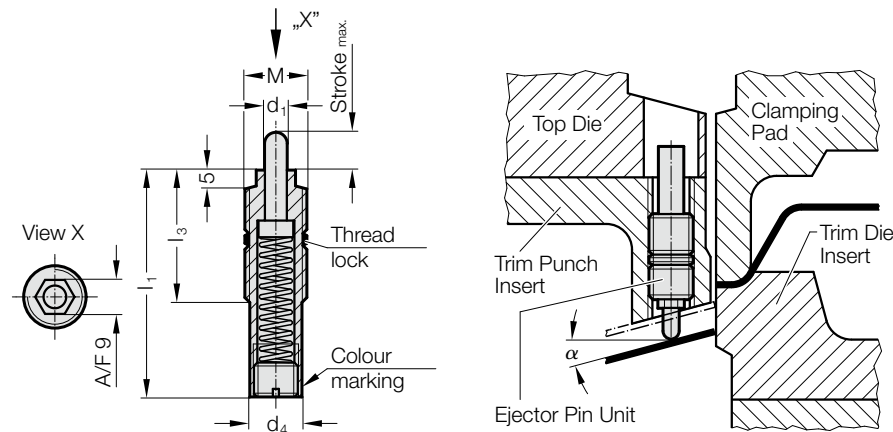


SPRING PLUNGER, LOW MAINTENANCE, STANDARD SPRING FORCE, VDI 3004, COLOUR MARKING: YELLOW

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 a special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic permits lateral loading of max. 10° depending on the stroke length.

Note:

Working temperature: 0 °C to +80 °C

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

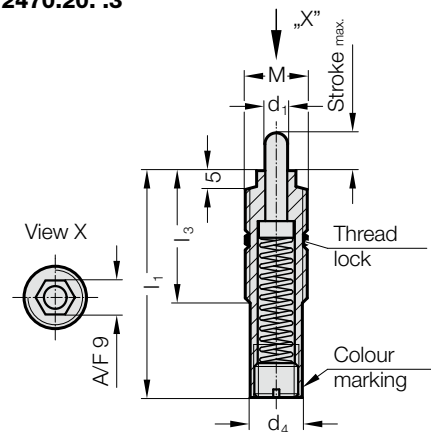
Max. piston speed: 1.6 m/s

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

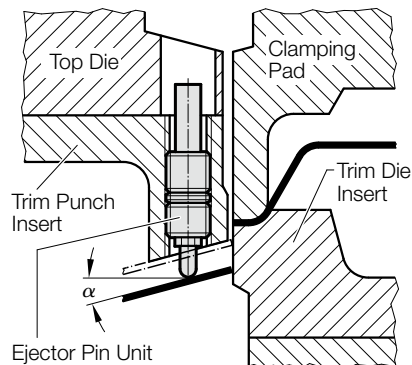
Order No	d ₁	d ₄	M	l ₁	l ₃	Stroke max.	Spring rate [N/mm]	Spring force [N] initial	Spring force [N] final	α
2470.20.010.060.1	6	13.4	M16x2	60	35	10	0.95	3.8	13.3	10
2470.20.010.016.060.1	6	13.4	M16x1.5	60	35	10	0.95	3.8	13.3	10
2470.20.015.060.1	6	13.4	M16x2	60	35	15	2	10	40	10
2470.20.015.016.060.1	6	13.4	M16x1.5	60	35	15	2	10	40	10
2470.20.020.080.1	6	13.4	M16x2	80	35	20	1.38	6.9	34.5	10
2470.20.020.016.080.1	6	13.4	M16x1.5	80	35	20	1.38	6.9	34.5	10
2470.20.030.080.1	6	13.4	M16x2	80	35	30	1.3	6.5	45.5	5
2470.20.030.016.080.1	6	13.4	M16x1.5	80	35	30	1.3	6.5	45.5	5
2470.20.030.120.1	6	13.4	M16x2	120	35	30	0.73	18	40	5
2470.20.030.016.120.1	6	13.4	M16x1.5	120	35	30	0.73	18	40	5
2470.20.040.150.1	6	13.4	M16x2	150	35	40	0.6	13.2	37.2	5
2470.20.040.016.150.1	6	13.4	M16x1.5	150	35	40	0.6	13.2	37.2	5
2470.20.050.150.1	6	13.4	M16x2	150	35	50	0.6	13.2	43.2	5
2470.20.050.016.150.1	6	13.4	M16x1.5	150	35	50	0.6	13.2	43.2	5

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 a special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic permits lateral loading of max. 10° 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

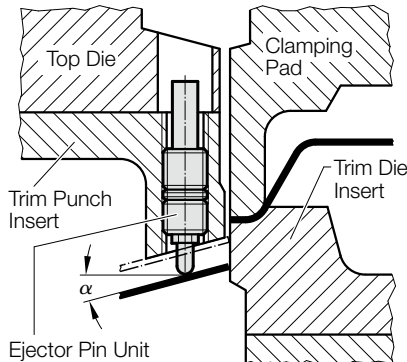
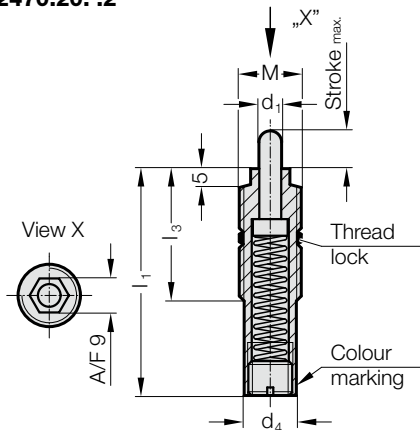
2470.20. .3 Spring plunger, low maintenance, medium spring force, VDI 3004, Colour marking: white

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	M16x2	80	35	20	3.02	15.1	75.6	10
2470.20.020.016.080.3	6	13.4	M16x1.5	80	35	20	3.02	15.1	75.6	10

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 a special FIBRO insertion tool (2470.10.11).

The spring pin made from high performance plastic permits lateral loading of max. 10° 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	M16x2	60	35	10	3.25	13	45.5	10
2470.20.010.016.060.2	6	13.4	M16x1.5	60	35	10	3.25	13	45.5	10
2470.20.015.060.2	6	13.4	M16x2	60	35	15	2.6	15	56	10
2470.20.015.016.060.2	6	13.4	M16x1.5	60	35	15	2.6	15	56	10
2470.20.020.080.2	6	13.4	M16x2	80	35	20	6.9	34.5	172.5	10
2470.20.020.016.080.2	6	13.4	M16x1.5	80	35	20	6.9	34.5	172.5	10
2470.20.030.120.2	6	13.4	M16x2	120	35	30	2	20	80	5
2470.20.030.016.120.2	6	13.4	M16x1.5	120	35	30	2	20	80	5
2470.20.030.150.2	6	13.4	M16x2	150	35	30	2.55	56.1	132.6	5
2470.20.030.016.150.2	6	13.4	M16x1.5	150	35	30	2.55	56.1	132.6	5
2470.20.040.150.2	6	13.4	M16x2	150	35	40	2.55	56.1	158.1	5
2470.20.040.016.150.2	6	13.4	M16x1.5	150	35	40	2.55	56.1	158.1	5
2470.20.050.200.2	6	13.4	M16x2	200	35	50	1.61	19.3	99.9	5
2470.20.050.016.200.2	6	13.4	M16x1.5	200	35	50	1.61	19.3	99.9	5