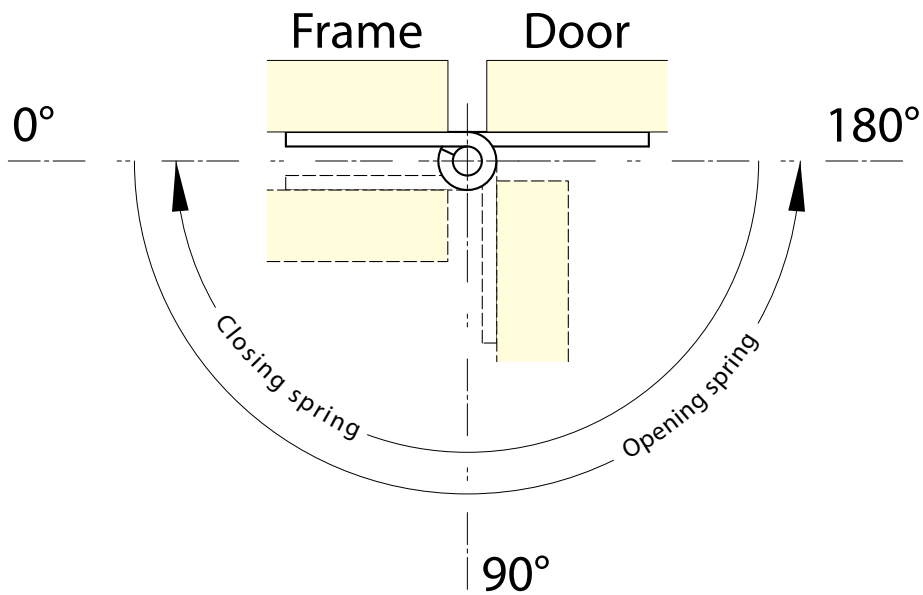


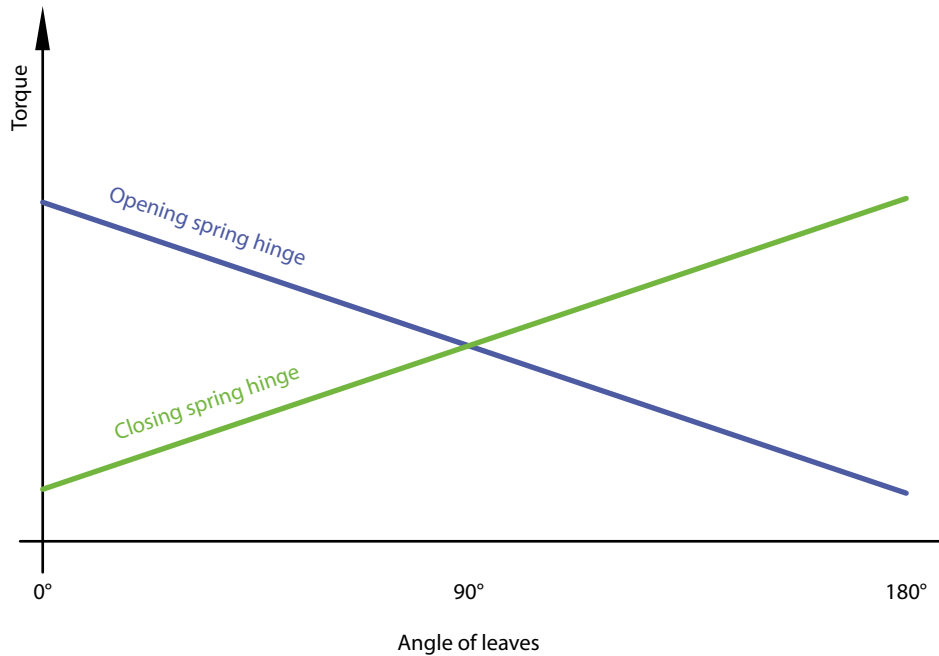


Hinges / Spring hinges

The way a spring hinge opens relates to the spring type



Spring hinge torque depends on angled position



- M : hinge torque at various positions
- M(0°) : torque when hinge leaves are parallel
- M(90°) : torque when leaves are at 90°
- M(180°) : torque when leaves are at 180°

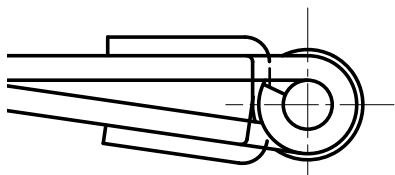


Hinges / Spring hinges

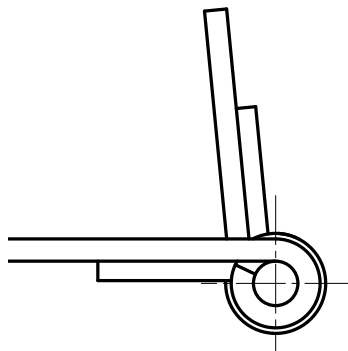
Spring hinges delivered as shown

When delivered, hinges have the following position :

