

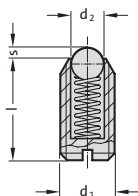


**SPRING PLUNGER**

# Spring plunger, with spring loaded ball, with slot, standard spring force



2471.01.



## Material:

Sleeve: Free machining steel, burnished

Ball: Hardened ball bearing steel

Spring: Nirosta

## Note:

For locking and for pressing upwards or downwards.

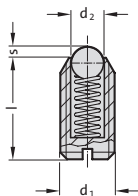
Temperature operating range: max. 250°C

2471.01. Spring plunger, with spring loaded ball, with slot, standard spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.01.003	M3	7	0.4	1.5	3	4.5
2471.01.004	M4	9	0.8	2.5	8.5	14
2471.01.005	M5	12	0.9	3	8	14
2471.01.006	M6	14	1	3.5	11	18
2471.01.008	M8	16	1.5	4.5	18	31
2471.01.010	M10	19	2	6	24	45
2471.01.012	M12	22	2.5	8	26	49
2471.01.016	M16	24	3.5	10	41	86
2471.01.020	M20	30	4.5	12	56	111
2471.01.024	M24	34	5.5	15	81	151



2471.31.



## Material:

Sleeve: Nirosta 1.4305

Ball: Nirosta, hardened

Spring: Nirosta

## Note:

For locking and for pressing upwards or downwards.

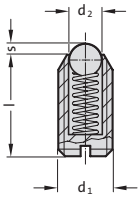
Admissible temperature range: max. 250°C

2471.31. Spring plunger, with spring loaded ball, with slot, standard spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.31.003	M3	7	0.4	1.5	3	4.5
2471.31.004	M4	9	0.8	2.5	8.5	14
2471.31.005	M5	12	0.9	3	8	14
2471.31.006	M6	14	1	3.5	11	18
2471.31.008	M8	16	1.5	4.5	18	31
2471.31.010	M10	19	2	6	24	45
2471.31.012	M12	22	2.5	8	26	49
2471.31.016	M16	24	3.5	10	41	86
2471.31.020	M20	30	4.5	12	56	111
2471.31.024	M24	34	5.5	15	81	151

# Spring plunger, with spring loaded ball, with slot, increased spring force

2471.02.



## 2471.02. Spring plunger, with spring loaded ball, with slot, increased spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.02.005	M5	12	0.9	3	15	22
2471.02.006	M6	14	1	3.5	19	28
2471.02.008	M8	16	1.5	4.5	36	62
2471.02.010	M10	19	2	6	57	104
2471.02.012	M12	22	2.5	8	61	110
2471.02.016	M16	24	3.5	10	68	142
2471.02.020	M20	30	4.5	12	84	166
2471.02.024	M24	34	5.5	15	127	237

### Material:

Sleeve: Free machining steel, burnished

Ball: Hardened ball bearing steel

Spring: Nirosta

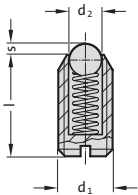
### Note:

For locking and for pressing upwards or downwards.

Admissible temperature range: max. 250°C

Identification of increased spring force by two longitudinal marks on the sleeve.

2471.32.



## 2471.32. Spring plunger, with spring loaded ball, with slot, increased spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.32.005	M5	12	0.9	3	15	22
2471.32.006	M6	14	1	3.5	19	28
2471.32.008	M8	16	1.5	4.5	36	62
2471.32.010	M10	19	2	6	57	104
2471.32.012	M12	22	2.5	8	61	110
2471.32.016	M16	24	3.5	10	68	142
2471.32.020	M20	30	4.5	12	84	166
2471.32.024	M24	34	5.5	15	127	237

### Material:

Sleeve: Nirosta 1.4305

Ball: Nirosta, hardened

Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards.

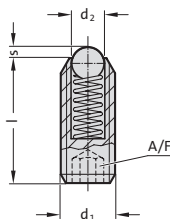
Admissible temperature range: max. 250°C.

Identification of increased spring force by two longitudinal marks on the sleeve.

# Spring plunger, with spring loaded ball, with hexagon socket, standard spring force



2471.03.



