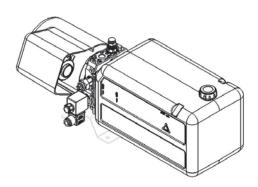


S ojl

Introduction

Oil Sistem is a leader in power packs production and offers a wide range of solutions suitable for every type of application. Oil Sistem developed in years of experience a high evoluted modular system that became powerful, flexible and economically competitive. This catalogue is intended to be an almost complete reference for the available power pack D type for dumper applications.

In its easier configuration a power pack is an assembly of electric motor, pump, central manifold with valves, oil tank and few other connection elements.



Typical applications

General characteristics

Max working pressure	From 250 to 350 bar, according to pump model.
Pump type	External gear pump.
Pump displacement	From 0,82 cm ³ /rev to 4,2 cm ³ /rev.
Electric motors	D.C. from 1800 to 2000 W.
Oil tank capacity	From 2,5 to 23 litres.

Direction for use

Installation

There are no limits in mounting positions, just avoid any installation that could compromise pump's suction. When power pack is to be fitted on structures liable to vibrations, it is better to place vibration-clamping blocks in fixing points. Oil tank and temperature

Tank size should always be enough to assure proper pump's suction and advised maximum working temperature of 60°C. The gaskets of these power packs allow a correct working between -15°C and 80°C. After the first setting in motion it is necessary to rest the oil level. You must use oil for hydraulic units having viscosity in 15 \div 68 cSt (1 cSt = 1 mm²/s), suggested between 25 and 40 cSt (3.5°E \div 5.5°E). Different oil grades must be chosen according to ambient temperature and to which temperature would be reached during the unit activity. Cleaning and maintenance

The set must be cleaned in each part because the group has only one suction filter. In case of defective work, you should check:

- oil level and conditions;
- pump efficiency;valves calibrations;
- battery and electric equipment efficiency.

You have to substitute the oil after 100 hours of duty the first time, and then every 3000 hours of duty (in any case at least once a year). Wiring and starting

The wiring between batteries and electric control panel must be chosen according to the electrical inputs indicated in diagrams. THE STARTING MUST ASSURE PROPER PUMP DIRECTION OF ROTATION. IT IS STRICTLY FORBIDDEN TO INVERT THE DIRECTION OF ROTATION.

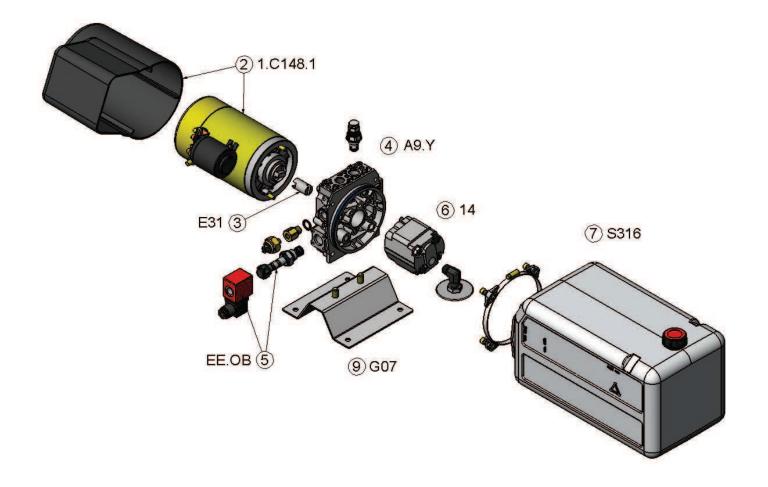
Specifications, descriptions and figures contained in this catalogue were as accurate as known at the time this publication was approved for printing. Oil Sistem S.p.A. reserves the right to discontinue models at any time, or change specifications or designs without notice or incurring obligation.

