

## Bilyeli Kilitleme Pimleri

Paslanmaz Çelik, Kol Alüminyum

### ÖZELLİKLER

#### Tipler

- Tip **P**: Mantar tipi kollu
- Tip **L**: L kollu
- Tip **T**: T şeklinde kollu

#### Pim

- Paslanmaz Çelik AISI 303 **A**
- Paslanmaz Çelik AISI 630 **C** çökelimli sertleştirilmiş

#### Bilyeler

Paslanmaz Çelik AISI 420C

#### Kol

Alüminyum  
Toz kaplama  
siyah, RAL 9005, dokulu kaplama

#### Basınç yayı

Paslanmaz Çelik AISI 631

**-30 °C ila +150 °C çalışma sıcaklığı**



### BILGI

GN 113.20 bilyeli kilitleme pimleri, çeşitli parçaların ve iş parçalarının hızlı sabitlenmesi, bağlanması ve kilitlemesi için kullanılır. Tipik bir uygulama, çoğu zaman çıkarılmaları ve tekrar takılmaları gereken yerleştirme pimleridir.

İki bilyenin kilidi, yay yüklü basma düğmesine basılarak açılır ve düğme serbest bırakıldığında bilyeler yeniden kilitletir.

Sertleştirilmiş pim versiyonu C, yüksek aşınma direncine sahiptir ve bu sayede ağır elementleri içeren uygulamalar için uygundur.

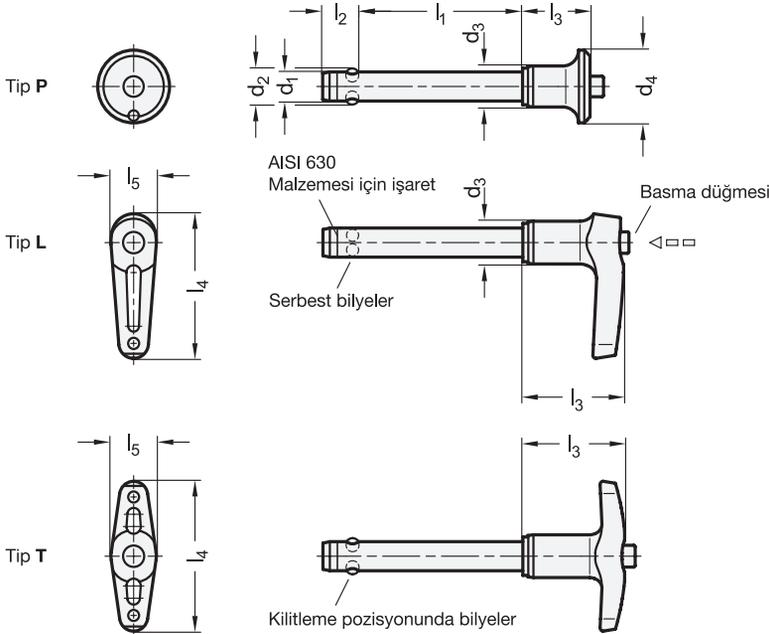
Teknik ek, çift taraflı kesme mukavemeti (kopma dayanımı) için yük kapasitelerini içermektedir.

### AKSESUAR

- GN 111.8 Tespit Kabloları (bkz. sayfa )
- DIN 172 Kılavuz Burçları (Bilezikli) (bkz. sayfa 1006)
- DIN 179 Kılavuz Burçları (Bileziksiz) (bkz. sayfa 1008)
- GN 1140 Tutma burçları (bkz. sayfa )

### TEKNİK BILGI

- Kilitleme Pimi Tipleri Listesi (bkz. sayfa 868)
- Yük kapasitesi (bkz. sayfa )
- ISO-Temel Toleranslar (bkz. sayfa A21)
- Paslanmaz Çelik Özellikler (bkz. sayfa A26)