Hinge with closing spring

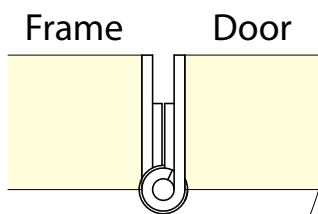


Hinge with opening spring



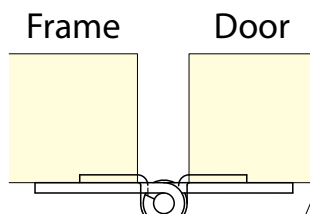
Mouting shows the way doors open

Concealed mounting

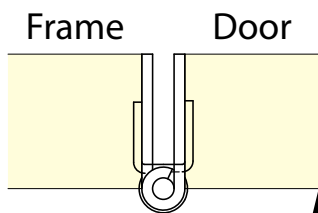


Hinge with **opening** spring

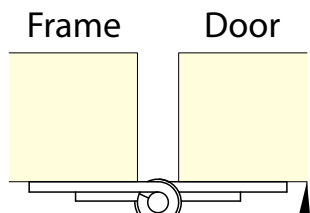
Surface mounting



Hinge with **closing** spring



Hinge with **closing** spring



Hinge with **opening** spring

Arrows indicate rotation of hinge due to the effect of the spring



Hinges / Spring hinges

Spring hinges - aluminium profile 0.35 N.m

new!

Spring force in N.m :
 $M(0^\circ) : 0,35 \text{ N.m} / M(90^\circ) : 0,24 \text{ N.m} / M(180^\circ) : 0,12 \text{ N.m}$

A	B	C	D	note	part number	material	finish	weight
67	55	4.5	13	opening spring	72-1-4220	alu 6060 T5	clear anodised	110g
67	55	4.5	13	opening spring	72-1-4221	alu 6060 T5	black anodised	110g

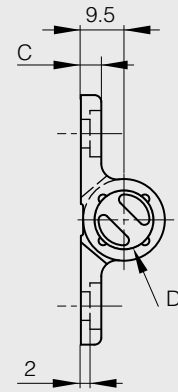
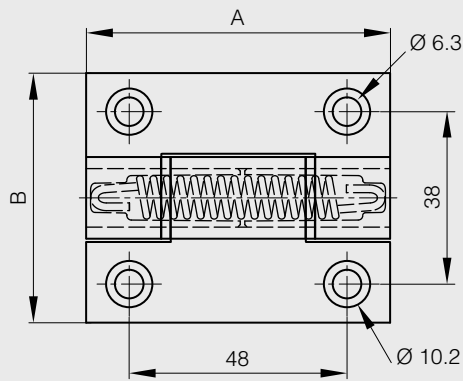


Spring hinges - aluminium profile 0.70 N.m

new!

Spring force in N.m :
 $M(0^\circ) : 0,7 \text{ N.m} / M(90^\circ) : 0,45 \text{ N.m} / M(180^\circ) : 0,23 \text{ N.m}$

A	B	C	D	note	part num-	material	finish	weight
67	55	4.5	13	opening spring	72-1-4218	alu 6060 T5	clear anodised	110g
67	55	4.5	13	opening spring	72-1-4219	alu 6060 T5	black anodised	110g



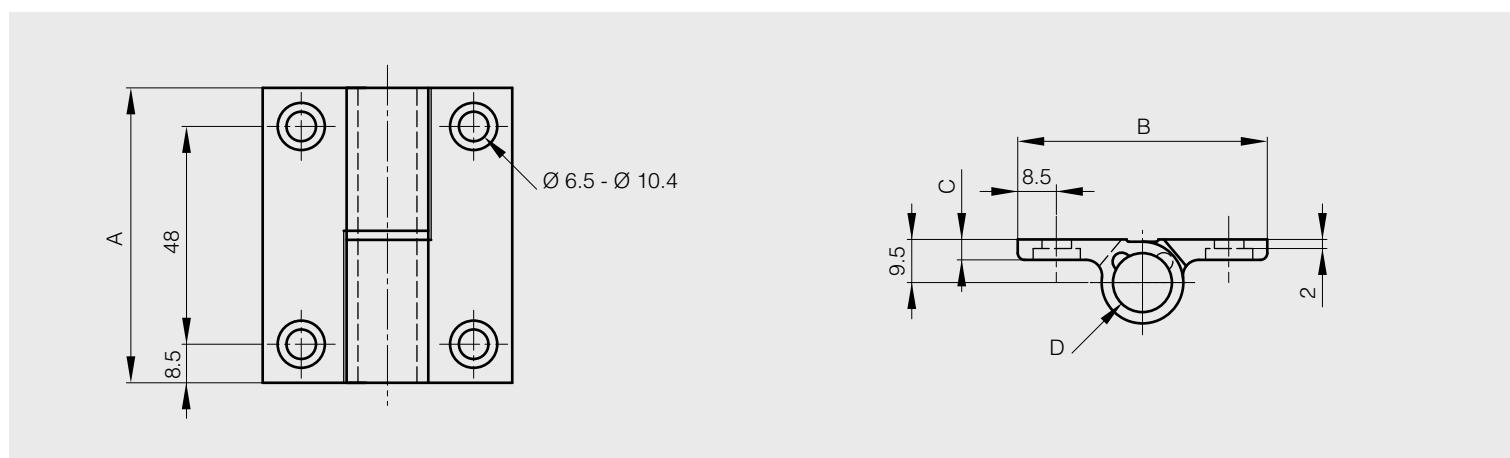


Hinges / Spring hinges

Spring loaded lift-off hinges for light duty applications

This lift-off hinge returns to the original position when the opening angle is below 80°. When the opening angle is above 80°, the spring system has no effect and the hinge remains in position. A full product data sheet is available on our website. Fixing with M6 screws.

