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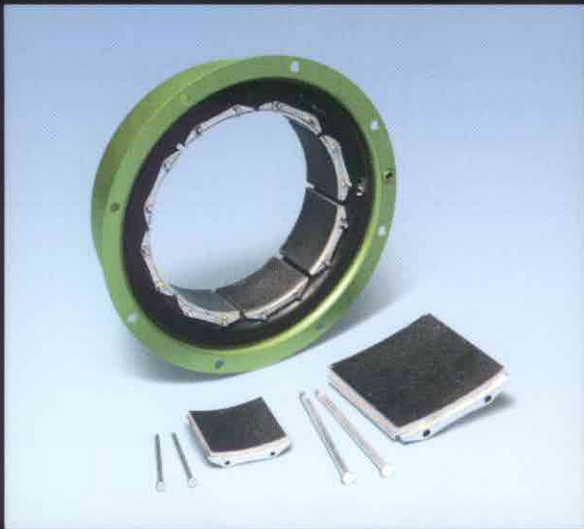


ELASTA-FLEX® Clutches and Brakes

MEETING THE EVER-CHANGING DEMANDS
OF THE POWER TRANSMISSION INDUSTRY



CB w/Split Construction and Dual Mounted CB



Single Flange CB and Sample CB Friction Shoe Assembly with Shoe Pins



CB and VC Hubs, Drums and Spiders

ELASTA-FLEX® Clutches and Brakes

ELASTA-FLEX high performance drum clutches and brakes are the result of Oil States Industries' sixty years of uncompromising commitment to quality products and service. Available in VC, CB and Marine Clutch styles, ELASTA-FLEX is clearly becoming a major choice for power transmission in a wide variety of applications — from mining, marine and cement processing to oil and gas drilling and general industry such as pulp/paper and metal working. In selecting ELASTA-FLEX, you are assured of receiving the uncompromising performance and durability you demand from your drum clutches and brakes.

ELASTA-FLEX® CB

The CB style clutch has often been referred as the "original Fawick-style" clutch. Well suited for a broad range of general power transmission applications, the CB utilizes an integral rim/tube construction. This unique concept provides versatility and the ability to compensate for less than perfect alignment in the driving system while still delivering a smooth transfer of power. Reliability, low inertia and simplicity of design make the ELASTA-FLEX CB an excellent choice for numerous high speed, low-to-medium torque systems.

ELASTA-FLEX® CB Ratings and Specifications

SIZE	TORQUE RATING (IN-LBS) AT 75 PSI AND 100 RPM	MAX RPM	DIMENSIONS (IN)	
			OVERALL WIDTH	OUTSIDE DIAMETER
6CB	2,040	1,800	2.938	10.752
8CB	4,290	1,800	3.438	12.875
10CB	8,150	1,800	4.125	15.373
14CB	19,700	1,800	5.219	19.625
16CB	35,200	1,540	6.625	23.500
18CB	44,000	1,400	6.625	25.500
20CB	53,600	1,300	6.625	27.500
22CB	62,300	1,220	6.625	29.500
24CB	75,000	1,200	6.625	31.500
26CB	92,400	1,050	6.938	34.000
28CB	106,000	1,000	6.938	36.000
30CB	121,000	950	6.938	38.000
40CB	211,000	740	6.938	48.625

Torque Ratings Double for Dual Mounted Units

ELASTA-FLEX® Hubs, Drums and Spiders

ELASTA-FLEX Hubs, Drums and Spiders are manufactured to the highest quality standards and from cast, forged or fabricated steel or cast iron depending on the application requirements. They are designed to provide stable friction coefficients, optimum heat absorption and/or dissipation demanded in the CB, VC and Marine Clutch applications. Additionally, they provide long wear life without adversely affecting the friction material life.

ELASTA-FLEX® VC

Designed principally for high torque applications, the *ELASTA-FLEX* VC is the answer to the demands for a durable, high thermal capacity drum clutch or brake. Every bit as versatile as the CB, the *ELASTA-FLEX* VC provides enhanced heat dissipation. The unique design of the ventilated friction shoe assembly allows for a high volume of air flow across the entire shoe length, thereby reducing heat, preserving the elastomeric actuator tube and extending overall clutch life. The *ELASTA-FLEX* VC is available in both the narrow and wide series.