Tip P

Tip L

Tip T

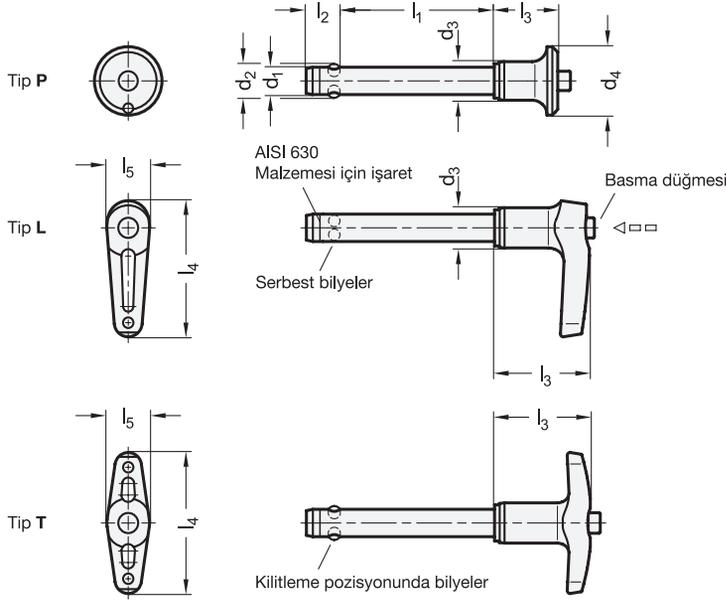
AISI 630

Malzemesi için işaret

Serbest bilyeler

Basma düğmesi

Kilitleme pozisyonunda bilyeler



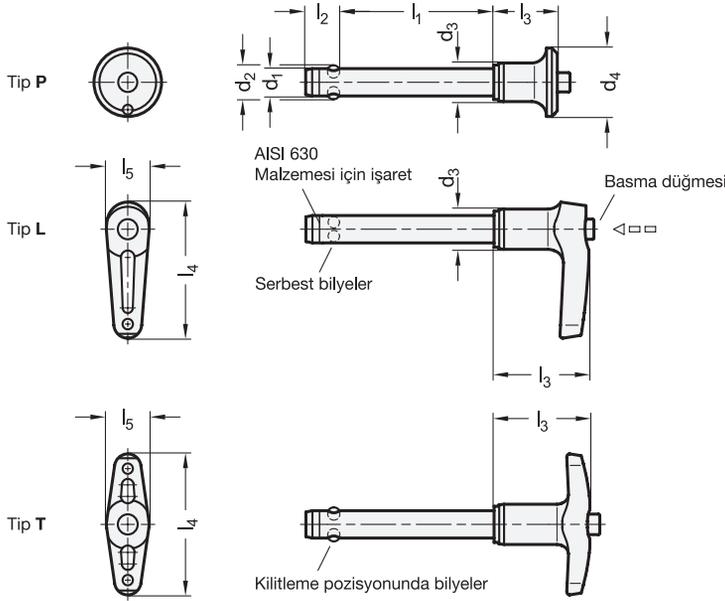
## GN 113.20-P

## STAINLESS STEEL

Açıklama	d1 -0.04/ +0.08	l1 ±0.6	d2	d3	d4	l2 ±1	l3	Yerleş- me deliği H11	kN cinsin- den yük kapasitesi F ≈	🔒
GN 113.20-5-10-P-A	5	10	5.5	11.3	20	6	17.6	5	14	12
GN 113.20-5-10-P-C	5	10	5.5	11.3	20	6	17.6	5	24	12
GN 113.20-5-15-P-A	5	15	5.5	11.3	20	6	17.6	5	14	12
GN 113.20-5-15-P-C	5	15	5.5	11.3	20	6	17.6	5	24	12
GN 113.20-5-20-P-A	5	20	5.5	11.3	20	6	17.6	5	14	13
GN 113.20-5-20-P-C	5	20	5.5	11.3	20	6	17.6	5	24	13
GN 113.20-5-25-P-A	5	25	5.5	11.3	20	6	17.6	5	14	14
GN 113.20-5-25-P-C	5	25	5.5	11.3	20	6	17.6	5	24	14
GN 113.20-5-30-P-A	5	30	5.5	11.3	20	6	17.6	5	14	15
GN 113.20-5-30-P-C	5	30	5.5	11.3	20	6	17.6	5	24	15
GN 113.20-6-10-P-A	6	10	7	11.3	20	7	17.6	6	21	13
GN 113.20-6-10-P-C	6	10	7	11.3	20	7	17.6	6	35	13
GN 113.20-6-15-P-A	6	15	7	11.3	20	7	17.6	6	21	14
GN 113.20-6-15-P-C	6	15	7	11.3	20	7	17.6	6	35	14
GN 113.20-6-20-P-A	6	20	7	11.3	20	7	17.6	6	21	15
GN 113.20-6-20-P-C	6	20	7	11.3	20	7	17.6	6	35	15
GN 113.20-6-25-P-A	6	25	7	11.3	20	7	17.6	6	21	16
GN 113.20-6-25-P-C	6	25	7	11.3	20	7	17.6	6	35	16
GN 113.20-6-30-P-A	6	30	7	11.3	20	7	17.6	6	21	17
GN 113.20-6-30-P-C	6	30	7	11.3	20	7	17.6	6	35	17
GN 113.20-6-35-P-A	6	35	7	11.3	20	7	17.6	6	21	18
GN 113.20-6-35-P-C	6	35	7	11.3	20	7	17.6	6	35	18
GN 113.20-6-40-P-A	6	40	7	11.3	20	7	17.6	6	21	19
