,3	121,2	131,2	141,2
	<b>1003</b>	S2	30	12,6	4,5	2	1,6	1,3			30	14,3	8	5,1	4,1	3,4	2,7	2,1
		S3	39	22	11,9	6,8	5,3	4,1			33,3	31,8	14,5	10,1	8,4	7	5,7	4,6
		Q	11	9,2	7,7						11,2	9,5	8,2	7,3	6,8	6,5		
	<b>1004</b>	I	68,8	127	205,5						37,5	71,2	102,7	132,8	148,1	163,6		
		S2	29,1	7,2	1,9						28,3	10,2	5	2,6	1,8	1,1		
		S3	36,9	15,6	6,6						32	17,3	9,8	5,5	3,9	2,5		
<b>1005</b>	Q	14,5	11,5	9,2						14,9	12	10,1	8,6					
	I	71,7	157,6	255,3						39	82,8	123,9	165,4					
	S2	27,4	4,2	1,3						26,8	7,7	3,2	1					
<b>1006</b>	S3	35,7	11,3	3,8						31,2	14,1	6,6	2,3					
	Q	17,9	13,5							18,4	14,3	11,6						
	I	76,1	184							41,3	93,8	144,8						
<b>1007</b>	S2	25	2,6							24,6	6	1,9						
	S3	33,7	8,3							30	11,5	4,2						
	Q	21,2	15,3							21,8	16,4	12,9						
<b>1008</b>	I	80,8	211,8							43,9	105,4	167,5						
	S2	22,5	1,8							22,5	4,7	0,9						
	S3	31,6	6,2							28,6	9,4	2,2						

**MAIN ELECTRO - HYDRAULIC CHARACTERISTICS  
OF MINI POWER PACKS**

MOTOR **DI**    **12 V : 1,3 kW**  
**24 V : 1,5 kW**



**DIRECT CURRENT.**

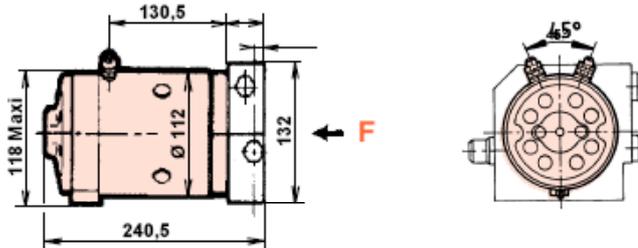
CODIFICATION

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

(F.T R 0013)

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

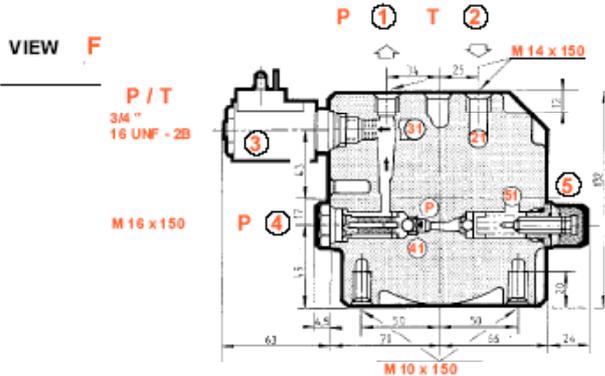
PUMP TYPE (Sign - Signe - Zeichen I - V - VI)



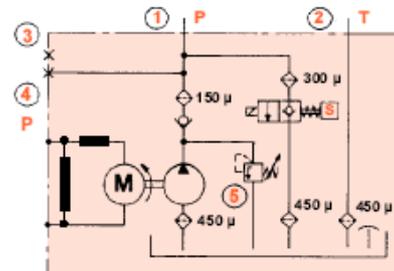
PROTECTION (linking excepted) : IP 44

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
BI 1	12 V	110 677	1,5 kW	⊕ M 8 x 125	8,7 Kg
BI 2	24 V	110 678	1,8 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
1001	1,02	0,06
1002	2,05	0,12
1003	3,07	0,18
1004	4,09	0,24
1005	5,12	0,30
1006	6,14	0,36



Basic hydraulic sketch of a MINI POWER PACK



**ACCESSORIES** (see page 134)

**MINI POWER - PACKS DIRECT CURRENT**

**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

TYPE **BI** 12 V : 1,5 kW  
24 V : 1,8 kW

**DIRECT CURRENT.**

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>BI</b>	Sign Signe Zeichen	<b>C</b>	Sign Signe Zeichen	<b>T</b>			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T.R 0013)

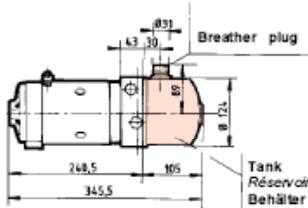
(Sign - Signe - Zeichen IX - X)

TYPE OF TANKS

( Full capacity )

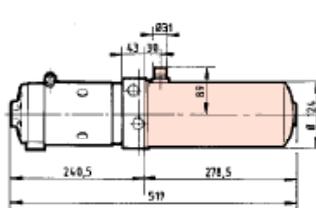
**1,1 L** CODE **T**

Mass without fluid : 11,5 Kg



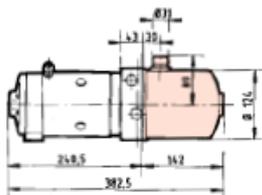
**3 L** CODE **B**

Mass without fluid : 11,7 Kg



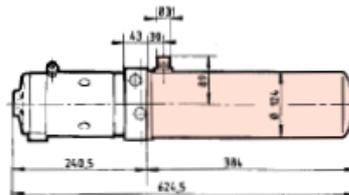
**1,5 L** CODE **E**

Mass without fluid : 11,6 Kg



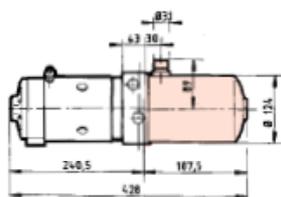
**4 L** CODE **S**

Mass without fluid : 11,9 Kg



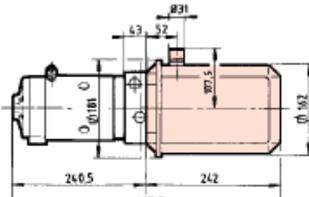
**2 L** CODE **A**

Mass without fluid : 11,7 Kg



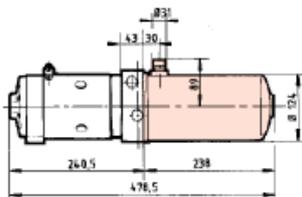
**5 L** CODE **C**

Mass without fluid : 12 Kg



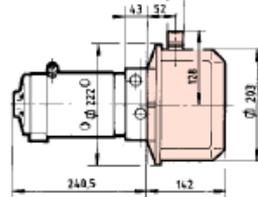
**2,5 L** CODE **H**

Mass without fluid : 11,7 Kg



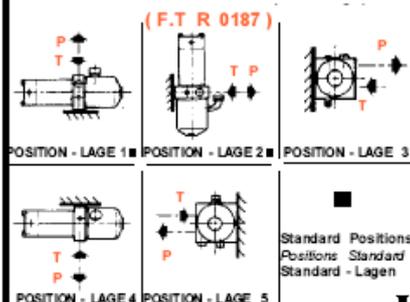
**5 L** CODE **R**

Mass without fluid : 12 Kg



TANKS RESERVOIRS BEHÄLTER	POSITIONS LAGEN 1 - 3 - 4 - 5	POSITION LAGE 2
CODE CODE KODE	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN	
<b>T</b>	<b>1,1 L</b>	0,75 L / 0,6 L
<b>E</b>	<b>1,5 L</b>	1,1 L / 0,85 L
<b>A</b>	<b>2 L</b>	1,65 L / 1,3 L
<b>H</b>	<b>2,5 L</b>	2 L / 1,9 L
<b>B</b>	<b>3 L</b>	2,5 L / 2,15 L
<b>S</b>	<b>4 L</b>	3,6 L / 3,25 L
<b>C</b>	<b>5 L</b>	4,35 L / 3,6 L
<b>R</b>	<b>5 L</b>	4 L / 3,8 L

FIXING POSITIONS



MINI POWER - PACKS

DIRECT CURRENT

TYPE

**BI** 12 V : 1,5 kW  
24 V : 1,8 kW



**DIRECT CURRENT.**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	<b>11 BI</b>	Sign Signe Zeichen	<b>C</b>	Sign Signe Zeichen	<b>T</b>			Sign Signe Zeichen	Sign Signe Zeichen				

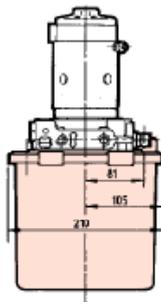
( F.T R 0013 )

TYPE OF TANKS

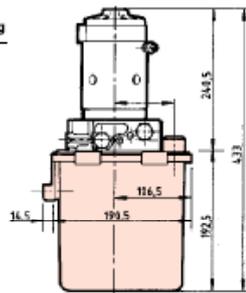
( Full capacity )

(Sign - Signe - Zeichen IX - X)

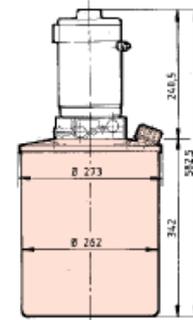
**5,2 L \* CODE V**



Mass without fluid : 13 Kg

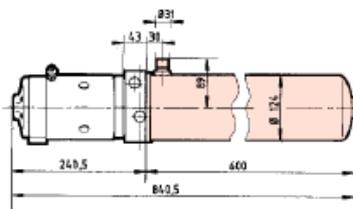


**15 L \* CODE L**



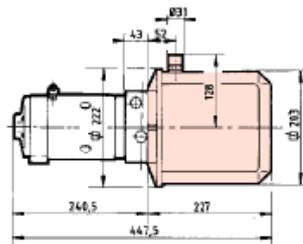
Mass without fluid : 16 Kg

**6 L CODE Z**



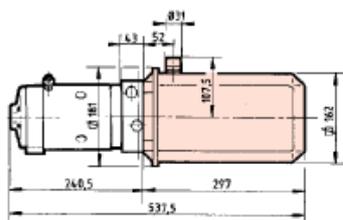
Mass without fluid : 12 Kg

**7,5 L CODE K**



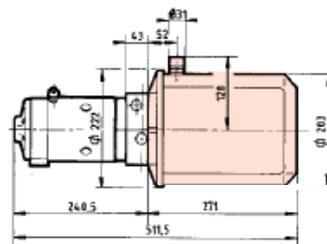
Mass without fluid : 12,2 Kg

**6 L CODE U**



Mass without fluid : 12,5 Kg

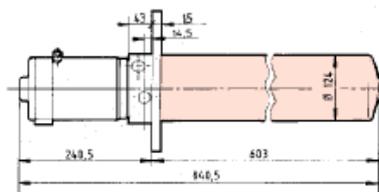
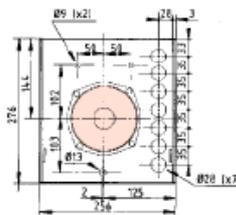
**10 L CODE D**



Mass without fluid : 12,3 Kg

**6 L Embeddable according to customer's request**

Mass without fluid : 13,3 Kg

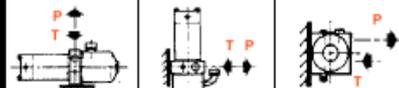


TANKS RESERVOIRS BEHÄLTER	POSITIONS LAGEN 1 - 3 - 4 - 5	POSITION LAGE 2
CODE CODE KODE	TYPE TYPE TYP	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN
<b>* V</b>	<b>5,2 L</b>	4,85
<b>Z</b>	<b>6 L</b>	5,1 L
<b>U</b>	<b>6 L</b>	5,5 L
<b>G</b>	<b>6 L</b>	5,1 L
<b>K</b>	<b>7,5 L</b>	7,2 L
<b>D</b>	<b>10 L</b>	8,8 L
<b>* L</b>	<b>15 L</b>	18,2
		L

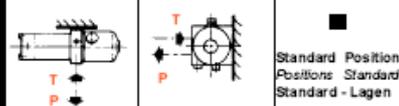
\* Mounting only in vertical position

FIXING POSITIONS

( F.T R 0187 )



POSITION - LAGE 1 POSITION - LAGE 2 POSITION - LAGE 3



POSITION - LAGE 4 POSITION - LAGE 5

Standard Positions  
Positions Standard  
Standard - Lagen

MINI POWER - PACKS DIRECT CURRENT

TYPE **BI**

12 V : 1,5 KW  
24 V : 1,8 KW



**DIRECT CURRENT.**

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>BI</b>	Sign Signe Zeichen	<b>C</b>	Sign Signe Zeichen	<b>T</b>								

(F.T R 0013)

