

DIN EN 16330:2013-07 (E)

Winter and road service area equipment - Power system and related controls - Power hydraulic system and electric interfaces

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Power hydraulic system for municipal vehicles - requirements	4
3.1	Classification of power hydraulic systems	4
3.2	Drive of the oil pump	4
3.3	Hydraulic system	4
3.4	Connection between the hydraulic system of the vehicle and the implements	5
3.5	Flow rates	5
3.6	Pressure	5
3.7	Power	5
3.8	Capacity of the oil tank	5
3.9	Maximum oil temperature, cooling capacity test procedure	5
3.9.1	General	5
3.9.2	Cooling capacity test procedure	5
3.9.3	Example for calculating the p for the test, which has to be adjusted at the flow restrictor ...	7
3.10	Line cross sections	7
3.11	Couplings and functions	8
3.11.1	Hydraulic system class 1	8
3.11.2	Hydraulic system class 2	8
3.12	Screwed joints	9
3.12.1	Plug, male with coupling nut (female thread), pressure line, green	9
3.12.2	Socket, female (male thread), separate return line, black	10
3.12.3	Table of thread dimensions, male thread H2	10
3.12.4	Tables of coupling dimensions [mm]	12
3.13	Hydraulic fluid	12
4	Power supply 24V/125A for electrical hydraulic unit	12
4.1	Use of the socket	12
4.2	Specification of the socket	13
4.3	Circuit diagram	14
4.4	Maximum current	14
5	Universal electrical connection	15
5.1	General	15
5.2	Receptacle at the vehicle front and behind the cabin	15
5.3	Plug for implement cable fitting to socket according to 5.2	17
5.4	Correspondent in-cabin receptacle to the front-mounted socket fitting to 5.2	18
5.5	Plug for control unit cable fitting to 5.4	20
5.6	Correspondent in-cabin receptacle to the socket 5.2 behind the cabin	21
5.7	Plug for implement cable fitting to socket according to 5.6	22
Bibliography		23