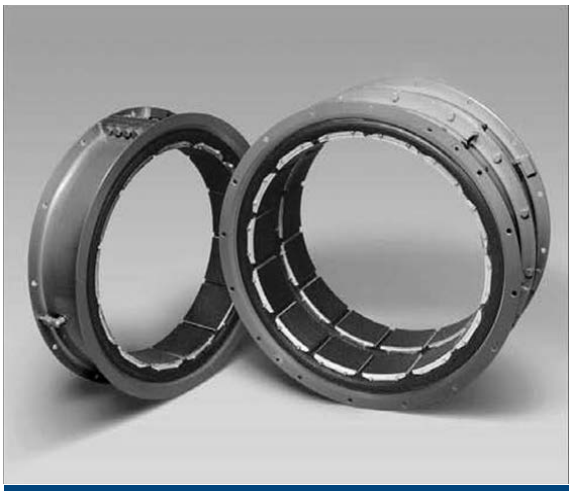
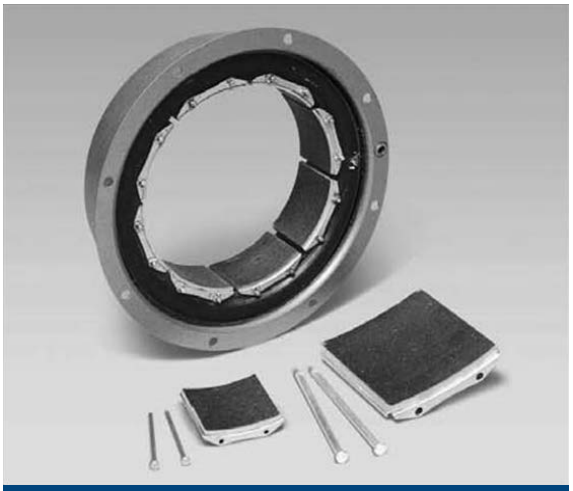
Drum Clutches and Brakes

Based on over 50 years experience in providing solutions to demanding power transmission challenges worldwide, we are proud to offer our customers a range of replacement elements and spares for drum type clutches and brakes. Backed by the Wichita name and our 2 year guarantee, these elements are directly interchangeable with all of the popular drum elements currently in service.



DC Units showing Split Rim Construction (on left) and dual mounting



DC component parts

Wichita DC Drum Elements

The DC range of constricting drum clutch and brake is commonly found throughout all industries in general power transmission duties. Constructed using an integral rim and tube actuator and with low inertia and high misalignment capacity, the DC range offers the simplest solution to less arduous clutch and brake requirements. Along with the standard single flange mounted unit, a full range of options to suit your existing application is available. Dual flanges for back to back mounting giving double torque capacity. Multiple air inlets for increased response speed. Split construction to avoid removal of shafts on inline drives. Whether you require just the friction shoes and mounting pins, or a complete actuator and rim assembly, all are backed by the Wichita name for service and reliability.

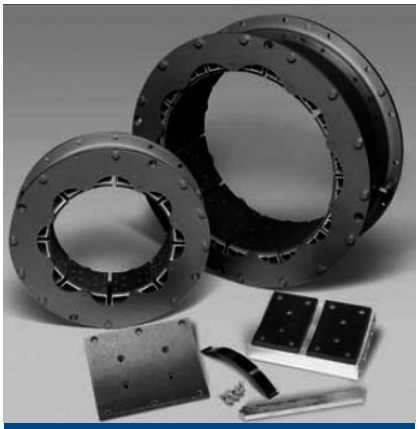
DC Specifications

Model Size	Torque at 75psi and 100 RPM		Overall Width	Flange Diameter
	NM	Max RPM	mm	mm
DC-6-200	231	1800	74.63	273.10
DC-8-250	485	1800	87.33	327.03
DC-10-300	921	1800	104.78	390.47
DC-14-400	2226	1800	132.56	498.48
DC-16-500	3977	1540	168.28	596.90
DC-18-500	4972	1400	168.28	647.70
DC-20-500	6056	1300	168.28	698.50
DC-22-500	7040	1220	168.28	749.30
DC-24-500	8475	1200	168.28	800.10
DC-26-525	10441	1050	176.23	863.60
DC-28-525	11977	1000	176.23	914.40
DC-30-525	13672	950	176.23	965.20
DC-40-525	23842	740	176.23	1235.08