### Material:

Sleeve: Free machining steel, burnished  
 Ball: Hardened ball bearing steel  
 Spring: Nirosta

### Note:

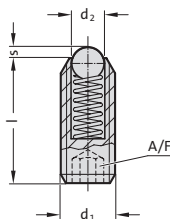
For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C

2471.03. Spring plunger, with spring loaded ball, with hexagon socket, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	A/F	l	s	Spring force [N]	
						initial	final
2471.03.003	M3	1.5	1.5	8	0.4	3	4.5
2471.03.004	M4	2.5	2	12	0.8	8.5	14
2471.03.005	M5	3	2.5	14	0.9	8	14
2471.03.006	M6	3.5	3	15	1	11	18
2471.03.008	M8	4.5	4	18	1.5	18	31
2471.03.010	M10	6	5	23	2	24	45
2471.03.012	M12	8	6	26	2.5	26	49
2471.03.016	M16	10	8	33	3.5	41	86
2471.03.020	M20	12	10	43	4.5	56	111
2471.03.024	M24	15	12	48	5.5	81	151



2471.33.



### Material:

Sleeve: Nirosta 1.4305  
 Ball: Nirosta, hardened  
 Spring: Nirosta

### Note:

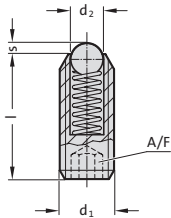
For locking and for pressing upwards or downwards.  
 Admissible temperature range: max. 250°C

2471.33. Spring plunger, with spring loaded ball, with hexagon socket, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	A/F	l	s	Spring force [N]	
						initial	final
2471.33.003	M3	1.5	1.5	8	0.4	3	4.5
2471.33.004	M4	2.5	2	12	0.8	8.5	14
2471.33.005	M5	3	2.5	14	0.9	8	14
2471.33.006	M6	3.5	3	15	1	11	18
2471.33.008	M8	4.5	4	18	1.5	18	31
2471.33.010	M10	6	5	23	2	24	45
2471.33.012	M12	8	6	26	2.5	26	49
2471.33.016	M16	10	8	33	3.5	41	86
2471.33.020	M20	12	10	43	4.5	56	111
2471.33.024	M24	15	12	48	5.5	81	151

# Spring plunger, with spring loaded ball, with hexagon socket, increased spring force

2471.04.



## 2471.04. Spring plunger, with spring loaded ball, with hexagon socket, increased spring force

### Material:

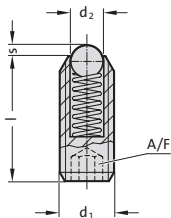
Sleeve: Free machining steel, burnished  
 Ball: Hardened ball bearing steel  
 Spring: Nirosa

### Note:

For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

Order No	d <sub>1</sub>	d <sub>2</sub>	A/F	l	s	Spring force [N]	
						initial	final
2471.04.005	M5	3	2.5	14	0.9	15	22
2471.04.006	M6	3.5	3	15	1	19	28
2471.04.008	M8	4.5	4	18	1.5	36	62
2471.04.010	M10	6	5	23	2	57	104
2471.04.012	M12	8	6	26	2.5	61	110
2471.04.016	M16	10	8	33	3.5	68	142
2471.04.020	M20	12	10	43	4.5	84	166
2471.04.024	M24	15	12	48	5.5	127	237

2471.34.



## 2471.34. Spring plunger, with spring loaded ball, with hexagon socket, increased spring force

### Material:

Sleeve: Nirosa 1.4305  
 Ball: Nirosa, hardened  
 Spring: Nirosa

### Note:

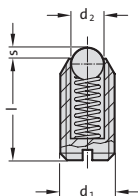
For locking and for pressing upwards or downwards.  
 Admissible temperature range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

Order No	d <sub>1</sub>	d <sub>2</sub>	A/F	l	s	Spring force [N]	
						initial	final
2471.34.005	M5	3	2.5	14	0.9	15	22
2471.34.006	M6	3.5	3	15	1	19	28
2471.34.008	M8	4.5	4	18	1.5	36	62
2471.34.010	M10	6	5	23	2	57	104
2471.34.012	M12	8	6	26	2.5	61	110
2471.34.016	M16	10	8	33	3.5	68	142
2471.34.020	M20	12	10	43	4.5	84	166
2471.34.024	M24	15	12	48	5.5	127	237

## Spring plunger, with spring loaded ball, with slot, standard spring force



2471.05.



### Material:

Sleeve: Delrin blue (POM)

Ball: Delrin white (POM)

Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards.

