

PRESSURE SETTING PROCEDURES FOR SUT**D40L16-20 & SUT**D60L21-20

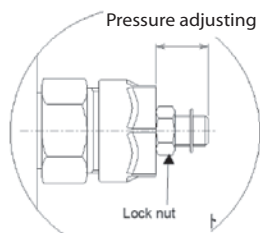
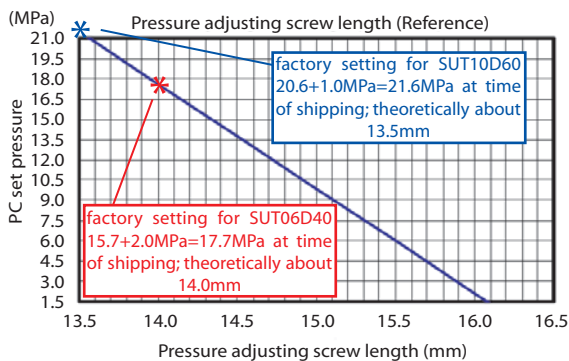
The following steps must be completed before any settings and adjustments can be made to your Super Unit

Read SUT manual first

Fill the oil reservoir to correct level, connect the pressure and return lines, and remove the fastening wing bolts used for shipping. Connect three phase power (200V, 60Hz) and all control and/or alarm wires from machine (if required) in accordance with all applicable codes. Apply power to the machine and to the hydraulic unit, and have the machine in a "standby" state (indicating no call for oil). At start-up the control/display panel will display the current pressure of the unit in Megapascals (MPa). Check to be sure there is no leaks

Do not touch the safety valve, it is preset from the factory and does not need adjustment. If it has been adjusted, then reset safety valve per measurement chart below.

Below is the factory settings for the safety relief valve



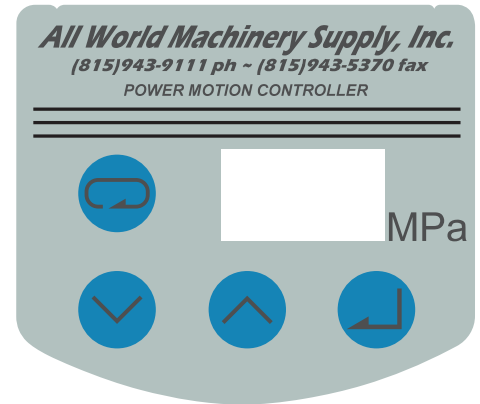
<Detailed view of safety valve>



High-pressure safety valve adjusting window

No tools required to change pressure

For a basic setup (only one pressure / flow characteristic being used):



On the control/display panel, press these two keys simultaneously and hold them down for 2 sec. (this gets you into the parameter mode). "P00" will be flashing on the display. ("P00" contains the default pressure/flow characteristics for the unit). Pressing the key now gets you inside of "P00" and "PH0" is displayed alternately with the factory set value of "PH0"(3.5MPa). "PH0" is the maximum pressure setting of the high pressure pump. Press up or down key to make changes to this parameter until you obtain the desired high pressure. Pressing again and you will see "qH0" flashing alternately with the default setting for the high-pressure flow rate, again make changes using the and arrow keys to desired setting. Pressing again gets you to "PL0" (low pressure pump pressure setting parameter), make changes using the and arrow keys as above. Pressing again gets you to "qL0"; the low pressure pump flow-rate setting; adjust using the and arrow keys (setting should not be within 1.0MPa of "PH0" for optimal results; but limited to 7.0MPa). Pressing at this point brings you back to "P00", and stores the parameters to memory. Pressing the key brings you back to the current pressure of the unit.

Alarm Codes and Corrective Actions



Alarm Condition	Indication	Cause of alarm output	Corrective action
Output device error	E10	The power device self-protecting function is activated	Turn OFF the power supply once, and then turn it ON again
Instantaneous overcurrent	E11	Detection of instantaneous overcurrent in the current control unit	Turn OFF the power supply once, and then turn it ON again
Over Speed	E12	The motor Rotation speed exceeded the allowable speed. (including reverse rotation)	Make sure that there is no problem in the hydraulic circuit
Regenerative brake overload	E14	The alarm is output when regenerative overload occurs due to regenerative current of the motor	Check the regenerative load integration ratio [n08] in the monitor mode, and reduce the load condition in the process with an increased integration ratio
Under Voltage	E15	The main circuit voltage has dropped below 190 VDC (134VAC) (this is internally on the control-determined by main power)	Check the power supply voltage
Over Voltage	E16	The main circuit voltage has exceeded 400 VDC (this is internally on the control-determined by main power)	Check the power supply voltage
Motor electronic thermal error	E17	Detection of overload in current output status (for 60 seconds at 110%)	The motor output is higher than the normal level
Magnetic pole detection error	E18	Motor initial position detection error	The motor output is higher than the normal level
Encoder cable break	E20	The alarm is output during encoder cable disconnection	Parts replacement may be required
Motor cable break	E21	The alarm is output during motor cable disconnection	
Pressure sensor error	E30	The alarm is output when the pressure sensor feedback value is invalid	
Motor start error	E31	The alarm is output when the actual rotation polarity is different from the command polarity	
Motor thermistor cable break	E40	The alarm is output when motor thermistor cable disconnection is detected	Parts replacement may be required
Motor temperature abnormal rise	E41	Forced to stop when the motor thermistor temperature reaches the specified temperature (85°C) in the condition specified in "L44"	The heat radiation capacity and cooling capacity of the motor may be lowered. Conduct maintenance
Radiator fin thermistor cable break	E42	The alarm is output when fin thermistor cable disconnection is detected	Parts replacement may be required
Fin temperature abnormal rise	E43	Forced to stop when the motor thermistor temperature reaches the specified temperature (80°C) in the condition specified in "L45"	The heat radiation capacity and cooling capacity of the motor may be lowered. Conduct maintenance
Drying operation error	E64	The alarm is output when the pressure does not increase even if the motor RPM is increased	The stop valve is closed, or the oil level in the tank is low. Check to stop valve opening and the oil level
CPU run-a-way	E91	The alarm is output when the CPU is out of control	
EEPROM data error (1)	E93	The alarm is output when the EEPROM data is invalid	
EEPROM data error (2)	E94	The alarm is output when the EEPROM data is invalid	
Motor temperature abnormal warning	L44	The alarm is output when the motor thermistor temperature exceeds the threshold level (83°C)	The heat radiation capacity and cooling capacity of the motor may be lowered. Conduct maintenance
Fin temperature abnormal warning	L45	The alarm is output when the fin thermistor temperature exceeds the threshold level (78°)	The heat radiation capacity and cooling capacity of the motor may be lowered. Conduct maintenance
Pressure deviation abnormal warning	L60	The alarm is output when the command signal remains ON for 5 seconds or longer	The motor output is higher than the normal level
Pressure drop	L62	The alarm is output when the pressure switch output remains ON for 30 seconds	
Pressure switch activation	L63	The alarm is displayed when the pressure switch is activated. (Selectable with the parameter)	

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