How to order

Example code:

D	1.C148.1	E31	A9.Y	EE.OB	14	5316	01	<i>G</i> 07
1	2	3	4	5	6	7	8	9

- Power Pack type
 Electric D.C. motor and plastic protection
 Junction elements
 Central manifold and relief valve setting
 Built-in valves
 Pump
 Oil tank
 Mounting position
 Mounting brackets



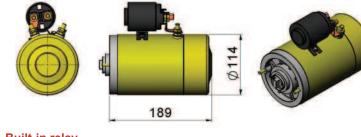
S oil sistem

Nr.	Description	Code explanation and example	Reference
1	Power pack type		
2	Electric motor	1 . X X X Y XXXX : motor's code. Y : plastic protection Example: 1 . C 1 4 8 . 1	p. 5
3	Junction elements	E 3 1	p. 5
4	Central manifold and relief valves setting	A 9 . A A: relief valve setting Example: A 9 .	p. 6
5	Built-in valves	A A . B B AA: Valve type BB: Electric control Example: E E . O B	p. 7
6	Pump	Example: 1 3	p. 8
7	Oil tank	Example: S 9 0	p. 9
8	Mounting position	Leave blank for standard position. Example: 0 1	p. 11
9	Mounting brackets	Leave blank for no mounting brackets. Example: G 0 7	p. 11

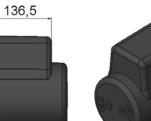
2

Direct current electric motor

Code	Voltage (V)	Power (W)	Duty cicles S3% S2 min	Thermal switch	Protection Index	Code	Description
C147	12	1800	8% 2 min	no	IP54	0	Without protection
C148	24	2000	5% 2 min	no	IP54	1	With plastic protection





