

# DY SERIES Violet (JIS B5012)

Model	Outer Dia. (mm)	Inner Dia. (mm)	Free Length (mm)	Spring Const. (kgf/mm)	Free Length X 40%		Free Length X 45%		Free Length X 50%	
					Defection (mm)	Load kgf {N}	Defection (mm)	Load kgf {N}	Defection (mm)	Load kgf {N}
DF 14.5 x 20	14.5	9.0	20	1.88	8.0	15.0 {147.1}	9.0	17.0 {166.7}	10.0	19.0 {186.3}
25			25	1.50	10.0		11.3		12.5	
30			30	1.25	12.0		13.5		15.0	
35			35	1.07	14.0		15.8		17.5	
40			40	0.94	16.0		18.0		20.0	
45			45	0.83	18.0		20.3		22.5	
50			50	0.75	20.0		22.5		25.0	
55			55	0.68	22.0		24.8		27.5	
60			60	0.63	24.0		27.0		30.0	
65			65	0.58	26.0		29.3		32.5	
70			70	0.54	28.0		31.5		35.0	
75			75	0.50	30.0		33.8		37.5	
80			80	0.47	32.0		36.0		40.0	
90			90	0.42	36.0		40.5		45.0	
100			100	0.38	40.0		45.0		50.0	
125			125	0.30	50.0		56.3		62.5	
DR 17 x 25	17.0	11.0	25	2.20	10.0	22.0 {215.7}	11.3	25.0 {245.2}	12.5	28.0 {274.6}
30			30	1.83	12.0		13.5		15.0	
35			35	1.57	14.0		15.8		17.5	
40			40	1.38	16.0		18.0		20.0	
45			45	1.22	18.0		20.3		22.5	
50			50	1.10	20.0		22.5		25.0	
55			55	1.00	22.0		24.8		27.5	
60			60	0.92	24.0		27.0		30.0	
65			65	0.85	26.0		29.3		32.5	
70			70	0.79	28.0		31.5		35.0	
75			75	0.73	30.0		33.8		37.5	
80			80	0.69	32.0		36.0		40.0	
90			90	0.61	36.0		40.5		45.0	
100			100	0.55	40.0		45.0		50.0	
125			125	0.44	50.0		56.3		62.5	
150			150	0.37	60.0		67.5		75.0	
DR 21 x 30	21.0	13.0	30	2.42	12.0	29.0 {284.4}	13.5	32.0 {313.8}	15.0	36.0 {353.0}
35			35	2.07	14.0		15.8		17.5	
40			40	1.81	16.0		18.0		20.0	
45			45	1.61	18.0		20.3		22.5	
50			50	1.45	20.0		22.5		25.0	
55			55	1.32	22.0		24.8		27.5	
60			60	1.21	24.0		27.0		30.0	
65			65	1.12	26.0		29.3		32.5	
70			70	1.04	28.0		31.5		35.0	
75			75	0.97	30.0		33.8		37.5	
80			80	0.91	32.0		36.0		40.0	
90			90	0.81	36.0		40.5		45.0	
100			100	0.73	40.0		45.0		50.0	
125			125	0.58	50.0		56.3		62.5	
150			150	0.48	60.0		67.5		75.0	

\*\* 1 kg = 9.81N \*\*

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Model	Outer Dia. (mm)	Inner Dia. (mm)	Free Length (mm)	Spring Const. (kgf/mm)	Free Length X 40%		Free Length X 45%		Free Length X 50%						
					Defection	Load	Defection	Load	Defection	Load					
					(mm)	kgf {N}	(mm)	kgf {N}	(mm)	kgf {N}					
TR 26 x 30	26.0	16.5	30	3.50	12.0	42.0 {411.9}	13.5	48.0 {470.7}	15.0	53.0 {519.8}					
35			35	3.00	14.0		15.8								
40			40	2.63	16.0		18.0								
45			45	2.33	18.0		20.3								
50			50	2.10	20.0		22.5								
55			55	1.91	22.0		24.8								
60			60	1.75	24.0		27.0								
65			65	1.62	26.0		29.3								
70			70	1.50	28.0		31.5								
75			75	1.40	30.0		33.8								
80			80	1.31	32.0		36.0								
90			90	1.17	36.0		40.5								
100			100	1.05	40.0		45.0								
110			110	0.95	44.0		49.5								
125			125	0.84	50.0		56.3								
150			150	0.70	60.0		67.5								
175			175	0.60	70.0		78.8								
200	200	0.53	80.0	90.0											
DR 32 x 40	32.0	21.0	40	3.56	16.0	57.0 {559.0}	18.0	64.0 {627.6}	20.0	71.0 {696.3}					
45			45	3.17	18.0		20.3								
50			50	2.85	20.0		22.5								
60			60	2.38	24.0		27.0								
70			70	2.04	28.0		31.5								
80			80	1.78	32.0		36.0								
90			90	1.58	36.0		40.5								
100			100	1.43	40.0		45.0								
110			110	1.30	44.0		49.5								
125			125	1.14	50.0		56.3								
150			150	0.95	60.0		67.5								
175			175	0.81	70.0		78.8								
200			200	0.71	80.0		90.0								
250			250	0.57	100.0		112.5								
300			300	0.48	120.0		135.0								
DR 39 x 40			39.0	26.0	40		4.63		16.0		74.0 {725.7}	18.0	84.0 {823.8}	20.0	93.0 {912.0}
45					45		4.11		18.0			20.3			
50	50	3.70			20.0	22.5									
60	60	3.08			24.0	27.0									
70	70	2.64			28.0	31.5									
80	80	2.31			32.0	36.0									
90	90	2.06			36.0	40.5									
100	100	1.85			40.0	45.0									
110	110	1.68			44.0	49.5									
125	125	1.48			50.0	56.3									
150	150	1.23			60.0	67.5									
175	175	1.06			70.0	78.8									
200	200	0.93			80.0	90.0									
250	250	0.74			100.0	112.5									
300	300	0.62			120.0	135.0									
DR 46 x 50	46.0	32.0			50	4.95	20.0	99.0 {970.9}	22.5	112.0 {1098.3}		25.0		124.0 {1216.0}	
60					60	4.13	24.0		27.0						
70			70	3.54	28.0	31.5									
80			80	3.09	32.0	36.0									
90			90	2.75	36.0	40.5									
100			100	2.48	40.0	45.0									
110			110	2.25	44.0	49.5									
125			125	1.98	50.0	56.3									
150			150	1.65	60.0	67.5									
175			175	1.41	70.0	78.8									
200			200	1.24	80.0	90.0									
250			250	0.99	100.0	112.5									
300			300	0.83	120.0	135.0									

\*\* 1 kg = 9.81N \*\*