A	B	C	D	note	part number	material	finish	weight
65	55	4.5	13	type 2 as shown below	14-1-3759	alu 6060 T5	deburred	62g
65	55	4.5	13	type 1 symmetric not shown	14-1-3760	alu 6060 T5	deburred	62g
65	55	4.5	13	type 2 as shown below	14-1-3765	alu 6060 T5	black anodised	62g
65	55	4.5	13	type 1 symmetric not shown	14-1-3766	alu 6060 T5	black anodised	62g

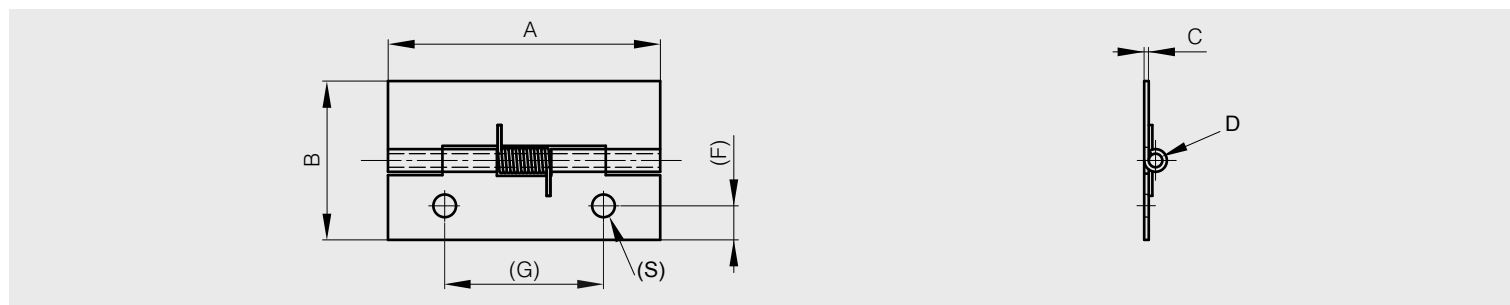


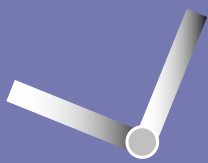
Spring hinges

Opening spring force in N.m :
 $M(0^\circ) : 0,09 \text{ N.m} / M(90^\circ) : 0,07 \text{ N.m} / M(180^\circ) : 0,045 \text{ N.m}$

Closing spring force in N.m :
 $M(0^\circ) : 0,045 \text{ N.m} / M(90^\circ) : 0,07 \text{ N.m} / M(180^\circ) : 0,09 \text{ N.m}$

A	B	C	D	F	G	S	note	part number	material	finish	weight
60	35	1	3	7.5	35	5	steel opening spring	71-1-3306	steel	raw	22g
60	35	1	3	7.5	35	5	stainless steel opening spring	71-1-3579	steel	raw	22g
60	35	1	3	7.5	35	5	stainless steel closing spring	71-1-3617	steel	raw	22g





Hinges / Spring hinges

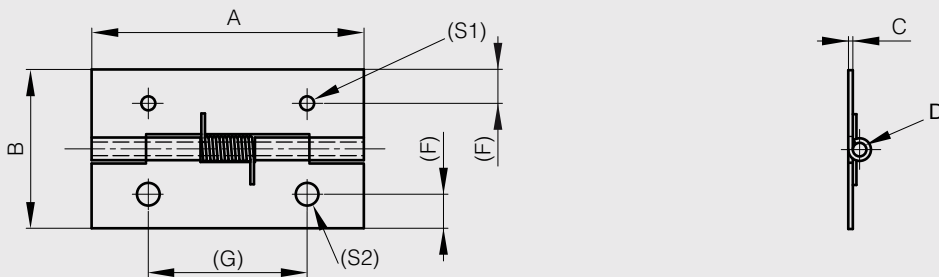
Spring hinges

Spring force in N.m :

M(0°) : 0,09 N.m / M(90°) : 0,07 N.m / M(180°) : 0,045 N.m



A	B	C	D	F	G	S1	S2	note	part number	material	finish	weight
60	35	1	3	7.5	35	3.1	5	stainless steel opening spring	71-1-3560	430 stainless steel	raw	22g