**DIRECT CURRENT MOTOR 1,5 kW**  
**NOMINAL POWER**  
**S3 ( 10 % of 10 min )**

References  
**110 677**

Code **BI | 1**

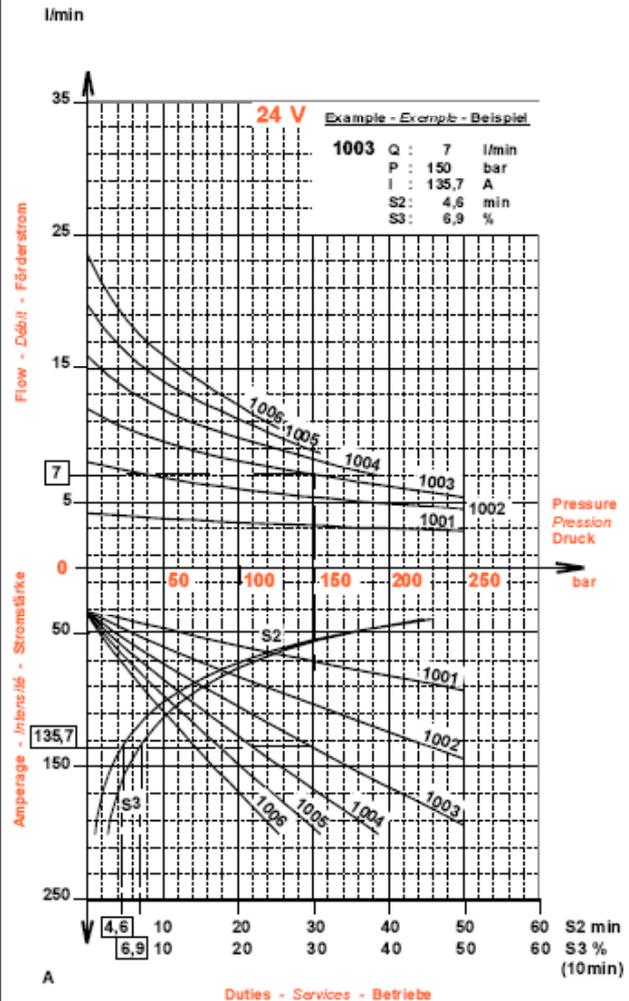
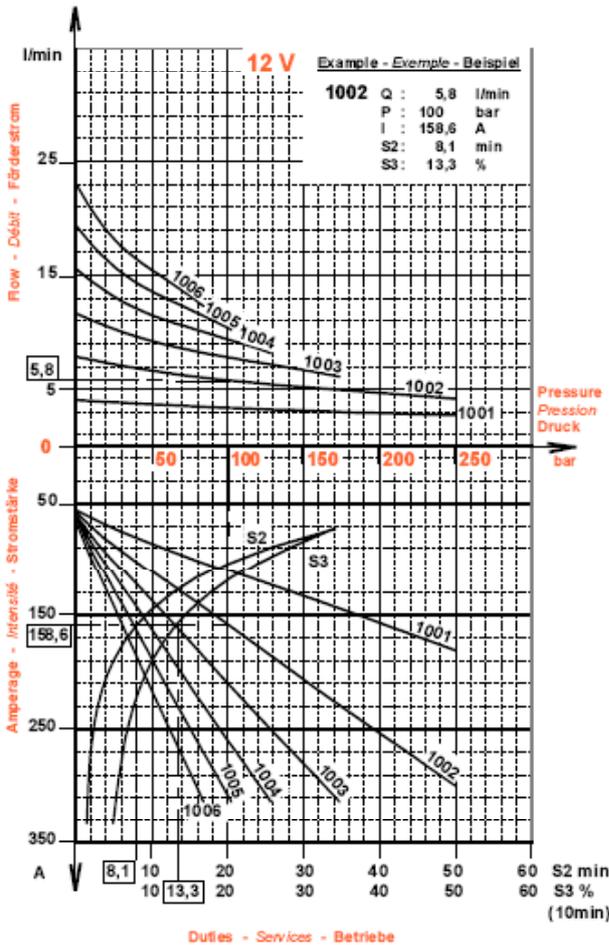
II	III
Sign Signe Zeichen	Sign Signe Zeichen

**DIRECT CURRENT MOTOR 1,8 kW**  
**NOMINAL POWER**  
**S3 ( 10 % of 10 min )**

References  
**110 678**

Code **BI | 2**

II	III
Sign Signe Zeichen	Sign Signe 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)  
I D : Starting Amperage 12 V : 800 Amp.  
24 V : 650 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 **BI** 12 V : 1,5 kW  
24 V : 1,8 kW



**DIRECT CURRENT.**

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>BI</b>	Signe Zeichen	<b>C</b>	Signe Zeichen	<b>T</b>			Signe Zeichen	Signe Zeichen				

( F.T R 0013 )

**DIRECT CURRENT ELECTRIC MOTOR  
ENERGIZING COMPOUND**

References : II Signe | III Signe

**12 V : 110 677**      **BI** | **1**

**24 V : 110 678**      **BI** | **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

PUMPS POMPES PUMPEN	12 V PRESSURE - PRESSION - DRUCK									24 V PRESSURE - PRESSION - DRUCK											
	5 bar	50 bar	100 bar	150 bar	175 bar	200 bar	225 bar	250 bar		5 bar	50 bar	100 bar	150 bar	175 bar	200 bar	225 bar	250 bar				
	72 PSI	725 PSI	1450 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI		72 PSI	725 PSI	1450 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI				
<b>Q</b> Flow in l/min Débit en l/min Fördermenge in l/min	<b>1001</b>	Q	4	3,7	3,4	3,1	3	2,9	2,8	2,7	4,1	3,8	3,5	3,2	3,1	3	2,9	2,8			
		I	59,3	85,8	110,3	133,6	145,4	157,3	169,3	181,4	33,9	46,8	59,6	71,3	76,8	82,3	87,6	92,9			
		S2	30	27,1	17,9	12,1	10	8,3	6,8	5,7	30	30	27,2	20,5	18	15,9	14	12,4			
	<b>I</b> Amperage Intensité en Ampères Stromstärke in Ampere	<b>1002</b>	S3	38,3	29,2	22,1	17,1	15,1	13,5	12	10,8	50	37,8	28,3	22,2	19,9	17,9	16,2	14,7		
			Q	7,7	6,6	5,8	5,2	4,9	4,7	4,4	4,2	7,9	6,8	6	5,4	5,1	4,9	4,7	4,5		
			I	64,5	111,6	158,6	206,7	230,4	253,6	276,4	299,4	36,3	60,3	82,9	103,8	114	124,1	134,1	144		
		<b>S1</b> Permanent Dauerbetrieb	<b>1003</b>	S2	30	17,5	8,1	3,9	2,9	2,3	1,9	1,6	30	26,8	15,7	9,7	7,6	6	4,7	3,7	
				S3	36,6	21,8	13,3	8,9	7,6	6,7	6	5,5	49,4	27,9	17,7	12	10	8,4	7,1	6	
				Q	11,4	9,2	7,8	6,7	6,1				11,6	9,5	8	7	6,6	6,2			
			<b>S2</b> min	<b>1004</b>	I	69,7	137,1	209,9	280,2	315,3				38,7	73	105,1	135,7	150,6	165		
					S2	30	11,4	3,7	1,8	1,5				30	19,7	9,4	4,6	3,2	2,2		
					S3	34,8	16,5	8,7	5,9	5,2				46,2	21,5	11,7	6,9	5,4	4,3		
<b>S3</b> % ( 10 min )				<b>1005</b>	Q	15,1	11,5	9,4						15,3	11,9	9,8	8,2				
					I	72,9	162,5	259,8						40,3	84,6	126,8	166,6				
					S2	30	7,6	2,1						30	15	5,6	2,1				
	<b>S3</b> % ( 10 min )			<b>1006</b>	S3	33,7	12,8	6,5						44,4	17,1	8	4,2				
					Q	18,6	13,6	10,4						18,9	14	11,2					
					I	77,7	188,5	307,6						42,7	95,9	147,4					
		<b>S3</b> % ( 10 min )		<b>1006</b>	S2	30	5,1	1,6						30	11,6	3,4					
					S3	32	10,2	6,4						41,7	13,9	5,7					
					Q	21,9	15,5							22,3	16	12,2					
			<b>S3</b> % ( 10 min )	<b>1006</b>	I	83,1	216,1							45,4	107,8	168,5					
					S2	28,4	3,5							30	8,8	2					
					S3	30,2	8,3							39,1	11,2	4,1					

**MAIN ELECTRO - HYDRAULIC CHARACTERISTICS  
OF MINI POWER PACKS**

MOTOR **BI**      **12 V : 1,5 kW**  
**24 V : 1,8 kW**



**DIRECT CURRENT.**

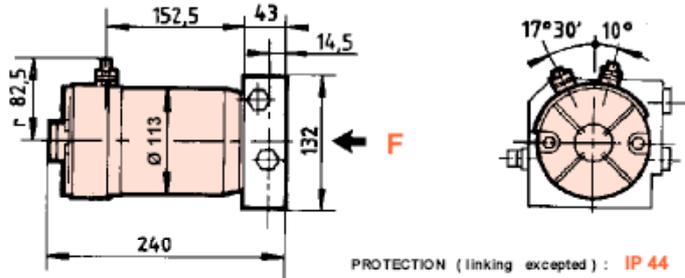
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
	<b>BL</b>	Sign Signe Zeichen	<b>C</b>	Sign Signe Zeichen	<b>T</b>								

(F.T R 0013)

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

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



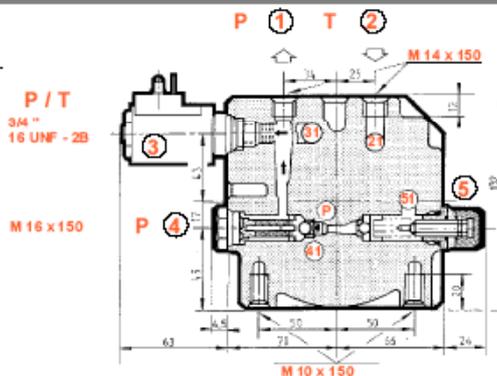
PROTECTION (linking excepted) : IP 44

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
<b>BL1</b>	<b>12 V</b>	<b>109 523</b>	<b>2,1 kW</b>	⊕ M 7 x 100	8,3 Kg
<b>BL2</b>	<b>24 V</b>	<b>109 524</b>	<b>2,2 kW</b>	⊖ M 7 x 100	

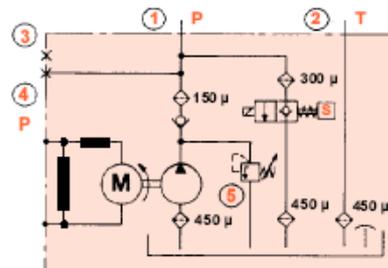
MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm <sup>3</sup> / t	cubic / inch
TYP	Fördervolumen	
	cm <sup>3</sup> / U	cubic / inch
<b>1001</b>	<b>1,02</b>	<b>0,06</b>
<b>1002</b>	<b>2,05</b>	<b>0,12</b>
<b>1003</b>	<b>3,07</b>	<b>0,18</b>
<b>1004</b>	<b>4,09</b>	<b>0,24</b>
<b>1005</b>	<b>5,12</b>	<b>0,30</b>
<b>1006</b>	<b>6,14</b>	<b>0,36</b>

■ with thermo - switch      **12 V : 109 589    -    24 V : 109 571**

VIEW F



Basic hydraulic sketch of a MINI 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

**MINI POWER - PACKS DIRECT CURRENT**

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

**DIRECT CURRENT.**

CODIFICATION

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

(F.T.R 0013)

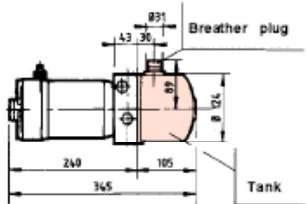
(Sign - Signe - Zeichen IX - X)

TYPE OF TANKS

( Full capacity )

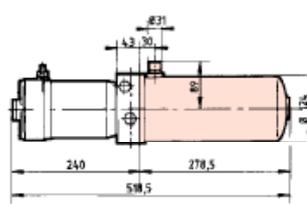
**1,1 L CODE T**

Mass without fluid : 11,1 Kg



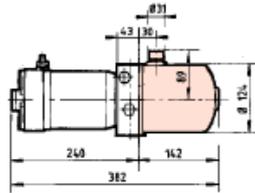
**3 L CODE B**

Mass without fluid : 11,4 Kg



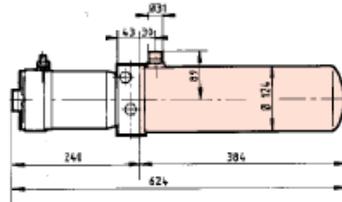
**1,5 L CODE E**

Mass without fluid : 11,2 Kg



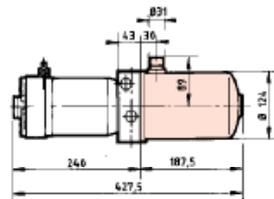
**4 L CODE S**

Mass without fluid : 11,5 Kg



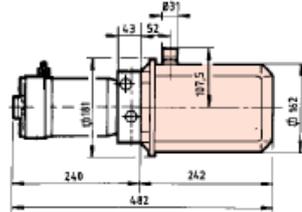
**2 L CODE A**

Mass without fluid : 11,3 Kg



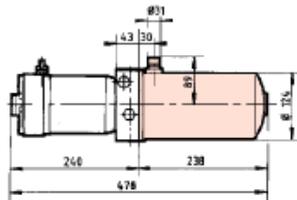
**5 L CODE C**

Mass without fluid : 11,6 Kg



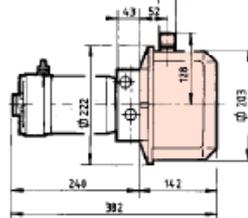
**2,5 L CODE H**

Mass without fluid : 11,3 Kg



**5 L CODE R**

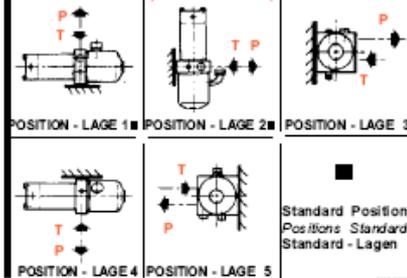
Mass without fluid : 11,9 Kg



TANKS RESERVOIRS BEHÄLTER	POSITIONS LAGEN 1-3-4-5	POSITION LAGE 2
CODE CODE KODE	TYPE TYPE TYP	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN
T	1,1 L	0,75 L 0,6
E	1,5 L	1,1 L 0,85 L
A	2 L	1,65 L 1,3 L
H	2,5 L	2 L 1,9 L
B	3 L	2,5 L 2,15 L
S	4 L	3,6 L 3,25
C	5 L	4,35 L 3,6 L
R	5 L	4 L 3,8 L

FIXING POSITIONS

(F.T.R 0187)



Standard Positions  
Positions Standard  
Standard - Lagen

MINI POWER - PACKS

DIRECT CURRENT

TYPE **BL**

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





DIRECT CURRENT.