GN 113.20-6-40-P-C	6	40	7	11.3	20	7	17.6	6	35	19
GN 113.20-6-45-P-A	6	45	7	11.3	20	7	17.6	6	21	20
GN 113.20-6-45-P-C	6	45	7	11.3	20	7	17.6	6	35	20
GN 113.20-6-50-P-A	6	50	7	11.3	20	7	17.6	6	21	21
GN 113.20-6-50-P-C	6	50	7	11.3	20	7	17.6	6	35	21
GN 113.20-8-20-P-A	8	20	9.5	14.1	25	8.2	22.6	8	38	29
GN 113.20-8-20-P-C	8	20	9.5	14.1	25	8.2	22.6	8	63	29
GN 113.20-8-25-P-A	8	25	9.5	14.1	25	8.2	22.6	8	38	31
GN 113.20-8-25-P-C	8	25	9.5	14.1	25	8.2	22.6	8	63	31
GN 113.20-8-30-P-A	8	30	9.5	14.1	25	8.2	22.6	8	38	33
GN 113.20-8-30-P-C	8	30	9.5	14.1	25	8.2	22.6	8	63	33
GN 113.20-8-35-P-A	8	35	9.5	14.1	25	8.2	22.6	8	38	35
GN 113.20-8-35-P-C	8	35	9.5	14.1	25	8.2	22.6	8	63	35
GN 113.20-8-40-P-A	8	40	9.5	14.1	25	8.2	22.6	8	38	36
GN 113.20-8-40-P-C	8	40	9.5	14.1	25	8.2	22.6	8	63	36

Açıklama	d1 -0.04/ -0.08	l1 ±0.6	d2	d3	d4	l2 ±1	l3	Yerleş- me deliği H11	kN cinsin- den yük kapasitesi F ≈	🔒
GN 113.20-8-45-P-A	8	45	9.5	14.1	25	8.2	22.6	8	38	38
GN 113.20-8-45-P-C	8	45	9.5	14.1	25	8.2	22.6	8	63	38
GN 113.20-8-50-P-A	8	50	9.5	14.1	25	8.2	22.6	8	38	40
GN 113.20-8-50-P-C	8	50	9.5	14.1	25	8.2	22.6	8	63	40
GN 113.20-10-20-P-A	10	20	12	14.1	25	9.6	22.6	10	60	36
GN 113.20-10-20-P-C	10	20	12	14.1	25	9.6	22.6	10	100	36
GN 113.20-10-25-P-A	10	25	12	14.1	25	9.6	22.6	10	60	38
GN 113.20-10-25-P-C	10	25	12	14.1	25	9.6	22.6	10	100	38
GN 113.20-10-30-P-A	10	30	12	14.1	25	9.6	22.6	10	60	42
GN 113.20-10-30-P-C	10	30	12	14.1	25	9.6	22.6	10	100	42
GN 113.20-10-35-P-A	10	35	12	14.1	25	9.6	22.6	10	60	44
GN 113.20-10-35-P-C	10	35	12	14.1	25	9.6	22.6	10	100	44