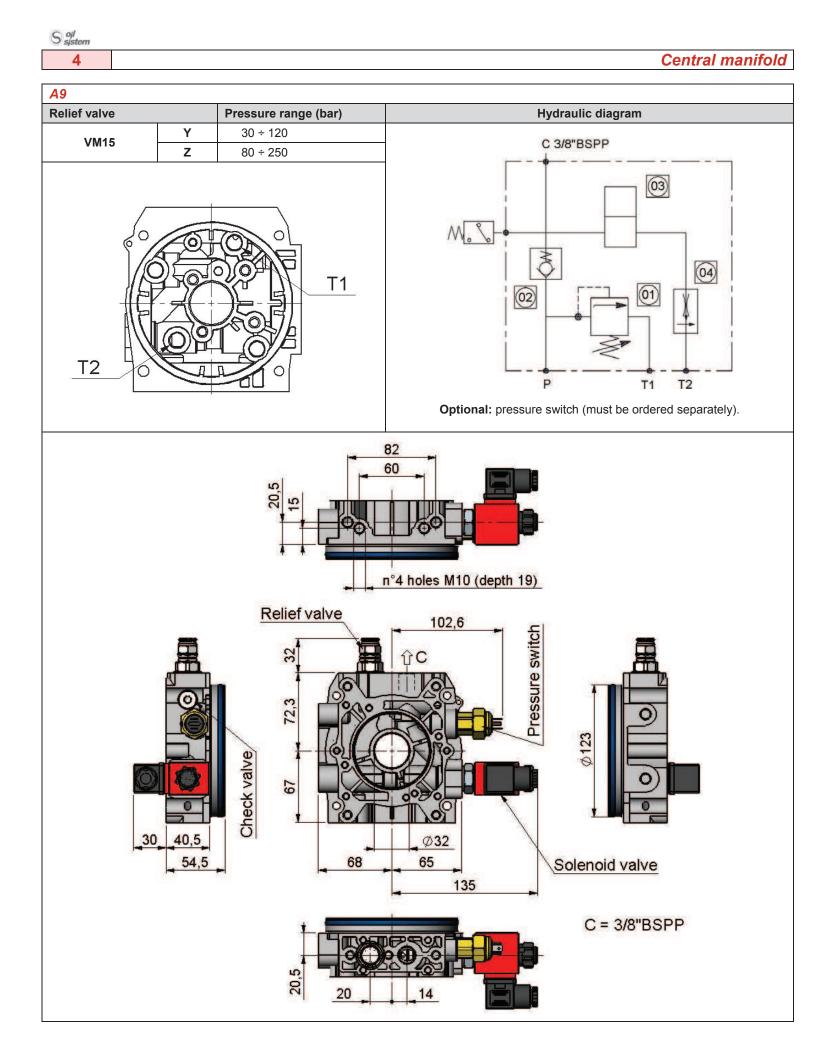


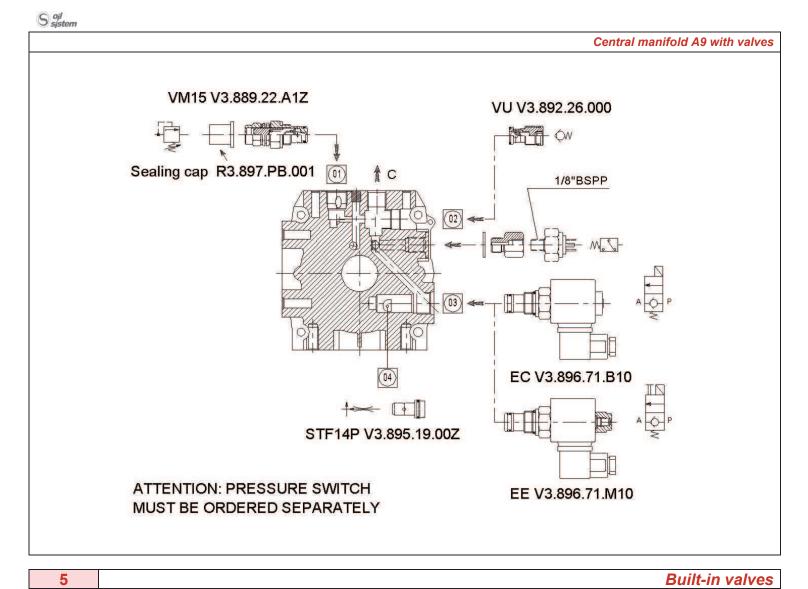


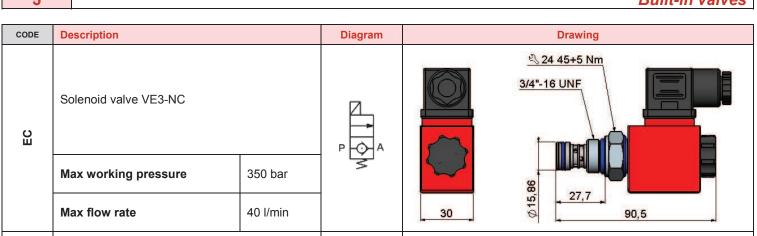
Duilt-In relay	
Nominal current: 200 A	Ø 145 170
Peak current:350 A	

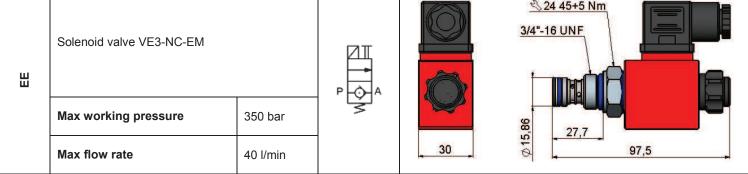
Junction elements

Code	Motor codes	
E31	C147-C148	
		E31









Electric conti	rols for solenoid valves	STF14P setting		
CODE	Description	CODE	Volume flow rate (I/min)	
00	None	Α	1	
OB	D.C. 12V	В	2	
OC	D.C. 24V	С	3	
		D	4	
	STF14P Flow control valve	E	5	
		F	6	
		G	7	
->>+	28 8	н	8	
		I	9	
	Ø	L	10	

6

Displacement (cc/rev)

1,1

1,6

2,1

2,6

3,2

3,7

4,2

Code

11GH

12GH

13GH

14GH

15GH

16GH

17GH

P2

(bar)

