

Code	Type	Material		Maximum Allowable Deflection	Spring Constant Tolerance
		GB	Equiv.		
YUF	Outer Diameter Selectable	0Cr18Ni9	SUS304-WPB	L×45%	±10%
YUR				L×(50~60)%	

D Tol.

D	Tol.
10 or Less	0 -0.5
12 or More	0 -0.8

L Tol.

L	Tol.
50 or Less	±1.5
55 or More	±2.5

The solid height values are for reference only.
There may be some variation between lots.

Please use it within the Allowable Deflection range.

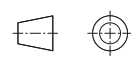
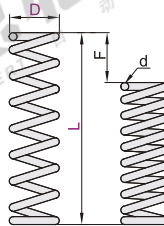
Usage Count: 1 Million Times.

YUF () Both ends of the size are not grounded.

YUR Both ends are not grounded.

Due to the structural upgrade and improvement of this series of products, the product size has changed slightly. During the alternation of new and old models, there may be different models of products at the time of shipment, which will not affect the use.

This series is an outer diameter reference spring, which is produced to ensure the outer diameter tolerance. The outer diameter is a negative tolerance and suitable for use with holes. The inner diameter is only for reference (according to the negative tolerance). Please pay attention to it when selecting.



The first perspective

YUF Fmax.(Maximum Allowable Deflection) = L×45%

Part Number	D	L	d	Solid Height	Fmax	Load N max.	Spring Constant N/mm
2	(5)	(10)	0.2	2.35	2.25	0.66	0.29
		(15)			4.5	1.3	
		(20)			6.7	2.0	
		(25)			9.0	2.7	
		(30)			11.2	3.3	
	(10)	(15)	0.26	7.8	13.5	4.0	0.30
		(20)			2.25	1.1	
		(25)			4.5	2.2	
		(30)			6.7	3.2	
		(40)			9.0	4.4	
3	(15)	(20)	0.32	3.5	11.2	5.5	0.49
		(25)			13.2	7.6	
		(30)			15.7	9.8	
		(40)			18	12.7	
		(50)			22.5	15.7	
	(20)	(25)	0.35	10.8	9	4.4	0.48
		(30)			11.2	5.5	
		(40)			13.5	6.6	
		(50)			15.7	7.6	
		(60)			18	8.8	
4	(5)	(10)	0.4	5.2	2.25	1.1	0.49
		(15)			4.5	2.2	
		(20)			6.7	3.2	
		(25)			9	4.4	
		(30)			11.2	5.5	
	(10)	(15)	0.45	9.5	13.5	6.6	0.49
		(20)			15.7	7.6	
		(25)			18	8.8	
		(30)			20	9.8	
		(40)			22.5	10.8	
5	(15)	(20)	0.55	24.6	2.25	1.1	0.49
		(25)			4.5	2.2	
		(30)			6.7	3.2	
		(40)			9	4.4	
		(50)			11.2	5.5	
	(20)	(25)	0.5	9.5	13.5	6.6	0.49
		(30)			15.7	7.6	
		(40)			18	8.8	
		(50)			20	9.8	
		(60)			22.5	10.8	
6	(5)	(10)	0.65	27.95	2.25	1.1	0.50
		(15)			4.5	2.2	
		(20)			6.7	3.2	
		(25)			9	4.4	
		(30)			11.2	5.5	
	(10)	(15)	0.6	19.5	13.5	6.6	0.48
		(20)			15.7	7.6	
		(25)			18	8.8	
		(30)			20	9.8	
		(40)			22.5	10.8	
7	(15)	(20)	0.7	23.1	2.25	1.1	0.49
		(25)			4.5	2.2	
		(30)			6.7	3.2	
		(40)			9	4.4	
		(50)			11.2	5.5	
	(20)	(25)	0.75	30.8	13.5	6.6	0.48
		(30)			15.7	7.6	
		(40)			18	8.8	
		(50)			20	9.8	
		(60)			22.5	10.8	
8	(5)	(10)	0.85	26.4	2.25	1.1	0.47
		(15)			4.5	2.2	
		(20)			6.7	3.2	
		(25)			9	4.4	
		(30)			11.2	5.5	
	(10)	(15)	0.8	18.4	13.5	6.6	0.48
		(20)			15.7	7.6	
		(25)			18	8.8	
		(30)			20	9.8	
		(40)			22.5	10.8	

