

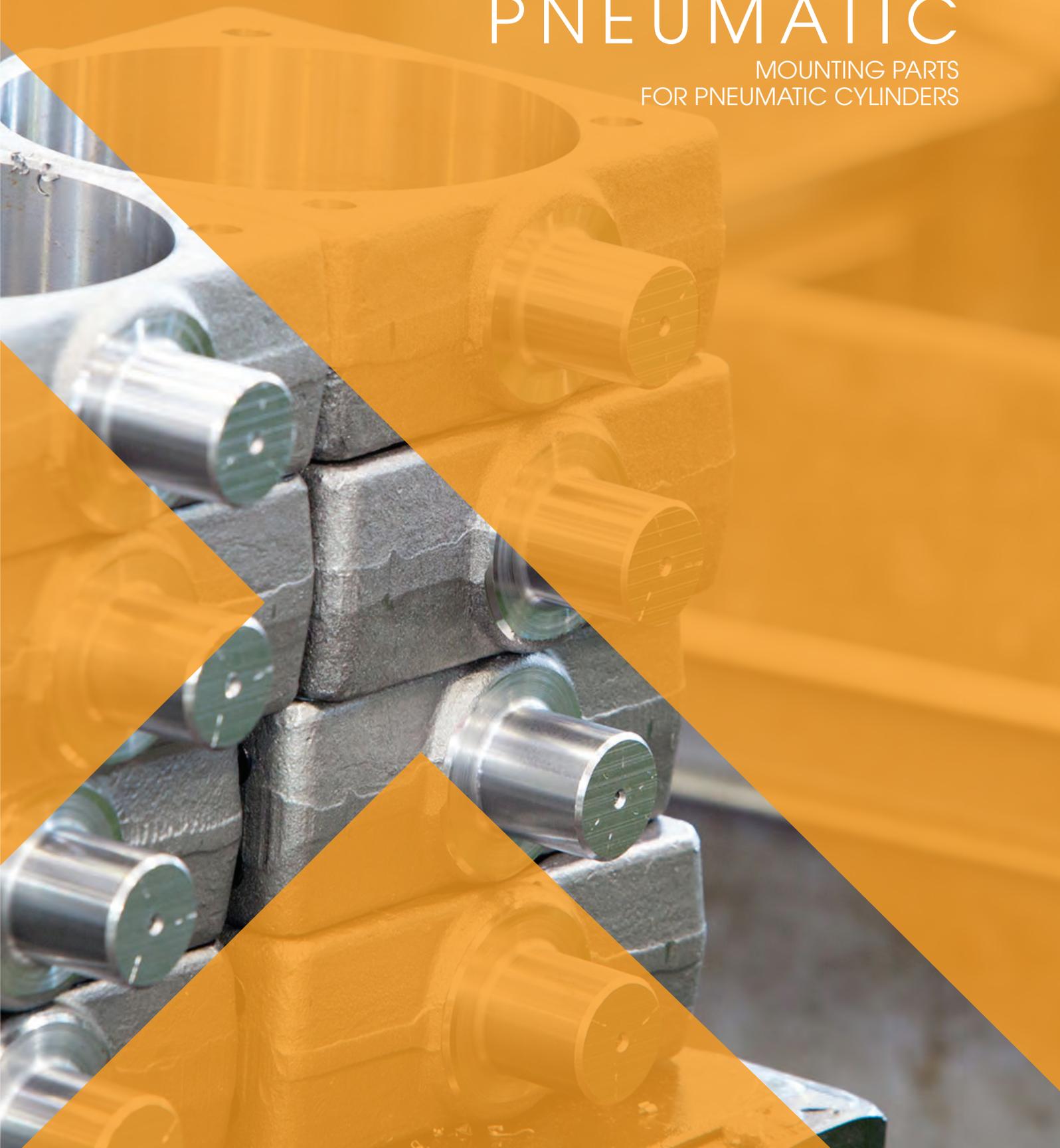


PNEUMATICS USA

MOUNTING PARTS FOR PNEUMATIC CYLINDERS • MADE IN ITALY

# PNEUMATIC

MOUNTING PARTS  
FOR PNEUMATIC CYLINDERS





## WE'RE BRIDGING THE DISTANCE

NR PNEUMATICS USA, Corp. is the brand new American company that will distribute our products (100% made in Italy by NR NISOLI Srl) in North America. Headquarters in NYC and warehouse in Dayton, OH. You will find the same high quality products, quicker delivery, prices in USD! Discover this new purchase opportunity and find us on [www.nrpneumatics.com](http://www.nrpneumatics.com)





We are pleased to inform you that we recently opened in the United States a subsidiary of NR NISOLI: **NR Pneumatics USA, Corp.** (100% owned by NR NISOLI Italy). The headquarters will be in New York and the warehouse is located in Dayton, OH. This new company will work as a distribution hub for the products manufactured by NR NISOLI in Italy.

The key points of this new purchase option:

- **American company**
- **Warehouse located in the U.S.A.**
- **Pricelist in USD**

The advantages will be:

- **You don't have to care about duties**, freight and all other connected to import from Europe
- **Quick delivery**: goods in stock will be immediately available. (No need to wait for import or groupage)
- **No worries about currency**: you'll pay in USD to an American company
- **Office in NYC** available for basic support

We specialize in the sale of NRNISOLI brand mounting parts and supports for pneumatic cylinders that meet the following regulations:

- NFPA
- ISO 15552
- ISO 6432 Mini-cylinders
- ISO 21287 - COMPACT
- CNOMO
- CETOP

**On the road together.  
Always closer.**

## ABOUT US

As of November 2020, **NR PNEUMATICS USA Corp.** has been open for business with offices in New York and a logistics center in Dayton -OH- to market the mounting parts for pneumatic cylinders produced in Italy by NR DI NISOLI SRL.

**NR PNEUMATICS USA Corp.** was established in New York City in 2020 to market mounting parts for pneumatic cylinders produced in Italy. The logistics and distribution center is in Dayton -OH-. We are able to optimize deliveries thanks to this strategic position.

**NR di NISOLI srl** mounting parts are synonymous with quality and reliability throughout the automation world. Today more than 70% of production is exported all over the world.

Our customer portfolio includes the best known and most qualified international manufacturers in the pneumatic automation sector.

Aware that the **fundamental component** of any process (production, quality, logistical, administrative) is the **"Person"**, we are committed to ensuring that all our collaborators are **constantly updated on new technologies**.