300

300

300

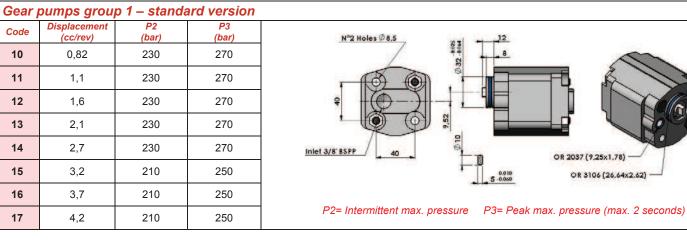
300

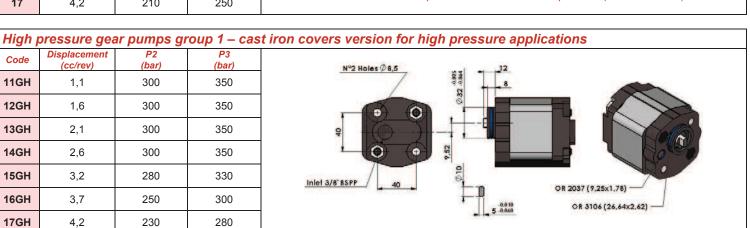
280

250

230

Gear pumps





P2= Intermittent max. pressure P3= Peak max. pressure (max. 2 seconds)

 •	•		

7			Oil tank
Ctool collor for	tout		
Steel collar for CODE	tank		
S00			
			n°4 holes M6 129 25

Steel tank					1
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	A (mm)	o l
S02	2,5	1,7	238	60	-A- 08
S161	3	2,3	280	60	Ø125.4
S107	4	3,2	409	60	33 L
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)		- L
S03	5	4	219		- 32
S34	7	5,4	271		113
S04	8	6,6	323		Ø
S109	11	9,6	453		25
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)		324x ∅998
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	SZ 26,5	243x140 271
S94			323		32
	8	6,6			25 50 175x150 323
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)		
S177	9	7,7	290		25 30

				290
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	- 290 - 4x ∅9 112
S303	9	7,7	290	
				φ ²²⁰
				45 175x150 S303 only

C	oil
0	sistem

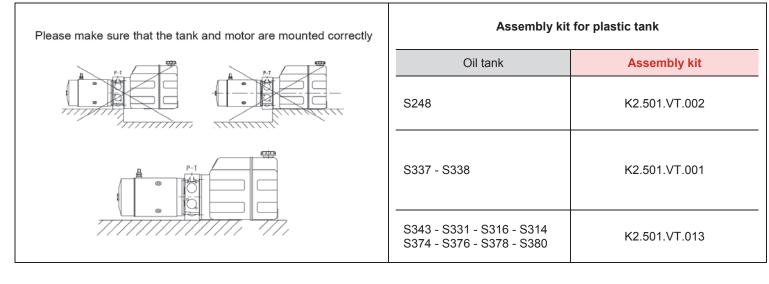
Steel	tank

CODE	Tank capacity (I)	Useable capacity (I)	A (mm)	B (mm)	C (mm)	L (mm)	С
S90	12	10,5	60	170	105	315	n°4 Ø9
S128	16	13	60	170	158	368	200 149 φ 250 257
S105	19	15	52,5	290	158	420	
S92	23	19	102,5	290	158	520	25 A B
							L