GN 113.20-10-40-P-A	10	40	12	14.1	25	9.6	22.6	10	60	47
GN 113.20-10-40-P-C	10	40	12	14.1	25	9.6	22.6	10	100	47
GN 113.20-10-45-P-A	10	45	12	14.1	25	9.6	22.6	10	60	50
GN 113.20-10-45-P-C	10	45	12	14.1	25	9.6	22.6	10	100	50
GN 113.20-10-50-P-A	10	50	12	14.1	25	9.6	22.6	10	60	53
GN 113.20-10-50-P-C	10	50	12	14.1	25	9.6	22.6	10	100	53
GN 113.20-10-60-P-A	10	60	12	14.1	25	9.6	22.6	10	60	59
GN 113.20-10-60-P-C	10	60	12	14.1	25	9.6	22.6	10	100	59
GN 113.20-12-25-P-A	12	25	14.5	17.7	35	10.6	27.3	12	87	70
GN 113.20-12-25-P-C	12	25	14.5	17.7	35	10.6	27.3	12	144	70
GN 113.20-12-30-P-A	12	30	14.5	17.7	35	10.6	27.3	12	87	75
GN 113.20-12-30-P-C	12	30	14.5	17.7	35	10.6	27.3	12	144	75
GN 113.20-12-35-P-A	12	35	14.5	17.7	35	10.6	27.3	12	87	79
GN 113.20-12-35-P-C	12	35	14.5	17.7	35	10.6	27.3	12	144	79
GN 113.20-12-40-P-A	12	40	14.5	17.7	35	10.6	27.3	12	87	83
GN 113.20-12-40-P-C	12	40	14.5	17.7	35	10.6	27.3	12	144	83
GN 113.20-12-45-P-A	12	45	14.5	17.7	35	10.6	27.3	12	87	88
GN 113.20-12-45-P-C	12	45	14.5	17.7	35	10.6	27.3	12	144	88
GN 113.20-12-50-P-A	12	50	14.5	17.7	35	10.6	27.3	12	87	92
GN 113.20-12-50-P-C	12	50	14.5	17.7	35	10.6	27.3	12	144	92
GN 113.20-12-60-P-A	12	60	14.5	17.7	35	10.6	27.3	12	87	100
GN 113.20-12-60-P-C	12	60	14.5	17.7	35	10.6	27.3	12	144	100
GN 113.20-12-70-P-A	12	70	14.5	17.7	35	10.6	27.3	12	87	109
GN 113.20-12-70-P-C	12	70	14.5	17.7	35	10.6	27.3	12	144	109
GN 113.20-12-80-P-A	12	80	14.5	17.7	35	10.6	27.3	12	87	117
GN 113.20-12-80-P-C	12	80	14.5	17.7	35	10.6	27.3	12	144	117