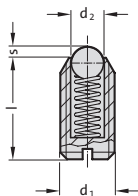
Temperature operating range: -30°C up to 50°C

2471.05. Spring plunger, with spring loaded ball, with slot, standard spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.05.006	M6	14	0.9	3,5	12	17
2471.05.008	M8	16	1.5	5	20	35
2471.05.010	M10	19	1.9	6	25	45



2471.35.



### Material:

Sleeve: Delrin blue (POM)

Ball: Nirosta, hardened

Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards.

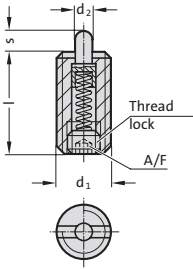
Admissible temperature range: -30°C to +50°C

2471.35. Spring plunger, with spring loaded ball, with slot, standard spring force

Order No	d <sub>1</sub>	l	s	d <sub>2</sub>	Spring force [N]	
					initial	final
2471.35.006	M6	14	0.9	3,5	12	17
2471.35.008	M8	16	1.5	5	20	35
2471.35.010	M10	19	1.9	6	25	45

# Spring plunger, with spring loaded pin, with slot, standard spring force

2472.01.



2472.01. Spring plunger, with spring loaded pin, with slot, standard spring force

**Material:**

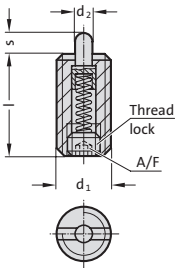
Sleeve: Free machining steel, burnished  
Pin: Free machining steel hardened, burnished  
Spring: Nirosta

**Note:**

For locking and for pressing upwards or downwards. Removable with hexagon socket screw key or slotted screwdriver.

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.01.003	M3	1.5	12	1	0.7	2	4
2472.01.004	M4	1.5	15	1.5	1.3	4.5	16
2472.01.005	M5	2.4	18	2.3	1.5	6	19
2472.01.006	M6	2.7	20	2.5	2	6	19
2472.01.008	M8	3.5	22	3	2.5	10	39
2472.01.010	M10	4	22	3	3	10	39
2472.01.012	M12	6	28	4	4	12	53
2472.01.016	M16	7.5	32	5	5	45	100
2472.01.020	M20	10	40	7	6	52	125
2472.01.024	M24	12	52	10	8	70	170

2472.31.



2472.31. Spring plunger, with spring loaded pin, with slot, standard spring force

**Material:**

Sleeve: Nirosta 1.4305  
Pin: Nirosta 1.4305  
Spring: Nirosta

**Note:**

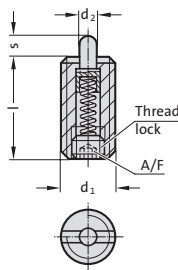
For locking and for pressing upwards or downwards. Removable with hexagon socket screw key or slotted screwdriver.

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.31.004	M4	1.5	15	1.5	1.3	4.5	16
2472.31.005	M5	2.4	18	2.3	1.5	6	19
2472.31.006	M6	2.7	20	2.5	2	6	19
2472.31.008	M8	3.5	22	3	2.5	10	39
2472.31.010	M10	4	22	3	3	10	39
2472.31.012	M12	6	28	4	4	12	53
2472.31.016	M16	7.5	32	5	5	45	100
2472.31.020	M20	10	40	7	6	52	125

## Spring plunger, with spring loaded pin, with slot, standard spring force



2472.21.



### Material:

Sleeve: Free machining steel, burnished

Pin: Delrin white (POM)

Spring: Nirosta

### Note:

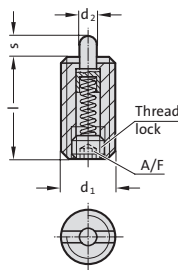
For locking and for pressing upwards or downwards. Removable with hexagon socket screw key or slotted screwdriver.

2472.21. Spring plunger, with spring loaded pin, with slot, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.21.004	M4	1.5	15	1.5	1.3	4.5	16
2472.21.005	M5	2.4	18	2.3	1.5	6	19
2472.21.006	M6	2.7	20	2.5	2	6	19
2472.21.008	M8	3.5	22	3	2.5	10	39
2472.21.010	M10	4	22	3	3	10	39
2472.21.012	M12	6	28	4	4	12	53
2472.21.016	M16	7.5	32	5	5	45	100



2472.22.



### Material:

Sleeve: Nirosta 1.4305

Pin: Delrin white (POM)

Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards. Removable with hexagon socket screw key or slotted screwdriver.

