

WOODWARD ACTUATOR AND VALVE SELECTOR							
Product Type	Output	Input Power	Special Driver	Input Control Signal	Prod Spec	Man	Comments
Steam Turbine Actuators							
TG Actuator	Rotary, 37 Deg 17.5 Ft-Lb Max	1100 to 6000 rpm, Self-contained oil sump	None-Connects directly to controller	20-160 mA, Proportional See APD	04044	04045	
EG Actuator	Rotary, 37 Deg 10 Ft-Lb Max	1500 to 4000 rpm, 100 psi external supply oil	None-Connects directly to controller	20-160 mA, Proportional See APD	82516 (EG-3P/ 6P/ 10P)	82560, 82566	
UG Actuator	Rotary, 37 Deg 20 Ft-Lb Max	375 to 1500 rpm, Self-contained oil sump	None-Connects directly to controller	20-160 mA, Proportional See APD	37511	37512	
UG40 Actuator	Rotary, 37 Deg 63 Ft-Lb Max	350 to 1300 rpm, Self-contained oil sump	None-Connects directly to controller	20-160 mA, Proportional See APD	37516	37515	
PG Actuator	Rotary, 30 Deg 478 Ft-Lb Max	200 to 1600 rpm, Self-contained oil sump	None-Connects directly to controller	20-160 mA, Proportional See APD	36635	36637	
PGPL Actuator	Rotary, 30 Deg 58 Ft-Lb Max or 1"linear	1500 rpm Max, Self-contained oil sump, 18-32 Vdc to driver	8251-451 Use only with PGPL Actuators	0-200 mA, Proportional See APD	37520	37519	
TM25/200 Proportional Actuator	Linear, 1" Max stroke 2400 Lb Max; TM55 = Rotary, 45 Deg, 55 Ft-Lb, Max	80 to 1200 psig external supply oil, TM55 = 400 to 1000 psig external supply oil	None-Connects directly to controller	20-200 mA, Proportional See APD	82451 (TM 25/200) 82599 (TM55)	82450 (TM 25/200) 82400 (TM55)	
TM55 Integrating Actuator	Rotary, 45 Deg, 55 Ft-Lb, Max, position feedback = redundant RVDT/LVDT	400 to 1000 psig external supply oil	Requires an integrating driver	./-200 mA Integrating, See AID	82767	82768	
CPC Current to Pressure Converter "Control Valve"	14.5 to 203 psi control oil	250 psi external oil Max, 18-32 Vdc	None-Connects directly to controller	4-20 mA, Proportional See APD	85202	89543	
ProAct Analog Actuator Used primarily on Engine Applications	Rotary, 75 Deg, 2.5 to 5 Ft-Lb	18-32 Vdc, 14 A Max	None-Connects directly to controller, ProAct has an internal driver	PWM:7-32 V, 150- 3199Hz; 20-180 mA, 4-20mA, .5-4.5 Vdc, Proportional See APD	03231	26147	
ProAct Digital Plus Actuator Used primarily on Engine Applications	Rotary, 75 Deg, 5 to 27 Ft-Lb	18-32 Vdc, 20 A Max	None-Connects directly to controller, ProAct has an internal driver	PWM:7-32 V, 100- 3000Hz; 20-180 mA, 4-20mA, and J1939 over CAN, Proportional See APD	03231	26112	
Hydraulic Amplifier "Actuator"	Linear, 3" Max stroke, 7.25 " bore Max, 12,250 Lb force Max	100 to 500 psi external supply oil	None-Connects directly to controller	20-160 mA, Proportional, There are some 40-320 mA dual coil versions See APD	89007	89015	
EHPC Electrohydraulic Power Cylinder "Actuator"	Linear, 12" Max stroke, 10 " bore Max, 19,000 Lb force Max position feedback = 4 to 20 mA or 1 to 10 Vdc	80 to 250 psi external supply oil	Requires an integrating driver	./- 100 mA w/ 15mA null, 0-200 mA w/ 100 mA null, Integrating See AID	85189	85186	Can use the EHPC's LDT or position feedback from the valve's position
EML 100	Linear, 1.5" Max stroke, 100 Lb force, feedback = Three turn Resolver (single or dual) with motor resolver	3 phase 24 V motor drive signal from driver to actuator, 18 to 32 Vdc, 20 A to driver	8200-177 Digital driver with single resolver	4-20 mA, RS-485 (RT SI/O), Proportional See APD	40186	40183	3 phase 24 V drive signal with resolver for motor commutation along with resolver excitation and single position feedback. Uses RS-232 DIP (driver interface program) for setup

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Woodward Electronic Controls: 723, 733, 828, Peak 150, 2301-D family, 505, 505E, 505DE, 505CC-2, Atlas 8273-2xx/4xx, SPC 8200-224/225, MicroNet cards 5501-432 +/-245mA adjustable 5464-544 0-200 mA				APD Analog Proportional Drivers			Use a MicroNet 2 channel controller or 4 channel proportional card with no position feedback, Atlas (except older versions 8273-0xx) or an SPC
MicroNet cards 5501-432 +/-245mA adjustable, SPC 8200-224/226				AID Analog Integrating Drivers			Use a MicroNet 2 channel controller with integrating output and LVDT/RVDT excitation or an SPC
SPC Servo Position Control	./-250 mA, +/-100 mA, +/-50 mA, +/-10 mA, 0-250 mA, 0-100 mA, 0-50 mA, 0-25 mA feedback LVDT/RVDT or 4-20 mA	18-32 Vdc to driver	8200-224 (standard) 8200-225 (marine) 8200-226 Updated	4-20 mA, Devicenet over CAN, Position demand signal.	03254	26236	Uses a proportional input signal for use with proportional or integrating actuators. Replaces the old DRFD, in most applications. Configurable through a RS-232 SPC Service Tool