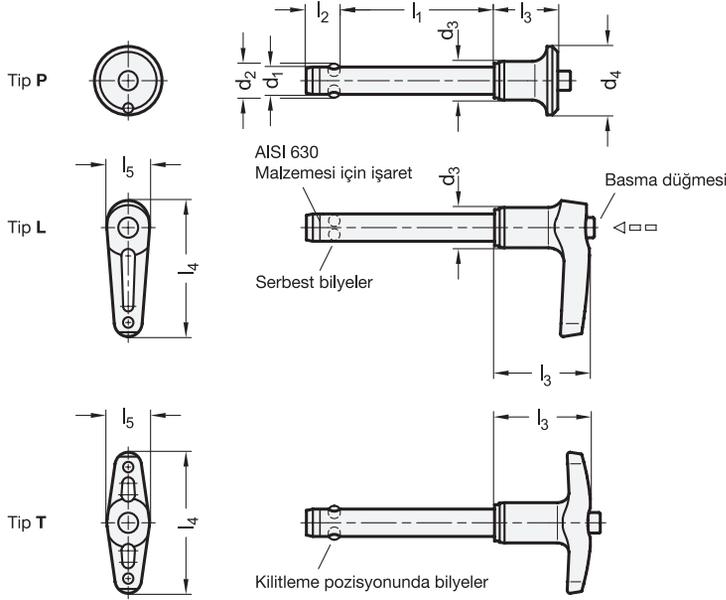


## GN 113.20-L

## STAINLESS STEEL

Açıklama	d <sub>1</sub> -0.04/ +0.6	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ±1	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	Yerleş- tirme deliği H11	kN cinsin- den yük kapasitesi F ≈	Yerleş- tirme deliği H11	kN cinsin- den yük kapasitesi F ≈
GN 113.20-5-10-L-A	5	10	5.5	11.8	6	31	43.8	12.6	5	14	20
GN 113.20-5-10-L-C	5	10	5.5	11.8	6	31	43.8	12.6	5	24	20
GN 113.20-5-15-L-A	5	15	5.5	11.8	6	31	43.8	12.6	5	14	21
GN 113.20-5-15-L-C	5	15	5.5	11.8	6	31	43.8	12.6	5	24	21
GN 113.20-5-20-L-A	5	20	5.5	11.8	6	31	43.8	12.6	5	14	22
GN 113.20-5-20-L-C	5	20	5.5	11.8	6	31	43.8	12.6	5	24	22
GN 113.20-5-25-L-A	5	25	5.5	11.8	6	31	43.8	12.6	5	14	22
GN 113.20-5-25-L-C	5	25	5.5	11.8	6	31	43.8	12.6	5	24	22
GN 113.20-5-30-L-A	5	30	5.5	11.8	6	31	43.8	12.6	5	14	23
GN 113.20-5-30-L-C	5	30	5.5	11.8	6	31	43.8	12.6	5	24	23
GN 113.20-6-10-L-A	6	10	7	11.8	7	31	43.8	12.6	6	21	21
GN 113.20-6-10-L-C	6	10	7	11.8	7	31	43.8	12.6	6	35	21
GN 113.20-6-15-L-A	6	15	7	11.8	7	31	43.8	12.6	6	21	22
GN 113.20-6-15-L-C	6	15	7	11.8	7	31	43.8	12.6	6	35	22
GN 113.20-6-20-L-A	6	20	7	11.8	7	31	43.8	12.6	6	21	22
GN 113.20-6-20-L-C	6	20	7	11.8	7	31	43.8	12.6	6	35	22
GN 113.20-6-25-L-A	6	25	7	11.8	7	31	43.8	12.6	6	21	24
GN 113.20-6-25-L-C	6	25	7	11.8	7	31	43.8	12.6	6	35	24
GN 113.20-6-30-L-A	6	30	7	11.8	7	31	43.8	12.6	6	21	25
GN 113.20-6-30-L-C	6	30	7	11.8	7	31	43.8	12.6	6	35	25
GN 113.20-6-35-L-A	6	35	7	11.8	7	31	43.8	12.6	6	21	26
GN 113.20-6-35-L-C	6	35	7	11.8	7	31	43.8	12.6	6	35	26
GN 113.20-6-40-L-A	6	40	7	11.8	7	31	43.8	12.6	6	21	27
GN 113.20-6-40-L-C	6	40	7	11.8	7	31	43.8	12.6	6	35	27
GN 113.20-6-45-L-A	6	45	7	11.8	7	31	43.8	12.6	6	21	28
GN 113.20-6-45-L-C	6	45	7	11.8	7	31	43.8	12.6	6	35	28
GN 113.20-6-50-L-A	6	50	7	11.8	7	31	43.8	12.6	6	21	29
GN 113.20-6-50-L-C	6	50	7	11.8	7	31	43.8	12.6	6	35	29
GN 113.20-8-20-L-A	8	20	9.5	14.7	8.2	35.1	49.7	15.8	8	38	37
GN 113.20-8-20-L-C	8	20	9.5	14.7	8.2	35.1	49.7	15.8	8	63	37
GN 113.20-8-25-L-A	8	25	9.5	14.7	8.2	35.1	49.7	15.8	8	38	39
GN 113.20-8-25-L-C	8	25	9.5	14.7	8.2	35.1	49.7	15.8	8	63	39
GN 113.20-8-30-L-A	8	30	9.5	14.7	8.2	35.1	49.7	15.8	8	38	41
GN 113.20-8-30-L-C	8	30	9.5	14.7	8.2	35.1	49.7	15.8	8	63	41
GN 113.20-8-35-L-A	8	35	9.5	14.7	8.2	35.1	49.7	15.8	8	38	43
GN 113.20-8-35-L-C	8	35	9.5	14.7	8.2	35.1	49.7	15.8	8	63	43
GN 113.20-8-40-L-A	8	40	9.5	14.7	8.2	35.1	49.7	15.8	8	38	45
GN 113.20-8-40-L-C	8	40	9.5	14.7	8.2	35.1	49.7	15.8	8	63	45