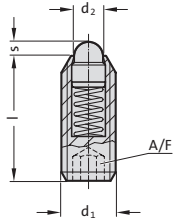
2472.22. Spring plunger, with spring loaded pin, with slot, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.22.004	M4	1.5	15	1.5	1.3	4.5	16
2472.22.005	M5	2.4	18	2.3	1.5	6	19
2472.22.006	M6	2.7	20	2.5	2	6	19
2472.22.008	M8	3.5	22	3	2.5	10	39
2472.22.010	M10	4	22	3	3	10	39
2472.22.012	M12	6	28	4	4	12	53
2472.22.016	M16	7.5	32	5	5	45	100



# Spring plunger, with spring loaded pin, with hexagon socket, standard spring force

2472.03.



2472.03. Spring plunger, with spring loaded pin, with hexagon socket, standard spring force

**Material:**

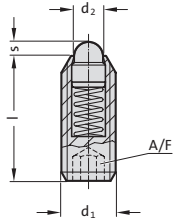
Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

**Note:**

For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.03.004	M4	1.8	12	1.5	2	4,5	12,5
2472.03.005	M5	2.4	14	2	2,5	5	13
2472.03.006	M6	2.7	15	2	3	6	17
2472.03.008	M8	3.8	18	2	4	16	33
2472.03.010	M10	4.5	23	2,5	5	19	42
2472.03.012	M12	6	26	3,5	6	22	57
2472.03.016	M16	8.5	33	4,5	8	38	78
2472.03.020	M20	10	43	6,5	10	39	81
2472.03.024	M24	13	48	8	12	72	155

2472.33.



2472.33. Spring plunger, with spring loaded pin, with hexagon socket, standard spring force

**Material:**

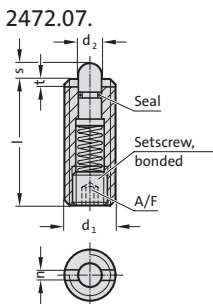
Sleeve: Nirosta 1.4305  
 Pin: Nirosta 1.4305  
 Spring: Nirosta

**Hinweis:**

For locking and for pressing upwards or downwards.  
 Admissible temperature range: max. 250°C

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.33.004	M4	1.8	12	1.5	2	4,5	12,5
2472.33.005	M5	2.4	14	2	2,5	5	13
2472.33.006	M6	2.7	15	2	3	6	17
2472.33.008	M8	3.8	18	2	4	16	33
2472.33.010	M10	4.5	23	2,5	5	19	42
2472.33.012	M12	6	26	3,5	6	22	57
2472.33.016	M16	8.5	33	4,5	8	38	78
2472.33.020	M20	10	43	6,5	10	39	81
2472.33.024	M24	13	48	8	12	72	155

# Spring plunger, with spring loaded pin and seal, with hexagon socket, standard spring force



### Material:

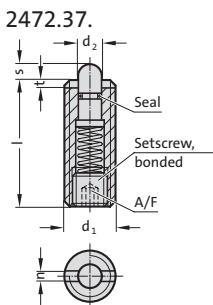
Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards. The seal prevents the ingress of liquids into the forcing pin. Assembly and dismantling using hexagon socket key and slotted screwdriver.  
 Temperature operating range: -30°C up to 80°C

## 2472.07. Spring plunger, with spring loaded pin and seal, with hexagon socket, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	n	s	t	A/F	Spring force [N]	
								initial	final
2472.07.008	M8	3.8	26	1.5	3	1.4	2.5	9	24
2472.07.010	M10	4	28	1.5	3.5	1.4	3	15	30
2472.07.012	M12	6	35	2.7	4	2	4	24	50
2472.07.016	M16	7.5	40	3.2	5	2.5	5	36	58



### Material:

Sleeve: Nirosta 1.4305  
 Pin: Nirosta 1.4305  
 Spring: Nirosta

### Note:

For locking and for pressing upwards or downwards. The seal prevents the ingress of liquids into the forcing pin. Assembly and dismantling using hexagon socket key and slotted screwdriver.  
 Temperature operating range: -30°C up to 80°C