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

(F.T R 0013)

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

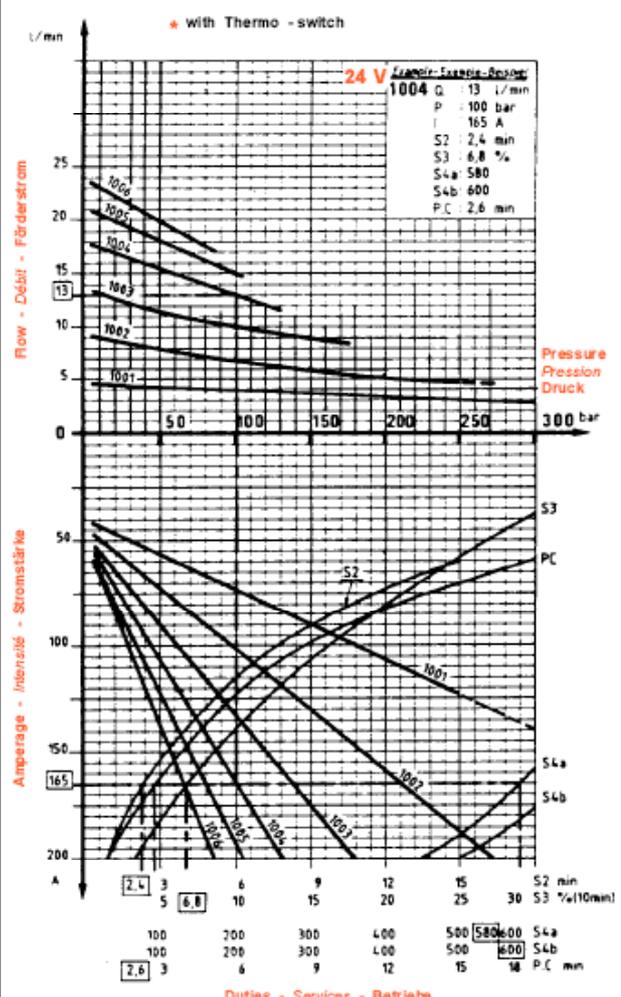
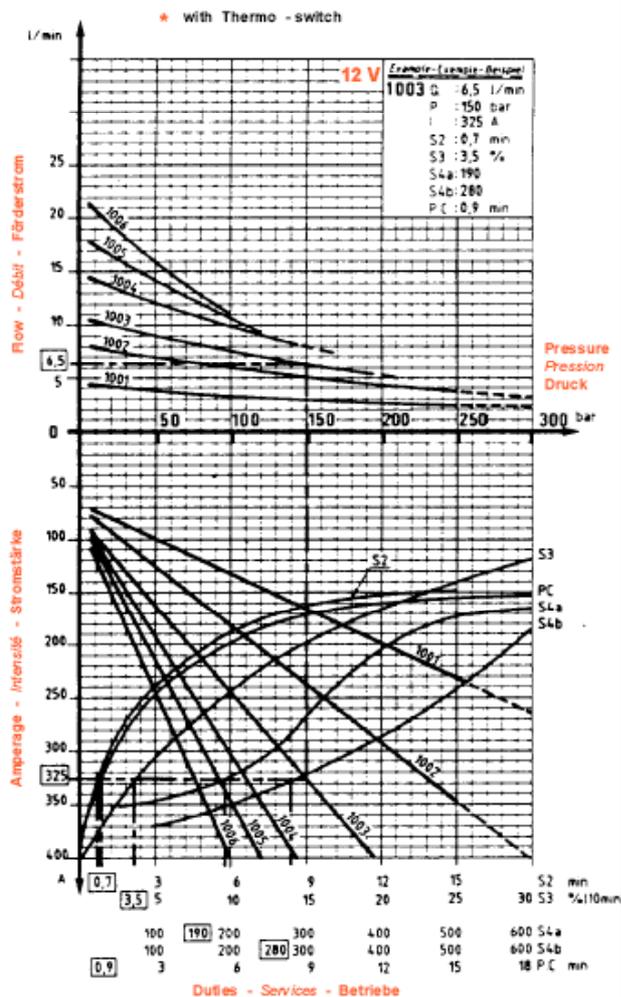
References  
**109 523**  
**\* 109 589**

Code **BL** | **1** | II Sign Signe Zeichen | III Sign Signe Zeichen

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

References  
**109 524**  
**\* 109 571**

Code **BL** | **2** | II Sign Signe Zeichen | III Sign Signe 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)  
I.D : Starting Amperage 12 V : 800 Amp.  
24 V : 650 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 **BL** 12 V : 2,1 kW  
24 V : 2,2 kW



**DIRECT CURRENT.**

CODIFICATION													
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	<b>BL</b>	Signe Zeichen	<b>C</b>	Signe Zeichen	<b>T</b>			Signe Zeichen	Signe Zeichen				

( F.T R 0013 )

**DIRECT CURRENT ELECTRIC MOTOR  
ENERGIZING COMPOUND**

References :                      II Signe    III Signe

<b>12 V : 109 523</b>	<b>BL</b>	<b>1</b>
<b>109 589 *</b>		
<b>24 V : 109 524</b>	<b>BL</b>	<b>2</b>
<b>109 571 *</b>		

\* with thermo-switch

Charts drawn with a constant tension

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

PUMPS POMPES PUMPEN	Q Flow in l/min Débit en l/min Fördermenge in l/min	12 V PRESSURE - PRESSION - DRUCK								24 V PRESSURE - PRESSION - DRUCK							
		5 bar	50 bar	100 bar	150 bar	175 bar	200 bar	225 bar	250 bar	5 bar	50 bar	100 bar	150 bar	175 bar	200 bar	225 bar	250 bar
		72 PSI	725 PSI	1450 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	72 PSI	725 PSI	1450 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI
1001	Q	4,5	3,8	3,3	2,9	2,7	2,5	2,3	2,15	4,5	4,2	3,8	3,5	3,4	3,3	3,2	3
	I	70	100	132	155	182	200	215	232	41	57	73	90	98	106	115	123
	S2	15	15	15	8,5	6,5	5	4	3,5	15	15	11,7	9	7,8	6,8	6,15	5,3
1002	S3	30	30	25	19	17	15	13	11	28,5	25	21,5	18	16,5	15	13,6	12
	Q	8	7	6	5,2	4,6	4,3	4	3,8	8,5	7,5	6,5	5,4	5	4,8	2,1	2
	I	76	125	180	235	262	292	320	350	47	73	102	130	145	159	174	187
1003	S2	15	15	6,5	3	2	1,2	0,8	0,3	15	11,7	7,5	4,6	3,6	2,6	1,9	1,3
	S3	30	28	17	10	7	5,5	4	2,5	60	60	54	16	9,5	7,6	5,9	4,3
	Q	10,6	9,6	7,6	6,5	5,9				12,9	11,5	9,8	8,3	7,6			
1004	I	90	162	244	327	366				51	90	133	175	198			
	S2	15	9	2,5	0,7	0,3				15	9,2	4,5	1,7	1			
	S3	30	20	9	3,5	1,5				27	18,4	11	5,6	3,7			
1005	Q	14,5	12	9,8						17,6	15,4	13					
	I	94	192	302						55	104	165					
	S2	15	5	1,2						15	7	2,4					
1006	S3	30	15,5	5,5						26	15,2	6,9					
	Q	18	14,2	6,1						20,8	18,2	15					
	I	96	215	348						15	122	193					
S1 Permanent Dauerbetrieb	S2	15	5	1,2						15	5,5	1,1					
	S3	30	15,5	5,5						24,5	12,5	3,8					
	Q	21,4	16							23,5	19,8						
S2 min	I	105	242							16	135						
	S2	15	3							14,5	4,15						
	S3	60	10							24,2	10,5						
S3 % ( 10 min )	Q	21,4	16							23,5	19,8						
	I	105	242							16	135						
	S2	15	3							14,5	4,15						
S3 % ( 10 min )	S3	60	10							24,2	10,5						

**MAIN ELECTRO - HYDRAULIC CHARACTERISTICS  
OF MINI POWER PACKS**

MOTOR **BL** 12 V : 2,1 kW  
24 V : 2,2 kW



**DIRECT CURRENT.**

CODIFICATION

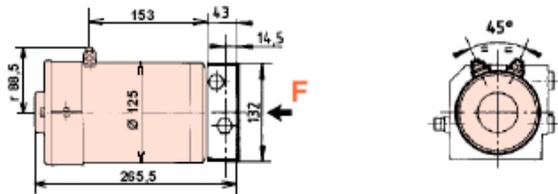
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	C	I	2	C	T								

(F.T R 0013)

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

PUMP TYPE

(Sign - Signe - Zeichen I - V - VI)



PROTECTION (linking excepted) :  
 PROTECTION (sauf raccorderments) :  
 SCHUTZART ( ausser Anschlussklemmen ) :

IP 44

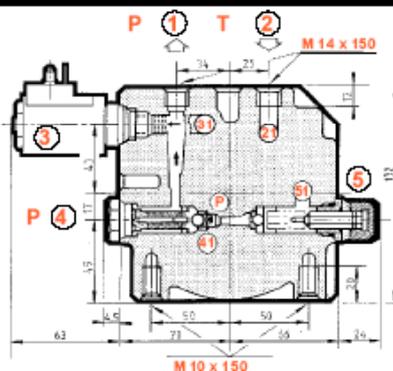
CODE	VOLTAGE	MOTOR REFERENCE	NOMINAL POWER	TERMINALS	MASS. of MOTOR
CODE	TENSION	REFERENCE MOTEUR	PUISSANCE NOM. S3	BORNES	MASSE du MOTEUR
KODE	SPANNUNG	MOTOR REFERENZ	NENNLEISTUNG S3	EL. ANSCHLÜSSE	MASSE von MOTOR
CI 2	24 V	111 895	3 kW(S3 15%)	M 8 x 125	13 Kg

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
1001	1,02	0,06
1002	2,05	0,12
1003	3,07	0,18
1004	4,09	0,24
1005	5,12	0,30
1006	6,14	0,36

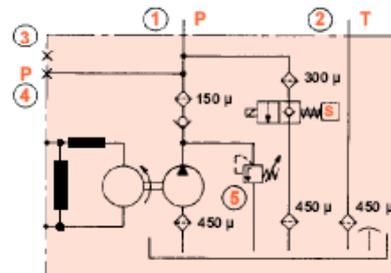
VIEW VUE ANSICHT F

P / T 3/4" 16 UNF - 2B

M 16 x 150



Basic hydraulic sketch of a MINI POWER PACK  
 Schéma hydraulique de base d'une MIN- CENTRALE  
 Grund - Hydraulikschema eines MIN - AGGREGATS



**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

MINI POWER - PACKS DIRECT CURRENT

TYPE **CI** 24 V : 3 kW COMPOUND



**DIRECT CURRENT.**

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	C	I	2	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen			

( F.T.R 0013 )

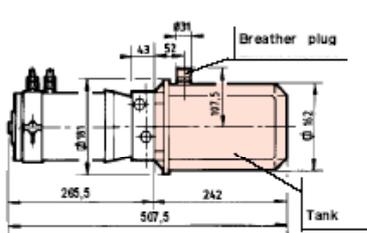
TYPE OF TANKS

( Full capacity )

(Sign - Signe - Zeichen IX - X )

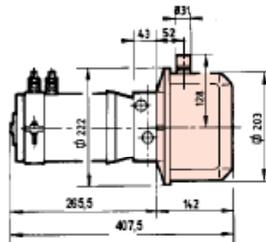
**5 L CODE C**

Mass without fluid : 14,3 Kg



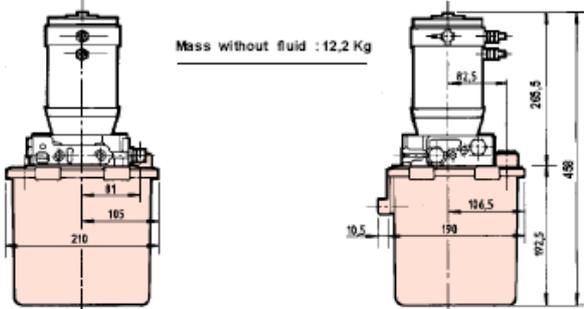
**5 L CODE R**

Mass without fluid : 14,3 Kg



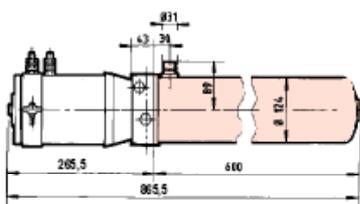
**5,2 L\* CODE V**

Mass without fluid : 12,2 Kg



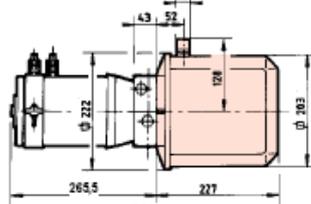
**6 L CODE Z**

Mass without fluid : 14,6 Kg



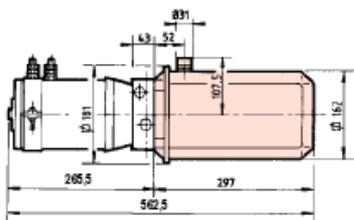
**7,5 L CODE K**

Mass without fluid : 14,5 Kg



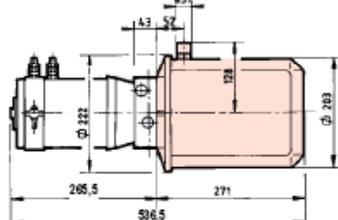
**6 L CODE U**

Mass without fluid : 14,4 Kg



**10 L CODE D**

Mass without fluid : 14,6 Kg

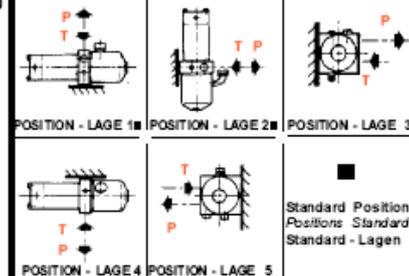


TANKS RESERVOIRS BEHÄLTER		POSITIONS LAGEN 1 - 3 - 4 - 5	POSITION LAGE 2
CODE CODE KODE	TYPE TYPE TYP	FILLING VOLUME VOLUME de REMPLISSAGE EINFÜLLVOLUMEN	
C	5 L	4,35 L	3,6
R	5 L	4 L	3,8 L
* V	5,2 L		4,85 L
Z	6 L	5,1 L	5,2 L
U	6 L	5,5 L	4,9 L
K	7,5 L	7,2 L	6,7
D	10 L	8,8 L	7,4 L