Açıklama	d <sub>1</sub> -0.04/ -0.08	l <sub>1</sub> +0.6	d <sub>2</sub>	d <sub>3</sub>	l <sub>2</sub> ±1	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	Yerleş- tirme deliği H11	kN cinsin- den yük kapasitesi F ≈	
GN 113.20-8-45-L-A	8	45	9.5	14.7	8.2	35.1	49.7	15.8	8	38	46
GN 113.20-8-45-L-C	8	45	9.5	14.7	8.2	35.1	49.7	15.8	8	63	46
GN 113.20-8-50-L-A	8	50	9.5	14.7	8.2	35.1	49.7	15.8	8	38	48
GN 113.20-8-50-L-C	8	50	9.5	14.7	8.2	35.1	49.7	15.8	8	63	48
GN 113.20-10-20-L-A	10	20	12	14.7	9.6	35.1	49.7	15.8	10	60	44
GN 113.20-10-20-L-C	10	20	12	14.7	9.6	35.1	49.7	15.8	10	100	44
GN 113.20-10-25-L-A	10	25	12	14.7	9.6	35.1	49.7	15.8	10	60	47
GN 113.20-10-25-L-C	10	25	12	14.7	9.6	35.1	49.7	15.8	10	100	47
GN 113.20-10-30-L-A	10	30	12	14.7	9.6	35.1	49.7	15.8	10	60	50
GN 113.20-10-30-L-C	10	30	12	14.7	9.6	35.1	49.7	15.8	10	100	50
GN 113.20-10-35-L-A	10	35	12	14.7	9.6	35.1	49.7	15.8	10	60	53
GN 113.20-10-35-L-C	10	35	12	14.7	9.6	35.1	49.7	15.8	10	100	53
GN 113.20-10-40-L-A	10	40	12	14.7	9.6	35.1	49.7	15.8	10	60	56
GN 113.20-10-40-L-C	10	40	12	14.7	9.6	35.1	49.7	15.8	10	100	56
GN 113.20-10-45-L-A	10	45	12	14.7	9.6	35.1	49.7	15.8	10	60	58
GN 113.20-10-45-L-C	10	45	12	14.7	9.6	35.1	49.7	15.8	10	100	58
GN 113.20-10-50-L-A	10	50	12	14.7	9.6	35.1	49.7	15.8	10	60	62
GN 113.20-10-50-L-C	10	50	12	14.7	9.6	35.1	49.7	15.8	10	100	62
GN 113.20-10-60-L-A	10	60	12	14.7	9.6	35.1	49.7	15.8	10	60	67
GN 113.20-10-60-L-C	10	60	12	14.7	9.6	35.1	49.7	15.8	10	100	67
GN 113.20-12-25-L-A	12	25	14.5	18.2	10.6	34.4	57.1	20.2	12	87	73
GN 113.20-12-25-L-C	12	25	14.5	18.2	10.6	34.4	57.1	20.2	12	144	73
GN 113.20-12-30-L-A	12	30	14.5	18.2	10.6	34.4	57.1	20.2	12	87	78
GN 113.20-12-30-L-C	12	30	14.5	18.2	10.6	34.4	57.1	20.2	12	144	78
GN 113.20-12-35-L-A	12	35	14.5	18.2	10.6	34.4	57.1	20.2	12	87	82
GN 113.20-12-35-L-C	12	35	14.5	18.2	10.6	34.4	57.1	20.2	12	144	82
GN 113.20-12-40-L-A	12	40	14.5	18.2	10.6	34.4	57.1	20.2	12	87	86
GN 113.20-12-40-L-C	12	40	14.5	18.2	10.6	34.4	57.1	20.2	12	144	86
GN 113.20-12-45-L-A	12	45	14.5	18.2	10.6	34.4	57.1	20.2	12	87	90
GN 113.20-12-45-L-C	12	45	14.5	18.2	10.6	34.4	57.1	20.2	12	144	90
GN 113.20-12-50-L-A	12	50	14.5	18.2	10.6	34.4	57.1	20.2	12	87	94
GN 113.20-12-50-L-C	12	50	14.5	18.2	10.6	34.4	57.1	20.2	12	144	94
GN 113.20-12-60-L-A	12	60	14.5	18.2	10.6	34.4	57.1	20.2	12	87	103
GN 113.20-12-60-L-C	12	60	14.5	18.2	10.6	34.4	57.1	20.2	12	144	103
GN 113.20-12-70-L-A	12	70	14.5	18.2	10.6	34.4	57.1	20.2	12	87	112
GN 113.20-12-70-L-C	12	70	14.5	18.2	10.6	34.4	57.1	20.2	12	144	112
GN 113.20-12-80-L-A	12	80	14.5	18.2	10.6	34.4	57.1	20.2	12	87	120
GN 113.20-12-80-L-C	12	80	14.5	18.2	10.6	34.4	57.1	20.2	12	144	120