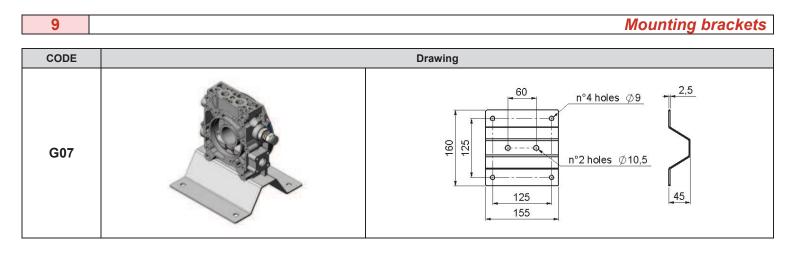
Oil tank

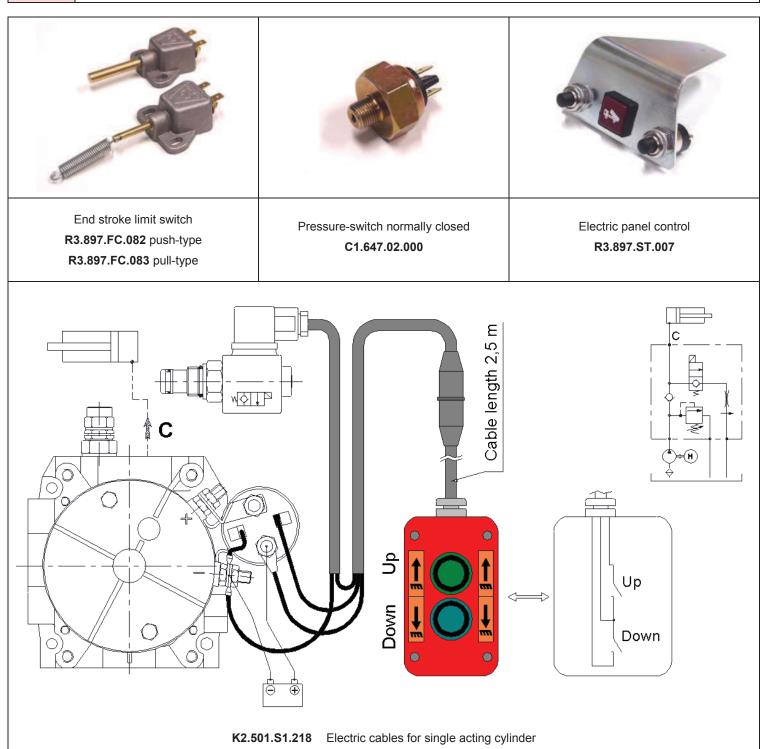
Plastic tank					
Materials: P	e range: -15 / +70 °C E = Polyethylene, PP ral transparent	= Polypropilene			
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	Material	
S248	2,5	2,2	240	PE	35
					34
					L 134 17,3
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	Material	25
S343	5	3,8	230	PP	
S331	5	3,8	230	PP Black	67,5
S316	9	7,3	365	PP	
S314	9	7,3	365	PP <u>Black</u>	
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	Material	
S337	2,5	1,7	240	PP	33
S338	3	2,3	285	PP	130×130 87,4
					- L -
CODE	Tank capacity (I)	Useable capacity (I)	L (mm)	Material	40
S374	5	4	219	PP	
S376	7	5,4	271	PP	Ø 190
S378	8	6,6	323	PP	25
S380	11	9,6	453	PP	





