

Airflex® E and VE Construction



E Element



VE Element

Type E and VE elements combine rugged design and rigid construction features which make them ideal for moderate to heavy duty clutch and brake service. They are suited for medium speed cyclic applications which are subject to large thermal loads. When used with an air agitating ventilated drum they provide excellent slip clutch and tension brake service.

A neoprene rubber and cord tube is contained by two side housings. Friction shoes are held in position on the tube periphery by leaf springs which pass through the shoe back plates and side housings. The springs counteract centrifugal force acting on the shoes and insure shoe disengagement. Torque is transmitted by torque bars which are held in position by the side housings. Pressurizing the tube forces the friction shoes to engage an inside drum diameter.

The expanding design allows the element to behave as a centrifugal clutch. The element's operating speed determines the spring force required to retract the shoes upon tube exhaust. When a large spring force is required, side housings with reinforced spring slots are furnished.

The VE element differs from the E element in that the VE side housings and friction shoe backing plates have open construction and ventilating features which permits a greater flow of cooling air and greater heat dissipation.

Element torque is dependent upon the applied pressure, release spring force and speed. Catalog ratings are given at 75 psi (5,2 bar) and zero rpm. Maximum recommended pressure is 125 psi (8,6 bar). Adjustment for operating pressure, spring force and speed is explained under Selection Procedure.

E elements are available in 10 sizes; VE elements in 3 sizes. They are identified by the inside drum diameter in inches to which they expand and the width in inches of their friction lining. For instance, size 16E475 is designed to expand to a 16 inch diameter drum and has a friction lining width of 4.75 inches. The smallest E element will expand to a 12 inch (305 mm) diameter drum and the largest to a 40 inch (1016 mm) diameter drum.

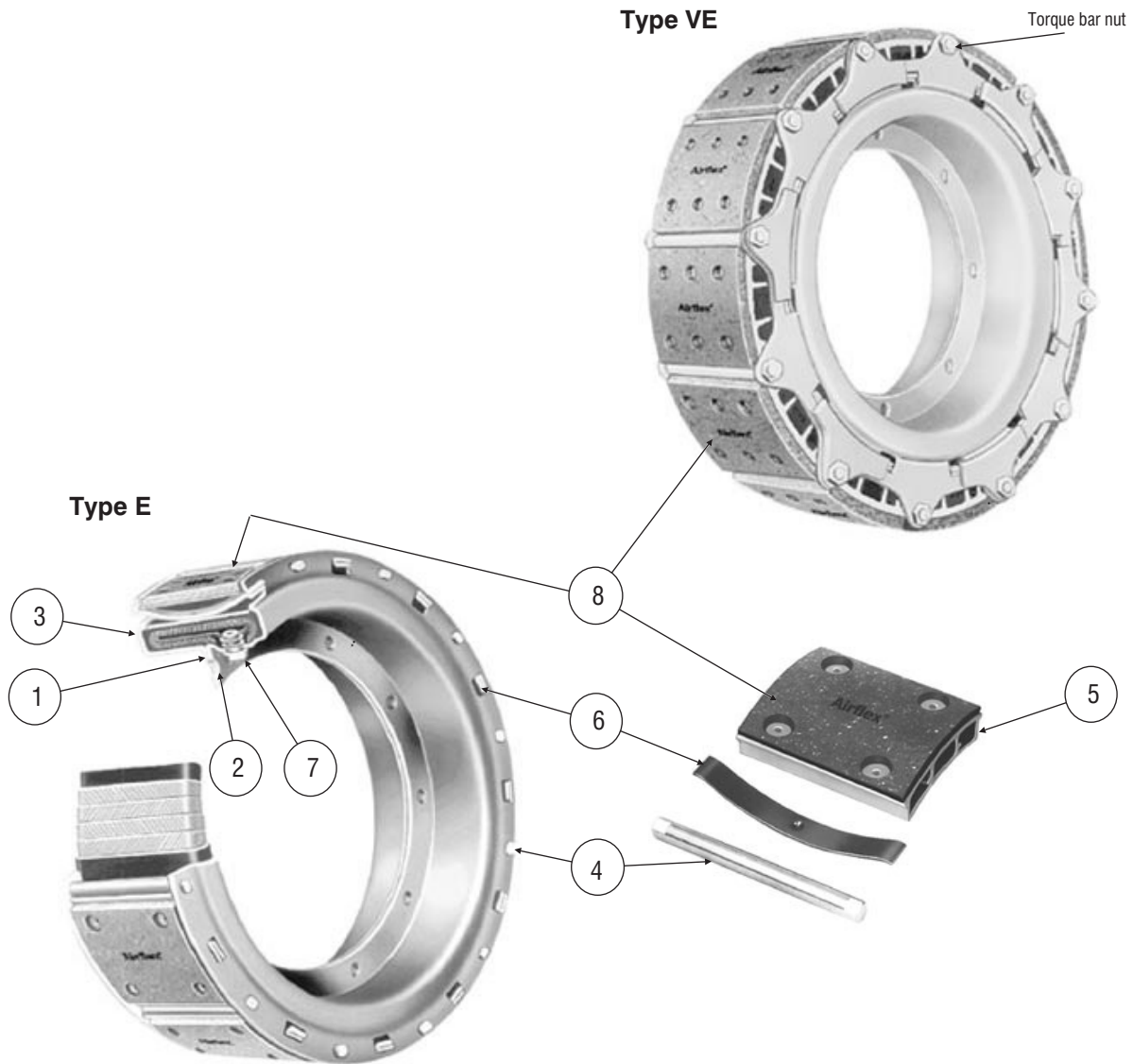
Two elements can be bolted to an adapter ring to form a dual element having twice the torque capacity of a single element.