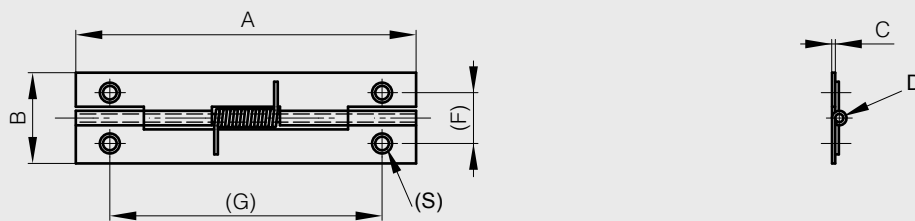


Spring force in N.m :

M(0°) : 0,12 N.m / M(90°) : 0,09 N.m / M(180°) : 0,06 N.m



A	B	C	D	F	G	S	note	part number	material	finish	weight
75	20	0.8	1.8	11.2	60	2.8	stainless steel opening spring	71-1-3305	steel	raw	11.5g
75	20	0.8	1.8	11.2	60	2.8	stainless steel opening spring	71-1-3582	304 stainless steel	raw	11.5g





Hinges / Spring hinges

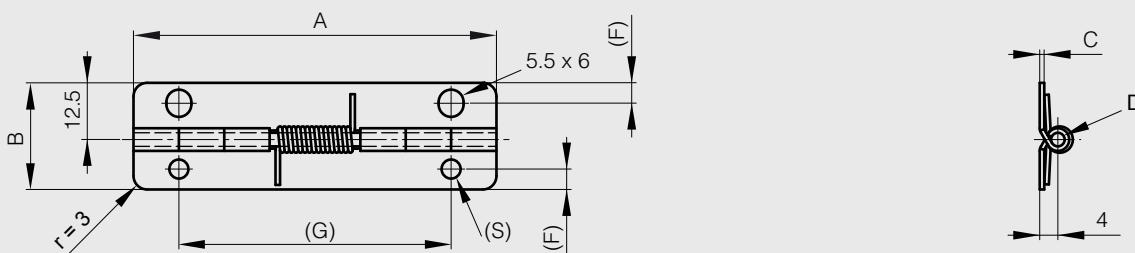
Spring hinges

Spring force in N.m :

$M(0^\circ) : 0,17 \text{ N.m} / M(90^\circ) : 0,12 \text{ N.m} / M(180^\circ) : 0,065 \text{ N.m}$



A	B	C	D	F	G	S	note	part number	material	finish	weight
80	23.5	1	3	4.5	60	4	stainless steel opening spring	71-1-3304	430 stainless steel	raw	24.5g
80	23.5	1	3	4.5	60	4	stainless steel opening spring	71-1-3578	304 stainless steel	raw	24.5g

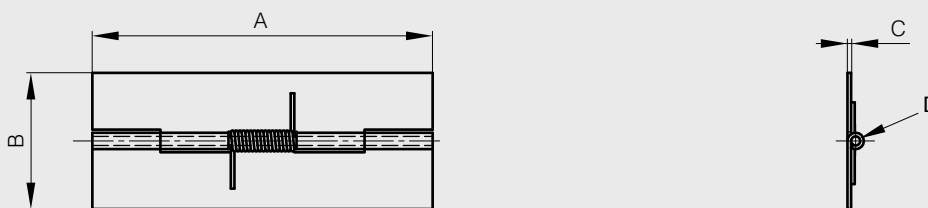


Spring force in N.m :

$M(0^\circ) : 0,12 \text{ N.m} / M(90^\circ) : 0,095 \text{ N.m} / M(180^\circ) : 0,07 \text{ N.m}$



A	B	C	D	note	part number	material	finish	weight
75	30	0.8	2	stainless steel opening spring	71-1-3309	steel	raw	17g
75	30	0.8	2	stainless steel opening spring	71-1-3583	304 stainless steel	raw	17g



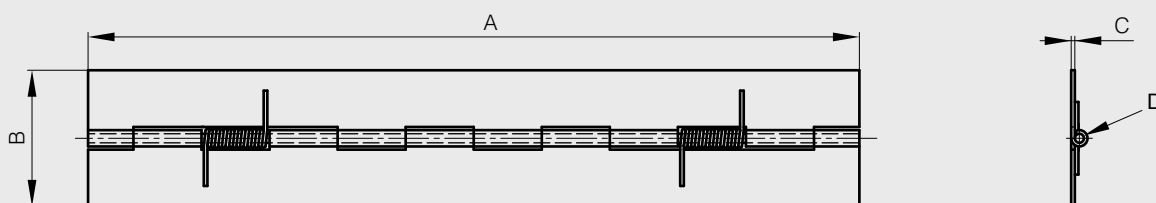


Spring hinges

Spring force in N.m :

$M(0^\circ) : 0,24 \text{ N.m} / M(90^\circ) : 0,19 \text{ N.m} / M(180^\circ) : 0,14 \text{ N.m}$

A	B	C	D	note	part number	material	finish	weight
170	30	0.8	2	stainless steel opening spring	71-1-3303	steel	raw	41g
170	30	0.8	2	stainless steel opening spring	71-1-3522	304 stainless steel	raw	41g