YUF Fmax.(Maximum Allowable Deflection) = L×45%

Part Number	D	L	d	Solid Height	Fmax	Load N max.	Spring Constant N/mm
10	(10)	(15)	0.65	4.6	4.5	2.2	0.49
		(20)			6.7	3.2	
		(25)			9	4.4	
		(30)			11.2	5.5	
		(40)			13.5	6.6	
	(15)	(20)	0.8	9.6	15.7	7.6	0.48
		(25)			18	8.8	
		(30)			20	9.8	
		(40)			22.5	10.8	
		(50)			27	12.7	
12	(20)	(25)	0.85	12.8	31.5	14.7	0.47
		(30)			36	17.7	
		(40)			40	19.9	
		(50)			45	22.2	
		(60)			50	24.5	
	(25)	(30)	1.0	17	6.7	3.2	0.48
		(35)			9	4.4	
		(45)			11.2	5.5	
		(55)			13.5	6.6	
		(65)			15.7	7.6	
13	(30)	(40)	0.9	10.8	18	8.8	0.49
		(50)			20	9.8	
		(60)			22.5	10.8	
		(70)			27	12.7	
		(80)			31.5	14.7	
	(35)	(45)	1.1	26.4	36	17.7	0.49
		(55)			40	19.9	
		(65)			45	22.2	
		(75)			50	24.5	
		(85)			55	26.8	
16	(40)	(50)	1.2	39.6	6.7	3.2	0.48
		(60)			9	4.4	
		(70)			11.2	5.5	
		(80)			13.5	6.6	
		(90)			15.7	7.6	
	(45)	(55)	1.2	18	18	8.8	0.49
		(65)			20	9.8	
		(75)			22.5	10.8	
		(85)			27	12.7	
		(95)			31.5	14.7	
20	(50)	(60)	1.3	26	36	17.7	0.49
		(70)			40	19.9	
		(80)			45	22.2	
		(90)			50	24.5	
		(100)			55	26.8	
	(55)	(65)	1.4	35	9	4.4	0.98
		(75)			11.3	5.5	
		(85)			13.5	6.6	
		(95)			15.8	7.6	
		(105)			18	8.8	
25	(60)	(70)	1.4	11.9	20.3	19.9	0.98
		(80)			22.5	22.1	
		(90)			27	26.5	
		(100)			31.5	30.9	
		(110)			36	35.3	
	(65)	(75)	1.5	15.8	18	8.8	0.98
		(85)			20.3	19.9	
		(95)			22.5	22.1	
		(105)			27	26.5	
		(115)			31.5	30.9	