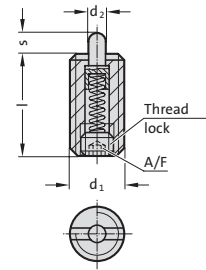
## 2472.37. Spring plunger, with spring loaded pin and seal, with hexagon socket, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	n	s	t	A/F	Spring force [N]	
								initial	final
2472.37.008	M8	3.8	26	1.5	3	1.4	2.5	9	24
2472.37.010	M10	4	28	1.5	3.5	1.4	3	15	30
2472.37.012	M12	6	35	2.7	4	2	4	24	50
2472.37.016	M16	7.5	40	3.2	5	2.5	5	36	58

# Spring plunger, with spring loaded pin, with slot, increased spring force

## Spring plunger, with spring loaded pin and seal, with hexagon socket, increased spring force

### 2472.02.



### 2472.02. Spring plunger, with spring loaded pin, with slot, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	A/F	l	s	Spring force [N]	
						initial	final
2472.02.005	M5	2,4	1,5	18	2,3	11	40
2472.02.006	M6	2,7	2	20	2,5	15	43
2472.02.008	M8	3,5	2,5	22	3	20	75
2472.02.010	M10	4	3	22	3	20	75
2472.02.012	M12	6	4	28	4	45	120
2472.02.016	M16	7,5	5	32	5	64	160
2472.02.020	M20	10	6	40	7	75	195
2472.02.024	M24	12	8	52	10	75	245

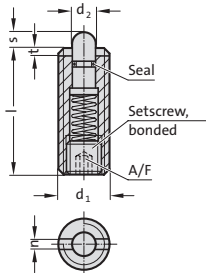
#### Material:

Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

#### Note:

For locking and for pressing upwards or downwards. Removable with hexagon socket screw key or slotted screwdriver.  
 Identification of increased spring force by two longitudinal marks on the sleeve.

### 2472.08.



### 2472.08. Spring plunger, with spring loaded pin and seal, with hexagon socket, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	n	s	t	A/F	Spring force [N]	
								initial	final
2472.08.008	M8	3,8	26	1,5	3	1,4	2,5	17	39
2472.08.010	M10	4	28	1,5	3,5	1,4	3	22	43
2472.08.012	M12	6	35	2,7	4	2	4	40	80
2472.08.016	M16	7,5	40	3,2	5	2,5	5	44	113

#### Material:

Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

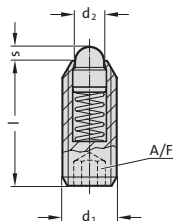
#### Note:

For locking and for pressing upwards or downwards. The seal prevents the ingress of liquids into the forcing pin. Assembly and dismantling using hexagon socket key and slotted screwdriver.  
 Temperature operating range: -30°C up to 80°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

# Spring plunger, with spring loaded pin, with hexagon socket, increased spring force



2472.04.



## Material:

Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

## Note:

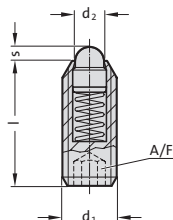
For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

2472.04. Spring plunger, with spring loaded pin, with hexagon socket, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.04.006	M6	2.7	15	2	3	11	25
2472.04.008	M8	3.8	18	2	4	23	59
2472.04.010	M10	4.5	23	2.5	5	20	54
2472.04.012	M12	6	26	3.5	6	38	96
2472.04.016	M16	8.5	33	4.5	8	50	100
2472.04.020	M20	10	43	6.5	10	52	133
2472.04.024	M24	13	48	8	12	91	223



2472.34.



## Material:

Sleeve: Nirosta 1.4305  
 Pin: Nirosta 1.4305  
 Spring: Nirosta

## Note:

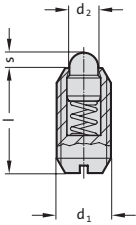
For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

2472.34. Spring plunger, with spring loaded pin, with hexagon socket, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	A/F	Spring force [N]	
						initial	final
2472.34.006	M6	2.7	15	2	3	11	25
2472.34.008	M8	3.8	18	2	4	23	59
2472.34.010	M10	4.5	23	2.5	5	20	54
2472.34.012	M12	6	26	3.5	6	38	96
2472.34.016	M16	8.5	33	4.5	8	50	100
2472.34.020	M20	10	43	6.5	10	52	133
2472.34.024	M24	13	48	8	12	91	223

# Spring plunger, with spring loaded pin, with slot, standard spring force

2472.05.



