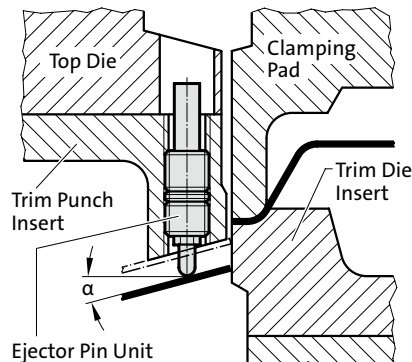
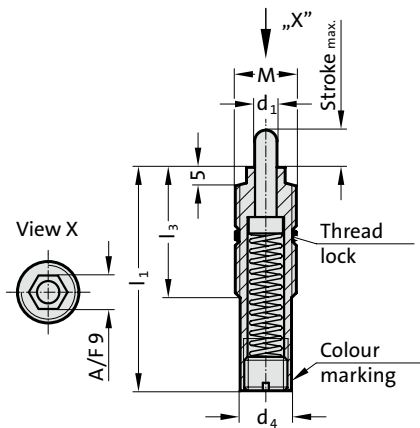


SPRING PLUNGER, LOW MAINTENANCE, STANDARD SPRING FORCE, VDI 3004, COLOUR MARKING: YELLOW

2470.20..1

Mounting example



Description:

Resilient thrust pieces are used as knock out pins, damper pins, fixing and ejector pins in many sectors of the tool, jig and fixture manufacturing industries. Assembly requires the use of special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic with additives permits lateral loading of max. 15° depending on the stroke length.

Note:

Working temperature: 0 °C to +80 °C

Max. recommended extensions per minute: approx. 120 (at 20 °C)

Max. piston speed: 1.6 m/s

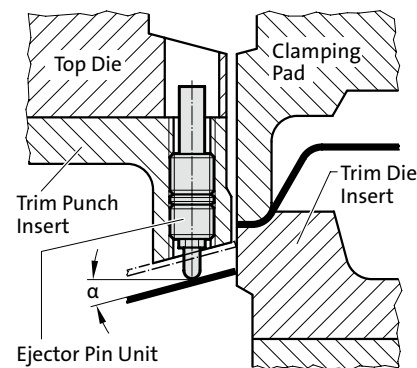
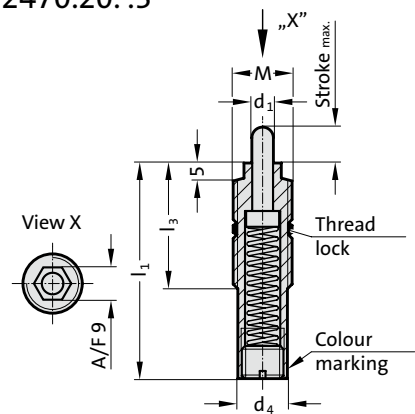
2470.20..1 Spring plunger, low maintenance, standard spring force, VDI 3004, Colour marking: yellow

Order No	d_1	d_4	M	l_1	l_3	Stroke max.	Spring rate [N/mm]	Spring force [N] initial	Spring force [N] final	α
2470.20.010.060.1	6	13.4	16x2	60	35	10	0.95	3.8	13.3	15
2470.20.010.016.060.1	6	13.4	16x1.5	60	35	10	0.95	3.8	13.3	15
2470.20.015.060.1	6	13.4	16x2	60	35	15	2	10	40	15
2470.20.015.016.060.1	6	13.4	16x1.5	60	35	15	2	10	40	15
2470.20.020.080.1	6	13.4	16x2	80	35	20	1.38	6.9	34.5	15
2470.20.020.016.080.1	6	13.4	16x1.5	80	35	20	1.38	6.9	34.5	15
2470.20.030.080.1	6	13.4	16x2	80	35	30	1.3	6.5	45.5	15
2470.20.030.016.080.1	6	13.4	16x1.5	80	35	30	1.3	6.5	45.5	15
2470.20.030.120.1	6	13.4	16x2	120	35	30	0.73	18	40	15
2470.20.030.016.120.1	6	13.4	16x1.5	120	35	30	0.73	18	40	15
2470.20.040.150.1	6	13.4	16x2	150	35	40	0.6	13.2	37.2	10
2470.20.040.016.150.1	6	13.4	16x1.5	150	35	40	0.6	13.2	37.2	10
2470.20.050.150.1	6	13.4	16x2	150	35	50	0.6	13.2	43.2	8
2470.20.050.016.150.1	6	13.4	16x1.5	150	35	50	0.6	13.2	43.2	8

SPRING PLUNGER, LOW MAINTENANCE, MEDIUM SPRING FORCE, VDI 3004, COLOUR MARKING: WHITE

2470.20. .3

Mounting example



Description:

Resilient thrust pieces are used as knock out pins, damper pins, fixing and ejector pins in many sectors of the tool, jig and fixture manufacturing industries. Assembly requires the use of special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic with additives permits lateral loading of max. 15° depending on the stroke length.

