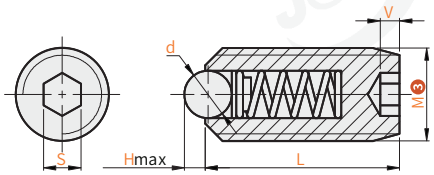
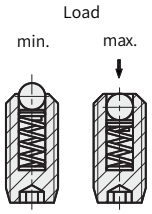
Order guide
F WM Z - S6 - H3 - M3
Major category / Series / Category / 1 Ball head material / 2 Load / 3 Thread size
Please refer to the series code to select the type and parameters for ordering.

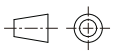
Order guide
F WN A - H3 - M3 - L20
Major category / Series / Category / 2 Load / 3 Thread size / 4 Length
Please refer to the series code to select the type and parameters for ordering.

Stainless steel type

Code	Type	Load②	Main body Material	Ball head Material①	Ball head Hardness	Spring Material	Operating temperature
FWMZ-S6-H3	Stainless steel	Ultra light load	SUS304	SUS440C	56HRC~	SUS631J1	-30~260℃
FWMZ-S6-H		Light load					
FWMZ-S6-H4		Heavy load					
FWMZ-S6-H5		Overloaded					
FWMZ-P12-H3		Ultra light load		Polyacetal	—		-30~80℃
FWMZ-P12-H		Light load					
FWMZ-P12-H4		Heavy load					
FWMZ-P12-H5		Overloaded					







Perspective standard: first perspective

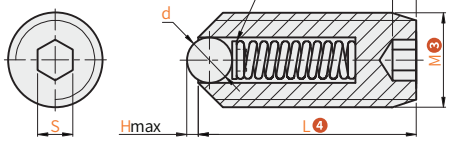
Model Code	M③	Metal ball head d	Metal ball head H	Resin ball head d	Resin ball head H	L	V	S	Load(N) Ultra light load min.	Ultra light load max.	Light load (FWMZ-S6-H) min.	Light load (FWMZ-S6-H) max.	Light load (FWMZ-P12-H) min.	Light load (FWMZ-P12-H) max.	Overload min.	Overload max.	Overloaded min.	Overloaded max.
Metal ball head: FWMZ-S6-H3, FWMZ-S6-H, FWMZ-S6-H4, FWMZ-S6-H5 / Resin ball head: FWMZ-P12-H3, FWMZ-P12-H, FWMZ-P12-H4, FWMZ-P12-H5	3	1.5	0.5	—	—	7	1	1.5	0.3	0.54	1	19	—	—	1.5	2.8	2.2	4.9
	4	2		2.4		9	1.5	2	0.5	1.6	1.8	4.9	19	4.9	3.8	9.8	2.5	124
	5	2.5	0.8	3.2	0.8	12	2	2.5	0.9	3.12	3.2	9.8	2.8	9.8	4.8	196	11.0	24.0
	6	3				13	2.5	3	1.5	4.85	5	15.3	4.8	14.7	9.7	29.4	2170	33.3
	8	5	1	4	1	15		4	2.3	6.36	5.4	191	6.8	196	12.6	39.2	214	45.2
	10	6	1.2	4.8	2	16		5	2.9	8.1	8.8	24.1	8.7	24.5	18.5	49.0	23.5	60.6
	12	8	1.8	7.1	1.8	20	3	6	3.4	9.68	10.4	29.3	9.7	29.4	195	58.8	24.1	63.6
	16	10	2.5	9.5	2.5	25		8	5.6	15.8	14.8	48.9	15.6	49.0	29.3	98.0	43.6	116.2

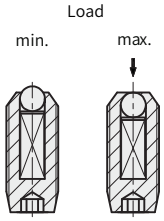
Resin ball head without M3 specification. No anti-loosening treatment.

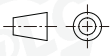
kgf=Nx0.101972

L size selection stainless steel extended type

Code	Type	Load②	Main body Material	Ball head Material	Ball head Hardness	Spring Mate	Adjustment ring Material	Operating temperature
FWNA-H3	L size selection stainless steel extended type	Ultra light load	SUS304	SUS440C	55HRC~	SUS631J1	SUS304	-30~140℃
FWNA-H		Light load						
FWNA-H4		Heavy load						
FWNA-H5		Overloaded						







Perspective standard: first perspective

Model Code	M③	L④	d	H	V	S	Load(N) Ultra light load FWNA-H3 min.	Ultra light load FWNA-H3 max.	Light load FWNA-H min.	Light load FWNA-H max.	Heavy duty FWNA-H4 min.	Heavy duty FWNA-H4 max.	Super heavy duty FWNA-H5 min.	Super heavy duty FWNA-H5 max.
FWNA-H3	3	20 30	1.5	0.5	1	1.5	0.4	0.65	1.1	2.0	1.6	2.9	2.3	5.0
FWNA-H	4	20 30	2.4	0.7	1.5	2	0.7	1.62	2	4.9	4	9.8	2.6	12.5
FWNA-H4	5	30 40	3	0.8	2	2.5	1.2	3.21	3.4	9.8	5	196	11.3	24.1
FWNA-H5	6	30 40	3.5	1.2	2.5	3	1.8	4.96	5.2	15.3	9.9	29.4	178	33.4
	8	40 50	5	2	2.5	4	2.6	6.56	5.6	191	12.8	39.2	21.5	45.3
	10	40 50	6	2.5	3	5	3.3	8.0	9	24.1	18.7	49.0	23.6	60.0
	12	50 60	8	3	3	6	3.6	9.8	10.6	29.3	197	58.8	24.2	63.7
	16	50 60	10	4	3	8	6.2	15.6	15	48.9	29.5	98.0	43.7	116.3

M3, M4 front part without wrench slot, only hexagonal hole installation.

kgf=Nx0.101972

The load min. indicates the initial load, and max. indicates the load at the maximum press-in limit of the ball head.