

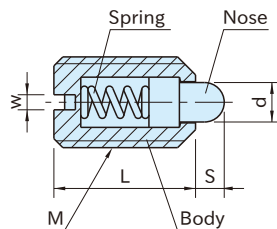
# ZSP,SPL,SPLH SHORT SPRING PLUNGERS



**ZSP**  
Light Force



**SPLH**  
Extra-Heavy Force



Body	Spring	Nose
Steel (SUM22L) Black oxide finish	Steel (SWPA)	Steel(SUM22L) Black oxide finish (ZSP20:Chrome plate) HRC56~60

サイズ		M	d	L	S	w	Weight (g)
<b>ZSP</b> <b>SPL</b> <b>SPLH</b>	<b>4</b>	M 4×0.7	1.8	9	1.5	0.6	0.4
	<b>5</b>	M 5×0.8	2.4	12	2	0.8	1
	<b>6</b>	M 6×1	2.7	14		1	1.7
	<b>8</b>	M 8×1.25	4	16	1.2	4	
	<b>10</b>	M10×1.5	4.5	19	2.5	1.6	7
	<b>12</b>	M12×1.75	6	22	3.5	2	13
	<b>16</b>	M16×2	8.5	24	4.5	2.5	24
	<b>20</b>	M20×2.5	10	30	6.5		46

Light Force		Heavy Force		Extra-Heavy Force	
Part Number	Force (N) Initial - Final	Part Number	Force (N) Initial - Final	Part Number	Force (N) Initial - Final
<b>ZSP 4</b>	3~10	<b>SPL 4</b>	6~ 20	-	-
<b>ZSP 5</b>		<b>SPL 5</b>		<b>SPLH 5</b>	9~ 25
<b>ZSP 6</b>	4~10	<b>SPL 6</b>	7~ 20	<b>SPLH 6</b>	11~ 25
<b>ZSP 8</b>	7~15	<b>SPL 8</b>	15~ 30	<b>SPLH 8</b>	22~ 43
<b>ZSP10</b>	9~16	<b>SPL10</b>	20~ 35	<b>SPLH10</b>	20~ 54
<b>ZSP12</b>	14~26	<b>SPL12</b>	30~ 55	<b>SPLH12</b>	36~ 94
<b>ZSP16</b>	22~50	<b>SPL16</b>	45~100	<b>SPLH16</b>	60~110
<b>ZSP20</b>	30~60	<b>SPL20</b>	60~120	-	-

## Features:

- Identification lines are marked at the back end : one for **ZSP** type and two for **SPLH** type.
- Compact design with short stroke, for use in the limited space.

## Technical Information

Heat resistance : 100°C

## Note

Once the current version of **ZSP20** plungers with a zinc-plated nose runs out of stock, they will be provided with a black-oxide-finished nose.