

DCV Series Adjustable Center Distance Drives

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Drive Features

Two Face Movable Design (for standard V-belts)

Maintains belt alignment between the variable speed pulley and the companion sheave. This is an important feature with close center distance drives. Models 257 and 265 are an exception, however, and should use recommended shaft center distances.

Pulley Face Material

Models 140, 150 and 157 use a lightweight, corrosion-resistant, aluminum alloy material. Models 167, 257 and 265 use close-grained, cast-iron faces.

Permanently Lubricated Movable Face Bushings

High load carrying, precisely fit bronze bushings with a specially formulated oil impregnation are used to eliminate most fretting and corrosion problems. For severe corrosion conditions, the pulley shaft can be treated to resist the particular corrosion condition.

Torque Sensing Design

Belt tension is regulated to the load requirements. Bushing wear is reduced by the peripheral support of the cam followers. There are no torque carrying keys.



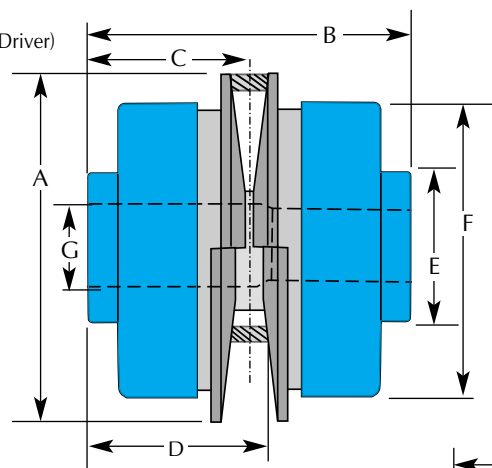
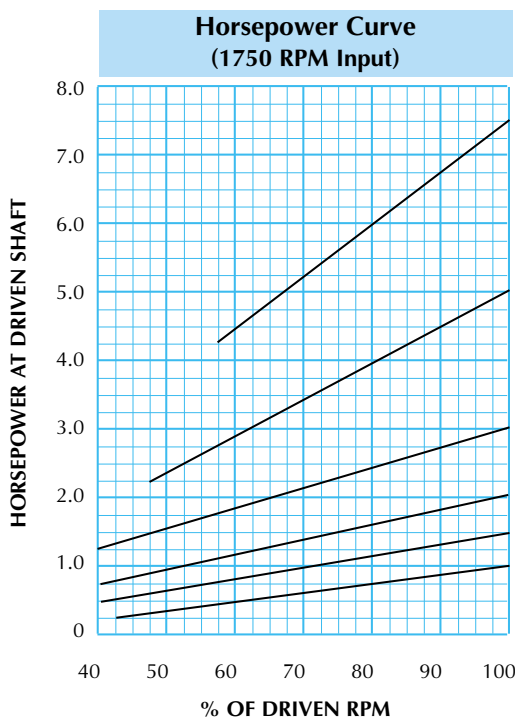
Dimensions and Specifications • DCV Series

All dimensions are in inches

1750 RPM	HP Rating 1150 RPM	Torque Capacity 1 lb.-in.	Model Number	Max. P.D.	Min. P.D.	Ratio	Belt Size	A	B	C	D	E	F	Stock Bores G	Shaft Travel (inches)
1	.75	36	DCV140	3.75	1.63	2.3:1	A	4.00	4.38	2.19	2.25	1.88	4.06	.5•.625•.75•.875	1.6
1.5	1	54	DCV150	4.70	1.88	2.5:1	B	5.00	4.38	2.19	2.25	2.00	4.06	.5•.625•.75•.875	2.1
2	1.5	72	DCV157-20	5.40	2.45	2.2:1	B	5.75	4.38	2.19	2.25	2.00	4.06	.5•.625•.75•.875	2.2
3	2	108	DCV157	5.40	2.45	2.2:1	B	5.75	4.94	2.50	2.75	2.25	5.07	.75•.875•1•1.125	2.2
5	3	180	DCV167	6.50	2.60	2.5:1	B	6.88	5.88	2.88	3.25	2.25	5.07	.75•.875•1•1.125	2.8
5	3	180	DCV257	5.40	2.70	2.0:1	B	5.75	6.38	3.13	3.50	2.25	5.07	.75•.875•1•1.125	2.2
7.5	5	270	DCV265	6.50	3.70	1.75:1	C	7.00	7.53	3.75	4.50	3.88	6.56	1•1.125•1.25•1.375	2.1

HP Ratings and Torque Capacities are at the Maximum P.D.

$$\text{Driven Torque Capacity} = \frac{\text{P.D. (Driven Sheave)}}{\text{Max P.D. (Driver)}} \times \text{Torque Capacity (Driver)}$$



Models
DCV140
DCV150
DCV157
DCV157-20
DCV167

Models
DCV257,
DCV265