Mounting only in vertical position  
\* Montage uniquement en position verticale  
Montage nur in senkrechter Lage

FIXING POSITIONS  
POSITIONS de FIXATION POSSIBLES  
BEFESTIGUNGSMÖGLICHKEITEN ( Einbaulage )

( F.T.R 0187 )



Standard Positions  
Positions Standard  
Standard - Lagen

MINI POWER - PACKS

DIRECT CURRENT

TYPE

**C I 24 V : 3 kW  
COMPOUND**





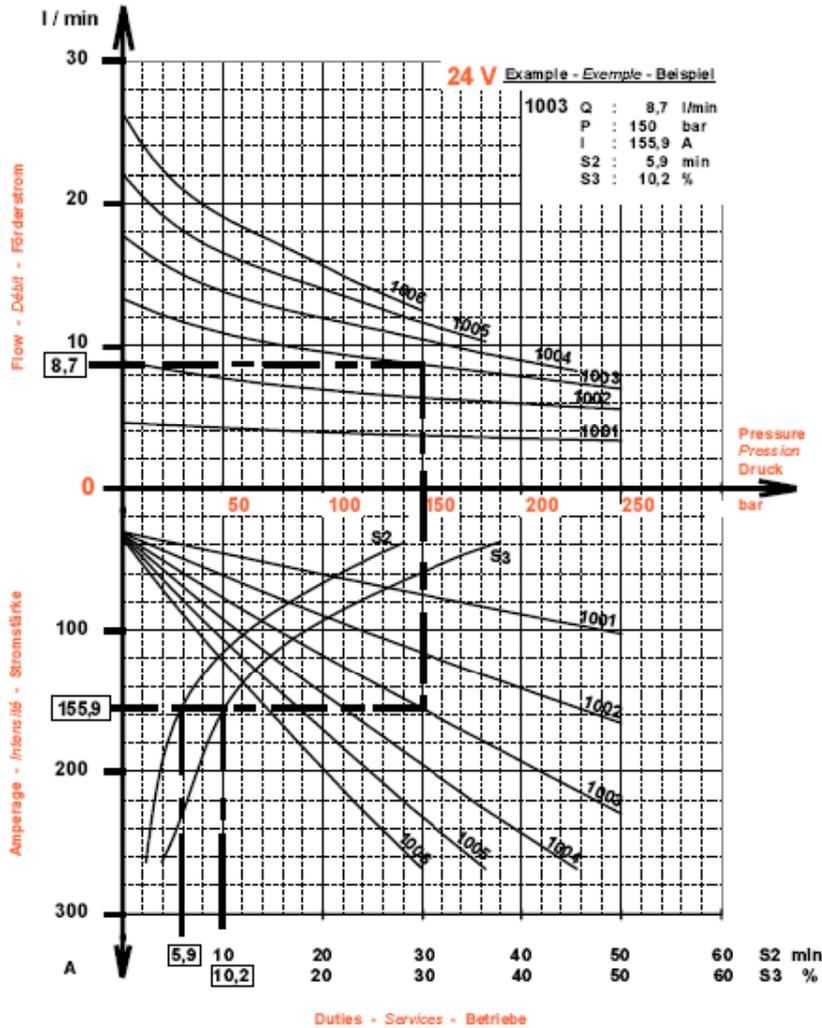
DIRECT CURRENT.

CODIFICATION													
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	C	I	2	C	T								

DIRECT CURRENT MOTOR **3 kW**  
 Energizing COMPOUND  
 NOMINAL POWER  
 S3 ( 15 % of 10 min )

Reference (F.T R 0013)  
**111 895**

Code	<b>CI</b>	<b>2</b>
	II Sign Signe Zeichen	III Sign Signe Zeichen



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

PC: Critical Moment (min)  
 ID: Starting Amperage 24 V (CI - CL): 900 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 **8.7** **155.9**

ELECTRO - HYDRAULIC CHARACTERISTICS

MOTOR TYPE **CI** **24 V : 3 kW**  
**COMPOUND**



**DIRECT CURRENT.**

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	CI	2	C	Sign Signe Zeichen	T			Sign Signe Zeichen	Sign Signe Zeichen				

(F.T R 0013)

**DIRECT CURRENT FAN MOTOR  
ENERGIZING COMPOUND**

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

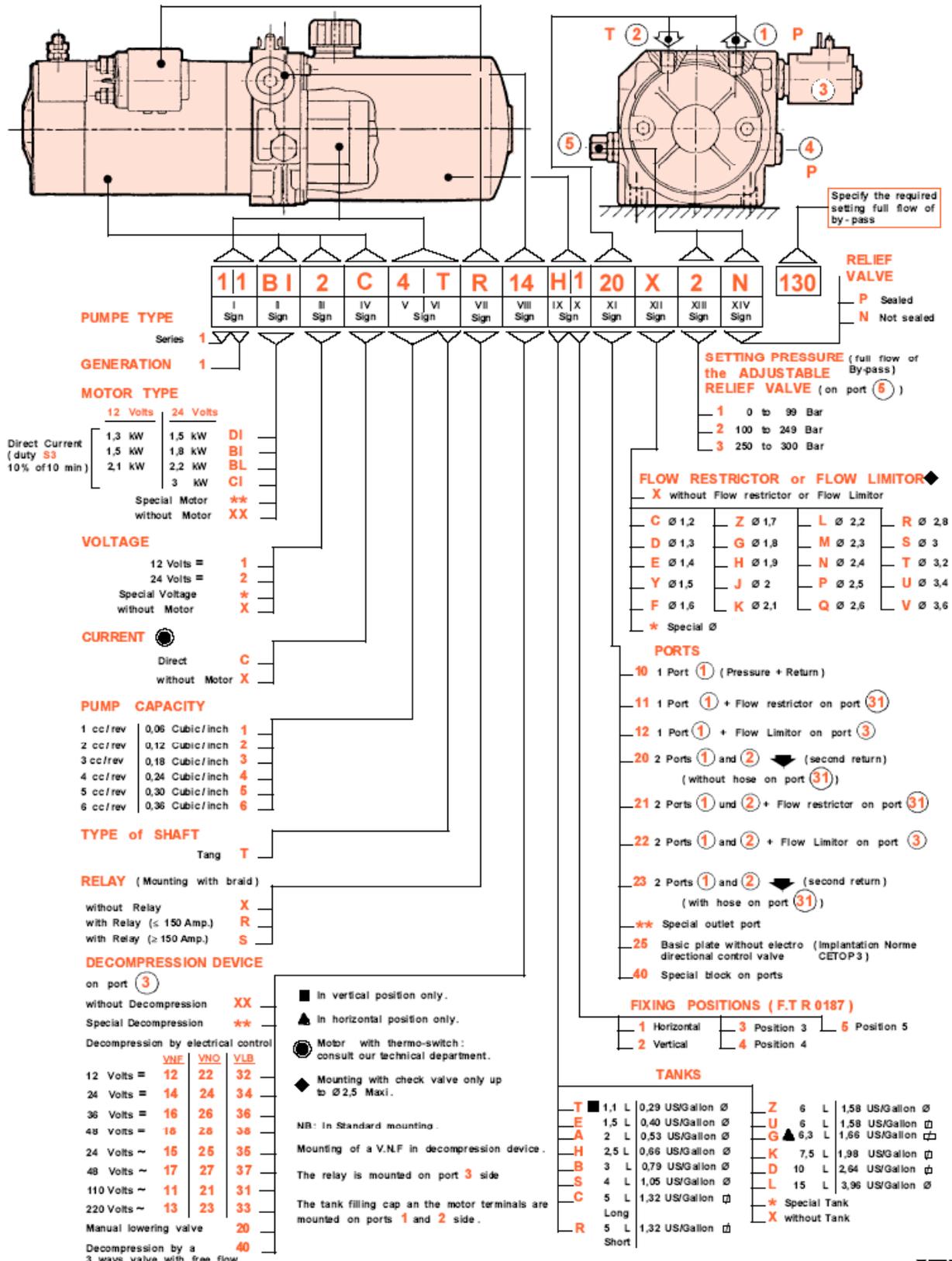
Reference : 24 V : 111 895

	PUMPS POMPES PUMPEN	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 3620 PSI	
<b>Q</b> Flow in l/min Débit en l/min Fördermenge in l/min	<b>1001</b>	Q	4,7	4,3	4	3,8	3,7	3,6	3,5	3,4
		I	40,9	52,5	65,2	77,9	84,3	90,8	97,3	104
		S2	15,4	13,7	12,2	11	10,4	9,9	9,4	9
	<b>1002</b>	S3	42,6	38,4	34,6	31,4	30	28,7	27,4	26,1
		Q	9,1	7,9	7,1	6,5	6,3	6,1	5,9	5,7
		I	43	65,9	91,5	118,2	131,7	145,3	158,6	171,4
	<b>1003</b>	S2	15,1	12,1	9,9	8,1	7,4	6,7	6,1	5,5
		S3	41,8	34,4	28,5	23,8	21,7	19,8	18,1	16,6
		Q	13,4	11,2	9,9	8,9	8,5	8,2	7,9	7,6
	<b>1004</b>	I	45,2	79,8	120	160,7	179,9	197,8	214,7	231,6
		S2	14,7	10,8	8	6	5,2	4,5	3,9	3,4
		S3	40,9	31	23,5	17,8	15,6	13,8	12,1	10,6
<b>1005</b>	Q	17,7	14,3	12,3	10,9	10,4	9,9	9		
	I	46,6	93,8	149	199,9	222,7	247,2	280,7		
	S2	14,5	9,7	6,5	4,4	3,7	3	2,1		
<b>1006</b>	S3	40,4	28,1	19,3	13,5	11,4	9,3	6,7		
	Q	21,8	17	14,4	12,7	11,6				
	I	48,8	108,1	176	234,6	271,1				
<b>S1</b> Permanent Permanent Dauerbetrieb	S2	14,2	8,7	5,3	3,3	2,3				
	S3	39,6	25,4	16,1	10,3	7,4				
	Q	25,8	19,6	16,4	13,4					
<b>S2</b> min	I	51,4	123,7	202,3	285,4					
	S2	13,8	7,8	4,4	1,9					
	S3	38,8	22,9	13,3	6,3					
<b>S3</b> % ( 10 min )										

**MAIN ELECTRO - HYDRAULIC CHARACTERISTICS  
OF MINI POWER PACKS**

MOTOR **CI** 24 V : 3 kW  
COMPOUND

**DIRECT CURRENT.**



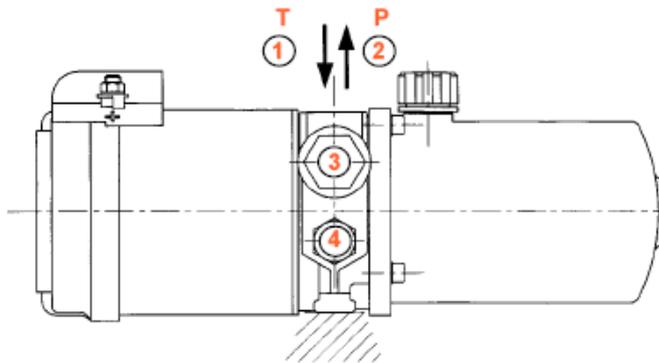
**MINI POWER PACKS "CODING CHART"**

DIRECT CURRENT VERSION **1G** SERIES **1**

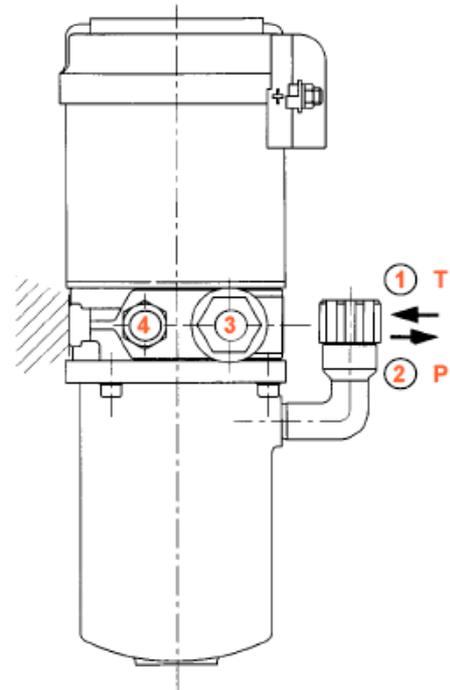


**DIRECT CURRENT.**

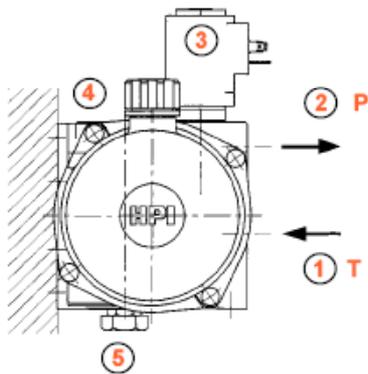
**POSITION 1**



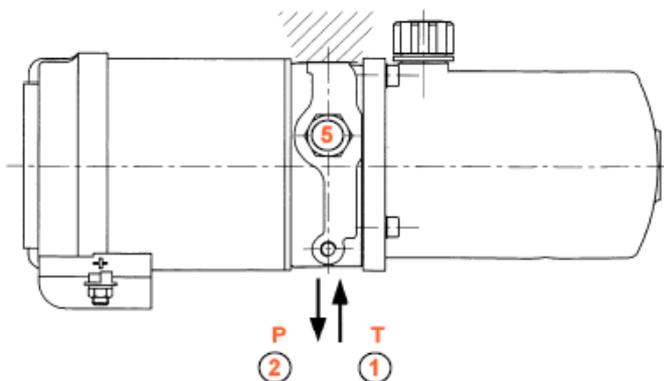
**POSITION 2**



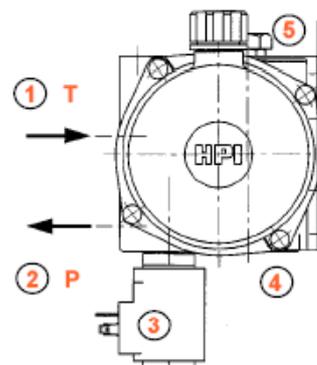
**POSITION 3**



**POSITION 4**



**POSITION 5**



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

VERSION **1G**  
**JTEKT**  
**HPI**

ALTERNATING CURRENT.