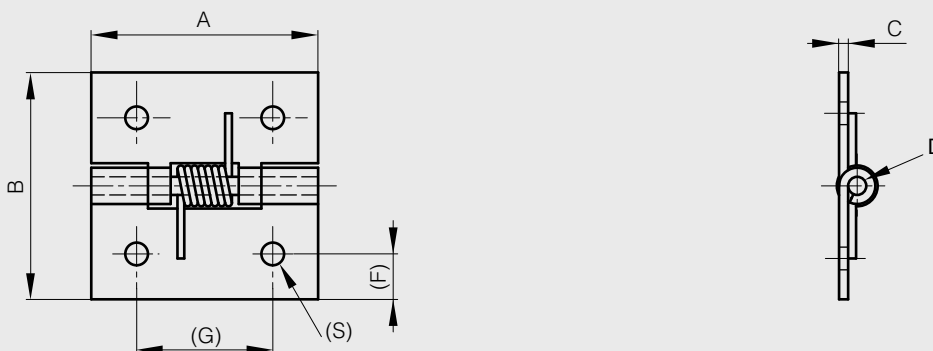
Opening spring force in N.m:

$M(0^\circ) : 1,5 \text{ N.m} / M(90^\circ) : 1,1 \text{ N.m} / M(180^\circ) : 0,65 \text{ N.m}$

Closing spring force in N.m:

$M(0^\circ) : 0,65 \text{ N.m} / M(90^\circ) : 1,1 \text{ N.m} / M(180^\circ) : 1,5 \text{ N.m}$

A	B	C	D	F	G	S	note	part number	material	finish	weight
50	50	2	4	9	30	5	stainless steel opening spring	71-1-3519	steel	zinc plated	50g
50	50	2	4	9	30	5	stainless steel closing spring	71-1-3619	steel	zinc plated	50g
50	50	2	4	10	30	5	stainless steel opening spring	71-1-3553	304 stainless steel	raw	50g
50	50	2	4	10	30	5	stainless steel closing spring	71-1-3586	304 stainless steel	raw	50g





Hinges / Spring hinges

Spring hinges

Spring force for part number 71-1-3308:
 $M(0^\circ)$: 1 N.m / $M(90^\circ)$: 0,86 N.m / $M(180^\circ)$: 0,69 N.m

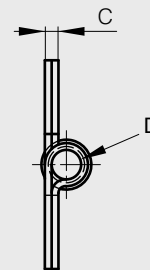
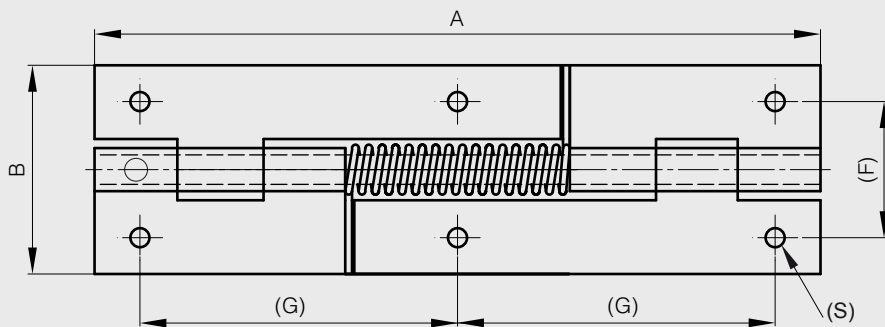
Spring force for part numbers 71-1-3580 et 71-1-3581:
 $M(0^\circ)$: 0,9 N.m / $M(90^\circ)$: 0,86 N.m / $M(180^\circ)$: 0,6 N.m

Spring force for part number 71-1-3618:
 $M(0^\circ)$: 0,6 N.m / $M(90^\circ)$: 0,86 N.m / $M(180^\circ)$: 0,9 N.m

Punched pin.



A	B	C	D	F	G	S	note	part number	material	finish	weight
160	46	3	6.5	30	70	4.2	steel opening spring	71-1-3308	steel	raw	208g
160	46	3	6.5	30	70	4.2	stainless steel opening spring	71-1-3580	steel	raw	208g
160	46	3	6.5	30	70	4.2	stainless steel closing spring	71-1-3618	steel	raw	208g
160	46	3	6.5	30	70	4.2	stainless steel opening spring	71-1-3581	304 stainless steel	raw	208g





Opening spring hinge 120mm long

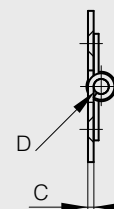
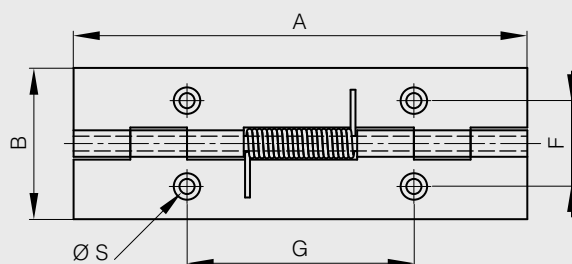
new!