E elements are available with split side housings. They are used in applications having limited axial access for element maintenance. Butt end actuating tubes are also available for replacement purposes.

Where used:

- Construction Equipment
- Marine Winches
- Metalworking Machinery
- Slip Clutches
- Tension Brakes

Airflex® E and VE Component Descriptions



Size	Torque Rating	
	English	SI
	lb • in @ 75 psi	N • m @ 5,2 bar
12E475	11300	1280
14E475	16000	1810
16E475	21500	2430
19E475	31500	3560
21.5E475	40500	4580
24E475	52000	5880
27E475	67000	7570
30E600	106000	12000
34E600	137000	15500
40E700	225000	25400
19VE475	25500	2880
24VE475	45200	5110
27VE475	58500	6610

Item	Component Description
1	Housing half
2	Housing half with valve hole
3	Tube
4	Torque bar (nuts required for VE)
5	Friction shoe assembly
6	Release spring
7	Tube nut
8	Friction block & rivet kit
4,5,6	Torque bars, friction shoes & release springs kit

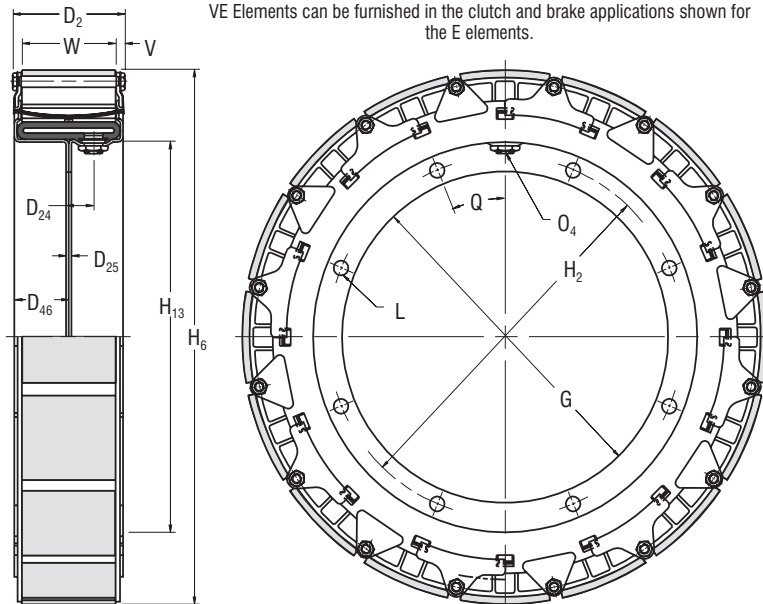
Airflex® VE Element



Form VE 602

Dimensional Data

Sizes 19 to 27



English		lb in @ 75 psi	Dimensions in inches														
19VE475	143215	25500	5.69	1.25	0.19	2.72	9.625	10.750	18.91	11.81	8	0.50	3/8-18	22.50	0.44	12	4.69
24VE475	143216	45200	5.69	1.25	0.25	2.75	14.250	15.750	23.91	17.25	8	0.75	3/8-18	22.50	0.44	14	4.69
27VE475	143334	58500	5.69	1.25	0.27	2.75	16.750	18.250	26.91	19.73	10	0.75	3/8-18	18.00	0.44	16	4.75
Size	Part Number	M _t Torque Rating	D ₂	D ₂₄	D ₂₅	D ₄₆	G	H ₂	H ₆	H ₁₃	No. Dia.		Q ₄	Q	V	No. Width	
											L					L	
											No.	Dia.	No.	Width			
19VE475	143215	2880	145	32	5	69	244,5	273,1	480	300	8	13	3/8-18	22,50	11	12	119
24VE475	143216	5110	145	32	6	70	362,0	400,1	607	438	8	19	3/8-18	22,50	11	14	119
27VE475	143334	6610	145	32	7	70	425,5	463,6	684	501	10	19	3/8-18	18,00	11	16	121
SI		Nm @ 5,2 bar	Dimensions in millimeters														

English		lb in @ 75 psi	rpm	psi/rpm ²	lb ft ²	lb	in ²	inches		in ³	in
19VE475	143215	25500	1100	3.3 E-06	20	58	230	0.43	0.25	70	19.13
24VE475	143216	45200	875	5.6 E-06	61	77	295	0.37	0.18	100	24.19
27VE475	143334	58500	775	5.9 E-06	75	90	333	0.37	0.25	110	27.25
Size	Part Number	M _t Torque Rating	Maximum Speed	C _c Centrifugal Gain	Wk ²		Friction Area	New Worn		Air Tube Cavity ⁵	Maximum Drum Diameter
					J	Mass		Lining Thickness			
								New	Worn		
19VE475	143215	2880	1100	0,2 E-06	0,84	26	1484	11	6	1,1	486
24VE475	143216	5110	875	0,4 E-06	2,56	35	1903	9	5	1,6	614
27VE475	143334	6610	775	0,4 E-06	3,15	41	2148	9	6	1,8	692
SI		Nm @ 5,2 bar	rpm	bar/rpm ²	kg m ²	kg	cm ²	millimeters		dm ³	mm

Notes:

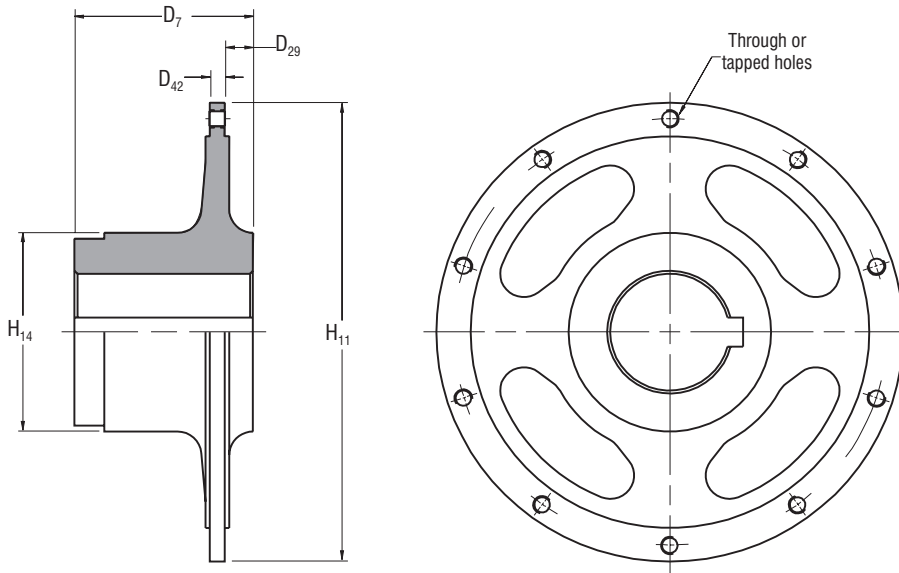
- ① Refers to basic part number only. When ordering, the release spring force and type of friction linings must be specified.
- ② Dynamic torque shown, static torque approximately 25% greater. Torque in each application is dependent upon release spring force, air pressure and speed.
- ③ Tolerances for sizes:
12 thru 27
+0.010/-0.000 in (+0,25/-0,00 mm)
30 thru 40
+0.005/-0.000 in (+0,13/-0,00 mm)
- ④ American National Pipe Thread
- ⑤ Drum contact with worn shoes.
- ⑥ Figures shown are with teflon or graphite slip linings. Multiply values by 1.5 for standard linings, and contact factory for possible need of reinforced housings.
- ⑦ Refer to page C-42 for maximum idle RPM.

Airflex® E and VE Mounting Components



Form E 611

Element Hubs – Dimensional and Technical Data – Sizes 12 to 40



English	Thru Holes	Tapped Holes	lb	lb ft ²	Dimensions in inches				
12E475	402241	402242	20	0.8	4.75	1.13	0.63	7.75	4.38
14E475	402244	402245	22	1	4.75	1.13	0.63	9.50	5.00
16E475	402247	402248	36	3	5.25	1.13	0.75	11.63	5.50
19E475	401476	401477	74	6	6.75	1.19	0.63	14.56	7.50
21.5E475	401478	401479	86	12	6.75	1.19	0.63	17.00	7.50
24E475	401480	401481	122	19	7.50	1.19	0.63	19.63	8.50
27E475	401482	401483	145	34	7.50	1.19	0.63	22.63	9.00
30E600	401484	401485	138	38	7.50	1.22	0.56	24.50	9.00
34E600	401486	401487	183	58	9.00	1.22	0.56	28.50	9.50
40E700	402250	402251	263	98	10.00	1.22	0.56	33.50	11.00
19VE475	402247	402248	36	3	5.25	1.13	0.75	11.63	5.50
24VE475	401478	401479	86	12	6.75	1.19	0.63	17.00	7.50
27VE475	401480	401481	122	19	7.50	1.19	0.63	19.63	8.50
Size	Part Number		Weight Mass	Wk ² J	D ₇	D ₂₉	D ₄₂	H ₁₁	H ₁₄
12E475	402241	402242	9,1	0,03	121	29	16	197	111
14E475	402244	402245	10	0,04	121	29	16	241	127
16E475	402247	402248	16	0,12	133	29	19	295	140
19E475	401476	401477	34	0,24	171	30	16	370	191
21.5E475	401478	401479	39	0,48	171	30	16	432	191
24E475	401480	401481	55	0,81	191	30	16	498	216
27E475	401482	401483	66	1,42	191	30	16	575	229
30E600	401484	401485	63	1,60	191	31	14	622	229
34E600	401486	401487	83	2,45	229	31	14	724	241
40E700	402250	402251	119	4,12	254	31	14	851	279
19VE475	402247	402248	16	0,12	133	29	19	295	140
24VE475	401478	401479	39	0,48	171	30	16	432	191
27VE475	401480	401481	55	0,81	191	30	16	498	216
SI	Thru Holes	Tapped Holes	kg	kg·m ²	Dimensions in millimeters				

Notes:

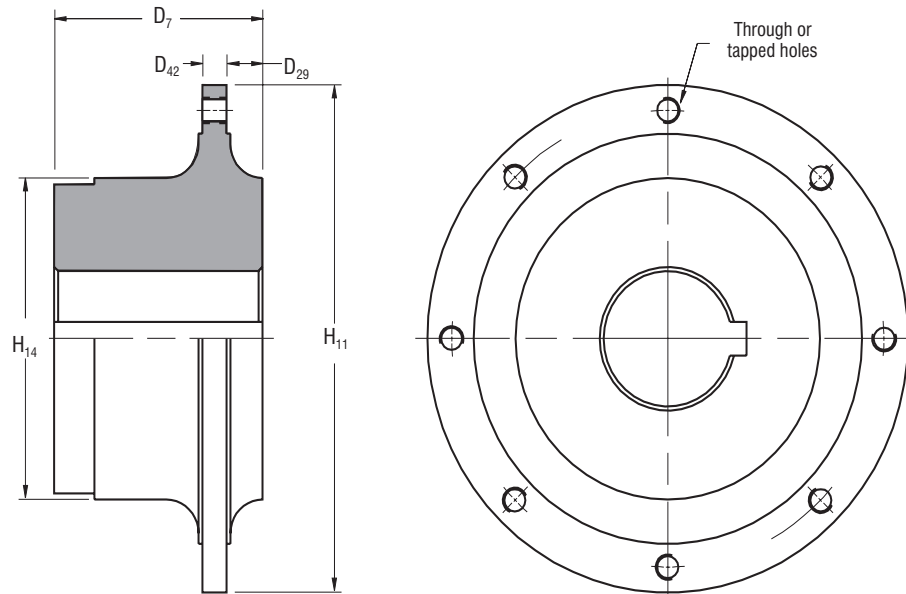
① Based upon minimum bores.