<b>Three - Phase</b>	<b>Type</b> <i>Type</i> <b>Typ</b>	<b>Power</b> <i>Puissance</i> <b>Leistung</b>		<b>kW</b>
		<b>S1</b>	<b>S3</b>	
	<b>80</b>	<b>0,95</b>	<b>1,70</b>	<b>2,30</b>
		<b>1,50</b>	<b>2,30</b>	
	<b>90</b>	<b>1,50</b>	<b>3,50</b>	<b>4,40</b>
		<b>4,40</b>		



ALTERNATING CURRENT.

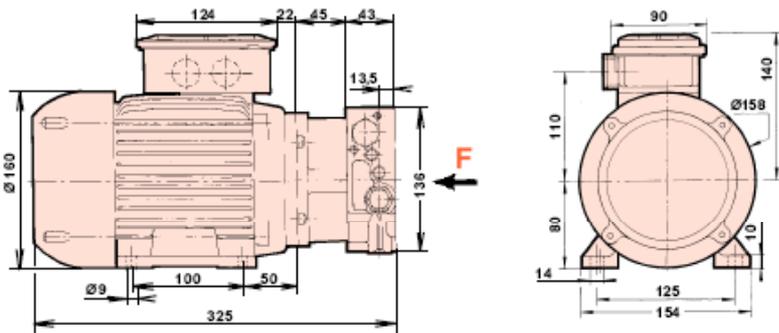
CODIFICATION

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

( F.T R 0179 )

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

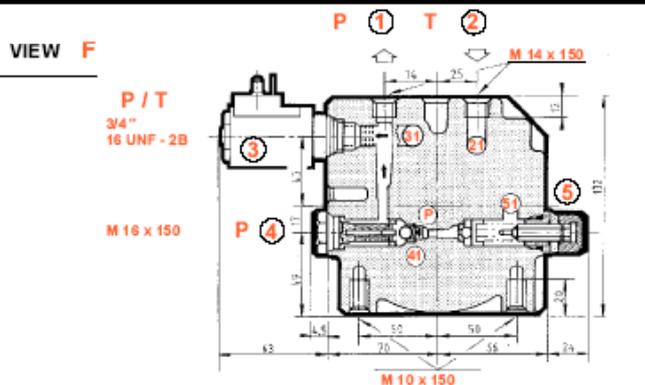
PUMP TYPE (Sign - Signe - Zeichen I - V - VI )



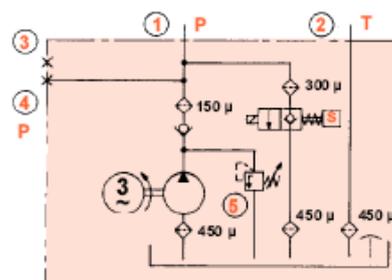
CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHN U / min	LEISTUNG kW	E.D	NOTA	MASSE Kg
PC 6	230/400	112 486	1500	0,95	S1	V	10,6

MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
1001	1,02	0,06
1002	2,05	0,12
1003	3,07	0,18
1004	4,09	0,24
1005	5,12	0,30
1006	6,14	0,36

V Cooled Ventilée Belüftet



Basic hydraulic sketch of a MINI POWER PACK



ACCESSORIES

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

MINI POWER - PACKS 1G THREE - PHASE

TYPE 80 DUTY S1



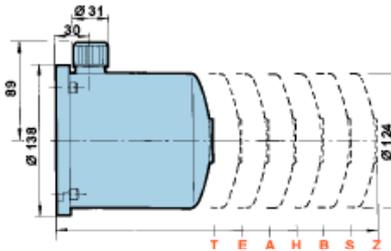
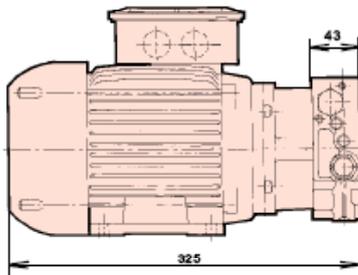
ALTERNATING CURRENT.

CODIFICATION

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

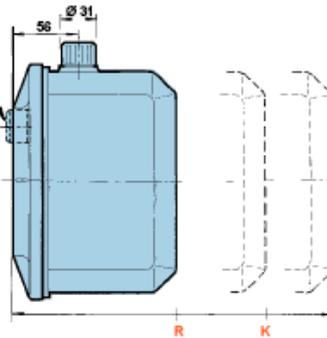
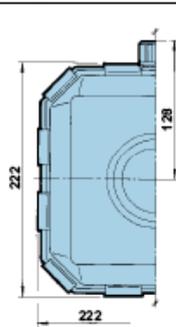
(F.T R 0179)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)

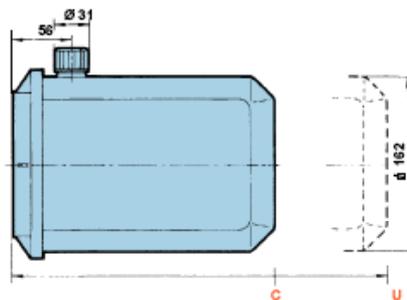
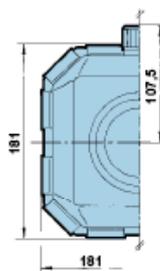


CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600

Cap located in position 2



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	205
D	10 L	249



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

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	
■ R	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,15 L
S	4 L	3,6 L	3,25 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

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



ALTERNATING CURRENT.

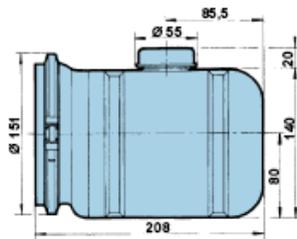
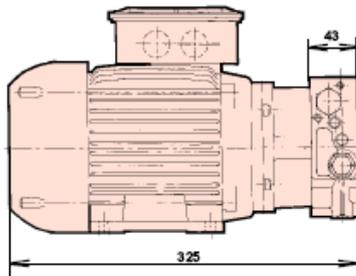
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	PC	6	T	Signe Signe Zächen	C	X							

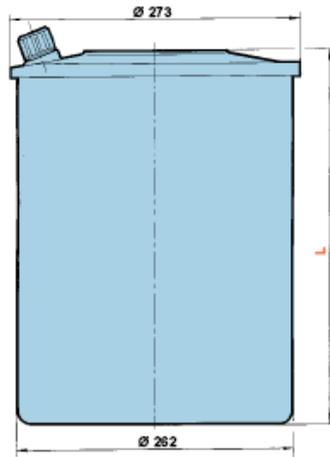
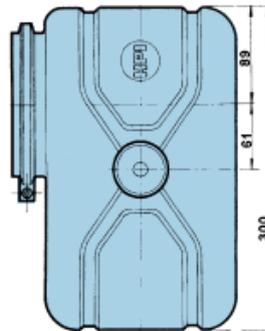
(F.T R 0179)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
G	6,3 L



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
L	15 L	342

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	1 - 3 - 4 - 5	2
		USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
▲ G	6,3 L	5,4 L	
■ L	15 L		13 L

■ In vertical position only

▲ In horizontal position only

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



ALTERNATING CURRENT.

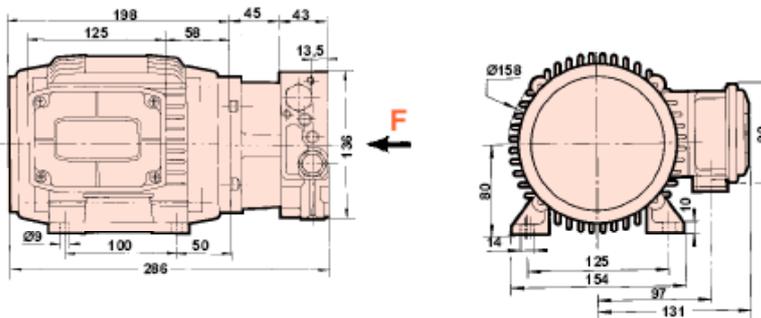
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	PD	7	T	Sign Signe Zeichen	C	X							

( F.T R 0179 )

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

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

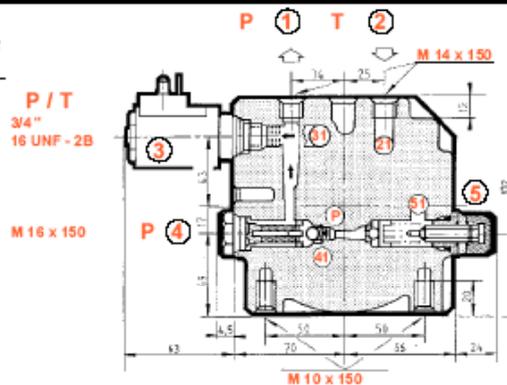


CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER kW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE l / min	PUISSANCE kW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG kW	E.D	NOTA	MASSE Kg
PD7	230/400	112 442	3600	1,50	S1	NV	11,1

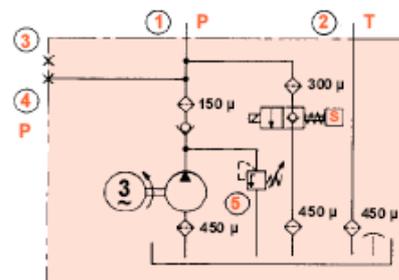
MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
1001	1,02	0,06
1002	2,05	0,12
1003	3,07	0,18
1004	4,09	0,24
1005	5,12	0,30
1006	6,14	0,36

NV Not cooled

VIEW F



Basic hydraulic sketch of a MINI POWER PACK



ACCESSORIES

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

MINI POWER - PACKS 1G THREE - PHASE

TYPE 80 DUTY S1



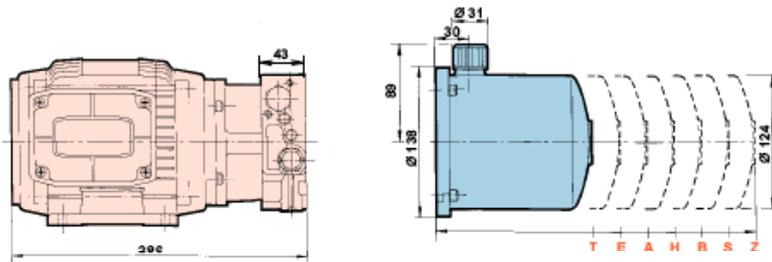
ALTERNATING CURRENT.

CODIFICATION

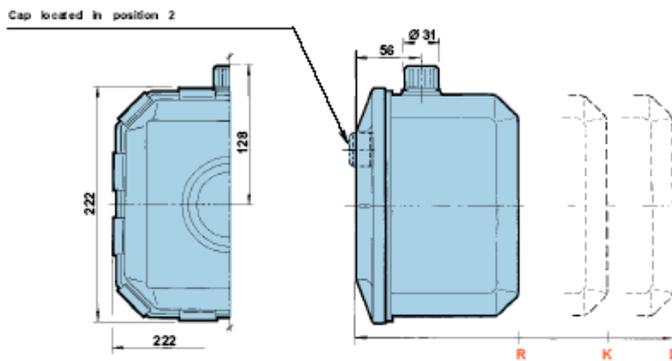
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	PD	7	T	Sign Signe Zeichen	C	X							

(F.T R 0179)

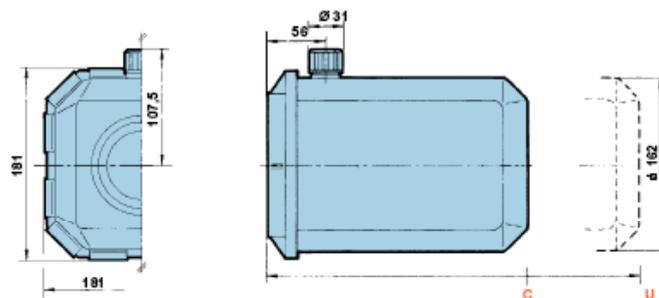
TYPE of TANKS (Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	205
D	10 L	249



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	1 - 3 - 4 - 5	2
USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
■ R	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,15 L
S	4 L	3,6 L	3,25 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

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



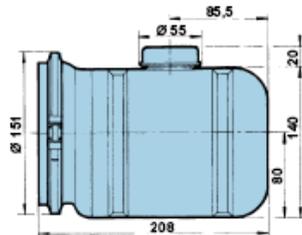
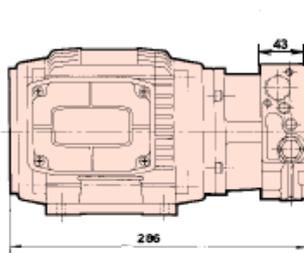
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CODIFICATION

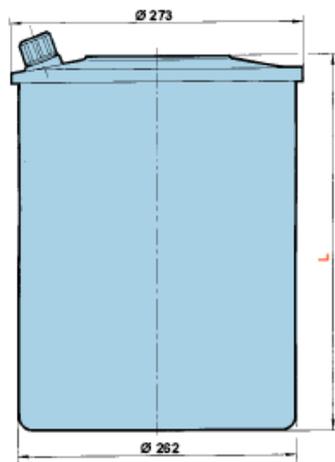
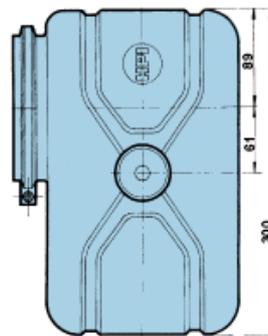
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	PD	7	T		C	X							

(F.T R 0179)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
G	6,3 L



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
L	15 L	342

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
▲ G	6,3 L	5,4 L	
■ L	15 L		13 L

■ In vertical position only

▲ In horizontal position only

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



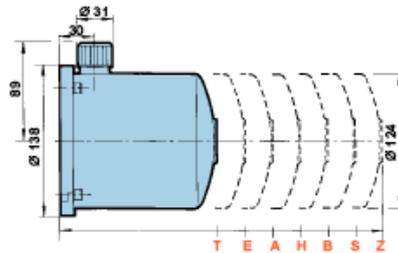
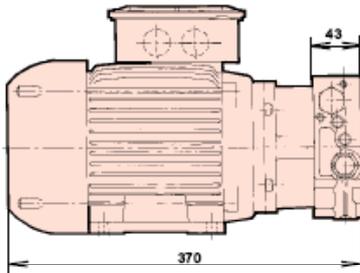


ALTERNATING CURRENT.