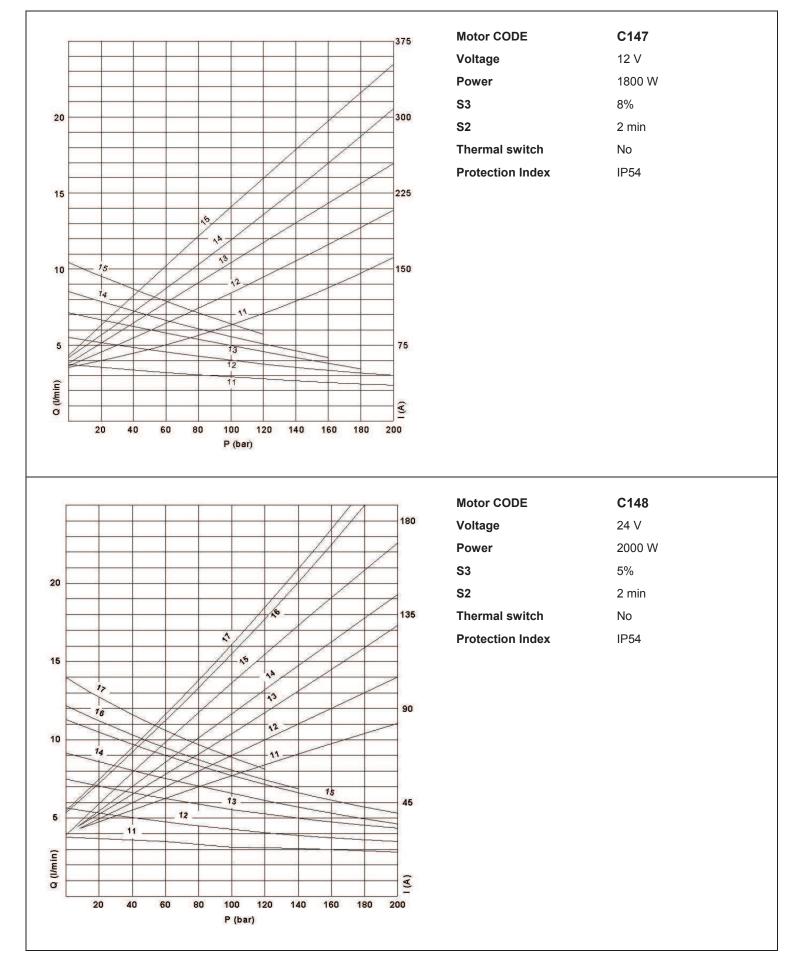
8				Mounting position
CODE	Image	c	-	
01	1			
O3	2			C
04	3		C	
		· · · · · · · · · · · · · · · · · · ·		
		1	2	5





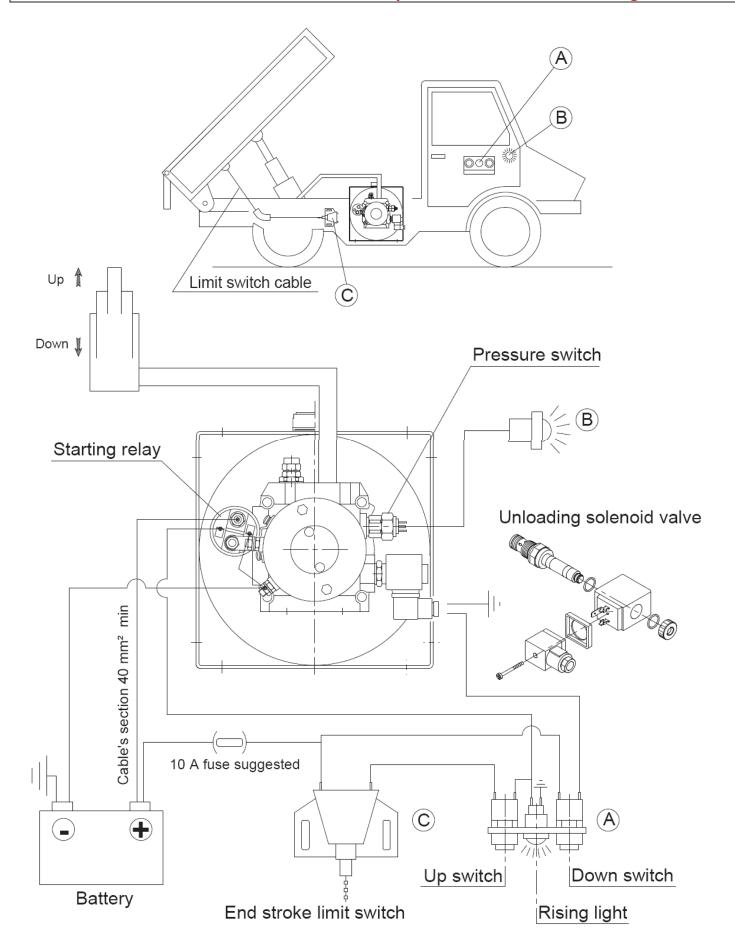
Accessories

D.C. Motors perfromance cruves









S ojl sjstem