Spring force in N.m :
 $M(0^\circ) : 0,7 \text{ N.m} / M(90^\circ) : 0,45 \text{ N.m} / M(180^\circ) : 0,23 \text{ N.m}$

Stainless steel spring



A	B	C	D	F	G	S	note	part number	material	finish	weight
120	40	1.5	4				undrilled	71-1-3799	steel	zinc plated	82g
120	40	1.5	4	22.7	60	4	drilled	71-1-3805	steel	zinc plated	82g
120	40	1.5	4				undrilled	71-1-3787	stainless steel	raw	82g
120	40	1.5	4	22.7	60	4	drilled	71-1-3793	stainless steel	raw	82g



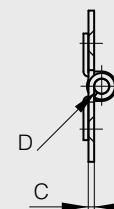
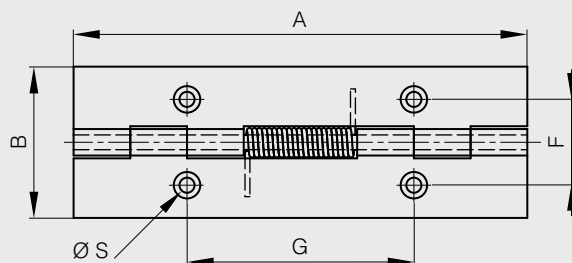
Closing spring hinge 120mm long

new!

Spring force in N.m :
 $M(0^\circ) : 0,23 \text{ N.m} / M(90^\circ) : 0,45 \text{ N.m} / M(180^\circ) : 0,7 \text{ N.m}$

Stainless steel spring

A	B	C	D	F	G	S	note	part number	material	finish	weight
120	40	1.5	4				undrilled	71-1-3802	steel	zinc plated	82g
120	40	1.5	4	22.7	60	4	drilled	71-1-3808	steel	zinc plated	82g
120	40	1.5	4				undrilled	71-1-3790	stainless steel	raw	82g
120	40	1.5	4	22.7	60	4	drilled	71-1-3796	stainless steel	raw	82g





Hinges / Spring hinges

Opening spring hinge 180mm long

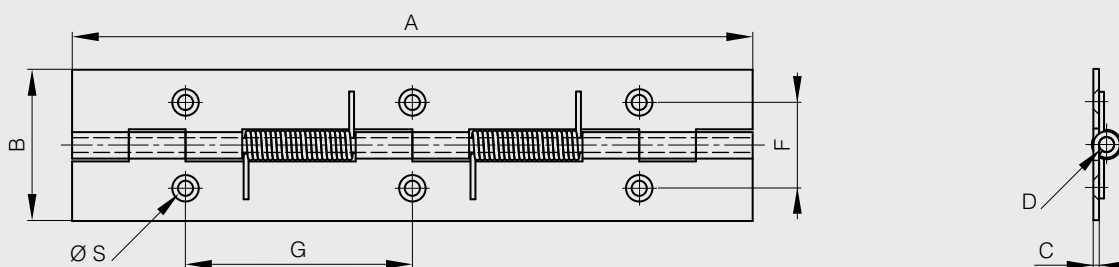
new!

Spring force in N.m :
 $M(0^\circ) : 1,4 \text{ N.m} / M(90^\circ) : 0,9 \text{ N.m} / M(180^\circ) : 0,46 \text{ N.m}$

Stainless steel spring



A	B	C	D	F	G	S	note	part number	material	finish	weight
180	40	1.5	4				undrilled	71-1-3800	steel	zinc plated	124g
180	40	1.5	4	22.7	60	4	drilled	71-1-3806	steel	zinc plated	124g
180	40	1.5	4				undrilled	71-1-3788	stainless steel	raw	124g
180	40	1.5	4	22.7	60	4	drilled	71-1-3794	stainless steel	raw	124g



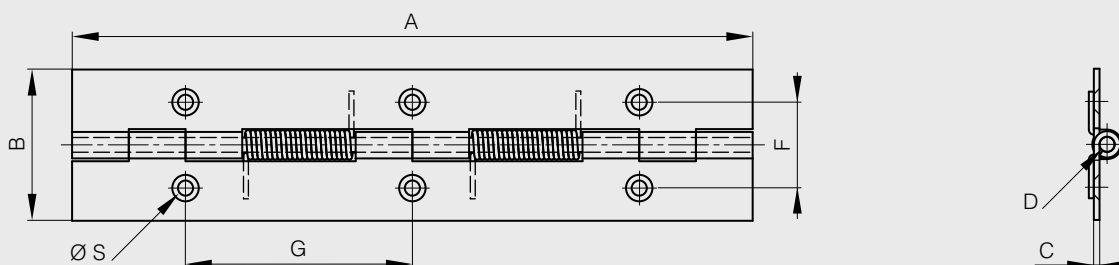
Closing spring hinge 180mm long

new!