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

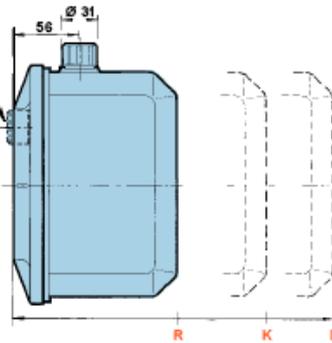
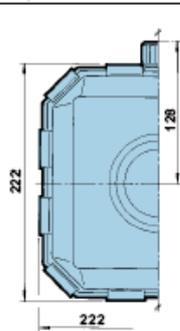
(F.T R 0179)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)

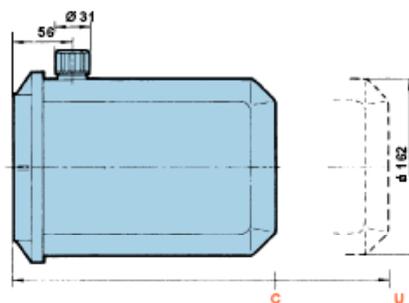
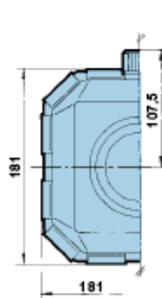


CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600

Cap located in position 2



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	205
D	10 L	249



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	1 - 3 - 4 - 5	2
USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
■ R	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,15 L
S	4 L	3,6 L	3,25 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

MINI POWER - PACKS **1G** THREE - PHASE TYPE **90** DUTY **S1**



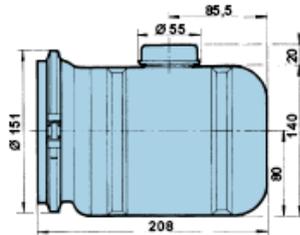
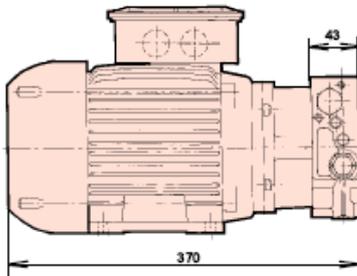
ALTERNATING CURRENT.

CODIFICATION

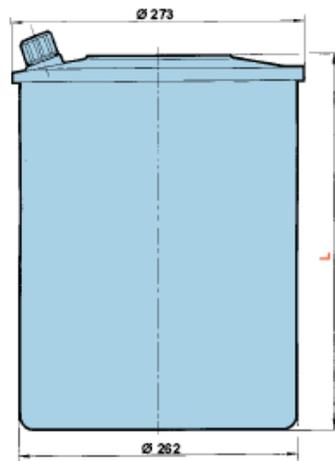
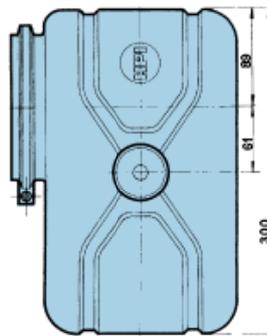
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

(F.T R 0179)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
G	6,3 L



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
L	15 L	342

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	1 - 3 - 4 - 5	2
▲ G	6,3 L	5,4 L	
■ L	15 L		13 L

■ in vertical position only

▲ in horizontal position only

MINI POWER - PACKS **1G** THREE - PHASE TYPE **90** DUTY **S1**



ALTERNATING CURRENT.

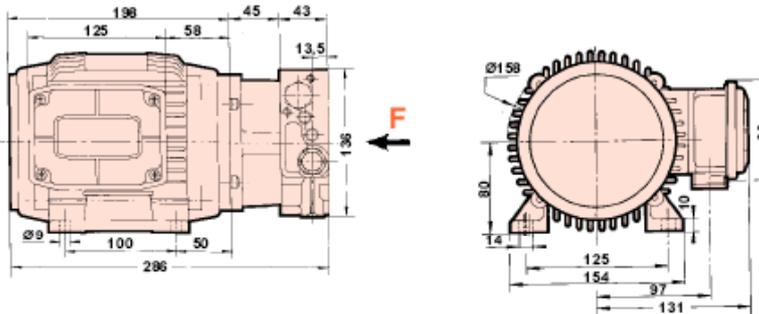
CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
<b>11</b>	Sign Signe Zeichen	<b>6</b>	<b>T</b>	Sign Signe Zeichen	<b>C</b>	<b>X</b>							

( F.T R 0179 )

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

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

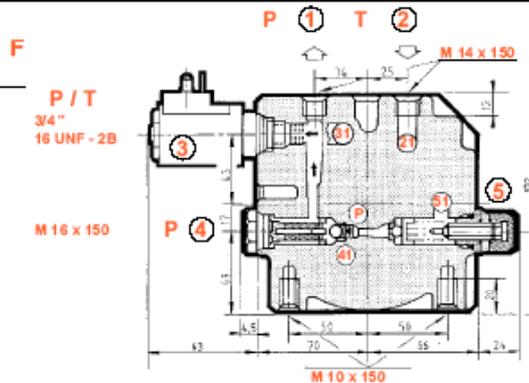


CODE	VOLTAGE	MOTOR REFERENCE	SPEED rev / min	POWER KW	DUTY	NOTA	MASSE Kg
CODE	TENSION	REFERENCE MOTEUR	VITESSE t / min	PUISSANCE KW	SERVICE	NOTA	MASSE Kg
KODE	SPANNUNG	MOTOR REFERENZ	DREHZAHL U / min	LEISTUNG KW	E.D	NOTA	MASSE Kg
<b>PE 6</b>	230/400	112 424	3000	1,70	S3	NV	11,1
<b>PF 6</b>	230/400	112 114	3000	2,30	S3	NV	10,9

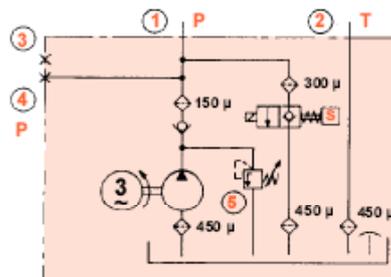
MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	Capacité	
	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
<b>1001</b>	1,02	0,06
<b>1002</b>	2,05	0,12
<b>1003</b>	3,07	0,18
<b>1004</b>	4,09	0,24
<b>1005</b>	5,12	0,30
<b>1006</b>	6,14	0,36

NV Not cooled  
Non Ventilée  
nicht belüftet

VIEW



Basic hydraulic sketch of a MINI POWER PACK  
Schéma hydraulique de base d'une MINI - CENTRALE  
Grund - Hydraulikschema eines MINI - AGGREGATS



ACCESSORIES

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

MINI POWER - PACKS **1G** THREE - PHASE

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



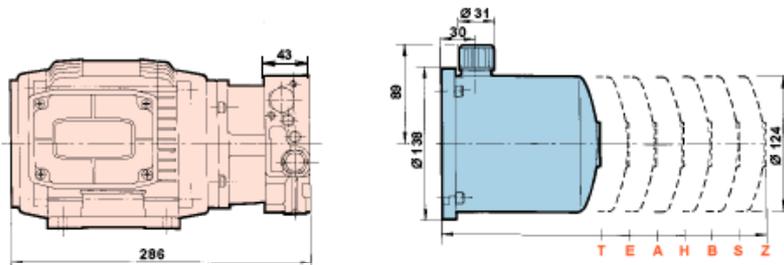
ALTERNATING CURRENT.

CODIFICATION

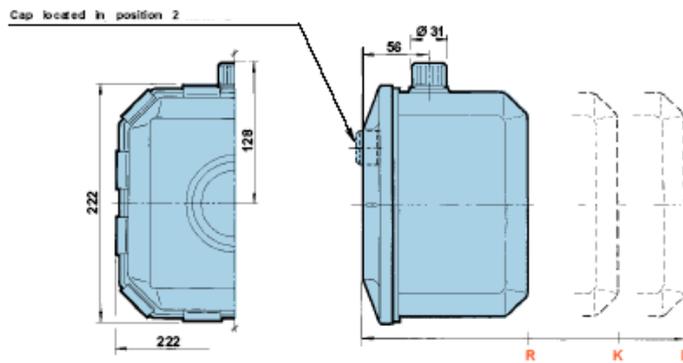
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	Signe Zeichen	6	T	Signe Zeichen	C	X							

(F.T R 0179)

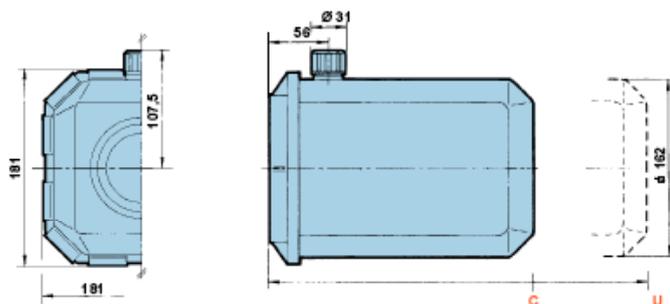
TYPE of TANKS (Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	205
D	10 L	249



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	1 - 3 - 4 - 5	2
USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT			
■ R	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,15 L
S	4 L	3,6 L	3,25 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

MINI POWER - PACKS **1G** THREE - PHASE TYPE **80** DUTY **S3**



ALTERNATING CURRENT.

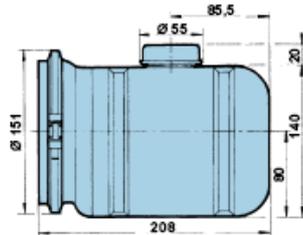
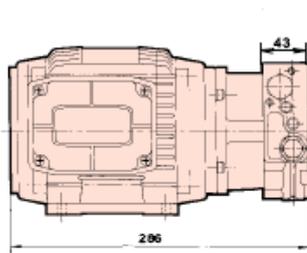
CODIFICATION

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

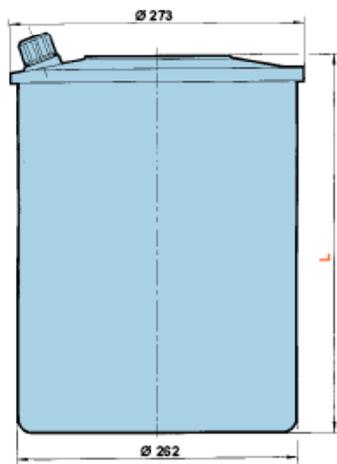
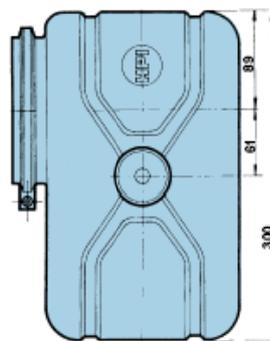
(F.T R 0179)

TYPE of TANKS

(Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
G	6,3 L



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
L	15 L	342

TANKS RESERVOIRS BEHÄLTER		POSITIONS POSITIONS BEFESTIGUNGS	POSITION POSITION BEFESTIGUNG
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
▲ G	6,3 L	5,4 L	
■ L	15 L		13 L

■ In vertical position only

▲ In horizontal position only

MINI POWER - PACKS **1G** THREE - PHASE TYPE **80** DUTY **S3**



ALTERNATING CURRENT.