### OUR STRENGTH? PROFESSIONALISM

Our greatest strength lies in providing accessories for pneumatic cylinders of the highest quality supported by a pre and post-sales commercial and technical service.

# THE COMPANY

**50-YEAR  
MARKET LEADERSHIP**  
FOR MOUNTING PARTS  
FOR PNEUMATIC CYLINDERS



# PRODUCTION

## **Specialized technicians who make the difference**

NR di NISOLI srl has a vast fleet of certified machines in Italy to always perform the best processes in terms of accuracy and precision. We also produce customized mounting parts according to customer requests.

## **WIDE RANGE AND POSSIBILITY OF CUSTOMIZATION**

NR di Nisoli produces a wide range of products in Italy made of aluminum, steel and stainless steel according to different standards (ISO 15552, ISO 6432, ISO 21287 FOR COMPACT, CETOP, CNOMO, NFPA). Thanks to the experience gained, we can offer study, design and production services for customized products and packaging.

## **Why choose NR di NISOLI srl mounting parts for pneumatic cylinders?**

NR di NISOLI srl has a vast fleet of certified machines in Italy to always perform the best precise and accurate processes.

## **Our Italian production**

The production plants in Italy are kept constantly updated, checked and maintained.

## **HIGH LEVEL OF QUALITY AND PRECISION**

The **machine fleet** is made up of highly technological means for the production of large volumes of mounting parts for standard or customized products.

Production is guaranteed by:

- 7 CNC work centers
- 4 CNC lathes
- 2 Transfers
- 6 Robots for system loading/unloading

Processing precision and accuracy.

This **organization** allows us to maintain a **high level of quality** of our products and accuracy of processing. The **production plants** are kept **constantly updated**, periodically checked and maintained.

We can guarantee a high degree of project accuracy in the production of customized mounting parts, respecting the design during the construction phase.

5 automated vertical warehouses.

In 2015 we invested in logistics management, introducing 5 automated vertical warehouses. This innovation has allowed us to improve purchase planning and the management of semi-finished products, making production flows more fluid and streamlined and reducing product delivery times.

## **CONSTANTLY UPDATED ON NEW TECHNOLOGIES**

The CNC equipment, tools and programming methods have been designed to be flexible and to allow the production to respond promptly to **market demand peaks**, without slowing delivery times.

## **Our goal?**

Optimize the stability of the production process and make products **meet the specifications** requested by our customers.



## QUALITY

**Certified since 1994.**

Our production in Italy obtained Quality Certification in 1994 according to the UNI EN ISO 9001 standard **issued** by the certification body **DNV-GL**.

### CERTIFIED IN WHAT WE KNOW HOW TO DO BEST: PRODUCTION

The reliability of our process and compliance with the standards required by customers are based on:

- the quality control system in the phases of acceptance, mechanical processing and storage (WIP and PF);
- constant updating of measurement and control instruments;
- the modernity of measurement and control instruments;
- the professionalism of our collaborators, constantly trained and update

## BEYOND FIFTY YEARS OLD HISTORY

**1968**

Company Nisoli Alessandro & Resmini Mario is founded: main activities are mechanical works and turning

**1974**

Production of mounting parts for pneumatic cylinders is started for Italian market

**1993**

NR mounts are exported to all European countries

**1994**

Company Nisoli & Resmini SRL is given the Management System Certificate ISO 9001:2008 by DNV GL BUSINESS ASSURANCE

**2000**

NR moves to a new plant growing up to 7.500 sqm covered surface and 17.000 sqm total area

**2006**

NR starts a partnership with the biggest producers of pneumatic cylinders in the world and exports increase steadily

**2008**

NR widens its range of production by introducing mounts in stainless steel

**2014**

Nisoli & Resmini SRL becomes NR di Nisoli Srl

**2016**

New NR company certifies its quality with the standard ISO 9001:2015

**2017**

NFPA mounts start to be developed as well as big sizes in steel

**2018**

The NR NISOLI is a registered trademark. Celebrated the 50th year of activity

**2020**

NR PNEUMATICS USA  
Starts its business  
Headquarters: New York City  
Logistics: Dayton (OH)

# CHARACTERISTICS OF THE TREATMENTS

## WHITE ZINC COATING

This is the only process complete with hexavalent chrome-free products available worldwide that meet all existing, and many future, zinc and zinc alloy passivation requirements. The process meet all EOLV-ROHS Directives through their use of trivalent chromium and pass all automotive industry test requirements, including GM 3034. The perfect drop-in replacement for hex-based offerings, they have all been rigorously tested and used in some of the world's largest, full scale industrial conditions, ensuring that they meet the highest specifications from applicators and end users. This treatment gives high performance alternatives to hex chrome that not only reduce "white rust" but also deliver exceptional cosmetic appearance.

### CHEMICAL PHYSICAL CHARACTERISTICS

Thickness microns	6 -14
Saline Mist Resistance (hours)	6 / 96 (UNI 9227/93)

## BLACK CATAPHORESIS

The coating of the metallic surfaces by means of the cataphoresis process lends high protection characteristics against atmospheric agents to the products. The a.m. process, performed by immersion with electric power application enables, by means of electro-deposition, an anticorrosive protection also of the parts, which aren't reachable by a traditional spray system (tinted, deep foldings, junctions, ...) and it is used in industrial vehicles, tractors, air-conditioning, heating units, ... The cataphoresis process and the following finishing cycles, enamels or powders make the products highly resistant against corrosion.

### CATAPHORESIS

A priming system technically advanced, particularly suitable for the pieces requiring high protection against atmospheric agents, with diluted alkalis and acids.

### PROCESS

Degreasers, activation, zinc salts phosphating, cathodic electrodeposition with epoxy products modified in immersion and following netting in furnace.