## 2472.05. Spring plunger, with spring loaded pin, with slot, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	Spring force [N]	
					initial	final
2472.05.004	4	1.8	9	1.5	4.5	12.5
2472.05.005	5	2.4	12	2	5	13
2472.05.006	6	2.7	14	2	6	17
2472.05.008	8	3.8	16	2	16	33
2472.05.010	10	4.5	19	2.5	19	42
2472.05.012	12	6.2	22	3.5	22	57
2472.05.016	16	8.5	24	4.5	38	78
2472.05.020	20	10	30	6.5	39	81
2472.05.024	24	13	34	8	72	155

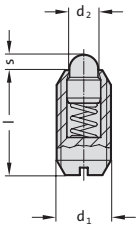
### Material:

Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosa

### Note:

For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C

2472.35.



## 2472.35. Spring plunger, with spring loaded pin, with slot, standard spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	Spring force [N]	
					initial	final
2472.35.004	4	1.8	9	1.5	4.5	12.5
2472.35.005	5	2.4	12	2	5	13
2472.35.006	6	2.7	14	2	6	17
2472.35.008	8	3.8	16	2	16	33
2472.35.010	10	4.5	19	2.5	19	42
2472.35.012	12	6.2	22	3.5	22	57
2472.35.016	16	8.5	24	4.5	38	78
2472.35.020	20	10	30	6.5	39	81
2472.35.024	24	13	34	8	72	155

### Material:

Sleeve: Nirosa 1.4305  
 Pin: Nirosa 1.4305  
 Spring: Nirosa

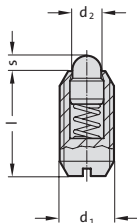
### Note:

For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C

# Spring plunger, with spring loaded pin, with slot, increased spring force



2472.06.



**Material:**

Sleeve: Free machining steel, burnished  
 Pin: Free machining steel hardened, burnished  
 Spring: Nirosta

**Note:**

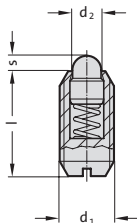
For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

2472.06. Spring plunger, with spring loaded pin, with slot, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	Spring force [N]	
					initial	final
2472.06.006	M6	2.7	14	2	11	25
2472.06.008	M8	3.8	16	2	23	59
2472.06.010	M10	4.5	19	2.5	20	54
2472.06.012	M12	6.2	22	3.5	38	96
2472.06.016	M16	8.5	24	4.5	50	100
2472.06.020	M20	10	30	6.5	52	133
2472.06.024	M24	13	34	8	91	223



2472.36.



**Material:**

Sleeve: Nirosta 1.4305  
 Pin: Nirosta 1.4305  
 Spring: Nirosta

**Note:**

For locking and for pressing upwards or downwards.  
 Temperature operating range: max. 250°C  
 Identification of increased spring force by two longitudinal marks on the sleeve.

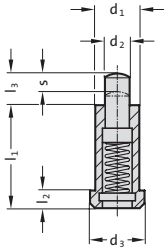
2472.36. Spring plunger, with spring loaded pin, with slot, increased spring force

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	Spring force [N]	
					initial	final
2472.36.006	M6	2.7	14	2	11	25
2472.36.008	M8	3.8	16	2	23	59
2472.36.010	M10	4.5	19	2.5	20	54
2472.36.012	M12	6.2	22	3.5	38	96
2472.36.016	M16	8.5	24	4.5	50	100
2472.36.020	M20	10	30	6.5	52	133
2472.36.024	M24	13	34	8	91	223

# Spring plunger, with spring loaded pin, straight version, with collar

## Spring plunger, with spring loaded ball, straight version

2473.01.



### 2473.01. Spring plunger, with spring loaded pin, straight version, with collar

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	s	Spring force [N]	
								initial	final
2473.01.006	6	2.7	8	20	3.2	6	3.5	10	22
2473.01.008	8	3.9	10	24	3.2	8	4.5	30	88
2473.01.010	10	5.9	13	30	4	10	5.5	42	110
2473.01.012	12	7.9	16	36	5	12	6.5	50	130

#### Material:

Sleeve: Free machining steel, burnished

Pin: Steel, case hardened, burnished

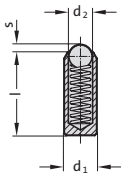
Spring: Nirosta

#### Note:

For use in toolmaking as forcing pins and spring loaded limit stops. Neither the threaded cartridge nor any of its components can escape from the mounting.

Temperature operating range: max. 250 °C

2473.02.