CODIFICATION

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

( F.T R 0179 )

	PUMPS POMPES PUMPEN	PRESSURE - PRESSION - DRUCK											
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	3990 PSI	4350 PSI	
Q Flow in l/min Débit en l/min Fördermenge in l/min	1001	Q	3,05	3,02	3,00	2,97	2,94	2,90	2,85	2,90	2,75	2,70	
		I	2,00	2,05	2,25	2,37	2,50	2,65	2,80	3,00	3,20	3,45	
I Amperage Intensité en Ampères Stromstärke in Ampere	1002	Q	6,15	6,05	5,90	5,80							
		I	2,00	2,15	2,80	3,20							
	1003	Q	9,20	9,00									
		I	2,00	2,50									
	1004	Q	12,25	11,90									
		I	2,00	2,85									
	1005	Q	15,30	14,70									
		I	2,05	3,25									
	1006	Q	18,40										
		I	2,05										
DUTIES - SERVICES - E.D. / NOISE - BRUIT - SCHALLDRUCK													
S3 % ( 10 min )	1001	S3	50	50	40	32	25	20	16	14	12	10	
		dBa	55	57	57	58	58	58	59	59	60	60	
	1002	S3	50	36	13	10							
		dBa	57	59	59	60							
	1003	S3	50	21									
		dBa	59	61									
	1004	S3	50	14									
		dBa	61	63									
	1005	S3	50	10									
		dBa	63	65									
	1006	S3	50										
		dBa	65										

CODIFICATION

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

( F.T R 0179 )

	PUMPS POMPES PUMPEN	PRESSURE - PRESSION - DRUCK											
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	3990 PSI	4350 PSI	
Q Flow in l/min Débit en l/min Fördermenge in l/min	1001	Q	3,05	3,02	3,00	2,97	2,94	2,90	2,88	2,85	2,80	2,75	2,70
		I	2,30	2,45	2,70	2,80	2,90	3,05	3,20	3,40	3,60	3,80	4,00
I Amperage Intensité en Ampères Stromstärke in Ampere	1002	Q	6,15	6,08	6,00	5,90	5,80	5,70					
		I	2,30	2,65	3,20	3,60	4,00	4,40					
	1003	Q	9,20	9,05	8,80								
		I	2,30	3,00	4,00								
	1004	Q	12,25	12,00									
		I	2,30	3,25									
	1005	Q	15,30	14,90									
		I	2,35	3,70									
	1006	Q	18,40	17,80									
		I	2,35	4,10									
DUTIES - SERVICES - E.D. / NOISE - BRUIT - SCHALLDRUCK													
S3 % ( 10 min )	1001	S3	50	50	50	50	50	35	30	26	22	18	16
		dBa	56	58	58	59	59	59	60	60	61	61	62
	1002	S3	50	50	24	19	14	10					
		dBa	58	60	60	61	62	62					
	1003	S3	50	36	12								
		dBa	60	62	63								
	1004	S3	50	26									
		dBa	62	64									
	1005	S3	50	19									
		dBa	64	66									
	1006	S3	50	15									
		dBa	66	67									

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF MINI POWER PACKS





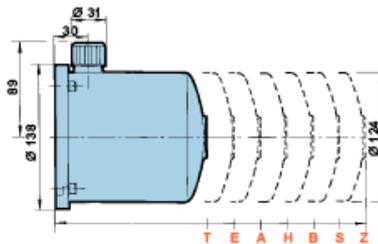
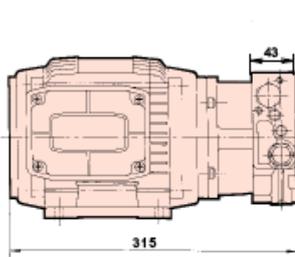
ALTERNATING CURRENT.

CODIFICATION

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

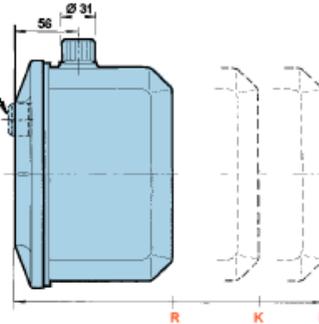
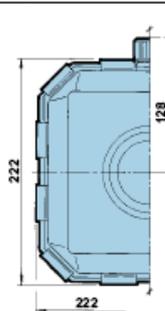
(F.T R 0013)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)

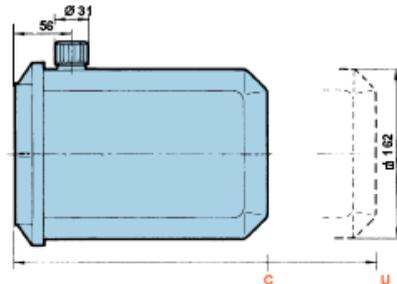
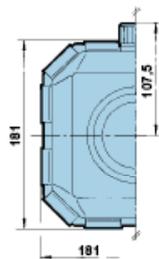


CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600

Cap located in position 2



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	205
D	10 L	249



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
■ R	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,15 L
S	4 L	3,6 L	3,25 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

MINI POWER - PACKS **1G** THREE - PHASE TYPE **90** DUTY **S3**



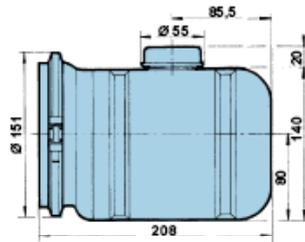
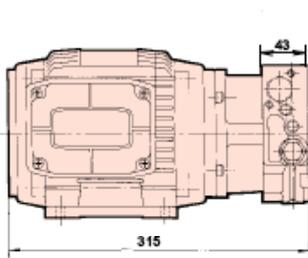
ALTERNATING CURRENT.

CODIFICATION

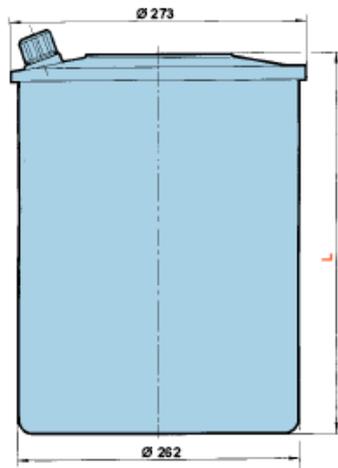
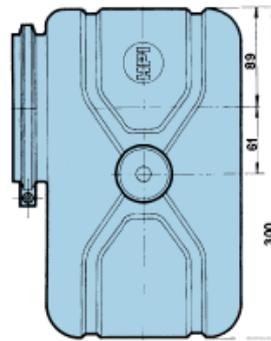
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
11	Sign Signe Zeichen	6	T	Sign Signe Zeichen	C	X							

(F.T R 0179)

TYPE of TANKS (Sign - Signe - Zeichen IX-X)



CODE CODE KODE	TYPE TYPE TYP
G	6,3 L



CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
L	15 L	342

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
▲ G	6,3 L	5,4 L	
■ L	15 L		13 L

- In vertical position only  
Uniquement en Position verticale  
Nur in vertikaler Lage
- ▲ In horizontal position only  
Uniquement en Position horizontale  
Nur in horizontaler Lage

JTEKT



MINI POWER - PACKS **1G** THREE - PHASE TYPE **90** DUTY **S3**

ALTERNATING CURRENT.

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

(F.T R 0179)

	PUMPS POMPES PUMPEN	PRESSURE - PRESSION - DRUCK											
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	3990 PSI	4350 PSI	
<b>Q</b> Flow in l/min Débit en l/min Fördermenge in l/min	1001	Q	3,05	3,02	3,00	2,97	2,94	2,90	2,88	2,86	2,84	2,82	2,80
		I	3,00	3,20	3,30	3,40	3,50	3,60	3,80	4,00	4,20	4,40	4,60
	1002	Q	6,15	6,10	6,00	5,95	5,90	5,95	5,80	5,70	5,60	5,40	
		I	3,00	3,35	3,80	4,15	4,50	4,80	5,10	5,55	6,00	6,50	
	1003	Q	9,20	9,10	9,00	8,90	8,80	8,70					
		I	3,00	3,60	4,50	5,15	5,80	6,50					
<b>I</b> Amperage Intensité en Ampères Stromstärke in Ampere	1004	Q	12,25	11,90	11,50	11,20							
		I	3,05	3,90	5,00	5,95							
	1005	Q	15,30	14,80	14,40								
		I	3,05	4,30	6,40								
	1006	Q	18,40	17,60									
		I	3,05	4,70									
DUTIES - SERVICES - E.D.		DUTIES - SERVICES - E.D. / NOISE - BRUIT - SCHALLDRUCK											
<b>S3</b> % (10 min)	1001	S3	50	50	50	50	50	50	48	44	40	36	33
		dBa	57	59	59	60	60	60	61	61	62	62	63
	1002	S3	50	50	42	37	29	23	20	17	14	11	
		dBa	59	61	61	62	63	63	64	64	65	65	
	1003	S3	50	50	27	20	15	12					
		dBa	61	63	64	64	65	65					
<b>dBa</b> Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	1004	S3	50	45	18	12							
		dBa	63	65	66	67							
	1005	S3	50	37	12								
		dBa	65	67	68								
	1006	S3	50	32									
		dBa	67	68									

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

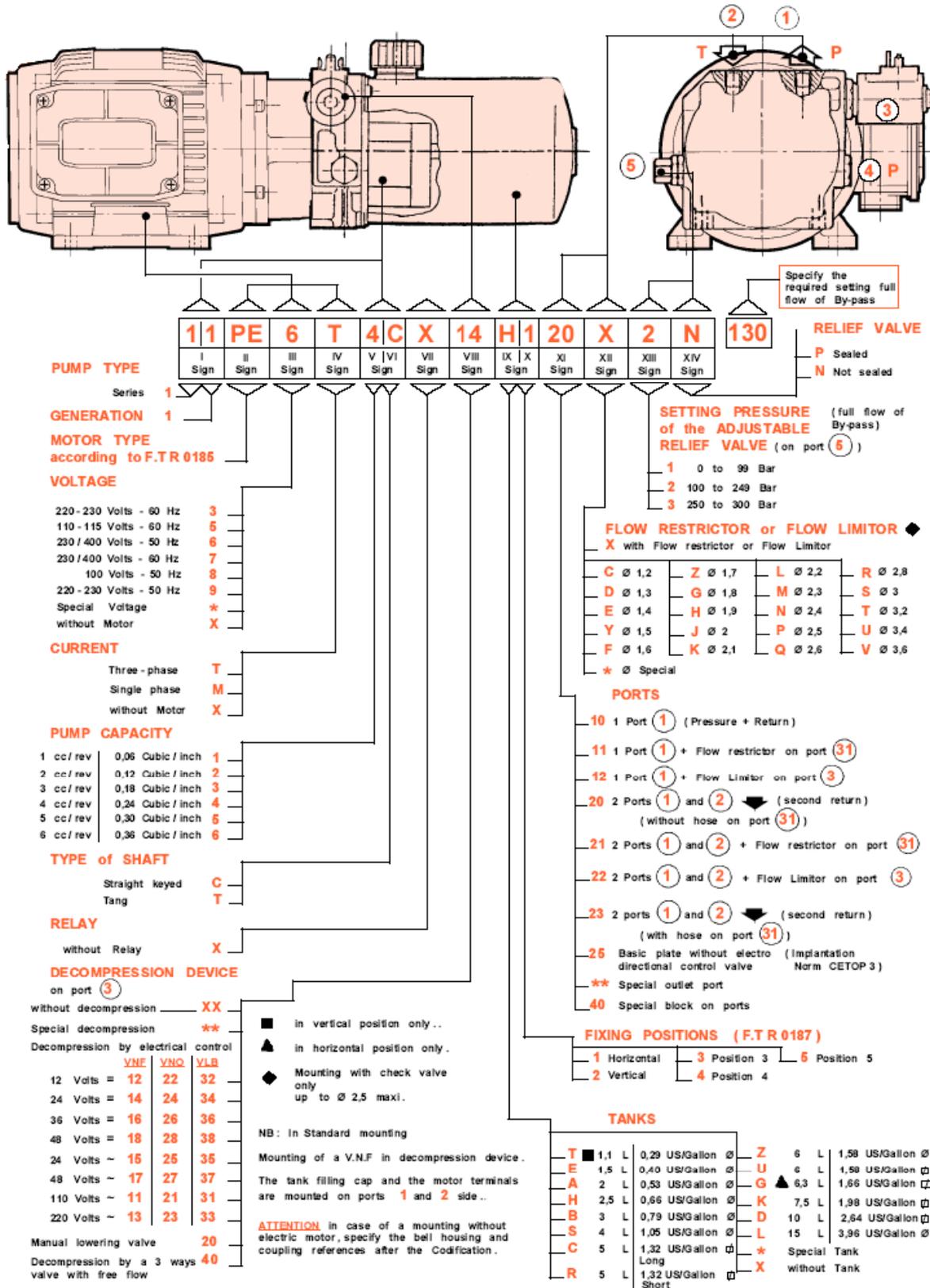
(F.T R 0179)

	PUMPS POMPES PUMPEN	PRESSURE - PRESSION - DRUCK											
		5 bar	50 bar	100 bar	125 bar	150 bar	175 bar	200 bar	225 bar	250 bar	275 bar	300 bar	
		72 PSI	725 PSI	1450 PSI	1810 PSI	2175 PSI	2540 PSI	2900 PSI	3260 PSI	3630 PSI	3990 PSI	4350 PSI	
<b>Q</b> Flow in l/min Débit en l/min Fördermenge in l/min	1001	Q	3,05	3,02	3,00	2,97	2,94	2,90	2,88	2,86	2,84	2,82	2,80
		I	5,90	5,95	6,00	6,02	6,05	6,08	6,12	6,18	6,25	6,32	6,40
	1002	Q	6,15	6,10	6,00	5,95	5,90	5,85	5,80	5,75	5,70	5,50	5,40
		I	5,90	6,00	6,10	6,30	6,50	6,70	6,90	7,20	7,60	7,90	8,20
	1003	Q	9,20	9,10	9,00	8,95	8,90	8,80	8,70	8,60	8,50		
		I	5,90	6,05	6,50	6,85	7,25	7,80	8,40	9,00	9,60		
<b>I</b> Amperage Intensité en Ampères Stromstärke in Ampere	1004	Q	12,25	12,10	12,00	11,90	11,80	11,70					
		I	5,90	6,15	6,90	7,50	8,20	9,00					
	1005	Q	15,30	15,00	14,90	14,70	14,60						
		I	5,90	6,30	7,60	8,70	9,80						
	1006	Q	18,40	18,00	17,70	17,50							
		I	5,90	6,50	8,30	9,50							
DUTIES - SERVICES - E.D.		DUTIES - SERVICES - E.D. / NOISE - BRUIT - SCHALLDRUCK											
<b>S3</b> % (10 min)	1001	S3	50	50	50	50	50	50	50	48	45	40	40
		dBa	58	60	60	61	61	61	62	62	63	63	63
	1002	S3	50	50	46	41	34	30	26	21	17	15	13
		dBa	60	62	62	63	64	64	65	65	66	66	66
	1003	S3	50	50	32	26	18	15	13	11	10		
		dBa	62	64	65	65	66	66	67	68	68		
<b>dBa</b> Noise at 1 meter Bruit à 1 mètre Schalldruck bei 1 Meter Abstand	1004	S3	50	48	24	16	12	10					
		dBa	64	66	67	68	68	69					
	1005	S3	50	41	16	12	10						
		dBa	66	68	69	69	70						
	1006	S3	50	36	12	10							
		dBa	68	69	70	70							

MAIN ELECTRO - HYDRAULIC CHARACTERISTICS OF MINI POWER PACKS



ALTERNATING CURRENT.