### CHEMICAL PHYSICAL CHARACTERISTICS

Thickness microns	12 - 30
Saline Mist Resistance (hours)	500 / 700 (ASTM-B117)
Resistance to impacts	70 Kg
UV resistance	Good
Hardness (pencil)	5H
Adhesion to the squaring	98 / 100% (UNICHIM)
Folding by means of chuck	no fissuration
Alkali resistance (not saponifiable)	Good
Hydrocarbons resistance	Very good

## CHEMICAL NICKEL-PLATING

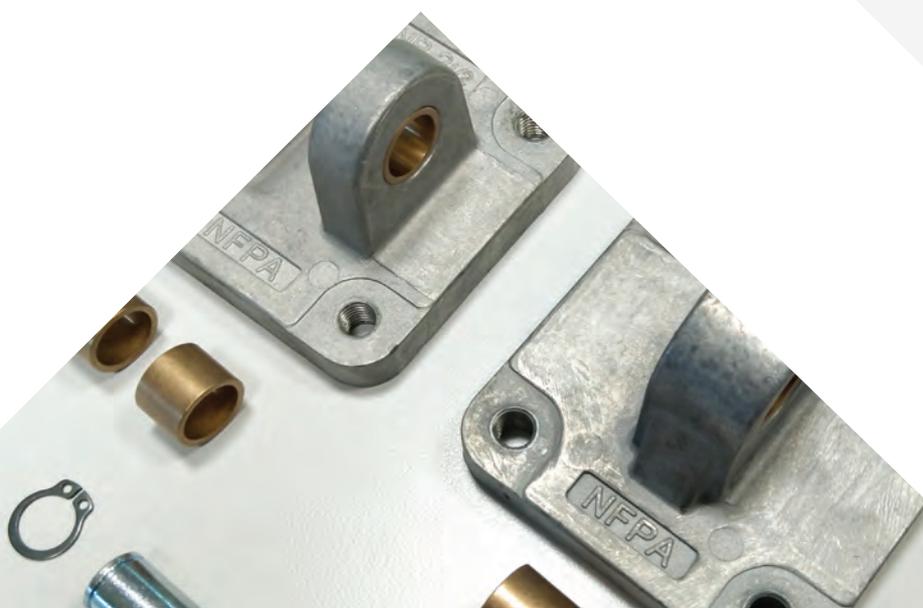
The process of chemical nickel-plating allows to coat, with a layer (thickness  $10\mu\text{m} \div 50\mu\text{m}$ ) consisting essentially of nickel (90%) and phosphorus (10%), the surfaces of a mechanical component, in order to improve the surface characteristics in terms of hardness, resistance to wear and corrosion.

## CUSTOMIZATIONS

As producers, we can meet your supply requirements of non-standard items or special workings. Our staff will take care of your requests by offering the best technical support targeted to your needs.

## USEFUL INFORMATION

Single Packaging is available on request, as well as accessories and customized label.



# CHARACTERISTICS OF ALUMINIUM

## NORM EN AB 46100

### CHEMICAL COMPOSITION

%	Fe	Mn	Mg	Si	Cu	Sn	Zn	Ti	Ni	Pb	Others	Alu
max	1,00	0,50	0,30	12,50	2,50	0,10	0,80	0,15	0,30	0,15	0,25	REST
min	0,70			11,00	1,75						TOT	

### MECHANICAL PROPERTIES

ON TEST TUBE UNI 3039		R N/mm <sup>2</sup>	Rp 0,2 N/mm <sup>2</sup>	A %	HB
max		295	195	2	100
min		265	155	1	85

### TECHNOLOGY CHARACTERISTICS

Specific weight	2,67 kg/dm <sup>3</sup>
Fusion point inferior	505°C
Fusion point superior	585°C
Specific heat (to 100°C)	~ 23 cal/g
Latent heat of fusion	~ 93 cal/g
Conductibility thermally	0,33 cal/cm sec °c
Module of elasticity	7.600 Kg/mm <sup>2</sup>
Maximum temperature of fusion	750°C
Interval of casting under pressure	600-700°C
Linear retirement	-0,70%
Castingility	good
Machinability	sufficient
Burnishility	sufficient
Mechanics resistance to warm	sufficient
Fragility of retirement	little
Tenure to pressure	sufficient
Corrosions resistance	sufficient

# CHARACTERISTICS OF STEEL AND STAINLESS STEEL

DESCRIPTION	%	C	Mn	P	S	Si	Cr	Ni	Cu	Mo
Steel > ASTM A-105 / DIN C21	max	0,350	1,050	0,035	0,040	0,350	0,300	0,400	0,040	0,120
	min		0,600			0,100				
Steel > S235JRG2 / EN 10025	max	0,170	1,400	0,045	0,045					
	min									
Stainless Steel > AISI 304 / WST 1.4301	max	0,070	2,000	0,045	0,015	1,000	19,500	10,500		
	min						17,000	8,000		
Stainless Steel > AISI 316 / WST 1.4401	max	0,070	2,000	0,045	0,015	1,000	18,500	13,000		2,500
	min						16,500	10,000		2,000

## MECHANICAL PROPERTIES

DESCRIPTION		R N/mm <sup>2</sup>	Rp 0,2 N/mm <sup>2</sup>	A %	HB	KV
Steel > ASTM A-105 / DIN C21	max				187	
	min	485	250	22		
Steel > S235JRG2 / EN 10025	max	710				
	min	420	300	9		
Stainless Steel > AISI 304 / WST 1.4301	max	700			215	100
	min	500	190	45		
Stainless Steel > AISI 316 / WST 1.4401	max	700			215	100
	min	500	200	40		