Airflex® E and VE Mounting Components



Form E 614

Drum Hubs – Dimensional and Technical Data – Size 12 to 40



English	Thru Holes	Tapped Holes	lb	lb ft ²	Dimensions in inches				
12E475	404351	402262	13	0.3	3.75	1.125	0.63	6.25	4.00
14E475	404352	402264	25	1.0	4.25	1.125	0.63	8.25	5.00
16E475	404353	402266	38	1.5	5.00	1.125	0.63	9.25	6.00
19E475	404354	402268	64	5	6.00	1.125	0.63	11.50	7.00
21.5E475	404355	402270	71	6	6.00	1.125	0.63	13.50	7.00
24E475		404638	133	18	9.00	1.125	0.63	15.00	9.50
27E475	403194	402274	121	15	7.50	1.125	0.75	15.00	8.50
30E600	404357	402276	162	35	7.50	1.125	0.75	20.00	9.00
34E600	404358	402278	214	59	9.00	1.125	0.75	23.00	9.50
40E700	404359	402280	330	139	10.00	1.125	0.75	28.50	11.00
19VE475	404353	402266	38	1.5	5.00	1.125	0.63	9.25	6.00
24VE475	404355	402270	71	6	6.00	1.125	0.63	13.50	7.00
27VE475	404356	402272	72	9	6.50	1.125	0.63	15.00	7.50
Size	Part Number		Weight	Wk ²	D ₇	D ₂₉	D ₄₂	H ₁₁	H ₁₄
			Mass	J					
12E475	404351	402262	5,9	0,01	95	28,6	15,9	159	102
14E475	404352	402264	11	0,04	108	28,6	15,9	210	127
16E475	404353	402266	17	0,06	127	28,6	15,9	235	152
19E475	404354	402268	29	0,19	152	28,6	15,9	292	178
21.5E475	404355	402270	32	0,26	152	28,6	15,9	343	178
24E475		404638	60	0,74	229	28,6	15,9	381	241
27E475	403194	402274	55	0,62	191	28,6	19,1	381	216
30E600	404357	402276	73	1,47	191	28,6	19,1	508	229
34E600	404358	402278	97	2,48	229	28,6	19,1	584	241
40E700	404359	402280	149	5,84	254	28,6	19,1	724	279
19VE475	404353	402266	17	0,06	127	28,6	15,9	235	152
24VE475	404355	402270	32	0,25	152	28,6	15,9	343	178
27VE475	404356	402272	33	0,38	165	28,6	15,9	381	191
SI	Thru Holes	Tapped Holes	kg	kg.m ²	Dimensions in millimeters				

Notes:

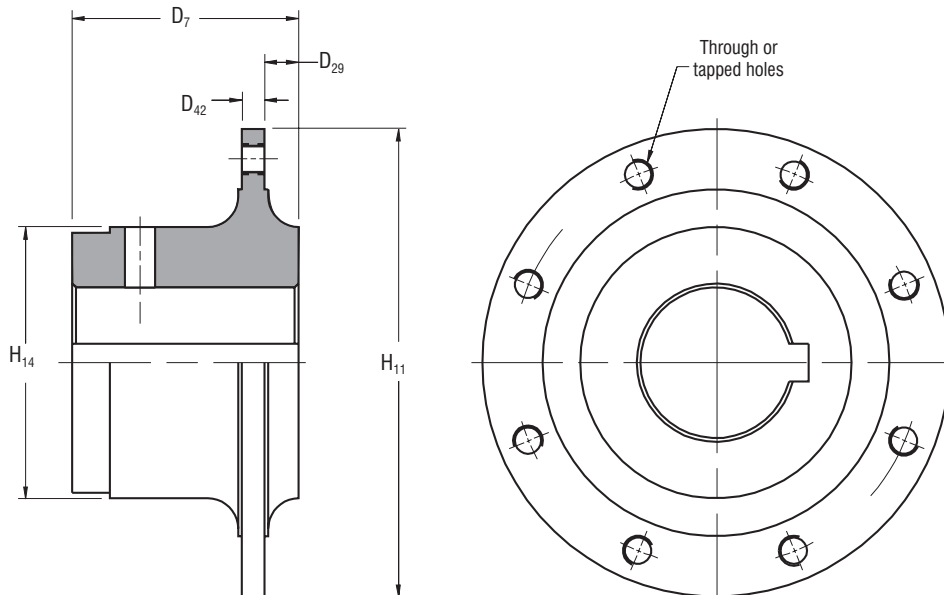
① Based upon minimum bores.

