

VUR / VUF / VUL / VUM: With Selectable Inner Diameter

Material: 304 Stainless Steel		Spring Constant	±10%	Free length L	50 or less ±1 mm
Outer Diameter D	Ø8 or less +0.6mm +0.1mm Ø10 or more +0.8mm +0.1mm			60 or more ±2 mm	

Part Number		Outer Dia. D ₁	Wire Dia. d	F max.	N[kgf] max.	Reference		
Type	D - L					Pitch	Solid Length	Total Coils
VUR	5- 20 25 30 35 40 45 50	5.9	0.45	9	2.65(0.27)	1.7	5.0	10
				12	3.53(0.36)	2.2		
				15	4.41(0.45)	1.9		
		6.0	0.50	18	5.29(0.54)	2.3	7.5	14
				21	6.17(0.63)	2.3		
		6.1	0.55	24	7.06(0.72)	2.6	9.6	16.5
				27	7.94(0.81)	2.1		
6.2	0.60	30	8.82(0.90)	2.4	13.8	22		
VUR	6- 15 20 25 30 35 40 45 50 55 60	7.0	0.50	9	2.65(0.27)	1.9	5.0	9
				12	3.53(0.36)	2.0		
				15	4.41(0.45)	2.5		
		7.1	0.55	18	5.29(0.54)	3.0	6.6	11
				21	6.17(0.63)	2.7		
		7.2	0.60	24	7.06(0.72)	3.0	9.0	14
				27	7.94(0.81)	2.4		
		7.3	0.65	30	8.82(0.90)	2.7	13.3	19.5
				33	9.70(0.99)	2.3		
7.4	0.70	36	10.59(1.08)	2.5	18.2	25		
VUR	8- 20 25 30 35 40 45 50 55 60 65 70 80	9.3	0.65	12	3.53(0.36)	2.4	6.8	9.5
				15	4.41(0.45)	2.9		
				18	5.29(0.54)	2.7		
		9.4	0.70	21	6.17(0.63)	3.2	9.1	12
				24	7.06(0.72)	3.6		
				27	7.94(0.81)	2.4		
		9.6	0.80	30	8.82(0.90)	2.6	16.8	20
				33	9.70(0.99)	2.9		
				36	10.58(1.08)	3.2		
		9.8	0.90	39	11.47(1.17)	2.2	28.8	31
				42	12.35(1.26)	2.3		
				48	14.12(1.44)	2.7		
VUR	10- 20 25 30 35 40 45 50 55 60 65 70 80	11.4	0.70	12	3.53(0.36)	3.3	5.6	7
				15	4.41(0.45)	3.1		
		11.6	0.80	18	5.29(0.54)	2.7	10.4	12
				21	6.17(0.63)	3.2		
				24	7.06(0.72)	3.6		
		11.8	0.90	27	7.94(0.81)	2.8	16.2	17
				30	8.82(0.90)	3.1		
				33	9.70(0.99)	3.4		
		12.0	1.00	36	10.58(1.08)	3.8	26.0	25
				39	11.47(1.17)	4.1		
42	12.60(1.26)			2.9				
VUR	12- 25 30 35 40 45 50 55 60 65 70 80 90	13.6	0.80	15	4.41(0.45)	3.6	7.2	8
				18	5.29(0.54)	4.3		
				21	6.17(0.63)	3.3		
		13.8	0.90	24	7.06(0.72)	3.8	11.3	11.5
				27	7.94(0.81)	4.3		
				30	8.82(0.90)	3.3		
		14.0	1.00	33	9.70(0.99)	3.7	17.0	16
				36	10.58(1.08)	4.0		
				39	11.47(1.17)	4.3		
		14.2	1.10	42	12.35(1.26)	3.3	25.3	22
				48	14.11(1.44)	3.8		
				54	15.88(1.62)	4.3		
VUR	16- 35 40 45 50 55 60 65 70 80 90 100	18.0	1.00	21	6.17(0.63)	4.7	9.5	8.5
				24	7.06(0.72)	5.3		
				27	7.94(0.81)	4.5		
		18.2	1.10	30	8.82(0.90)	5.0	13.2	11
				33	9.70(0.99)	5.5		
				36	10.58(1.08)	6.0		
		18.4	1.20	39	11.47(1.17)	5.0	18.0	14
				42	12.35(1.26)	5.4		
				48	14.11(1.44)	6.2		
		54		54	15.88(1.62)	6.9		
				60	17.64(1.80)	7.7		