# INDEX

ALUMINIUM  
PAG. 12



NFPA INTER-  
CHANGEABLE  
NORM

ALUMINIUM  
PAG. 14



ISO 15552  
NORM

STEEL  
PAG. 19



STAINLESS  
STEEL  
PAG. 29



ALUMINIUM  
PAG. 35



CNOMO  
NORM

STEEL  
PAG. 38



ISO 6432  
NORM  
FOR MINI  
CYLINDERS



STEEL  
PAG. 41



STAINLESS  
STEEL  
PAG. 43

FOR  
COMPACT  
CYLINDERS



ALUMINIUM  
PAG. 45



STEEL  
PAG. 47

ISO 6431  
NORM



ALUMINIUM  
PAG. 52

CETOP  
NORM



ALUMINIUM  
PAG. 54



STEEL  
PAG. 56

# ALUMINIUM

PAG. 12



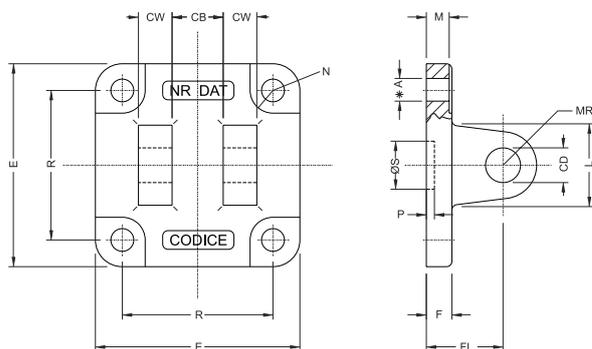
## NFPA INTER-CHANGEABLE NORM



TREATMENT  
black cataphoresis | zinc coating | nickel-plating

### NFPA INTERCHANGEABLE NORMS

## FEMALE HINGE MP2



#### CODE ORDERING

**NF03** / diam.

**NF03** / diam.  
NOT THREADED AND WITHOUT BUSHES

**NF03T** / diam.  
WITH THREADED HOLES WITHOUT BUSHES

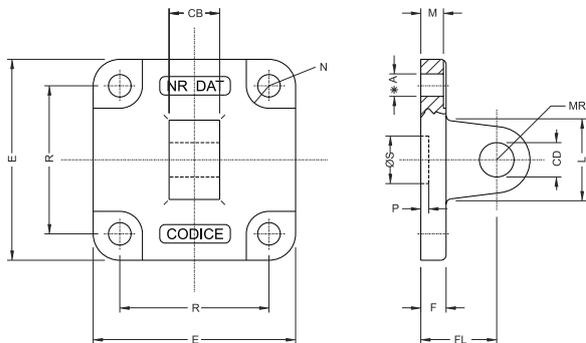
**NF50** / diam.  
WITH BUSHES

**NF50T** / diam.  
WITH BUSHES AND THREADED HOLES

D.cil.	E	R	A	$+0,010$ 0	CW	CB	F	MR	FL	CD	L	M	N	S	P
	$\pm 0,025$	$\pm 0,010$	THREAD	SMOOTH	0 -0,025	0,020 0	max	max	$\pm 0,010$	$+0,002$ 0	$\pm 0,020$ $\pm 0,020$	$\pm 0,020$ $\pm 0,020$	$+0,020$ 0	$+0,020$ 0	$+0,012$ 0
1 1/2	2.000	1.430	1/4	0,280	0,500	0,750	0,395	0,472	1,125	0,500	0,945	0,375	0,236		
2	2.500	1.840	5/16	0,340	0,500	0,750	0,395	0,551	1,125	0,500	1,102	0,375	0,335		
2 1/2	3.000	2.190	5/16	0,340	0,500	0,750	0,395	0,625	1,125	0,500	1,369	0,375	0,335	0,787	0,118
3 1/4	3.750	2.760	3/8	0,410	0,625	1,250	0,645	0,875	1,875	0,750	1,829	0,625	0,423		
4	4.500	3.320	3/8	0,410	0,625	1,250	0,645	0,937	1,875	0,750	2,032	0,625	0,423		

Material: aluminium

# MALE HINGE MP2



D.cil.	E ±0,025	R ±0,010	A THREAD	+0,010 0 SMOOTH	CB 0 -0,020	F max	MR max	FL ±0,010	CD +0,002 0	L ±0,020	M ±0,020	N +0,020 0	S +0,020 0	P +0,012 0
1 1/2	2,000	1,430	1/4 <sub>28</sub>	0,280	0,750	0,395	0,500	1,125	0,500	1,000	0,375	0,236		
2	2,500	1,840	5/16 <sub>24</sub>	0,340	0,750	0,395	0,551	1,125	0,500	1,102	0,375	0,335		
2 1/2	3,000	2,190	5/16 <sub>24</sub>	0,340	0,750	0,395	0,625	1,125	0,500	1,369	0,375	0,335	0,787	0,118
3 1/4	3,750	2,760	3/8 <sub>24</sub>	0,410	1,250	0,645	0,875	1,875	0,750	1,829	0,625	0,423		
4	4,500	3,320	3/8 <sub>24</sub>	0,410	1,250	0,645	0,937	1,875	0,750	2,032	0,625	0,423		



CODE ORDERING

**NF04** / diam.

**NF04** / diam.  
NOT THREADED AND WITHOUT BUSHES

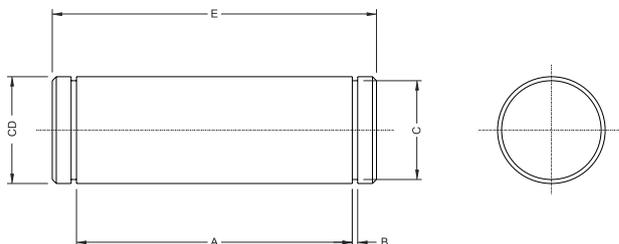
**NF04T** / diam.  
WITH THREADED HOLES WITHOUT BUSHES

**NF30** / diam.  
WITH BUSHES

**NF30T** / diam.  
WITH BUSHES AND THREADED HOLES

Material: aluminium

# PIVOT FOR FEMALE HINGE MP2



D.cil.	A +0,015 0	B	C -0,008 -0,002	CD 0 -0,004	E ±0,030
1 1/2	1,875	0,041	0,468	0,500	2,094
2	1,875	0,041	0,468	0,500	2,094
2 1/2	1,875	0,041	0,468	0,500	2,094
3 1/4	2,625	0,048	0,704	0,750	2,875
4	2,625	0,048	0,704	0,750	2,875



CODE ORDERING

**NF07** / diam.

Material: steel  
Treatment: white zinc coating

## ALUMINIUM

PAG. 14



## STEEL

PAG. 19



## STAINLESS STEEL

PAG. 29

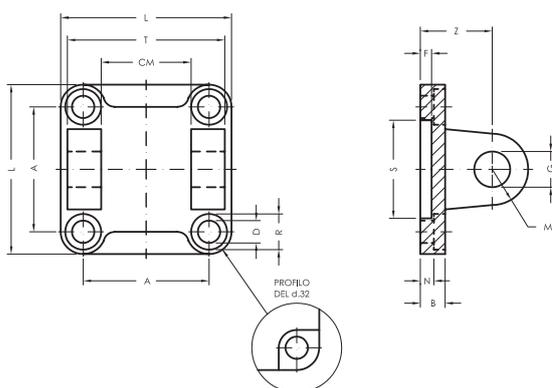


# ISO 15552 NORM

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

## ISO 15552 NORM

# FEMALE HINGE MP2



CODE ORDERING

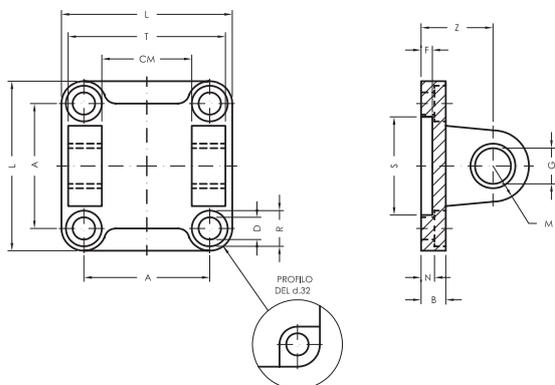
**US03** / diam.