Spring force in N.m :
 $M(0^\circ) : 0,46 \text{ N.m} / M(90^\circ) : 0,9 \text{ N.m} / M(180^\circ) : 1,4 \text{ N.m}$

Stainless steel spring

A	B	C	D	F	G	S	note	part number	material	finish	weight
180	40	1.5	4				undrilled	71-1-3803	steel	zinc plated	124g
180	40	1.5	4	22.7	60	4	drilled	71-1-3809	steel	zinc plated	124g
180	40	1.5	4				undrilled	71-1-3791	stainless steel	raw	124g
180	40	1.5	4	22.7	60	4	drilled	71-1-3797	stainless steel	raw	124g





Opening spring hinge 240mm long

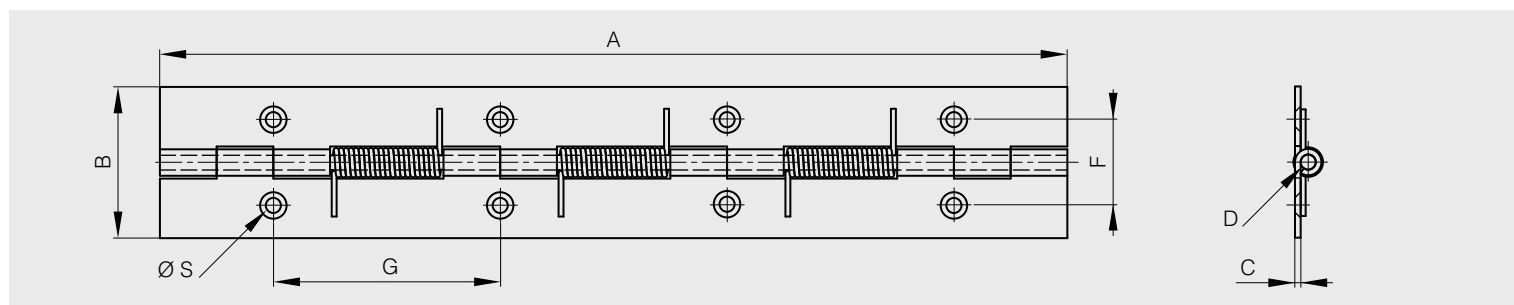
new!

Spring force in N.m :

$M(0^\circ) : 2,1 \text{ N.m} / M(90^\circ) : 1,35 \text{ N.m} / M(180^\circ) : 0,69 \text{ N.m}$

Stainless steel spring

A	B	C	D	F	G	S	note	part number	material	finish	weight
240	40	1.5	4				undrilled	71-1-3801	steel	zinc plated	164g
240	40	1.5	4	22.7	60	4	drilled	71-1-3807	steel	zinc plated	164g
240	40	1.5	4				undrilled	71-1-3789	stainless steel	raw	164g
240	40	1.5	4	22.7	60	4	drilled	71-1-3795	stainless steel	raw	164g



Closing spring hinge 240mm long

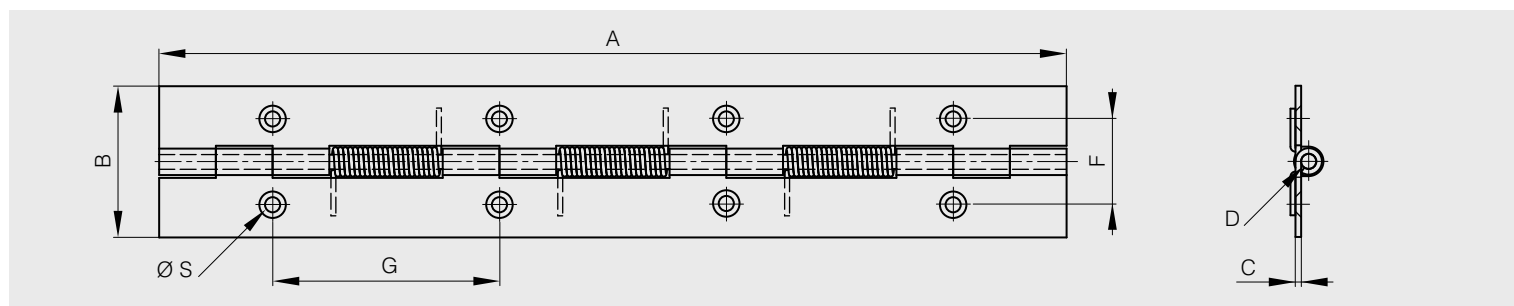
new!

Spring force in N.m :

$M(0^\circ) : 0,69 \text{ N.m} / M(90^\circ) : 1,35 \text{ N.m} / M(180^\circ) : 2,1 \text{ N.m}$

Stainless steel spring

A	B	C	D	F	G	S	note	part number	material	finish	weight
240	40	1.5	4				undrilled	71-1-3804	steel	zinc plated	164g
240	40	1.5	4	22.7	60	4	drilled	71-1-3810	steel	zinc plated	164g
240	40	1.5	4				undrilled	71-1-3792	stainless steel	raw	164g
240	40	1.5	4	22.7	60	4	drilled	71-1-3798	stainless steel	raw	164g



