

# Motors - Variable Displacement

## Axial Piston

T12



- Designed specifically for track drives
- Very high operating speeds
- Pressures up to 480 bar
- Very high power capability
- High starting torque
- Low weight
- High overall efficiency
- Axial or side ports
- Two-position control
- Cartridge version available
- Service-friendly

Frame size T12	60	80
Displacement max at 35° (cm <sup>3</sup> /rev)	60	80
Displacement min at 10° (cm <sup>3</sup> /rev)	18	24
Max continuous pressure (bar)	420	420
Max operating speed (rpm)	7000	6250
Corner power cont (kW)	235	280
Weight (kg)	26	30.5

V12



- Very high operating speeds
- Displacement ratio 5:1
- Pressures up to 480 bar
- Very high power capability
- High starting torque
- Low weight
- High overall efficiency
- Axial or side ports
- Controls available for most needs
- ISO, SAE and cartridge versions

Frame size V12	60	80
Displacement max at 35° (cm <sup>3</sup> /rev)	60	80
Displacement min at 6.5° (cm <sup>3</sup> /rev)	12	16
Max cont pressure (bar)	420	420
Max operating speed (rpm)	7000	6250
Corner power cont (kW)	235	280
Weight (kg)	28	33

V14



- Operating pressures up to 480 bar
- High speeds thanks to low weight pistons with laminated piston rings and a very compact design of the rotating parts
- High over all efficiency throughout the entire displacement range
- 9 pistons provide high start-up torque and smooth operation
- Wide displacement range – 5:1
- Small envelope size and high power-to-weight ratio
- Low noise levels due to the compact, sturdy design and smooth fluid passages
- Positive piston locking, strong synchronizing shaft, heavy-duty bearings and a small number of parts add up to a very robust motor with long service life and proven reliability

Frame size V14	110	160
Displacement max at 35° (cm <sup>3</sup> /rev)	110	160
Displacement min at 6.5° (cm <sup>3</sup> /rev)	22	32
Max cont pressure (bar)	420	420
Max operating speed (rpm)	5700	5000
Corner power cont (kW)	440	560
Weight (kg)	54	68

# Motors - Variable Displacement

## Radial Piston

CALZONI®

MRV/MRVE



- Variable displacement motor
- Customizable displacements
- High starting torque: from 90 % to 95 % of theoretical
- High control at very low speed
- High volumetric efficiency: up to 98 %
- Low noise
- Resistance to thermal shocks
- Reversibility
- Long bearing life
- Speed accessories, brakes....

Frame size MRV	450	700	1100	1800	2800	4500	7000
Displacement (cm <sup>3</sup> /rev)	452	707	1126	1810	2792	4503	6967
Max cont pressure (bar)	250	250	250	250	250	250	250
Max operating speed (rpm)	600	500	330	250	215	170	130
Max power (kW)	75	97	119	157	194	210	250
Frame size MRVE	800	1400	2100	3100	5400	8200	
Displacement (cm <sup>3</sup> /rev)	804	1370	2091	3104	5401	8226	
Max cont pressure (bar)	210	210	210	210	210	210	
Max operating speed (rpm)	450	280	250	215	160	120	
Max power (kW)	93	102	148	190	210	250	