Weight p890 (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	B	S H 11	F	Z ±0.2	G H 9	M max	CM H 14	T h 14
48	32	32.5	45	6.6	11	5.5	9	30	5	22	10	10	26	45
75	40	38	52	6.6	11	5.5	9	35	5	25	12	12	28	52
124	50	46.5	65	9	15	6.5	11	40	5	27	12	12	32	60
192	63	56.5	75	9	15	6.5	11	45	5	32	16	16	40	70
380	80	72	95	11	18	10	14	45	5	36	16	16	50	90
620	100	89	115	11	18	10	14	55	5	41	20	20	60	110
1180	125	110	140	14	20	10	20	60	7	50	25	25	70	130
1780	160	140	180	18	26	10	20	65	7	55	30	25	90	170
2900	200	175	220	18	26	11	25	75	7	60	30	25	90	170
5800	250	220	270	22	33	11	25	90	-	70	40	40	110	200
10550	320	270	350	26	39	15	30	110	-	80	45	45	120	220

Material: aluminium

ISO 15552 NORM

# FEMALE HINGE MP2 WITH BUSHES



CODE ORDERING

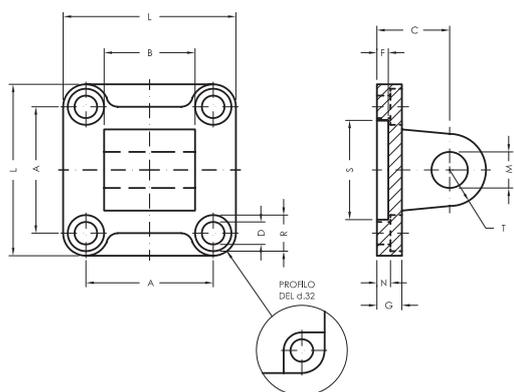
**US50** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	B	S H 11	F	Z ±0.2	G H 9	Q H 7	M max	CM H 14	T h 14
48	32	32.5	45	6.6	11	5.5	9	30	5	22	10	12	10	26	45
75	40	38	52	6.6	11	5.5	9	35	5	25	12	14	12	28	52
124	50	46.5	65	9	15	6.5	11	40	5	27	12	14	12	32	60
192	63	56.5	75	9	15	6.5	11	45	5	32	16	18	16	40	70
380	80	72	95	11	18	10	14	45	5	36	16	18	16	50	90
620	100	89	115	11	18	10	14	55	5	41	20	23	20	60	110
1180	125	110	140	14	20	10	20	60	7	50	25	28	25	70	130
1780	160	140	180	18	26	10	20	65	7	55	30	34	25	90	170
2900	200	175	220	18	26	11	25	75	7	60	30	34	25	90	170
5800	250	220	270	22	33	11	25	90	-	70	40	44	40	110	200
11000	320	270	350	26	39	15	30	110	-	80	45	50	45	120	220

Material: aluminium  
Note: Bushing in sintered steel

ISO 15552 NORM

# MALE HINGE MP4



CODE ORDERING

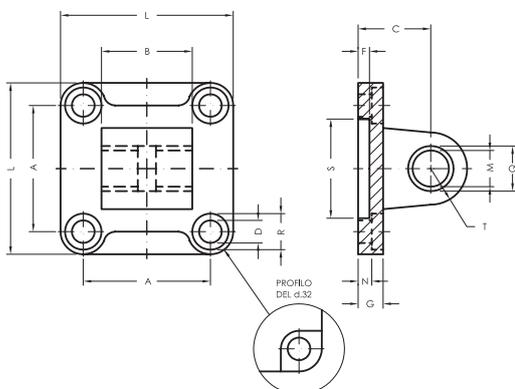
**US04** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	G	S H 11	F	C ±0.2	M H 9	T max	B
54	32	32.5	45	6.6	11	5.5	9	30	5	22	10	10	26
76	40	38	52	6.6	11	5.5	9	35	5	25	12	12	28
124	50	46.5	65	9	15	6.5	11	40	5	27	12	12	32
212	63	56.5	75	9	15	6.5	11	45	5	32	16	16	40
420	80	72	95	11	18	10	14	45	5	36	16	16	50
666	100	89	115	11	18	10	14	55	5	41	20	20	60
1264	125	110	140	14	20	10	20	60	7	50	25	25	70
1846	160	140	180	18	26	10	20	65	7	55	30	25	90
2950	200	175	220	18	26	11	25	75	7	60	30	25	90
6200	250	220	270	22	33	11	25	90	11	70	40	40	110
11300	320	270	350	26	39	15	30	110	11	80	45	45	120

Material: aluminium

ISO 15552 NORM

# MALE HINGE MP4 WITH BUSHES



CODE ORDERING

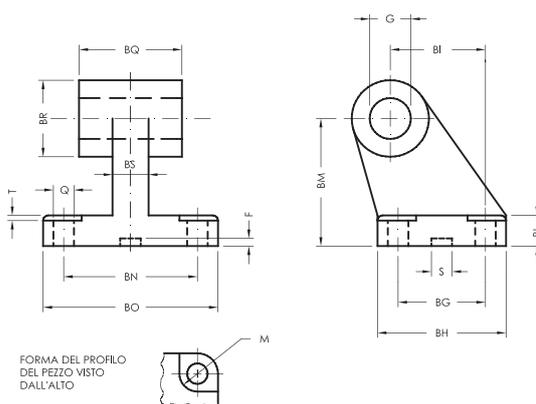
**US30** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	G	S H 11	F	C ±0.2	Q F 7	M H 9	T max	B
54	32	32.5	45	6.6	11	5.5	9	30	5	22	12	10	10	26
76	40	38	52	6.6	11	5.5	9	35	5	25	14	12	12	28
124	50	46.5	65	9	15	6.5	11	40	5	27	14	12	12	32
212	63	56.5	75	9	15	6.5	11	45	5	32	18	16	16	40
420	80	72	95	11	18	10	14	45	5	36	18	16	16	50
666	100	89	115	11	18	10	14	55	5	41	23	20	20	60
1264	125	110	140	14	20	10	20	60	7	50	28	25	25	70
1846	160	140	180	18	26	10	20	65	7	55	34	30	25	90
2950	200	175	220	18	26	11	25	75	7	60	34	30	25	90
6200	250	220	270	22	33	11	25	90	11	70	44	40	40	110
11300	320	270	350	26	39	15	30	110	11	80	50	45	45	120