ELASTA-FLEX® VC Ratings and Specifications

	SIZE	TORQUE RATING (IN-LBS) AT 75 PSI AND 100 RPM	MAX RPM	DIMENSIONS (IN)	
				OVERALL WIDTH	OUTSIDE DIAMETER
NARROW	11.5VC500	27,000	1,800	6.125	19.625
	14VC500	39,200	1,500	6.125	23.500
	16VC600	65,000	1,400	7.375	25.500
	20VC600	93,000	1,200	7.375	29.500
	24VC650	135,000	1,050	7.688	34.000
	28VC650	182,000	1,000	7.688	38.000
	42VC650	380,000	800	7.688	53.625
WIDE	14VC1000	85,000	1,800	11.563	23.500
	16VC1000	114,000	1,400	11.563	25.500
	20VC1000	161,000	1,300	11.563	29.500
	24VC1000	219,000	1,250	11.563	34.000
	28VC1000	296,000	1,100	11.563	38.000
	32VC1000	415,000	1,050	11.625	43.875
	38VC1200	680,000	740	13.750	49.375
	42VC1200	819,000	670	13.750	53.625
	46VC1200	950,000	600	13.750	60.250
	52VC1200	1,215,000	550	14.250	67.000
	60VC1600	2,182,900	520	18.500	77.000

Torque Ratings Double for Dual Mounted Units

ELASTA-FLEX® MARINE CLUTCH

The Marine Clutch series elements are an upgraded ventilated version of the CB series that provides higher torque capacity for demanding applications. This series is commonly used on Marine Drive units although it can be used in other demanding applications as well. As with the CB series, the tube is integrally bonded to the outer rim. Unique to this series, the elements can be supplied as “new” or “remanufactured”. This is due to the heavier rim construction used on the Marine Clutch series. The outer rim can be reclaimed and reused. A new elastomeric element is molded into the rim and new friction shoe assemblies installed. Contact your local Oil States clutch distributor for program details and availability.

ELASTA-FLEX® Marine Clutch Ratings and Specs

SIZE	TORQUE RATING (IN-LBS)		MAX RPM	DIMENSIONS (IN)	
	AT 150 PSI MAXIMUM	AT 125 PSI OPERATING		OVERALL WIDTH	OUTSIDE DIAMETER
26	240,000	—	—	6.94	34.750
30	342,000	—	—	7.19	39.375
35	496,000	411,000	1,200	7.69	45.875
40	679,000	562,000	1,050	8.44	51.375
48	1,135,000	939,000	900	9.06	59.500



Replaceable Components for VC Clutches



Narrow and Wide VC Clutches and Components



Marine Clutch Series Elements and Friction Shoe Assemblies

CB & VC Options and Accessories

OPTIONAL FEATURES	BENEFITS
Multiple Air Connectors	Additional ports for faster operational response
Split Construction	This feature considerably reduces downtime in clutch change out
Dual Mounting	Two clutch units bolted together for increased torque capacity
Quick Release Valves	Provides for immediate evacuation of air and quick clutch or brake disengagement
Rotorseals	Provides for air supply connection into the end of the shaft
Butt-End Actuator Tube*	Tube replacement on installations that do not readily permit a continuous tube installation

* VC Option Only

ELASTA-FLEX® E, VE and Expander Tubes

In addition to the CB and VC series clutches and components, Oil States also offers Original *ELASTA-FLEX* Inflation Tubes for the E and VE series including 16E475, 21.5E475, 19VE475, 24E475, and 27VE475. Also available are the hydraulic actuated inflation tubes, friction shoe assemblies, springs and shields for the Carlisle/BFGoodrich style "Expander Tube Brake".

Special Options

As capable and versatile as the standard *ELASTA-FLEX* clutches are, there are those applications that necessitate further attention. Oil States stands ready to assist you in meeting the challenges of your special application requirements. It may be as routine as recommending a clutch size or type configuration (continuous or split), or as complex as designing new interfacing hub, drum and/or spider hardware. By using a dual mounted VC or CB, the torque capability is typically doubled while maintaining the same diametrical envelope. Splitting a VC or CB axially into two segments permits faster replacement, therefore reducing downtime. Oil States constantly strives to meet the many challenges and to go beyond the routine demands of the power transmission industry.

Serviceability

ELASTA-FLEX CBs and VCs are the most easily serviced over-the-shaft clutches and brakes available today. The component parts are simple to remove and reinstall, providing economy in both the actual repair and reduced down time. The VC offers the added convenience of 100% replaceable components. In most cases, the *ELASTA-FLEX* VC can be disassembled on the shaft for easy access to the internal parts, thus reducing the cost of both downtime and repair. Most VC and CB component parts are readily available for prompt shipment to meet your service and repair needs.



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