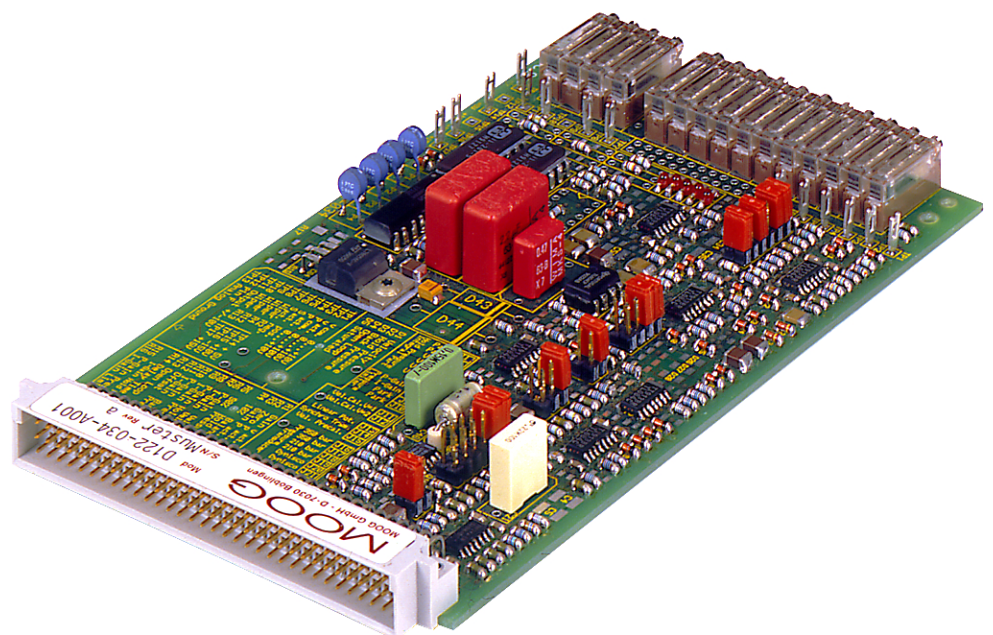


v/P-Controller D122-034-A001

Features:

- ❑ Velocity and pressure controls for injection molding machines
- ❑ Smooth switching of control mode
- ❑ Logic function for different modes of operation
- ❑ Outputs for actual signals
- ❑ Alarm and control error outputs
- ❑ Internal power supply option



v/P-Controller Card D122-034-A001

Application:

The v/P-controller card D122-034-A001 can be used together with a MOOG servo valve to control the injection cylinder of the plastics injection molding machines.

It controls:

- injection speed
- injection pressure limiter
- holding pressure
- back pressure during plasticizing

The setpoints for speeds and pressures, and the process data are entered via the machine control, making the v/P-controller card an integral component within the complete machine control and operation system.

If the machine control system does not include the required supply voltage ($\pm 15V$) for the card, this can be provided by the optional „DC/DC converter" at $U = 18...36V$ DC.

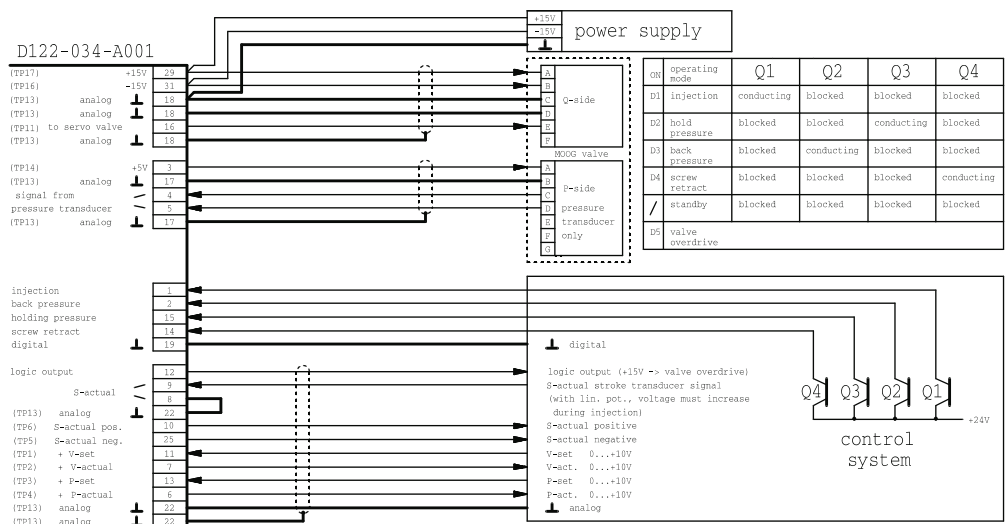
This cards needs adaptation to each application. Consult local Moog office.

