


**NOTES: UNLESS OTHERWISE SPECIFIED**

1. CAUTION: INSUFFICIENT WIRE SIZE USED BETWEEN CONTROLLER AND SOLENOID WILL REDUCE TORQUE.
2. THE FOLLOWING FORMULA OR TABLE 1 SHOULD BE USED TO PREVENT TORQUE LOSSES.

	<b>SCANIVALVE<sup>®</sup> CORP.</b>				
	INSTRUCTIONS FOR WIRE SELECTION CTRL2(P)/S2-S6 AND CTRL10P/S2-S6				
OWN BY RCF	DATE MAY 88	DESIGN BY KP	85057	SHT 1 of 1	

$$D = \frac{10\% R_s C}{2}$$

D = DISTANCE BETWEEN SOLENOID AND CONTROLLER (ft.)

R<sub>s</sub> = SOLENOID RESISTANCE (Ω)

C = WIRE CONDUCTANCE (ft/Ω)

SOLENOID SIZE		DISTANCE BETWEEN CONTROLLER AND SOLENOID FOR 10% DROP IN TORQUE				
WIRE GAGE	FT / Ω	S2	S3	S4	S5	S6
		11.03Ω	12.21Ω	8.76Ω	7.72Ω	5.24Ω
30	9.7	5 ft.	6 ft.	4 ft.	4 ft.	2 ft.
26	24.5	13	15	11	10	6
22	62	34	38	27	24	16
20	98.5	54	60	43	38	25
18	156.5	86	95	68	60	41
16	249	137	152	108	96	65
14	397	218	242	173	152	103
12	629	384	374	272	242	164
10	1000	550	610	435	385	260
8	1592	876	971	692	613	414

TABLE 1