Part Number Example **Part Number** - **L**
VUR10 - **20**

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VUR / VUF / VUL / VUM: With Selectable Inner Diameter, *continued*

Part Number		O.D. D _i	Wire Dia. d	F max.	N(kgf) max.	Reference		
Type	D - L					Pitch	Solid Length	Total Coils
VUL	5 - 15 20 25 30 35 40 45 50	6.2	0.60	6	5.88 (0.60)	2.5	4.8	7
				8	7.84 (0.80)	3.3		
				10	9.80 (1.00)	2.3		
		6.4	0.70	12	11.76 (1.20)	2.7	9.1	12
				14	13.72 (1.40)	3.2		
				16	15.68 (1.60)	2.2		
		6.6	0.80	18	17.64 (1.80)	2.5	16.0	19
20	19.60 (2.00)			2.8				
VUL	6 - 15 20 25 30 35 40 45 50 55 60	7.4	0.70	6	5.88 (0.60)	2.1	6.3	8
				8	7.84 (0.80)	2.9		
				10	9.80 (1.00)	2.3		
		7.6	0.80	12	11.76 (1.20)	2.7	10.4	12
				14	13.72 (1.40)	3.2		
				16	15.68 (1.60)	2.5		
		7.8	0.90	18	17.64 (1.80)	2.8	16.2	17
				20	19.60 (2.00)	3.1		
				22	21.56 (2.20)	3.4		
				24	23.52 (2.40)	3.8		
VUL	8 - 20 25 30 35 40 45 50 55 60 65 70 80	9.8	0.90	8	7.84 (0.80)	2.4	9.5	9.5
				10	9.80 (1.00)	2.9		
				12	11.76 (1.20)	2.5		
		10.0	1.00	14	13.72 (1.40)	2.9	14.0	13
				16	15.68 (1.60)	3.3		
				18	17.64 (1.80)	3.8		
				20	19.60 (2.00)	4.2		
				22	21.56 (2.20)	4.6		
		10.4	1.20	24	23.52 (2.40)	2.7	28.8	23
				26	25.48 (2.60)	3.0		
28	27.44 (2.80)			3.2				
32	31.36 (3.20)			3.6				
VUL	10 - 20 25 30 35 40 45 50 55 60 65 70 80	12.0	1.00	8	7.84 (0.80)	3.1	8.5	7.5
				10	9.80 (1.00)	3.8		
				12	11.76 (1.20)	3.2		
		12.2	1.10	14	13.72 (1.40)	3.7	12.7	10.5
				16	15.68 (1.60)	4.2		
				18	17.64 (1.80)	4.7		
				20	19.60 (2.00)	5.3		
				22	21.56 (2.20)	3.1		
		12.6	1.30	24	23.52 (2.40)	3.4	25.4	18.5
				26	25.48 (2.60)	3.7		
28	27.44 (2.80)			4.0				
32	31.36 (3.20)			4.6				
VUL	12 - 25 30 35 40 45 50 55 60 65 70 80 90	14.4	1.20	10	9.80 (1.00)	2.9	12.6	9.5
				12	11.76 (1.20)	3.5		
				14	13.72 (1.40)	4.1		
				16	15.68 (1.60)	4.7		
				18	17.64 (1.80)	5.3		
		14.8	1.40	20	19.60 (2.00)	5.9	21.7	14.5
				22	21.56 (2.20)	4.1		
				24	23.52 (2.40)	4.4		
				26	25.48 (2.60)	4.8		
				28	27.44 (2.80)	5.2		
VUL	16 - 35 40 45 50 55 60 65 70 80 90 100	19.0	1.50	32	31.36 (3.20)	5.9	15.8	9.5
				36	35.28 (3.60)	6.7		
				14	13.72 (1.40)	4.1		
				16	15.68 (1.60)	4.7		
				18	17.64 (1.80)	5.3		
		19.4	1.70	20	19.60 (2.00)	5.9	24.7	13.5
				22	21.56 (2.20)	4.4		
				24	23.52 (2.40)	4.8		
				26	25.48 (2.60)	5.2		
				28	27.44 (2.80)	5.6		
		32	31.36 (3.20)	6.4				
		36	35.28 (3.60)	7.2				
		40	39.20 (4.00)	8.0				

 **Part Number Example**

Part Number	-	L
VUR10	-	40

Type	VUR	VUF	VUL	VUM
5				
6				
8	0.29 {0.03}	0.49 {0.05}	0.98 {0.10}	2.94 {0.30}
10				
12				
16				
Fmax	F=Lx70%	F=Lx75%	F=Lx60%	F=Lx45%