Material: aluminium  
Note: Bushing in sintered steel

ISO 15552 NORM

# SQUARE JOINT CETOP RP107P



CODE ORDERING

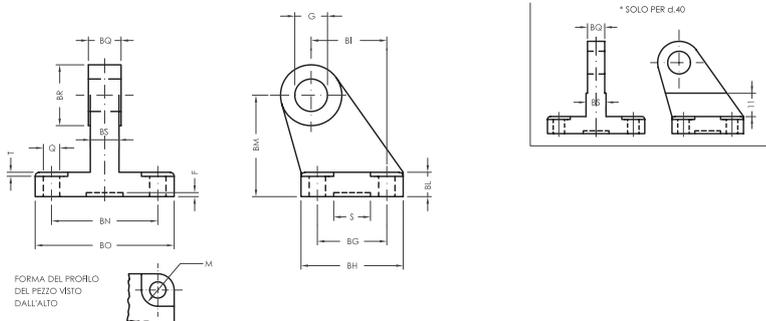
**US57** / diam.

Weight peso (g)	D.cil.	Q H 13	M H 13	BG JS 14	BH max	BI JS 14	BL	BM JS 15	BN JS 14	BO max	BS max	BR max	T max	G H 9	S +0.5 0	F +0.5 0	BO
56	32	6.6	11	18	31	21	8	32	38	51	10	20	1.6	10	10.5	3	26
139	40	6.6	11	22	35	24	10	36	41	54	15	22	1.6	12	10.5	3	28
142	50	9	15	30	45	33	12	45	50	65	16	26	1.6	12	10.5	3	32
200	63	9	15	35	50	37	14	50	52	67	16	30	1.6	16	10.5	3	40
312	80	11	18	40	60	47	14	63	66	86	20	30	2.5	16	10.5	3	50
656	100	11	18	50	70	55	17	71	76	96	20	38	2.5	20	10.5	3	60
826	125	14	20	60	90	70	20	90	94	124	30	45	3.2	25	10.5	3	70
2600	160	14	20	88	126	97	25	115	118	156	36	63	4	30	-	-	90
3250	200	18	26	90	130	105	30	135	122	162	40	63	4	30	-	-	90
5700	250	22	33	110	160	128	35	165	150	200	45	80	4.5	40	-	-	110

Material: aluminium

ISO 15552 NORM

# SQUARE JOINT CETOP RP107P FOR FORK DIN 71752



Weight peso (g)	D.cil.	Q H 13	M H 13	BG JS 14	BH max	BI JS 14	BL JS 15	BM JS 14	BN JS 14	BO max	BS max	BR max	T max	G H 9	S +0.5/0	F +0.5/0	BQ -0.2/-0.6
43	32	6.6	11	18	31	21	8	32	38	51	9.4	20	1.6	10	10.5	3	10
68	40	6.6	11	22	35	24	10	36	41	54	15	-	1.6	12	10.5	3	12
115	50	9	15	30	45	33	12	45	50	65	15.4	26	1.6	16	10.5	3	16
169	63	9	15	35	50	37	14	50	52	67	15.4	30	1.6	16	10.5	3	16
260	80	11	18	40	60	47	14	63	66	86	19.4	30	2.5	20	10.5	3	20
426	100	11	18	50	70	55	17	71	76	96	19.4	38	2.5	20	10.5	3	20
800	125	14	20	60	90	70	20	90	94	124	30	45	3.2	30*	10.5	3	25/30
2500	160	14	20	88	126	97	25	115	118	156	36	63	4	35	-	-	35
3100	200	18	26	90	130	105	30	135	122	162	40	63	4	35	-	-	35
5500	250	22	33	110	160	128	35	165	150	200	45	80	4.5	42	-	-	42

\* on request 25



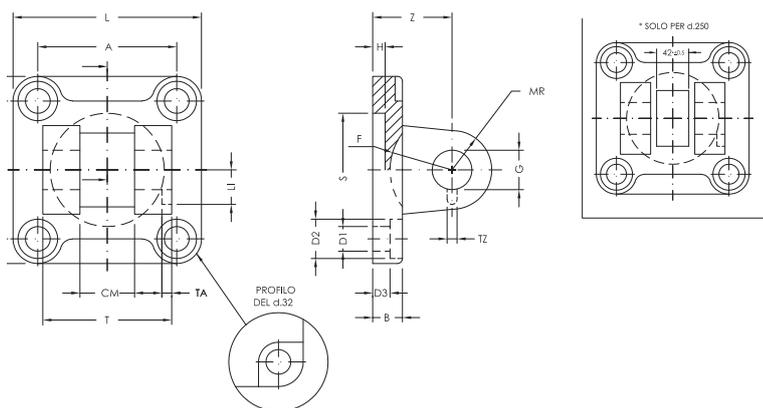
CODE ORDERING

**US57** BIS / diam.

Material: aluminium

ISO 15552 NORM

# NARROW FEMALE HINGE



Weight peso (g)	D.cil.	L ±0.5	T d 12	CM H 14	A ±0.2	Z ±0.2	H +1/0	B	D3 ±0.5	S H 12	G F 7	MR +1/0	D1 +0.4/-0.2	D2 +0.2/0	TA +0.2/0	TZ +0.2/0	LI +0.3/0	F min
42	32	45	34	14	32.5	22	5	9	5.5	30	10	10	6.6	11	3	3.3	11.5	17
70	40	52	40	16	38	25	5	9	5.5	35	12	12	6.6	11	4	4.3	12	20
112	50	65	45	21	46.5	27	5	11	6.5	40	16	14	9	15	4	4.3	14	22
194	63	75	51	21	56.5	32	5	11	6.5	45	16	18	9	15	4	4.3	14	25
382	80	95	65	25	72	36	5	14	10	45	20	20	11	18	4	4.3	16	30
610	100	115	75	25	89	41	5	14	10	55	20	22	11	18	4	6.3	16	32
1100	125	140	97	37	110	50	7	20	10	60	30	25	14	20	6	6.3	24	42
2030	160	180	122	43	140	55	7	20	10	65	35	30	18	26	6	6.3	26.5	46
3400	200	220	122	43	175	60	7	25	11	75	35	30	18	26	6	6.3	26.5	49
5400	250	270	125	49	220	70	11	25	11	90	40	40	22	33	8.5	8.3	32	55 <sup>+0.5/0</sup>
10100	320	350	150	60	270	80	11	30	15	110	50	50	22	33	8.5	8.3	32	65 <sup>+0.5/0</sup>