Technical data:

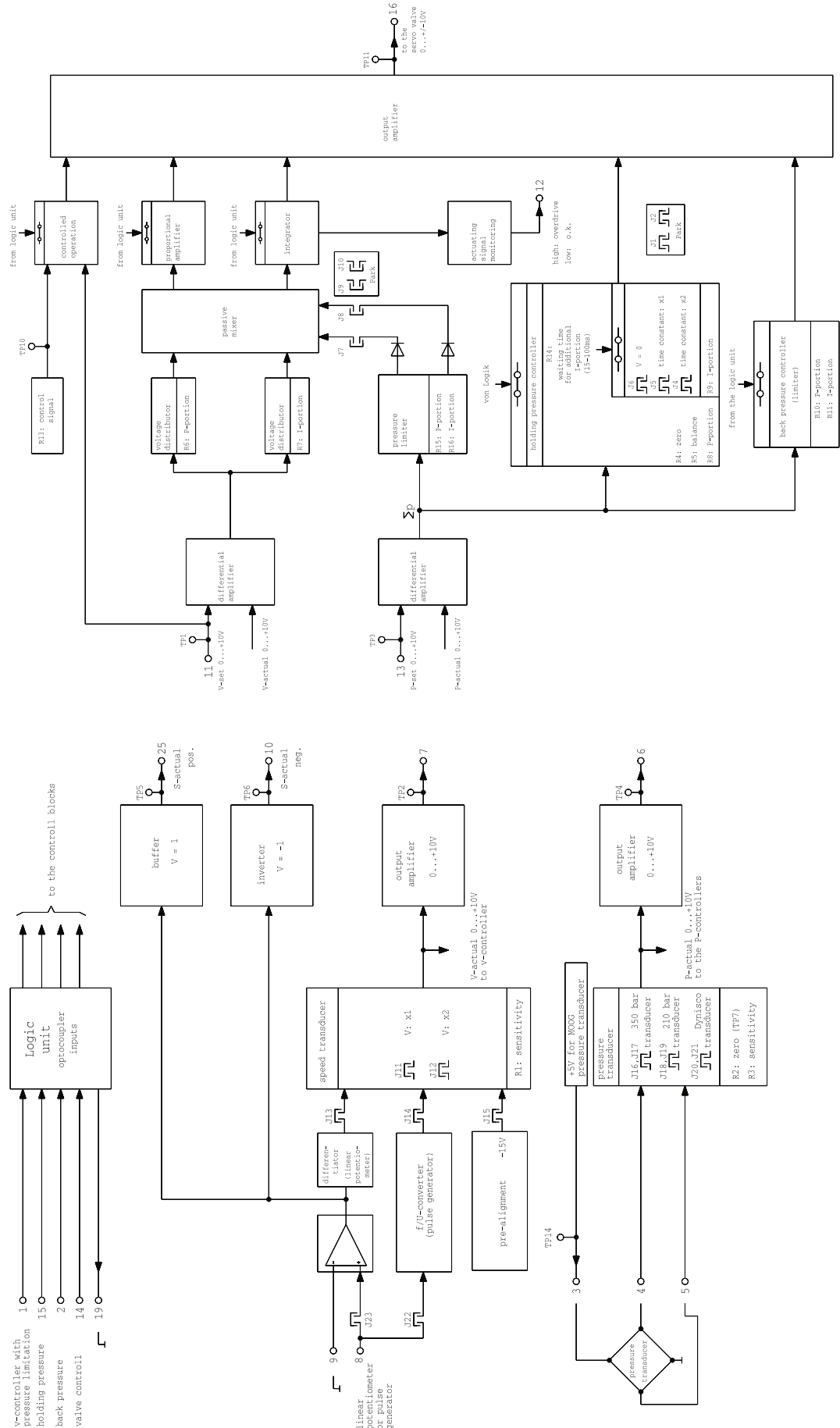
Board dimensions:	Eurocard format 160 x 100mm		
Connection:	64-pin male connector, DIN41612 type C		
Power supply:	$\pm 15VDC$, regulated (DC/DC converter available as option) Ripple $\pm 100mVDC$		
Current consumption:	Idle:	$\pm 100mA$	
	Max nominal operation:	$\pm 150mA$	
Logic:		optocoupler	
	velocity:	Pin 1	+15V ... +50V
	hold pressure:	Pin 15	+15V ... +50V
	back pressure:	Pin 2	+15V ... +50V
	screw retract:	Pin 14	+15V ... +50V
	digital ground	Pin 24	0V (DGND)
Input resistance:	P-actual:	Pin 4	15k Ω
	V-actual:	Pin 8	100k Ω
	V-actual:	Pin 9	100k Ω
	P-set:	Pin 13	100k Ω
	V-set:	Pin 11	10k Ω
Output amplifier:	capable of withstanding short circuits		
	supply pressure transducer:	Pin 3	+5V / +30mA
	P-actual:	Pin 6	0 ... +10V min. input R = 5k Ω
	V-actual:	Pin 7	0 ... $\pm 10V$ min. input R = 5k Ω
	position value positive:	Pin 10	0 ... $\pm 10V$ min. input R = 5k Ω
	Moog valve saturated:	Pin 12	0 ... $\pm 10V$ min. input R = 5k Ω
	Output Amplifier:	Pin 16	0 ... $\pm 10V$ min. input R = 5k Ω
	position value negative:	Pin 25	0 ... $\pm 10V$ min. input R = 5k Ω
Permissible ambient temperature:	0 ... 60°C		
The in- and outputs are related to analogue ground (pin22)			

Terminal diagram:

Example: Version with Valve internal P-trx



Block diagram:



MOOG



Australia	Melbourne
Austria	Vienna
Brazil	São Paulo
China	Hong Kong
China	Shanghai
Denmark	Birkerød
England	Tewkesbury
Finland	Espoo
France	Rungis

Germany	Böblingen
India	Bangalore
Ireland	Ringaskiddy
Italy	Malnate
Japan	Hiratsuka
Korea	Kwangju
Philippines	Baguio
Russia	Pavlovo
Singapore	Singapore
Spain	Orio
Sweden	Gotenborg
USA	East Aurora (NY)

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