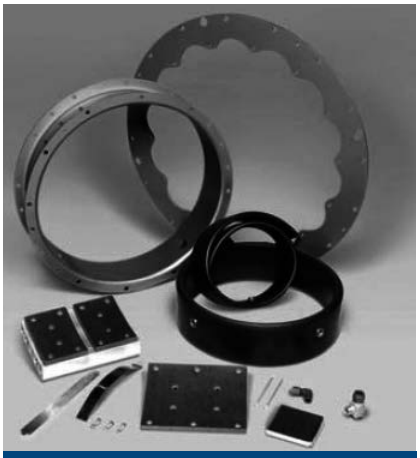
If the size unit you are looking for is not shown in this leaflet, please ask your Wichita support office about availability.

Wichita DCV Drum Elements

DCV units have the same versatility as the DC range, but are modified to give enhanced torque and cooling capacity for more demanding applications. In the DCV, the friction material is mounted on a ventilated carrier shoe supported by end plates. Whilst making the unit more complex and expensive initially, it does mean that all components, including the airtube, can be replaced individually. As with the DC units a full range of options is available. Dual flanges for back to back mounting giving double torque capacity. Multiple air inlets for increased response speed.



DC units and components



DCV units and components

DCV Specifications

Model Size	Torque at 75psi and 100 RPM		Flange Diameter	
			Overall Width	Flange Diameter
	NM	Max RPM	mm	mm
DCV-11.5-500	3051	1800	155.58	498.48
DCV-14-500	4429	1500	155.58	596.90
DCV-16-600	7345	1400	187.33	647.70
DCV-20-600	10508	1200	187.33	749.30
DCV-24-650	15254	1050	195.28	863.60
DCV-28-650	20565	1000	195.28	965.20
DCV-42-650	42938	800	195.28	1362.08
DCV-14-1000	9605	1800	293.70	596.90
DCV-16-1000	12881	1400	293.70	647.70
DCV-20-1000	8192	1300	293.70	749.30
DCV-24-1000	24746	1250	293.70	863.60
DCV-28-1000	33446	1100	293.70	965.20
DCV-32-1000	46893	1050	295.28	1114.43
DCV-38-1200	76836	740	349.25	1254.13
DCV-42-1200	92542	670	349.25	1362.08
DCV-46-1200	107345	600	349.25	1530.35
DCV-52-1200	137288	550	361.95	1701.80

D

DC and DCV Part Numbering

When ordering, your local Wichita support office will ask you to specify the following information which is then used to build up a part number to match your specific requirements.

DCV 22 5.00 2 2 B C

Type
Diameter of Drum in inches (friction pads drive on)
Width of friction material in inches (last two digits behind decimal)
No. of flanges
No. of flanges drilled (for mounting bolts)
No. and configuration of air inlets

A	Single side connection
B	Two side connection
C	Four side connection
D	One quick exhaust valve (QEV)
E	Two QEV's
G	Four QEV's
H	One inlet no side connections
J	Two inlets no side connections
K	Four inlets no side connections
L	Four inlets no side connections

Other options

I	Single mount one piece rim standard friction material
A	Single mount one piece rim Hi coefficient friction material
B	Dual mount one piece rim standard friction material
C	Dual mount one piece rim Hi coefficient friction material
D	Dual mount one single flange one piece rim std. fric. mat.
E	Single mount split rim standard friction material
G	Dual mount one piece rim std. fric. mat. one side connection
H	Single mount one piece rim single slotted rim std. fric. mat.
J	As "I" but with solid side plate
K	As "B" but with solid side plate
M	As "I" with extended side plate and bolting block
Q	As "I" with special side plate
R	As "I" with extended side plate