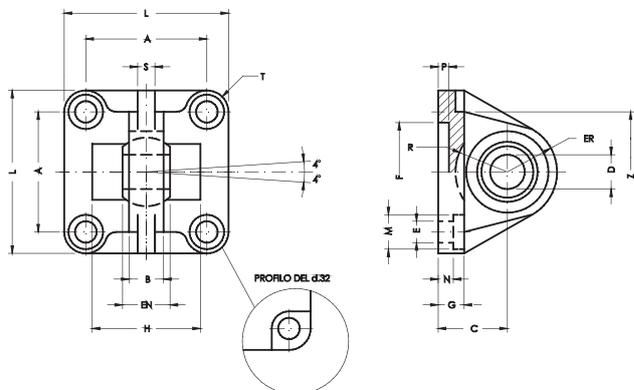
CODE ORDERING

**US56** / diam.

Material: aluminium

ISO 15552 NORM

# NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K



CODE ORDERING

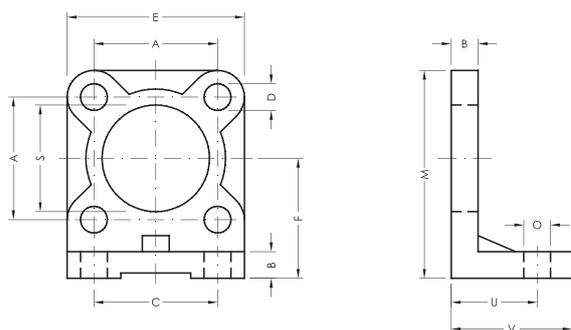
**US53** / diam.

Weight peso (g)	D.cil. ±0.2	A ±0.2	B max	C JS 15	D H 7	EN 0 -0.1	ER max	F H 11	G	E H 13	L H 13	M H 13	N ±0.5	P ±0.5	H ±0.5	R ±0.5	S	Z	T
62	32	32.5	10.5	22	10	14	16	30	9	6.6	45	11	5.5	5	-	-	4	32.5	6.25
100	40	38	12	25	12	16	19	35	9	6.6	52	11	5.5	5	-	-	6	39	7
180	50	46.5	15	27	16	21	21	40	11	9	65	15	6.5	5	51	18	8	47	9.25
244	63	56.5	15	32	16	21	24	45	11	9	75	15	6.5	5	-	-	8	52	9.25
476	80	72	18	36	20	25	28.5	45	14	11	95	18	10	5	72	24	10	67	11.5
646	100	89	18	41	20	25	30	55	14	11	115	18	10	5	-	-	10	77	13
1410	125	110	25	50	30	37	40	60	20	13.5	140	20	10	7	-	-	13	98	15
2420	160	140	28	55	35	43	45	65	20	18	180	26	10	7	-	-	14	130	20
3840	200	175	28	60	35	43	48	75	25	18	220	26	11	7	-	-	14	155	22.5
5850	250	220	33	70	40	49	52	90	25	22	270	33	11	11	-	-	19	205	25
11850	320	270	45	80	50	60	63	110	30	22	350	33	11	11	-	-	-	-	28

Material: aluminium

ISO 15552 NORM

# HIGH RISE PEDESTAL



CODE ORDERING

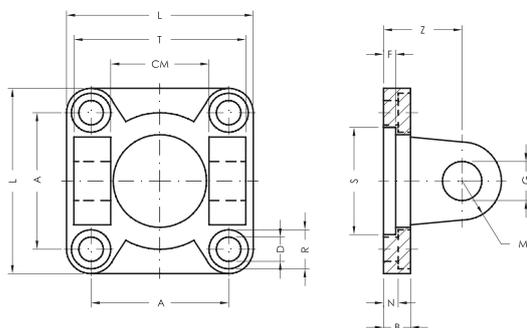
**US35** / diam.

Weight peso (g)	D.cil. ±0.2	A ±0.2	B	C ±0.2	D +0.3 0	E	F ±0.2	M	O +0.3 0	S +0.3 0	U ±0.2	V
46	32	32.5	8	32	7	45	32	54.5	7	30	24	35
66	40	38	8	36	7	52	36	62	9	35	28	35
138	50	46.5	10	45	9	65	45	77.5	9	40	32	45
174	63	56.5	10	50	9	75	50	87.5	9	45	32	45
356	80	72	12	63	11	95	63	110.5	12	45	41	55
468	100	89	12	75	11	115	71	128	14	55	41	56
920	125	110	16	90	14	140	91	161	16	60	45	68
2300	160	140	20	115	18	180	115	205	18	65	60	82
3200	200	175	20	135	18	220	135	245	22	75	70	90

Material: aluminium

ISO 15552 NORM

# FEMALE HINGE MP2



CODE ORDERING

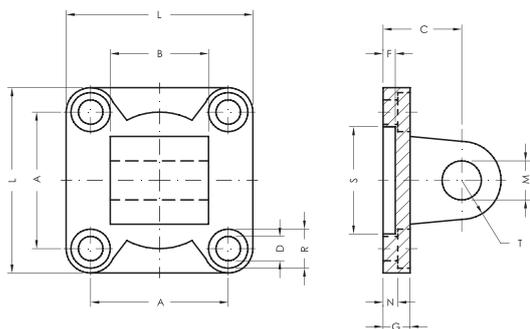
**US17** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	B	S H 11	F	Z ±0.2	G H 9	M max	CM H 14	T h 14
138	32	32.5	45	6.6	11	5.5	10	30	5	22	10	10	26	45
230	40	38	55	6.6	11	5.5	10	35	5	25	12	12	28	52
338	50	46.5	65	9	15	6.5	10	40	5	27	12	12	32	60
540	63	56.5	75	9	15	6.5	12	45	5	32	16	16	40	70
1000	80	72	95	11	18	10	14	45	-	36	16	16	50	90
1700	100	89	115	11	18	10	16	55	-	41	20	20	60	110
3350	125	110	140	13.5	20	10	20	60	-	50	25	25	70	130
5750	160	140	180	18	26	10	20	65	7	55	30	25	90	170
8900	200	175	220	18	26	11	20	75	7	60	30	25	90	170
15900	250	220	270	22	33	11	25	90	11	70	40	40	110	200
30750	320	270	350	26	39	15	30	110	11	80	45	45	120	220

Material: steel  
Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# MALE HINGE MP4