MINI POWER PACKS " CODING CHART "

ALTERNATING CURRENT VERSION 1G SERIES 1



## ALTERNATING CURRENT.

## Frame 80

## Three-Phase Motors

II Sign Zeichen	Voltage Tension Spannung III Sign 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	109 663
PD	7	112 442	3600	1,50	S3	60	not cooled - UL approved Non ventilé - Certifié UL - nicht belüftet - UL zertifiziert	
PE	6	112 424	3000	1,70	S3	50	not cooled - Non ventilé - nicht belüftet	
PF	6	112 114	3000	2,30	S3	50	not cooled - Non ventilé - nicht belüftet	
PH	6	112 386	2750	2,30	S3	50	Motor at tang - not cooled - Moteur à tenon - Non ventilé Motor mit Zapfen - nicht belüftet	112 387

## Frame 90

II Sign Zeichen	Voltage Tension Spannung III Sign 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
RA	6	112 487	1500	1,50	S1	50	air cooled - Ventilé - belüftet	109 662
RB	6	112 433	3000	1,50	S1	50	air cooled - Ventilé - belüftet	
RC	6	112 272	3000	3,50	S3	50	not cooled - Non ventilé - nicht belüftet	
RD	6	112 425	3000	4,40	S3	50	not cooled - Non ventilé - nicht belüftet	

**THREE-PHASE MOTORS for MINI ELECTRO PUMP SETS  
and MINI POWER PACKS**

## ALTERNATING CURRENT.

Frame **80**

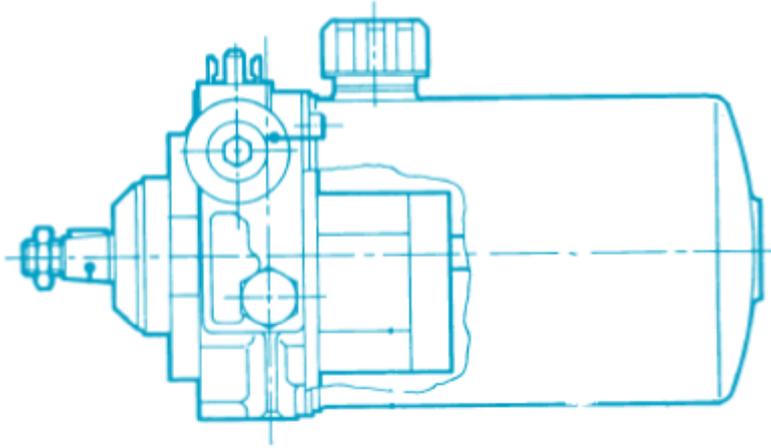
## Single phase Motors

II Sign Signe Zeichen	Voltage Tension Spannung	Ref.	Speed Vitesse Drehzahl rev / min t / min U / min	Power Puissance Leistung kW	Duty Service E.D	Frequency Frequence Frequenz Hz	Condenser Condensateur Kondensator		NB Nota Nota	Bell - Housing Lanterne Flansch
							Starting Démarrage Anlauf	Permanent Permanent Permanent		
<b>PA</b>	<b>9</b>	<b>112 437</b>	<b>3000</b>	<b>0,75</b>	<b>S1</b>	<b>50</b>	<b>25 µF</b>	<b>16 µF</b>	air cooled - Ventilé - belüftet	<b>109 663</b>
<b>PB</b>	<b>5</b>	<b>112 438</b>	<b>3450</b>	<b>0,75</b>	<b>S1</b>	<b>60</b>	<b>80 µF</b>		air cooled - Ventilé - belüftet	

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

**SINGLE PHASE MOTORS for MINI ELECTRO PUMP SETS  
and MINI POWER PACKS**

PUMPS SETS WITH TANK.



**TANKS**

*RESERVOIRS* **1,1 L to - à - bis 10 L**

**BEHÄLTER**

**PUMPS SETS WITH TANK.**

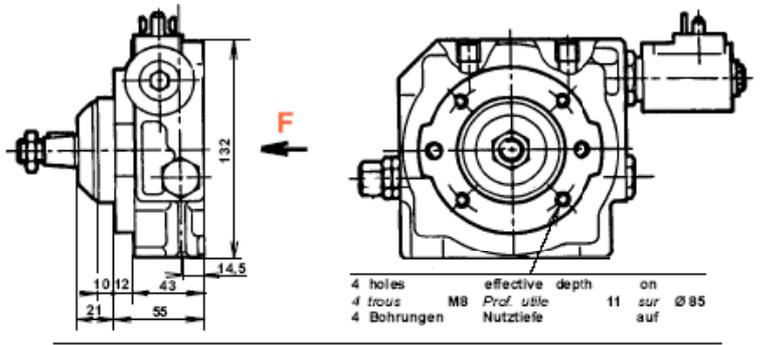
**CODIFICATION**

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

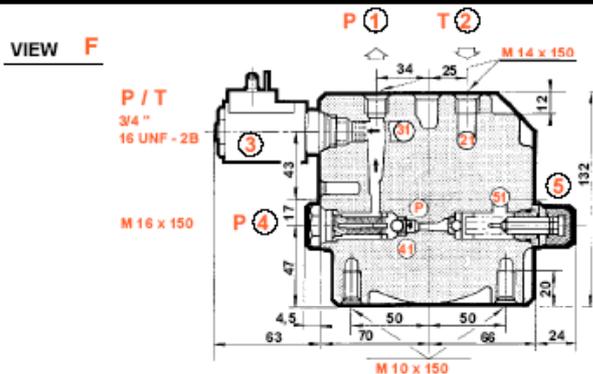
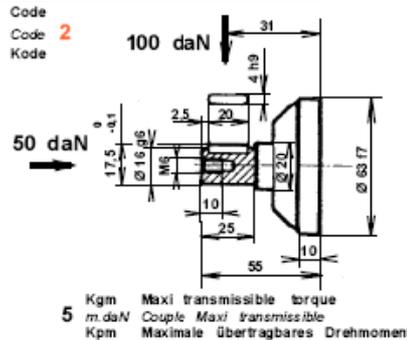
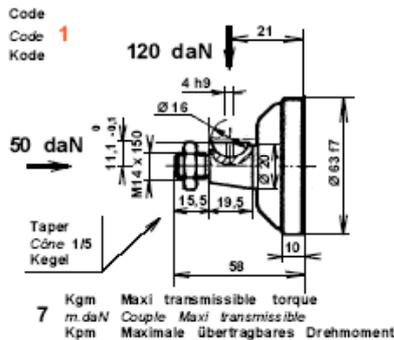
(F.T R 0018)

**TYPE of OUTRIGGER BEARING** (Sign - Signe - Zeichen I - II - III)

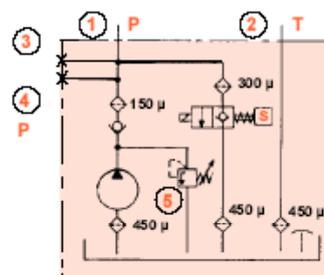
**PUMP TYPE** (Sign - Signe - Zeichen I - V - VI)



MODEL	Capacity	
	c c / rev	cubic / inch
MODELE	cm 3 / t	cubic / inch
TYP	Fördervolumen	
	cm 3 / U	cubic / inch
1001	1,02	0,06
1002	2,05	0,12
1003	3,07	0,18
1004	4,09	0,24
1005	5,12	0,30
1006	6,14	0,36



Basic hydraulic sketch of a PUMP SET with TANK



**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

**SETS with TANKS**



PUMPS SETS WITH TANK.

**CODIFICATION**

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

(F.T R 0018)

**TYPE of TANKS** (Sign - Signe - Zeichen IX-X)

CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
T	1,1 L	105
E	1,5 L	142
A	2 L	187,5
H	2,5 L	238
B	3 L	278,5
S	4 L	384
Z	6 L	600

Cap located in position 2

CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
R	5 L	120
K	7,5 L	206
D	10 L	249

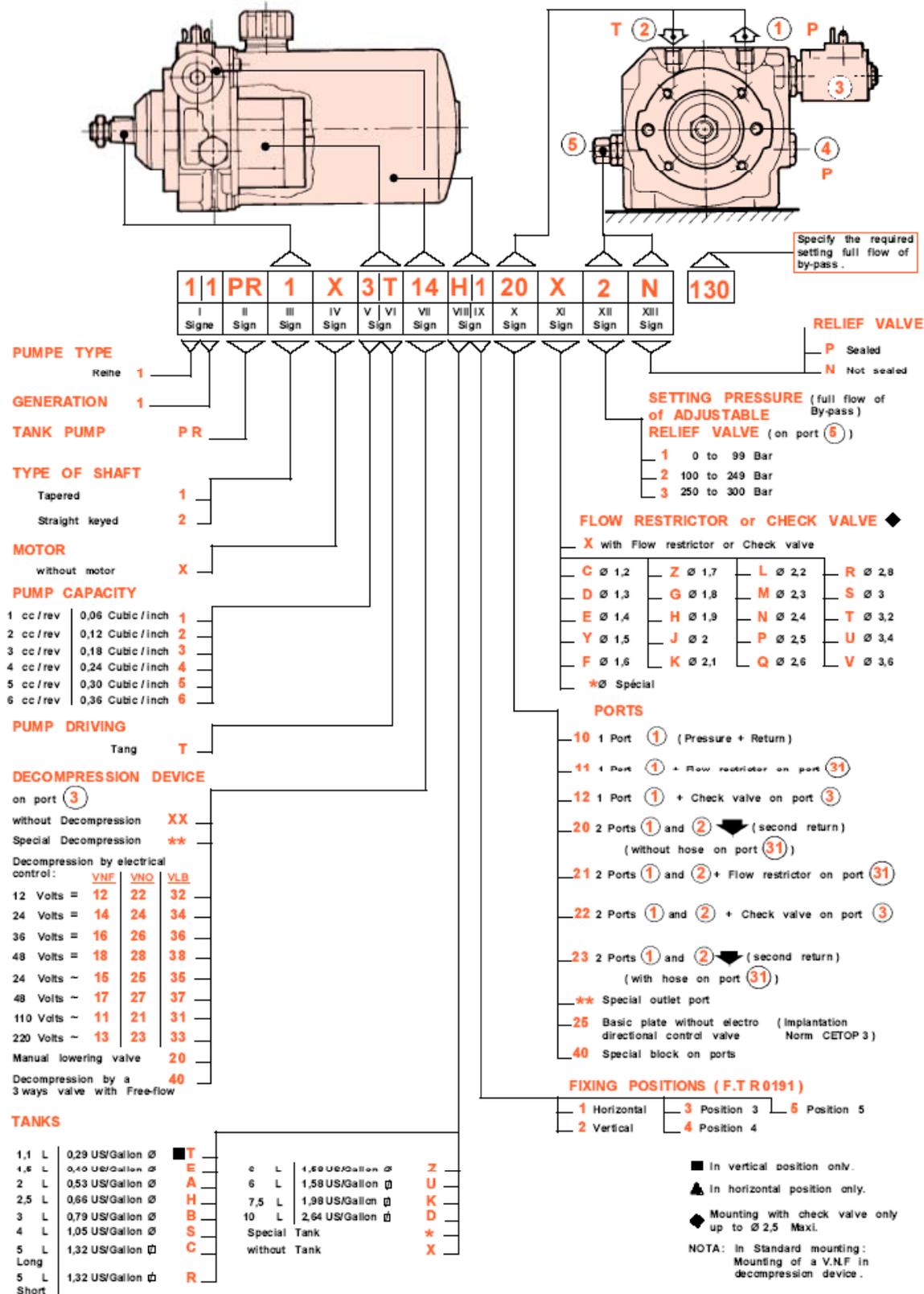
CODE CODE KODE	TYPE TYPE TYP	Dimensions Dimensions Abmessungen
C	5 L	220
U	6 L	275

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
T	1,1 L		0,6 L
E	1,5 L	1,1 L	0,85 L
A	2 L	1,65 L	1,3 L
H	2,5 L	2 L	1,9 L
B	3 L	2,5 L	2,16 L
S	4 L	3,6 L	3,25 L
Z	6 L	5,1 L	5,2 L
R	5 L	4 L	3,8 L

TANKS RÉSERVOIRS BEHÄLTER		POSITIONS BEFESTIGUNGS 1 - 3 - 4 - 5	POSITION BEFESTIGUNG 2
CODE CODE KODE	TYPE TYPE TYP	USEFUL CAPACITY CAPACITÉS UTILES NUTZINHALT	
K	7,5 L	7,2 L	6,7 L
D	10 L	8,8 L	7,4 L
C	5 L	4,35 L	3,6 L
U	6 L	5,5 L	4,9 L

■ In vertical position only

PUMPS SETS WITH TANK.



**CODIFICATION of TANK PUMPS**

VERSION **1G** SERIE **1**