Note:

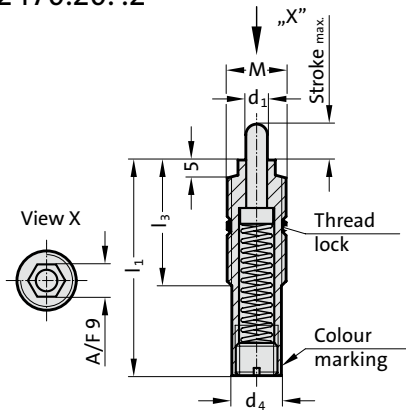
Working temperature: 0 °C to +80 °C
Max. recommended extensions per minute: approx. 120 (at 20 °C)
Max. piston speed: 1.6 m/s

2470.20. .3 Spring plunger, low maintenance, medium spring force, VDI 3004, Colour marking: white

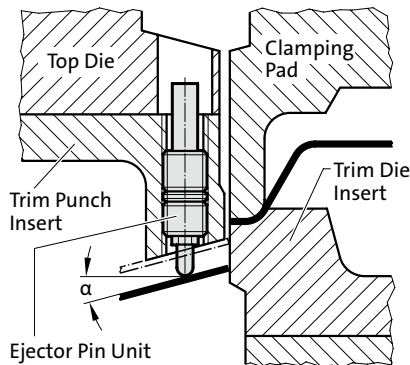
Order No	d_1	d_4	M	l_1	l_3	Stroke max.	Spring rate [N/mm]	Spring force [N] initial	Spring force [N] final	α
2470.20.020.080.3	6	13.4	16x2	80	35	20	3.02	15.1	75.6	15
2470.20.020.016.080.3	6	13.4	16x1.5	80	35	20	3.02	15.1	75.6	15

SPRING PLUNGER, LOW MAINTENANCE, INCREASED SPRING FORCE, VDI 3004, COLOUR MARKING: RED

2470.20. .2



Mounting example



Description:

Resilient thrust pieces are used as knock out pins, damper pins, fixing and ejector pins in many sectors of the tool, jig and fixture manufacturing industries. Assembly requires the use of special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic with additives permits lateral loading of max. 15° depending on the stroke length.

Note:

Working temperature: 0 °C to +80 °C

Max. recommended extensions per minute: approx. 120 (at 20 °C)

Max. piston speed: 1.6 m/s

2470.20. .2 Spring plunger, low maintenance, increased spring force, VDI 3004, Colour marking: red

Order No	d ₁	d ₄	M	l ₁	l ₃	Stroke max.	Spring rate [N/mm]	Spring force [N] initial	Spring force [N] final	α
2470.20.010.060.2	6	13.4	16x2	60	35	10	3.25	13	45.5	15
2470.20.010.016.060.2	6	13.4	16x1.5	60	35	10	3.25	13	45.5	15
2470.20.015.060.2	6	13.4	16x2	60	35	15	2.6	15	56	15
2470.20.015.016.060.2	6	13.4	16x1.5	60	35	15	2.6	15	56	15
2470.20.020.080.2	6	13.4	16x2	80	35	20	6.9	34.5	172.5	15
2470.20.020.016.080.2	6	13.4	16x1.5	80	35	20	6.9	34.5	172.5	15
2470.20.030.120.2	6	13.4	16x2	120	35	30	2	20	80	15
2470.20.030.016.120.2	6	13.4	16x1.5	120	35	30	2	20	80	15
2470.20.030.150.2	6	13.4	16x2	150	35	30	2.55	56.1	132.6	15
2470.20.030.016.150.2	6	13.4	16x1.5	150	35	30	2.55	56.1	132.6	15
2470.20.040.150.2	6	13.4	16x2	150	35	40	2.55	56.1	158.1	10
2470.20.040.016.150.2	6	13.4	16x1.5	150	35	40	2.55	56.1	158.1	10
2470.20.050.200.2	6	13.4	16x2	200	35	50	1.61	19.3	99.9	8
2470.20.050.016.200.2	6	13.4	16x1.5	200	35	50	1.61	19.3	99.9	8