Airflex® E and VE Mounting Components



Form E 618

Dual Adapter Ring Hubs – Dimensional and Technical Data
Sizes 16 to 34



English	Thru Holes	Tapped Holes	lb	lb ft ²	Dimensions in inches				
16E475	402290	402291	28	1	4.25	1.13	0.63	8.25	5.00
19E475	402292	402293	48	3	6.00	1.13	0.63	11.00	7.00
21.5E475	402294	402295	62	5	6.00	1.13	0.63	12.50	7.00
24E475	402296	402297	116	10	7.50	1.13	0.75	15.50	9.00
27E475	401447	401448	72	16	6.75	1.13	0.75	17.50	7.50
30E600	402298	402299	133	26	7.50	1.13	0.75	19.00	9.00
34E600	402300	402301	125	51	7.50	1.13	0.75	22.88	9.00
19VE475	402290	402291	28	1	4.25	1.13	0.63	8.25	5.00
24VE475	402294	402297	62	5	6.00	1.13	0.63	12.50	7.00
27VE475	402296	402297	116	10	7.50	1.13	0.75	17.50	7.50
Size	Part Number		Weight Mass	Wk ² J	D ₇	D ₂₉	D ₄₂	H ₁₁	H ₁₄
16E475	402290	402291	13	0,04	108	28,6	15,9	210	127
19E475	402292	402293	22	0,11	152	28,6	15,9	279	178
21.5E475	402294	402295	28	0,21	152	28,6	15,9	318	178
24E475	402296	402297	53	0,41	191	28,6	19,1	394	229
27E475	401447	401448	32	0,67	171	28,6	19,1	445	191
30E600	402298	402299	60	1,09	191	28,6	19,1	483	229
34E600	402300	402301	56	2,14	191	28,6	19,1	581	229
19VE475	402290	402291	13	0,04	108	28,6	16,0	209,6	127,0
24VE475	402294	402295	28	0,21	152	28,6	16,0	317,5	177,8
27VE475	402296	402297	53	0,42	191	28,6	19,1	444,5	190,5
SI	Thru Holes	Tapped Holes	kg	kg m ²	Dimensions in millimeters				

Notes:

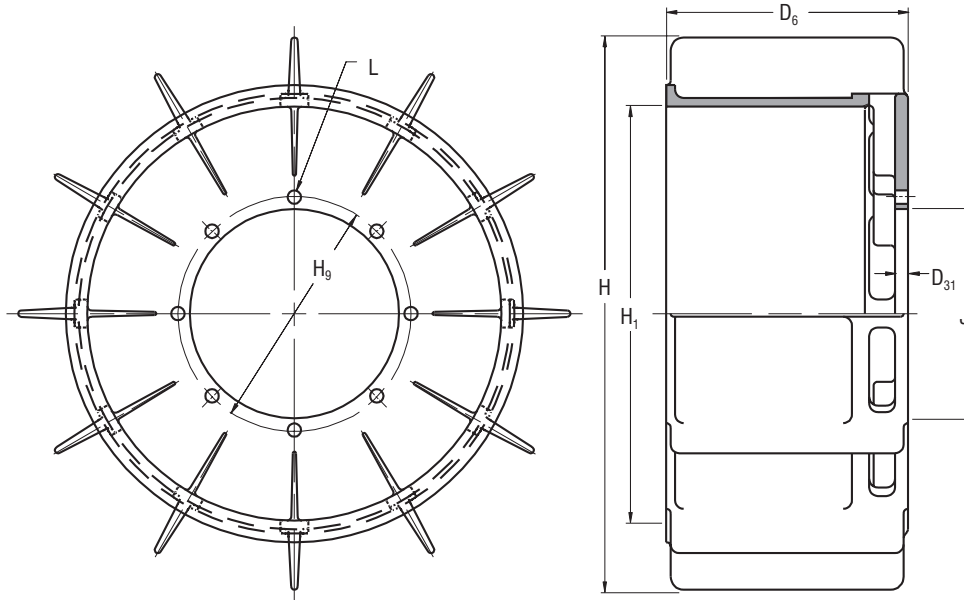
① Based upon minimum bores.

Airflex® E and VE Mounting Components



Form E 615

Ventilated Drums – Dimensional and Technical Data – Sizes 12 to 40



English	Dimensions in inches						Thru Holes	Tapped Holes	lb	lbft ²	in	Thru Holes	Tapped Holes	lb	lbft ²	in		
12E475	0.75	18.00	12.00	5.063	4.187	6	0.53	1/2-13	510363	510536	95	30	8.00	401313	N/A	155	45	14.00
14E475	0.75	20.00	14.00	7.250	6.250	6	0.53	1/2-13	510079	510417	105	45	8.00	401315	402033	200	70	14.00
16E475	0.75	22.00	16.00	7.750	6.250	6	0.78	3/4-10	510364	510453	120	60	8.00	401317	402034	235	155	14.00
19E475	0.75	25.00	19.00	10.000	8.250	8	0.78	3/4-10	412715	413328	140	85	8.00	401319	402035	275	190	14.00
21.5E475	0.75	29.50	21.50	12.000	10.750	6	0.78	3/4-10	510365	510537	170	140	8.00	401321	402036	300	285	14.00
24E475	0.75	32.00	24.00	13.500	12.125	8	0.78	3/4-10	401303	401534	195	220	8.00	401323	402037	315	330	14.00
27E475	0.75	35.00	27.00	13.500	12.125	8	0.78	3/4-10	510077	510418	240	275	8.00	401325	402038	430	570	14.00
30E600	1.00	38.00	30.00	18.500	16.750	10	0.78	3/4-10	401307	401536	315	615	9.75	401327	402039	600	960	17.75
34E600	1.00	42.00	34.00	21.500	19.500	14	0.78	3/4-10	401309	401537	395	730	9.75	401329	402040	645	1300	17.75
40E700	1.00	48.00	40.00	27.000	25.000	18	0.78	3/4-10	401712	401538	480	1210	10.75	401331	402041	775	2170	20.00
19VE475	0.75	25.00	19.00	10.000	8.250	8	0.78	3/4-10	412715	413328	140	85	8.00	401319	402035	275	190	14.00
24VE475	0.75	32.00	24.00	13.500	12.125	8	0.78	3/4-10	401303	401534	195	220	8.00	401323	402037	315	330	14.00
27VE475	0.75	35.00	27.00	13.500	12.125	8	0.78	3/4-10	510077	510418	240	275	8.00	401325	402038	430	570	14.00