Part Number			O.D. D _i	Wire Dia. d	F max.	N(kgr) max.	Reference							
Type	D - L	Pitch					Solid Length	Total Coils						
VUM	5 - 15	15	6.6	0.80	5.3	15.39	(1.57)	2.3	6.8	7.5				
		20	6.8	0.90	7.0	20.58	(2.10)	1.8	11.7	12				
		25			8.8	25.68	(2.62)	2.3						
		30			10.5	30.87	(3.15)	2.4						
		35	7.0	1.00	12.3	35.97	(3.67)	2.8	14.5	13.5				
		40			14.0	41.16	(4.20)	3.2						
		45			15.8	46.26	(4.72)	2.5						
VUM	6 - 15	50	7.2	1.10	17.5	51.45	(5.25)	2.8	22.0	19				
		20	7.8	0.90	5.3	15.39	(1.57)	2.3	7.7	7.5				
					7.0	20.58	(2.10)	3.0						
					8.8	25.68	(2.62)	2.8						
		25	8.0	1.00	10.5	30.87	(3.15)	3.3	11.0	10				
					12.3	35.97	(3.67)	3.9						
					14.0	41.16	(4.20)	2.6						
VUM	8 - 20	40	8.4	1.20	15.8	46.26	(4.72)	2.9	21.0	16.5				
					17.5	51.45	(5.25)	3.2						
					19.3	56.55	(5.77)	2.6						
		55	8.6	1.30	21.0	61.74	(6.30)	2.9	29.9	22				
					7.0	20.58	(2.10)	3.3			8.8	7		
					8.8	25.68	(2.62)	4.2						
		VUM	10 - 25	60	10.2	1.10	10.5	30.87	(3.15)	5.0			15.6	11
12.3	35.97						(3.67)	3.5						
14.0	41.16						(4.20)	4.0						
65	10.6			1.30	15.8	46.26	(4.72)	4.5	27.8	17.5				
					17.5	51.45	(5.25)	5.0						
					19.3	56.55	(5.77)	3.3						
VUM	12 - 30			70	11.0	1.50	21.0	61.74	(6.30)	3.6	28.9	16		
		22.8	66.84				(6.82)	3.9						
		24.5	72.03				(7.35)	4.2						
		VUM	14 - 40	80	12.4	1.20	28.0	82.32	(8.40)	4.8	10.4	7		
							7.0	20.58	(2.10)	4.0			18.8	11.5
							8.8	25.68	(2.62)	4.2				
				85	12.6	1.30	10.5	30.87	(3.15)	5.0	28.9	16		
12.3	35.97						(3.67)	5.8						
14.0	41.16						(4.20)	3.8						
VUM	16 - 35			90	13.0	1.50	15.8	46.26	(4.72)	4.3	23.4	12		
		17.5	51.45				(5.25)	4.8						
		19.3	56.55				(5.77)	5.2						
		VUM	18 - 45	95	13.4	1.70	21.0	61.74	(6.30)	5.7	9.8	6		
							22.8	66.84	(6.82)	4.3				
							24.5	72.03	(7.35)	4.7				
				VUM	20 - 50	100	14.8	1.40	28.0	82.32	(8.40)	5.3	16.0	9
8.8	25.68								(2.62)	5.0				
10.5	30.87								(3.15)	6.0				
VUM	22 - 55					105	15.2	1.60	12.3	35.97	(3.67)	7.0	23.4	12
		14.0	41.16						(4.20)	5.0				
		15.8	46.26						(4.72)	5.6				
		VUM	24 - 60			110	15.6	1.80	17.5	51.45	(5.25)	6.3	28.6	12
				19.3	56.55				(5.77)	6.9				
				21.0	61.74				(6.30)	5.5				
				VUM	26 - 65	115	19.6	1.80	22.8	66.84	(6.82)	5.9	14.4	7
24.5	72.03								(7.35)	6.4				
28.0	82.32								(8.40)	7.3				
VUM	28 - 70					120	20.4	2.20	31.5	92.61	(9.45)	8.2	28.6	12
		12.3	35.97						(3.67)	5.8				
		14.0	41.16						(4.20)	6.7				
		VUM	30 - 75			125	19.6	1.80	15.8	46.26	(4.72)	7.5	28.6	12
				17.5	51.45				(5.25)	8.3				
				19.3	56.55				(5.77)	9.2				
				VUM	32 - 80	130	20.4	2.20	21.0	61.74	(			

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