## GN 113.20-T

## STAINLESS STEEL

Açıklama	d1 -0.04/ -0.08	l1 +0.6	d2	d3	l2 ±1	l3	l4	l5	Yerleşti- me deliği H11	kN cinsin- den yük kapasitesi F ≈	Ölçü
GN 113.20-5-10-T-A	5	10	5.5	11.8	6	31.3	45.2	12.6	5	14	19
GN 113.20-5-10-T-C	5	10	5.5	11.8	6	31.3	45.2	12.6	5	24	19
GN 113.20-5-15-T-A	5	15	5.5	11.8	6	31.3	45.2	12.6	5	14	20
GN 113.20-5-15-T-C	5	15	5.5	11.8	6	31.3	45.2	12.6	5	24	20
GN 113.20-5-20-T-A	5	20	5.5	11.8	6	31.3	45.2	12.6	5	14	21
GN 113.20-5-20-T-C	5	20	5.5	11.8	6	31.3	45.2	12.6	5	24	21
GN 113.20-5-25-T-A	5	25	5.5	11.8	6	31.3	45.2	12.6	5	14	22
GN 113.20-5-25-T-C	5	25	5.5	11.8	6	31.3	45.2	12.6	5	24	22
GN 113.20-5-30-T-A	5	30	5.5	11.8	6	31.3	45.2	12.6	5	14	22
GN 113.20-5-30-T-C	5	30	5.5	11.8	6	31.3	45.2	12.6	5	24	22
GN 113.20-6-10-T-A	6	10	7	11.8	7	31.3	45.2	12.6	6	21	21
GN 113.20-6-10-T-C	6	10	7	11.8	7	31.3	45.2	12.6	6	35	21
GN 113.20-6-15-T-A	6	15	7	11.8	7	31.3	45.2	12.6	6	21	21
GN 113.20-6-15-T-C	6	15	7	11.8	7	31.3	45.2	12.6	6	35	21
GN 113.20-6-20-T-A	6	20	7	11.8	7	31.3	45.2	12.6	6	21	23
GN 113.20-6-20-T-C	6	20	7	11.8	7	31.3	45.2	12.6	6	35	23
GN 113.20-6-25-T-A	6	25	7	11.8	7	31.3	45.2	12.6	6	21	23
GN 113.20-6-25-T-C	6	25	7	11.8	7	31.3	45.2	12.6	6	35	23
GN 113.20-6-30-T-A	6	30	7	11.8	7	31.3	45.2	12.6	6	21	24
GN 113.20-6-30-T-C	6	30	7	11.8	7	31.3	45.2	12.6	6	35	24
GN 113.20-6-35-T-A	6	35	7	11.8	7	31.3	45.2	12.6	6	21	26
GN 113.20-6-35-T-C	6	35	7	11.8	7	31.3	45.2	12.6	6	35	26
GN 113.20-6-40-T-A	6	40	7	11.8	7	31.3	45.2	12.6	6	21	26
GN 113.20-6-40-T-C	6	40	7	11.8	7	31.3	45.2	12.6	6	35	26
GN 113.20-6-45-T-A	6	45	7	11.8	7	31.3	45.2	12.6	6	21	27
GN 113.20-6-45-T-C	6	45	7	11.8	7	31.3	45.2	12.6	6	35	27
GN 113.20-6-50-T-A	6	50	7	11.8	7	31.3	45.2	12.6	6	21	29
GN 113.20-6-50-T-C	6	50	7	11.8	7	31.3	45.2	12.6	6	35	29
GN 113.20-8-20-T-A	8	20	9.5	14.7	8.2	35.4	51.5	15.8	8	38	38
GN 113.20-8-20-T-C	8	20	9.5	14.7	8.2	35.4	51.5	15.8	8	63	38
GN 113.20-8-25-T-A	8	25	9.5	14.7	8.2	35.4	51.5	15.8	8	38	39
GN 113.20-8-25-T-C	8	25	9.5	14.7	8.2	35.4	51.5	15.8	8	63	39
GN 113.20-8-30-T-A	8	30	9.5	14.7	8.2	35.4	51.5	15.8	8	38	41
GN 113.20-8-30-T-C	8	30	9.5	14.7	8.2	35.4	51.5	15.8	8	63	41
GN 113.20-8-35-T-A	8	35	9.5	14.7	8.2	35.4	51.5	15.8	8	38	43
GN 113.20-8-35-T-C	8	35	9.5	14.7	8.2	35.4	51.5	15.8	8	63	43
GN 113.20-8-40-T-A	8	40	9.5	14.7	8.2	35.4	51.5	15.8	8	38	45
GN 113.20-8-40-T-C	8	40	9.5	14.7	8.2	35.4	51.5	15.8	8	63	45