Size	D ₃₁	H	H ₁	H _g	J _g	No.		Part Number	Weight	Wk ²	D ₆	Part Number				Weight	Wk ²	D ₆
						Thru	Tapped					Dual Element Drum						
						Single Element Drum												Part Number
12E475	19	457	305	128,6	106,3	6	13	1/2-13	510363	510536	43	1,26	203	401313	N/A	70	1,89	356
14E475	19	508	356	184,2	158,8	6	13	1/2-13	510079	510417	48	1,89	203	401315	402033	91	2,94	356
16E475	19	559	406	196,9	158,8	6	20	3/4-10	510364	510453	54	2,52	203	401317	402034	106	6,51	356
19E475	19	635	483	254,0	209,6	8	20	3/4-10	412715	413328	63	3,57	203	401319	402035	125	7,98	356
21.5E475	19	749	546	304,8	273,1	6	20	3/4-10	510365	510537	77	5,88	203	401321	402036	136	11,97	356
24E475	19	813	610	342,9	308,0	8	20	3/4-10	401303	401534	88	9,24	203	401323	402037	143	13,86	356
27E475	19	889	686	342,9	308,0	8	20	3/4-10	510077	510418	109	11,55	203	401325	402038	195	23,94	356
30E600	25	965	762	469,9	425,5	10	20	3/4-10	401307	401536	143	25,83	248	401327	402039	272	40,32	451
34E600	25	1067	864	546,1	495,3	14	20	3/4-10	401309	401537	179	30,66	248	401329	402040	292	54,60	451
40E700	25	1219	1016	685,8	635,0	18	20	3/4-10	401712	401538	217	50,82	273	401331	402041	351	91,14	508
19VE475	19	635	483	254,0	209,6	8	20	3/4-10	412715	413328	63	3,57	203	401319	402035	125	7,98	356
24VE475	19	813	610	342,9	308,0	8	20	3/4-10	401303	401534	88	9,24	203	401323	402037	143	13,86	356
27VE475	19	889	686	342,9	308,0	8	20	3/4-10	510077	510418	109	11,55	203	401325	402038	195	23,94	356

Notes:

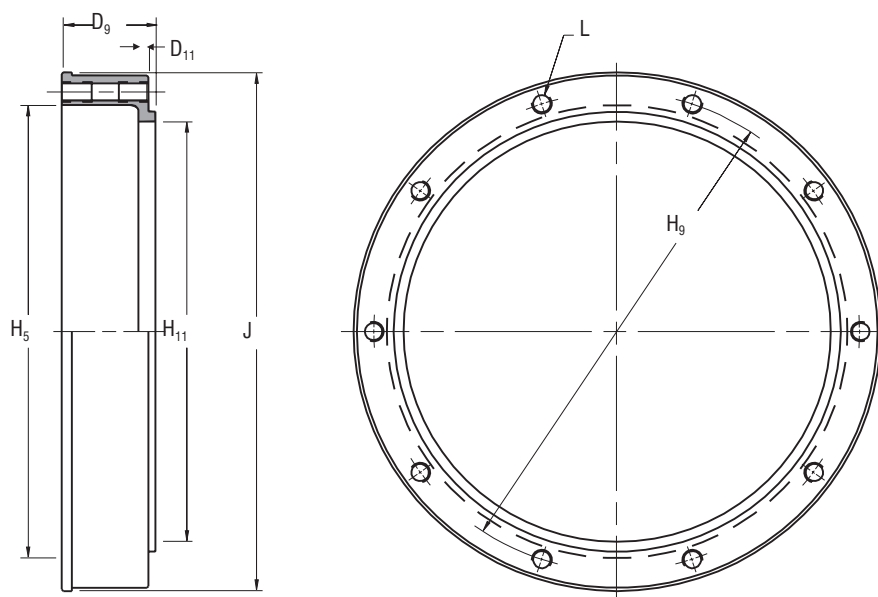
- ① Tolerance +0.005/-0.000 in (0,13/-0,00 mm)
- ② American National Standard for Unified Screw Threads.