### 2473.02. Spring plunger, with spring loaded ball, straight version

Order No	d <sub>1</sub>	d <sub>2</sub>	l	s	Spring force [N]	
					initial	final
2473.02.030	3	2	7	0.65	4.5	7.5
2473.02.035	3.5	2.5	9	0.8	6	14.5
2473.02.040	4	3	11	0.9	8	14
2473.02.045	4.5	3.2	12	0.95	9.5	16.5
2473.02.050	5	3.5	13	1	11	18
2473.02.055	5.5	4	14	1.2	15.5	25
2473.02.060	6	4.5	15	1.5	18	31

#### Material:

Sleeve: Nirosta 1.4305

Ball: Nirosta hardened

Spring: Nirosta

#### Note:

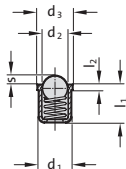
For locking and for pressing upwards or downwards.

Temperature operating range: max. 250 °C

# Spring plunger, with spring loaded ball, straight version, with collar



2475.01.



**Material:**

Sleeve: Delrin blue (POM)

Ball: Delrin white (POM)

Spring: Nirosta

**Note:**

For locking and for pressing upwards or downwards.

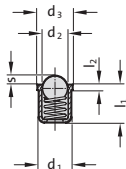
Temperature operating range: -30°C to +50°C

2475.01. Spring plunger, with spring loaded ball, straight version, with collar

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	s	Spring force [N]	
							initial	final
2475.01.004	4	3	4.6	5	1	0.8	2.5	6.5
2475.01.005	5	4	5.6	6	1	1	6	9.4
2475.01.006	6	5	6.5	7	1	1.6	6.5	13
2475.01.008	8	6.5	8.5	9	1	1.9	8	18
2475.01.010	10	8	11	13.5	1.5	2.4	12	23
2475.01.012	12	10	13	16	1.5	3.3	13	25



2475.02.



**Material:**

Sleeve: Delrin blue (POM)

Ball: Nirosta, hardened

Spring: Nirosta

**Note:**

For locking and for pressing upwards or downwards.

Temperature operating range: -30°C to +50°C

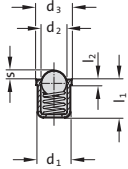
2475.02. Spring plunger, with spring loaded ball, straight version, with collar

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	s	Spring force [N]	
							initial	final
2475.02.004	4	3	4.6	5	1	0.8	2.5	6.5
2475.02.005	5	4	5.6	6	1	1	6	9.4
2475.02.006	6	5	6.5	7	1	1.6	6.5	13
2475.02.008	8	6.5	8.5	9	1	1.9	8	18
2475.02.010	10	8	11	13.5	1.5	2.4	12	23
2475.02.012	12	10	13	16	1.5	3.3	13	25



# Spring plunger, with spring loaded ball, straight version, with collar

2475.03.



## 2475.03. Spring plunger, with spring loaded ball, straight version, with collar

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	s	Spring force [N]	
							initial	final
2475.03.004	4	3	4.5	5	1	0.8	3	6
2475.03.005	5	4	5.5	6	1	1	4	6.5
2475.03.006	6	5	6.5	7	1	1.6	6	11.5
2475.03.008	8	6.5	8.5	9	1	1.9	8	12.5

### Material:

Sleeve: Brass

Ball: Nirosa hardened

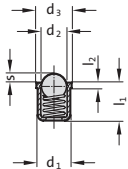
Spring: Nirosa

### Note:

For locking and for pressing upwards or downwards.

Temperature operating range: max. 250°C

2475.04.



## 2475.04. Spring plunger, with spring loaded ball, straight version, with collar

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l <sub>1</sub>	l <sub>2</sub>	s	Spring force [N]	
							initial	final
2475.04.004	4	3	4.6	5	0.9	1	2.5	6
2475.04.005	5	4	5.6	6	0.9	1.4	3	6.5
2475.04.006	6	5	6.5	7	1	1.8	5.5	11.5
2475.04.008	8	6.5	8.5	9	1.1	2.4	7	12.5
2475.04.010	10	8.5	11	13.5	1.7	3.3	8.5	18.5
2475.04.012	12	10	13	16	2.3	4	12	26.5

### Material:

Sleeve: Nirosa 1.4303

Ball: Nirosa hardened

Spring: Nirosa

### Note:

For locking and for pressing upwards or downwards.

Temperature operating range: max. 250°C