

D-Flex

Sleeve couplings

We didn't invent sleeve couplings, we just made them better

Sleeve couplings are a simple, effective, and popular coupling design known for their ease of installation and maintenance-free, reliable performance in critical applications.

Dodge® has leveraged decades of sleeve coupling manufacturing experience to improve our Ethylene Propylene Diene Monomer (EPDM) and Neoprene sleeve formulations to achieve a 32 percent torque rating increase compared to previous versions.

New applications can reduce coupling size in 50 percent of selections, reducing initial and future purchase costs. Using the improved formulation in existing applications significantly increases the estimated service life.



New ratings!

Improved EPDM and Neoprene formulation

- Advanced formulation delivers a 32 percent torque rating increase
- Head-to-head testing proved D-Flex meets or exceeds the performance of TB Woods' Sure-Flex Plus*

Longer life and lower cost of ownership

- Decrease current and future costs by reducing coupling size in 40—50 percent of applications
- Retrofits to existing flanges, significantly increasing expected life in existing applications by realizing an immediate 30 percent increase in service factor
- 20 percent increase in abrasion resistance and reinforced rigidity, verified by third-party testing

Key differentiators

- Flanges meet or exceed ASTM B117 salt spray corrosion-resistance standards
- 65-degree set screw angle for maximum holding power
- Fully stocked in multiple warehouses throughout the US
 - Crossville, Tennessee
 - Dallas, Texas
 - Reno, Nevada



*Accelerated life testing at 150 percent of torque rating and maximum angular and/or parallel misalignment

D-Flex ratings

Element size	EPDM and Neoprene		Max bore (in)				Max RPM
	Rated torque (in-lbs)	Hp/100	Straight bore			Bushed	
			Type J	Type S	Type SC	Type B	
3	79	0.13	7/8	-	-	-	9200
4	159	0.25	1	-	-	-	7600
5	317	0.50	1-1/8	1-1/4	1-1/8	-	7600
6	595	0.94	1-3/8	1-7/8	1-3/8	1-3/16	6000
7	958	1.59	-	1-7/8	1-5/8	1-3/16	5250
8	1,500	2.38	-	2-3/8	1-7/8	1-5/8	4500
9	2,379	3.70	-	2-7/8	2-1/8	1-15/16	3750
10	3,799	6.08	-	3-3/8	2-3/8	2-1/2	3600
11	5,986	9.51	-	3-7/8	2-7/8	2-15/16	3600
12	9,515	15.07	-	3-15/16	2-7/8	3-1/2	2800
13	14,999	23.79	-	4-1/2	3-3/8	3-15/16	2400
14	23,400	37.79	-	5	3-7/8	3-15/16	2200
16	47,250	75	-	6	-	-	1500

EPDM element interchange chart

Element size	One-piece solid (JE)			One-piece split (JES)			Two-piece (E)		
	Dodge	TB Woods	Lovejoy	Dodge	TB Woods	Lovejoy	Dodge	TB Woods	Lovejoy
3	004208	3JE SLEEVE	68514436384	004242	3JS SLEEVE	68514436692	-	-	-
4	004210	4JE SLEEVE	68514435359	004244	4JS SLEEVE	68514436695	-	-	-
5	004212	5JE SLEEVE	68514435350	004246	5JS SLEEVE	68514436698	022191	5E SLEEVE	68514435368
6	004214	6JE SLEEVE	68514435569	004248	6JS SLEEVE	68514436701	022192	6E SLEEVE	68514435600
7	004216	7JE SLEEVE	68514435570	004250	7JS SLEEVE	68514436704	022193	7E SLEEVE	68514435570
8	004218	8JE SLEEVE	68514435572	004252	8JS SLEEVE	68514436707	022194	8E SLEEVE	68514435572
9	004220	9JE SLEEVE	68514436405	004254	9JS SLEEVE	68514436864	022195	9E SLEEVE	68514436424
10	004222	10JE SLEEVE	68514435450	004256	10JS SLEEVE	68514435451	022196	10E SLEEVE	68514436429
11	-	-	-	-	-	-	022197	11E SLEEVE	68514436433
12	-	-	-	-	-	-	022198	12E SLEEVE	68514436437
13	-	-	-	-	-	-	021990	13E SLEEVE	68514435464
14	-	-	-	-	-	-	021991	14E SLEEVE	68514435467
16	-	-	-	-	-	-	021992	16E SLEEVE	68514435470

Neoprene element interchange chart

Element size	One-piece solid (JN)			One-piece split (JNS)			Two-piece (N)		
	Dodge	TB Woods	Lovejoy	Dodge	TB Woods	Lovejoy	Dodge	TB Woods	Lovejoy
3	004209	3JN SLEEVE	68514435356	-	-	-	-	-	-
4	004211	4JN SLEEVE	68514435360	004245	4JN SLEEVE	68514436869	-	-	-
5	004213	5JN SLEEVE	68514435366	004247	5JN SLEEVE	68514436872	022212	5N SLEEVE	68514435369
6	004215	6JN SLEEVE	68514436394	004249	6JN SLEEVE	68514436875	022213	6N SLEEVE	68514436411
7	004217	7JN SLEEVE	68514436398	004251	7JN SLEEVE	68514436878	022214	7N SLEEVE	68514436416
8	004219	8JN SLEEVE	68514436402	004253	8JN SLEEVE	68514436881	022215	8N SLEEVE	68514436421
9	-	-	-	-	-	-	022216	9N SLEEVE	68514436426
10	-	-	-	-	-	-	022217	10N SLEEVE	68514435453
11	-	-	-	-	-	-	022218	11N SLEEVE	68514435457
12	-	-	-	-	-	-	022219	12N SLEEVE	68514435461
13	-	-	-	-	-	-	021993	13N SLEEVE	68514435465
14	-	-	-	-	-	-	021994	14N SLEEVE	68514435468