Airflex® E and VE Mounting Components



Form E 612

Adapter Rings – Dimensional and Technical Data – Sizes 12 to 40



English		lb	lb ft ²	Dimensions in inches								
12E475	12117	21	2	3.38	.19	6.25	7.00	5.50	8.120	10	3/8-16	0.75
14E475	12118	25	3	3.38	.19	8.00	8.75	7.13	9.745	12	3/8-16	0.63
16E475	12119	37	6	3.38	.19	9.75	10.75	9.13	11.745	8	1/2-13	0.88
19E475	12120	53	14	3.38	.25	12.75	13.75	11.63	14.745	10	1/2-13	1.00
21.5E475	12121	82	28	3.44	.25	14.25	15.75	13.75	17.120	8	3/4-10	1.12
24E475	12122	102	50	3.50	.25	16.75	18.25	16.00	19.745	10	3/4-10	1.12
27E475	12123	138	80	3.50	.25	19.75	21.25	18.00	22.620	12	3/4-10	1.12
30E600	12124	192	145	4.31	.31	21.50	23.00	20.00	24.870	14	3/4-10	1.12
34E600	12125	246	240	4.31	.31	25.50	27.00	24.00	28.870	16	3/4-10	1.25
40E700	12126	331	445	4.88	.31	30.50	32.00	29.00	33.745	18	3/4-10	1.50
19VE475	12120	37	6	3.38	.25	9.75	10.75	9.13	11.745	8	1/2-13	0.88
24VE475	12121	82	28	3.44	.25	14.25	15.75	13.75	17.120	8	3/4-10	1.12
27VE475	12122	102	50	3.50	.25	16.75	18.25	16.00	19.475	10	3/4-10	1.12

Size	Part Number	Weight	Wk ²	D ₉	D ₁₁	H ₅	H ₉	H ₁₁	J	No.	Size	Depth
		Mass	J							L ②		
										No.	Size	Depth
12E475	12117	9,5	0,07	86	4,83	159	178	140	206,2	10	3/8-16	19
14E475	12118	11	0,11	86	4,83	203	222	181	247,5	12	3/8-16	16
16E475	12119	17	0,26	86	4,83	248	273	232	298,3	8	1/2-13	22
19E475	12120	24	0,57	86	6,35	324	349	295	374,5	10	1/2-13	25
21.5E475	12121	37	1,19	87	6,35	362	400	349	434,8	8	3/4-10	28
24E475	12122	46	2,10	89	6,35	425	464	406	501,5	10	3/4-10	28
27E475	12123	63	3,37	89	6,35	502	540	457	574,5	12	3/4-10	28
30E600	12124	87	6,09	109	7,87	546	584	508	631,7	14	3/4-10	28
34E600	12125	111	10,08	109	7,87	648	686	610	733,3	16	3/4-10	32
40E700	12126	150	18,69	124	7,87	775	813	737	857,1	18	3/4-10	38
19VE475	12120	17	0,26	86	6,35	248	273	232	298,3	8	1/2-13	22
24VE475	12121	37	1,19	87	6,35	362	400	349	434,8	8	3/4-10	28
27VE475	12122	46	2,10	89	6,35	425	464	406	494,7	10	3/4-10	28

SI		kg	kg m ²	Dimensions in millimeters							
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Notes:

① Tolerance +0.000/-0.005 in (+0,00/-0,13 mm)

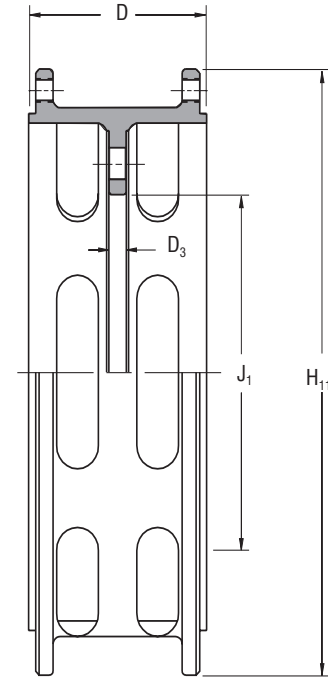
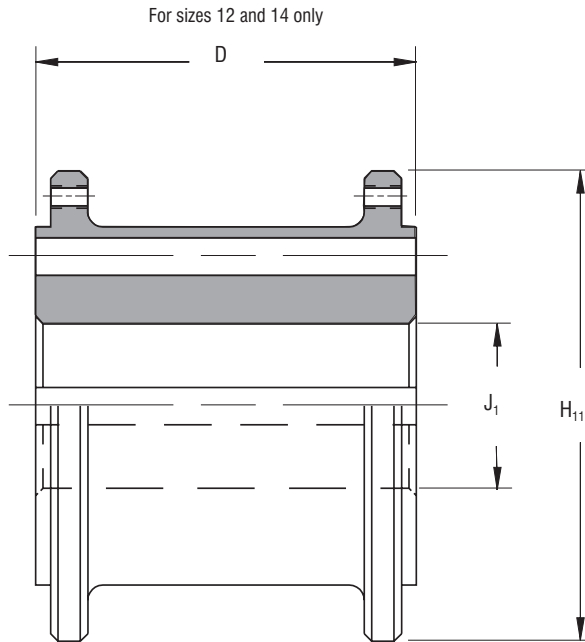
② American National Standard for Unified Screw Threads.

Airflex® E and VE Mounting Components



Form E 613

Dual Adapter Rings – Dimensional and Technical Data – Sizes 12 to 34



English		lb	lb ft ²	Dimensions in inches						
12E475	400234	38 ①	2 ①	6.38	N/A	N/A	7.88	③	N/A	N/A
14E475	400476	64 ①	5 ①	6.38	N/A	N/A	9.50	③	N/A	N/A
16E475	012135	72	10	6.25	0.50	6.75	11.63	5.500	8	0.78
19E475	012208	106	30	6.38	0.50	9.50	14.63	8.000	10	0.78
21.5E475	012098	116	40	6.38	0.63	11.00	17.13	9.625	6	0.78
24E475	012209	187	90	6.38	0.63	13.50	19.62	11.500	8	1.03
27E475	012210	234	145	6.38	0.63	16.00	22.63	14.625	8	0.78
30E600	012211	353	250	8.13	0.75	17.00	24.50	15.000	12	1.03
34E600	012212	453	445	8.13	0.75	21.00	28.50	19.000	12	1.03
Size	Part Number	Weight	Wk ²	D	D ₃₁	H ₃	H ₁₁	② J ₁	No	Dia.
		Mass	J						L	
									No	Dia.
12E475	400234	17 ①	0,91 ①	162	N/A	N/A	200	③	N/A	N/A
14E475	400476	29 ①	2,27 ①	162	N/A	N/A	241	③	N/A	N/A
16E475	012135	33	4,53	159	13	171	295	140	8	20
19E475	012208	48	13,59	162	13	241	372	203	10	20
21.5E475	012098	53	18,12	162	16	279	435	244	6	20
24E475	012209	85	40,77	162	16	343	498	292	8	26
27E475	012210	106	65,69	162	16	406	575	371	8	20
30E600	012211	160	113,3	207	19	432	622	381	12	26
34E600	012212	205	201,6	206	19	533	724	483	12	26
SI		kg	kg m ²	Dimensions in millimeters						