Round Wire Springs

◀ Outer Diameter Selectable, Stainless Steel

YUR Fmax.(Maximum Allowable Deflection)=L×(50~60)%

Part Number			d	Solid Height	Fmax	Load N max.	Spring Constant N/mm
Code	D	L					
2	10	5	0.18	2.0	2.5	0.49	
		10			5.0	0.98	
		15			7.5	1.5	0.20
	20	20	0.23	6.0	10	2.0	
		25			12.5	2.5	
	30	0.26	11.2		15	2.9	0.19
3	10	5	0.23	1.6	3	0.9	
		10	0.26	3.38	6	1.8	0.30
		15	0.3	4.5	9	2.6	
	20	20	0.32	6.4	12	3.5	0.29
		25	0.32	6.4	15	4.4	
	30	0.32	6.4		18	5.3	
4	10	35	0.35	9.8	21	6.2	
		40			24	7.1	0.30
		5	0.26	1.4	3	0.9	
	10	10	0.29	2	6	1.8	
		15	0.35	4.9	9	2.6	
	20	0.38	6.1		12	3.5	0.29
5	10	25	0.38	6.1	15	4.4	
		30			18	5.3	0.29
		35	0.40	8	21	6.2	
	10	40			24	7.1	0.30
		45	0.45	14.4	27	7.9	
	50				30	8.8	0.29
6	10	60	0.5	23	36	10.6	
		5	0.3	1.65	3	0.9	0.30
		10	0.35	2.71	6	1.8	
	10	15	0.38	3.61	9	2.6	
		20			12	3.5	0.29
	25	0.45	7.43		15	4.4	
7	10	30	0.45	7.43	18	5.3	
		35			21	6.2	0.30
		40	0.5	12.25	24	7.1	
	10	45			27	7.9	0.29
		50	0.55	19.53	30	8.8	
	60				36	10.6	0.29
8	10	5	0.32	1.5	3	0.9	
		10	0.4	3	6	1.8	0.30
		15			9	2.6	
	10	20			12	3.5	0.29
		25	0.5	7	15	4.4	
	30				18	5.3	0.29
9	10	35	0.55	11	21	6.2	
		40			24	7.1	0.30
		45	0.6	17.4	27	7.9	
	10	50			30	8.8	0.29
		60	0.65	23.4	36	10.6	
	70				42	12.4	0.30
10	10	80	0.65	23.4	42	12.4	
		10	0.45	2.6	6	1.8	0.23
		15	0.5	3.6	9	2.6	
	10	20			12	3.5	0.29
		25	0.55	5.9	15	4.4	
	30	0.65	10.4		18	5.3	
11	10	35	0.65	10.4	21	6.2	
		40	0.7	15.4	24	7.1	0.30
		45	0.75	21	22	7.9	0.36
	10	50			27	8.8	0.33
		60	0.8	27.6	31	10.6	0.34
	70				40	12.4	0.31
12	10	80	0.8	27.6	48	14.1	
		10	0.55	3.3	6	1.8	0.30
		15	0.6	4.2	9	2.6	
	10	20	0.65	6.2	12	3.5	0.29
		25			15	4.4	
	30				18	5.3	
13	10	35	0.7	8.4	21	6.2	
		40			24	7.1	0.30
		45	0.8	15.2	27	7.9	
	10	50			30	8.8	0.29
		60	0.85	20.4	36	10.6	
	70				42	12.4	0.30
14	10	80	0.85	20.4	48	14.1	
		10					0.29

YUR Fmax.(Maximum Allowable Deflection)=L×(50~60)%

Part Number			d	Solid Height	Fmax	Load N max.	Spring Constant N/mm
Code	D	L					
12	10	15	0.6	3.5	9	2.6	
		20			12	3.5	0.29
		25	0.7	5.6	15	4.4	
	10	30			18	5.3	
		35	0.8	9.6	21	6.2	0.30
	40				24	7.1	
13	10	45			27	7.9	
		50	0.9	16.2	30	8.8	0.29
		60			36	10.6	
	10	70			42	12.4	0.30
		80	1.0	26	48	14.1	0.29
	15	0.7	4.7		9	2.6	
14	10	20			12	3.5	
		25			15	4.4	0.29
		30	0.8	8	18	5.3	
	10	35			21	6.2	0.30
		40	0.9	12.8	24	7.1	
	45				27	7.9	
15	10	50	0.9	12.8	30	8.8	0.29
		60			36	10.6	
		70	1.0	21	42	12.4	0.30
	10	80			48	14.1	
		15	0.75	4.3	9	2.6	
	20	0.8	5.4		12	3.5	0.29
16	10	25			15	4.4	
		30	0.9	7.7	18	5.3	
		35			21	6.2	0.30
	10	40	1.0	12	24	7.1	
		45			27	7.9	
	50				30	8.8	0.29
17	10	60	1.1	19	36	10.6	
		70			42	12.4	0.30
		80	1.2	26.4	48	14.1	0.29
	10	20			12	5.9	
		25	1.0	6	15	7.4	
	30	1.1	7.7		18	8.8	
18	10	35			21	10.3	
		40	1.2	10.8	24	11.8	0.49
		45	1.3	14.3	27	13.2	
	10	50			30	14.7	
		60	1.4	19.6	36	17.7	
	70				42	20.6	
19	10	80	1.5	27	48	23.5	

① Allowable deflection Fmax: It indicates the maximum length of the allowable deflection of the spring. If the Allowable Deflection is exceeded, the spring will shorten.

② Max. load (Nmax) : allowable load of deflection Fmax, unit : N.

③ Spring Constant N/mm=(Nmax)/(Fmax).



Please order as shown

Part Number			d
Code	D	L	
YUF	3	10	0.26
		15	0.32

YUF—D3—L5



Discount price		
Per	1~3	4~
Price	100%	Additional quotation



Delivery	
	2