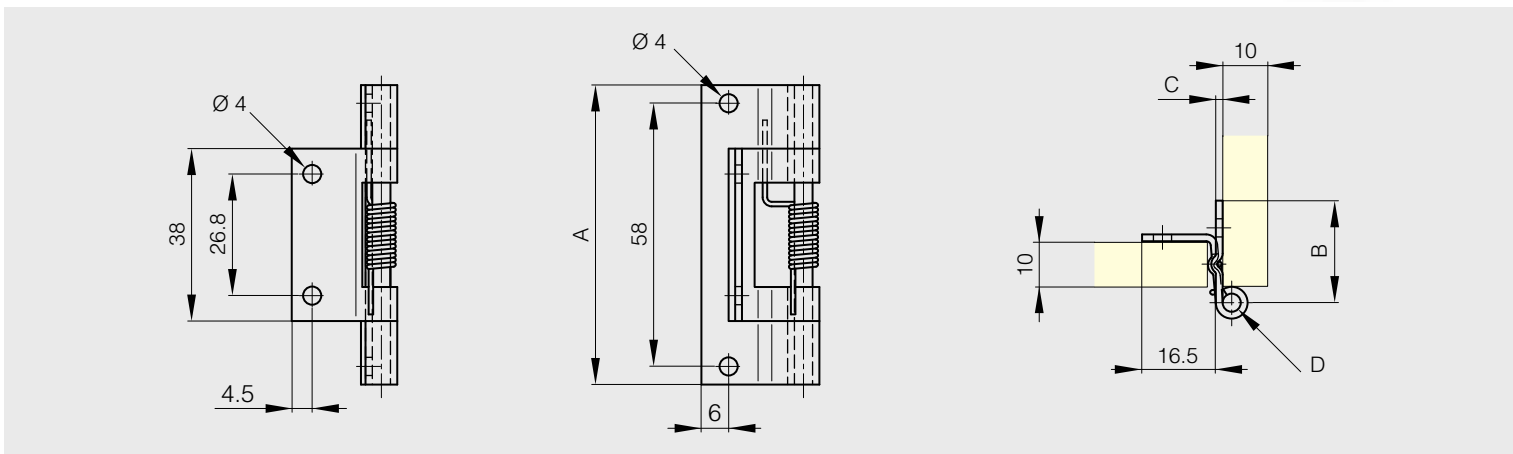


Hinges / Spring hinges

Cranked spring hinge

A full product data sheet is available on our website.

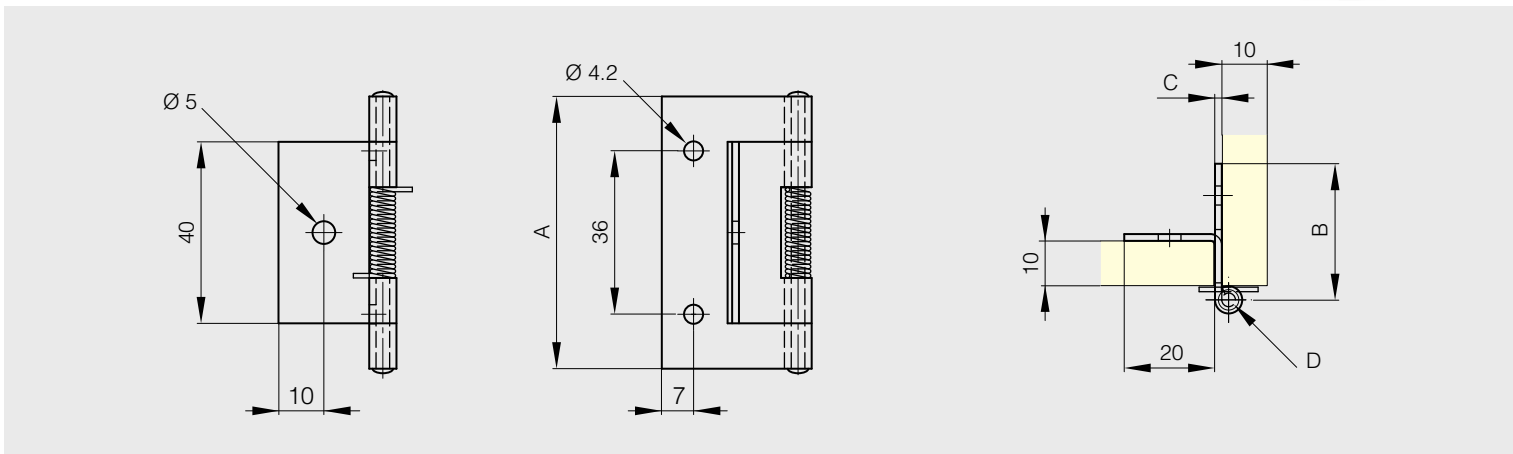
A	B	C	D	note	part number	material	finish	weight
66	22.5	1.5	4	closing spring	71-1-3649	316 stainless steel	gloss	38g



Cranked spring hinge

A full product data sheet is available on our website.

A	B	C	D	note	part number	material	finish	weight
60	30	1.5	3	closing spring	71-1-3622	316 stainless steel	raw	40g





Spring loaded lift-off hinges for doors

Hinges with integrated spring system, sold in pairs.
Brass washer.
Shuts door automatically.
Resistance of the spring: 500,000 cycles. Adjustable spring system.
Opening angle 180°.

A	B	D	part number	material	finish	weight
250	25	22	14-7-3745	steel	raw	592g