Notes:

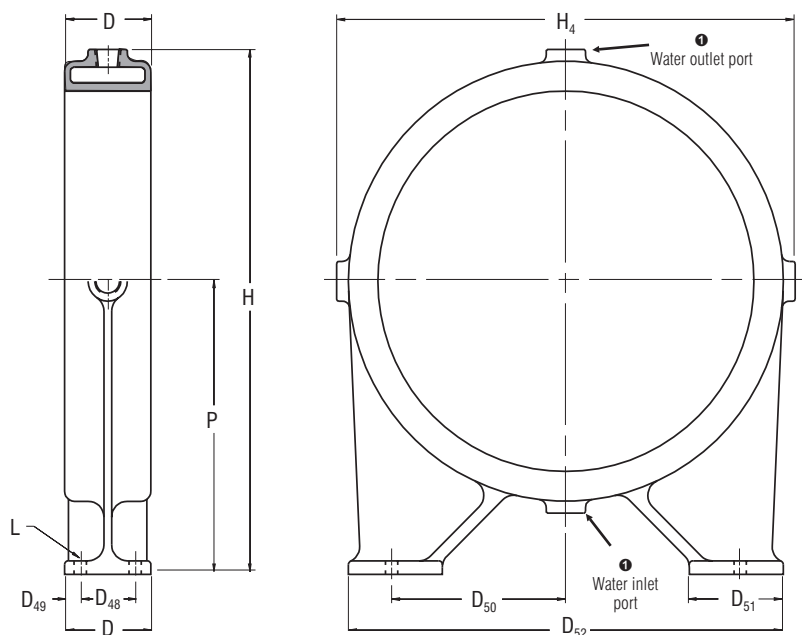
- ① Based upon minimum bores.
- ② Tolerance +0.005/-0.000 in (+0,13/-0,00 mm)
- ③ Adapter ring bored and keyseated for shaft mounting. Bore 2.75 in (70 mm) minimum, 3.75 in (95 mm) maximum.

Airflex® E Mounting Components



Form E 617

Water-Cooled Drums – Dimensional and Technical Data – Sizes 12 to 24



English		lb	in ³	Dimensions in inches										
12E475	403111	104	210	5.50	1.00	3.50	6.125	4.00	15.75	21.13	17.25	4	0.66	12.50
14E475	403113	111	240	5.50	1.00	3.50	7.125	4.00	17.75	23.13	19.25	4	0.66	13.50
16E475	402456	156	650	5.50	1.00	3.50	9.500	4.00	22.50	28.00	24.00	4	0.66	16.00
19E475	402593	153	320	5.50	1.00	3.50	9.125	5.00	22.75	28.13	24.25	4	0.78	16.00
21.5E475	403115	178	350	5.50	1.00	3.50	9.875	6.00	25.25	30.63	26.75	4	0.78	17.25
24E475	403117	202	390	5.50	1.00	3.50	11.125	6.00	27.75	33.13	29.25	4	0.78	18.50
27E475	403119	223	430	5.50	1.00	3.50	12.625	6.00	30.75	36.13	32.25	4	0.78	20.00
30E600	402876	289	730	7.00	1.25	4.50	13.625	7.00	33.75	39.13	35.25	4	1.06	21.50
34E600	403121	316	820	7.00	1.25	4.50	15.625	7.00	37.75	43.13	39.25	4	1.06	23.50
Size	Part Number	Weight Mass	Water Cavity Volume	D	D ₄₈	D ₄₉	D ₅₀	D ₅₁	D ₅₂	H	H ₄	No.. Dia		P
												L		
												No..	Dia	
12E475	403111	47	3,44	140	25	89	155,6	102	400	537	438	4	17	318
14E475	403113	50	3,94	140	25	89	181,0	102	451	587	489	4	17	343
16E475	402456	71	10,7	140	25	89	241,3	102	572	711	610	4	17	406
19E475	402593	69	5,2	140	25	89	231,8	127	578	714	616	4	20	406
21.5E475	403115	81	5,7	140	25	89	250,8	152	641	778	679	4	20	438
24E475	403117	92	6,4	140	25	89	282,6	152	705	841	743	4	20	470
27E475	403119	101	7,1	140	25	89	320,7	152	781	918	819	4	20	508
30E600	402876	131	12,0	178	32	114	346,1	178	857	994	895	4	27	546
34E600	403121	143	13,4	178	32	114	396,9	178	959	1095	997	4	27	597
SI		kg	dm ³	Dimensions in millimeters										

Notes:

- ① 1 1/4 - 11 1/2 American National Pipe Thread. To insure a water-filled cavity, it is important that the water inlet be located at 6 o'clock and the outlet at 12 o'clock.