Açıklama	d1 -0.04/ -0.08	l1 +0.6	d2	d3	l2 ±1	l3	l4	l5	Yerleşti- me deliği H11	kN cinsin- den yük kapasite- si F ≈	Ölçü
GN 113.20-8-45-T-A	8	45	9.5	14.7	8.2	35.4	51.5	15.8	8	38	47
GN 113.20-8-45-T-C	8	45	9.5	14.7	8.2	35.4	51.5	15.8	8	63	47
GN 113.20-8-50-T-A	8	50	9.5	14.7	8.2	35.4	51.5	15.8	8	38	49
GN 113.20-8-50-T-C	8	50	9.5	14.7	8.2	35.4	51.5	15.8	8	63	49
GN 113.20-10-20-T-A	10	20	12	14.7	9.6	35.4	51.5	15.8	10	60	44
GN 113.20-10-20-T-C	10	20	12	14.7	9.6	35.4	51.5	15.8	10	100	44
GN 113.20-10-25-T-A	10	25	12	14.7	9.6	35.4	51.5	15.8	10	60	47
GN 113.20-10-25-T-C	10	25	12	14.7	9.6	35.4	51.5	15.8	10	100	47
GN 113.20-10-30-T-A	10	30	12	14.7	9.6	35.4	51.5	15.8	10	60	50
GN 113.20-10-30-T-C	10	30	12	14.7	9.6	35.4	51.5	15.8	10	100	50
GN 113.20-10-35-T-A	10	35	12	14.7	9.6	35.4	51.5	15.8	10	60	53
GN 113.20-10-35-T-C	10	35	12	14.7	9.6	35.4	51.5	15.8	10	100	53
GN 113.20-10-40-T-A	10	40	12	14.7	9.6	35.4	51.5	15.8	10	60	56
GN 113.20-10-40-T-C	10	40	12	14.7	9.6	35.4	51.5	15.8	10	100	56
GN 113.20-10-45-T-A	10	45	12	14.7	9.6	35.4	51.5	15.8	10	60	59
GN 113.20-10-45-T-C	10	45	12	14.7	9.6	35.4	51.5	15.8	10	100	59
GN 113.20-10-50-T-A	10	50	12	14.7	9.6	35.4	51.5	15.8	10	60	62
GN 113.20-10-50-T-C	10	50	12	14.7	9.6	35.4	51.5	15.8	10	100	62
GN 113.20-10-60-T-A	10	60	12	14.7	9.6	35.4	51.5	15.8	10	60	68
GN 113.20-10-60-T-C	10	60	12	14.7	9.6	35.4	51.5	15.8	10	100	68
GN 113.20-12-25-T-A	12	25	14.5	18.2	10.6	34.7	59.1	20.2	12	87	72
GN 113.20-12-25-T-C	12	25	14.5	18.2	10.6	34.7	59.1	20.2	12	144	72
GN 113.20-12-30-T-A	12	30	14.5	18.2	10.6	34.7	59.1	20.2	12	87	77
GN 113.20-12-30-T-C	12	30	14.5	18.2	10.6	34.7	59.1	20.2	12	144	77
GN 113.20-12-35-T-A	12	35	14.5	18.2	10.6	34.7	59.1	20.2	12	87	81
GN 113.20-12-35-T-C	12	35	14.5	18.2	10.6	34.7	59.1	20.2	12	144	81
GN 113.20-12-40-T-A	12	40	14.5	18.2	10.6	34.7	59.1	20.2	12	87	85
GN 113.20-12-40-T-C	12	40	14.5	18.2	10.6	34.7	59.1	20.2	12	144	85
GN 113.20-12-45-T-A	12	45	14.5	18.2	10.6	34.7	59.1	20.2	12	87	89
GN 113.20-12-45-T-C	12	45	14.5	18.2	10.6	34.7	59.1	20.2	12	144	89
GN 113.20-12-50-T-A	12	50	14.5	18.2	10.6	34.7	59.1	20.2	12	87	94
GN 113.20-12-50-T-C	12	50	14.5	18.2	10.6	34.7	59.1	20.2	12	144	94
GN 113.20-12-60-T-A	12	60	14.5	18.2	10.6	34.7	59.1	20.2	12	87	102
GN 113.20-12-60-T-C	12	60	14.5	18.2	10.6	34.7	59.1	20.2	12	144	102
GN 113.20-12-70-T-A	12	70	14.5	18.2	10.6	34.7	59.1	20.2	12	87	111
GN 113.20-12-70-T-C	12	70	14.5	18.2	10.6	34.7	59.1	20.2	12	144	111
GN 113.20-12-80-T-A	12	80	14.5	18.2	10.6	34.7	59.1	20.2	12	87	119
GN 113.20-12-80-T-C	12	80	14.5	18.2	10.6	34.7	59.1	20.2	12	144	119

