

RF type

Product number	Standard dimensions mm										Permissible load N (kgf)	Spring constant N/mm (kgf/cm)
	A	B	L	D	F	D ₁	d ₁	H	d ₂	t ₁		
RF-22S	22	32	70	11	2	22	10	24	10	1	230 { 23}	59 { 60}
RF-22D			97									29 { 30}
RF-30S	30	44	65	11	2.3	30	12	20	14	1.6	430 { 44}	140 { 140}
RF-30D			90									69 { 70}
RF-40S	40	55	75	15	2.3	40	14	24	14	2	860 { 88}	240 { 240}
RF-40D			108									120 { 120}
RF-50S	50	66	80	15	3.2	50	14	22	16	3.2	1100 { 110}	510 { 520}
RF-50D			107									250 { 260}
RF-60S	60	76	85	15	3.2	60	14	27	16	3.2	2600 { 270}	650 { 660}
RF-60D			117									320 { 330}
RF-80S	80	100	120	18	3.2	80	16	39	18	4.5	4800 { 490}	810 { 830}
RF-80D			165									407 { 415}
RF-100S	100	130	140	20	4.5	100	20	43	22	4.5	7700 { 790}	1180 { 1200}
RF-100D			170									590 { 600}
RF-100HS	100	130	140	20	4.5	100	20	45	22	4.5	11500 { 1170}	1670 { 1700}
RF-100HD			190									830 { 850}
RF-120S	120	150	160	22	6	120	22	48	22	6	25000 { 2550}	3500 { 3570}
RF-120D			220									1750 { 1780}

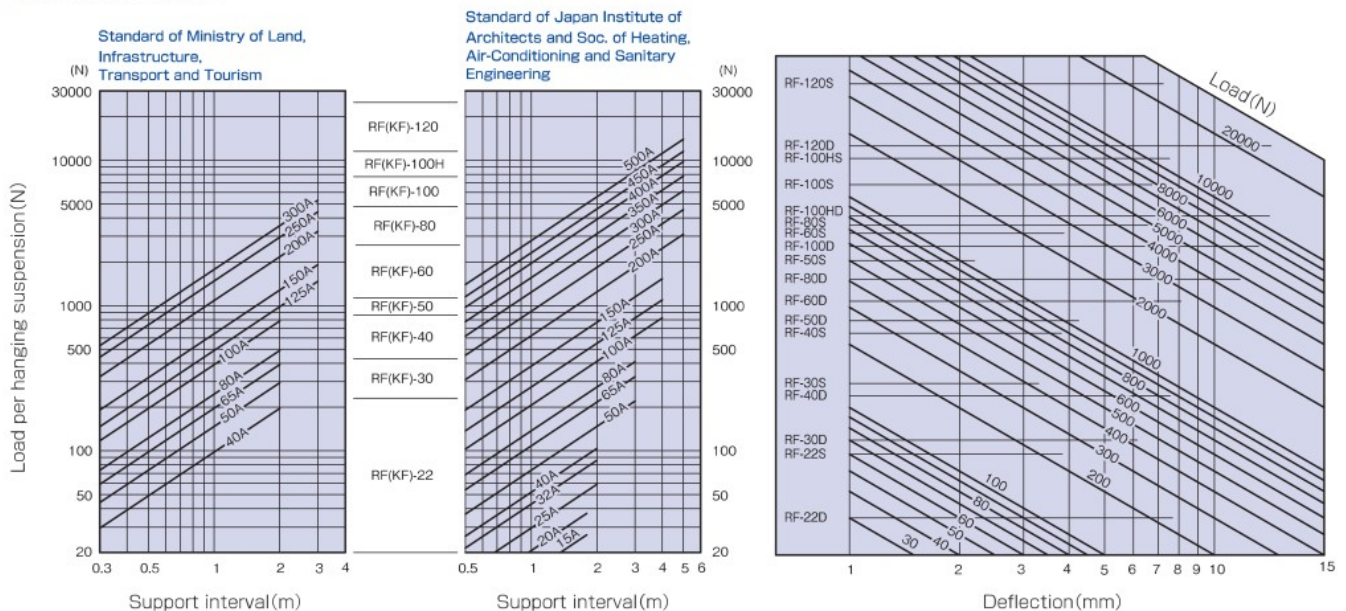
We accept special orders for outdoor heavy-duty anti-corrosion.(Example of product number: RF-22S-ZC) (Hot dip galvanized type is not RoHS-satisfied.)
 RF-100HS, RF-100HD, RF-120S and RF-120D are not integrated models.
 The elastomer is natural rubber and hardness spring 60. (The elastomer of RF-100HS, RF-100HD, RF-120S and RF-120D is hardness spring 70.)

KF type

Product number	Standard dimensions mm								Permissible load N (kgf)	Spring constant N/mm (kgf/cm)
	D ₁	d ₁	H	D ₂	d ₂	t ₁	a	t ₂		
KF-22	22	9	25	14	10	1	3	1	230 { 23}	59 { 60}
KF-30	30	12	21	18	14	1.6	3	1	430 { 44}	140 { 140}
KF-40	40	14	25	18	14	2	4	1	860 { 88}	240 { 240}
KF-50	50	14	23	20	16	3.2	3	1	1100 { 110}	510 { 520}
KF-60	60	14	28	20	16	3.2	3	1	2600 { 270}	650 { 660}
KF-80	80	16	40	24	18	4.5	3	1	4800 { 490}	810 { 830}
KF-100	100	20	45	28	22	4.5	4	1.6	7700 { 790}	1180 { 1200}
KF-100(70)	100	20	45	28	22	4.5	4	1.6	11500 { 1170}	1670 { 1700}
KF-120	120	22	48	38	22	6	4	1.6	25000 { 2550}	3500 { 3570}

The elastomer is natural rubber and hardness spring 60. (The elastomer of KF-100 (70) and KF-120 is hardness spring 70.)

Selection chart



NOTE: The above mentioned pipe mass A is the mass per 1 meter steel pipe kept warm and high water level.
 The above mentioned pipe mass B and C are the total value of pipe and water. Please add the mass of heat insulating material etc. if they add.