**US19** / diam.

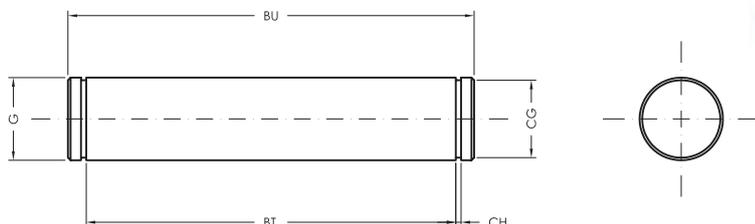
Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	G	S H 11	F	C ±0.2	M H 9	T max	B
176	32	32.5	45	6.6	11	5.5	10	30	5	22	10	10	26
274	40	38	55	6.6	11	5.5	10	35	5	25	12	12	28
368	50	46.5	65	9	15	6.5	10	40	5	27	12	12	32
682	63	56.5	75	9	15	6.5	12	45	5	32	16	16	40
1196	80	72	95	11	18	10	14	45	5	36	16	16	50
2100	100	89	115	11	18	10	16	55	5	41	20	20	60
3740	125	110	140	13.5	20	10	20	60	7	50	25	25	70
5890	160	140	180	18	26	10	20	65	7	55	30	25	90
8470	200	175	220	18	26	11	20	75	7	60	30	25	90
16850	250	220	270	22	33	11	25	90	11	70	40	40	110
31750	320	270	350	26	39	15	30	110	11	80	45	45	120

Material: steel  
Treatment: white zinc coating or black cataphoresis



ISO 15552 NORM

# PIN FOR FEMALE HINGE MP2



CODE ORDERING

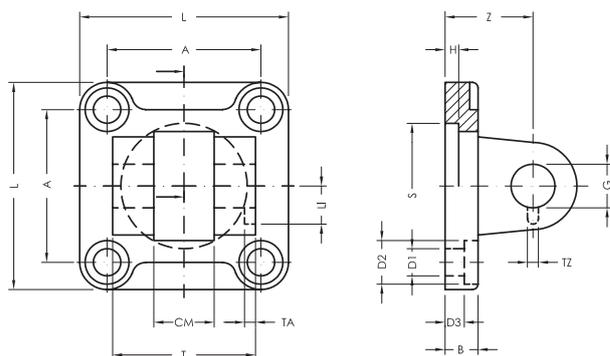
**US07** / diam.

Weight peso (g)	D.cil.	G e 8	BT +0.3 0	CG	CH H 13	BU
32	32	10	46	9.6	1.1	53
52	40	12	53	11.5	1.1	60
60	50	12	61	11.5	1.1	68
122	63	16	71	15.2	1.1	78
152	80	16	91	15.2	1.1	98
290	100	20	111	19	1.3	118
530	125	25	132	23.9	1.3	139
978	160	30	171.5	28.6	1.6	178
978	200	30	171.5	28.6	1.6	178
2100	250	40	202	37.5	1.85	211
2950	320	45	222	42.5	1.85	236

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# MALE HINGE MP4



CODE ORDERING

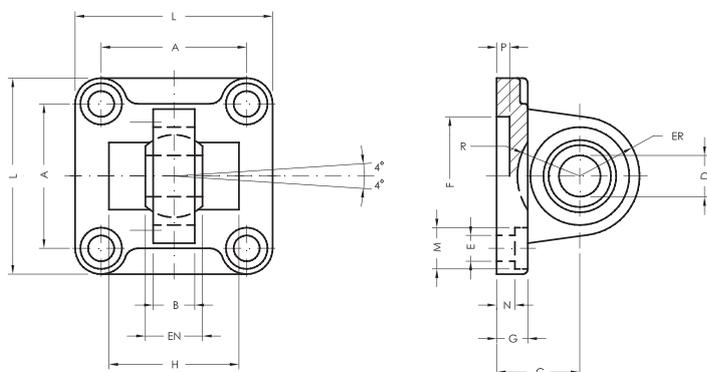
**US13** / diam.

Weight peso (g)	D.cil.	L ±0.5	T h 14	CM H 14	A ±0.2	Z ±0.2	H	B	D3 ±0.5 H 12	S H 12	G F 7	D1 H 13	D2 H 13	TA +0.2 0	TZ +0.2 0	LI +0.3 0
140	32	45	34	14	32.5	22	5	10	5.5	30	10	6.6	10.5	3	3.3	11.5
230	40	55	40	16	38	25	5	10	5.5	35	12	6.6	11	4	4.3	12
336	50	65	45	21	46.5	27	5	10	6.5	40	16	9	15	4	4.3	14
546	63	75	51	21	56.5	32	5	12	6.5	45	16	9	15	4	4.3	14
1190	80	95	65	25	72	36	5	14	10	45	20	11	18	4	4.3	16
1840	100	115	75	25	89	41	5	16	10	55	20	11	18	4	6.3	16
3550	125	140	97	37	110	50	7	20	10	60	30	13.5	20	6	6.3	24

Material: steel  
Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K



Weight peso (g)	D.cil. ±0.2	A	B max	C JS 15	D H 7	EN 0 -0.1	ER max	F H 11	G	E H 13	L	M H 13	N	P	H ±0.5	R ±0.5
152	32	32.5	10.5	22	10	14	15	30	10	6.6	45	10.5	5.5	5	-	-
256	40	38	12	25	12	16	18	35	10	6.6	55	11	5.5	5	-	-
364	50	46.5	15	27	16	21	20	40	10	9	65	15	6.5	5	51	19
595	63	56.5	15	32	16	21	23	45	12	9	75	15	6.5	5	-	-
1122	80	72	18	36	20	25	27	45	14	11	95	18	10	5	70	24
1786	100	89	18	41	20	25	30	55	16	11	115	18	10	5	-	-
3500	125	110	25	50	30	37	40	60	20	13.5	140	20	10	7	-	-



CODE ORDERING

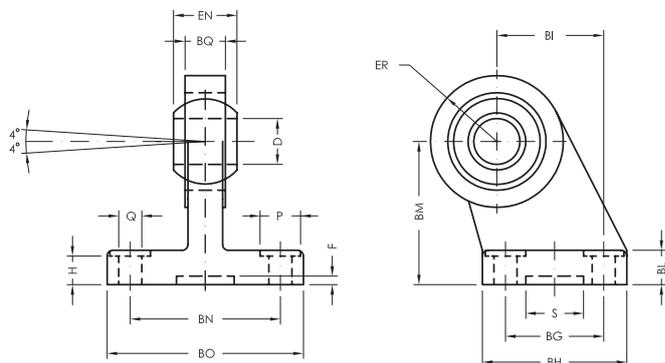
**US18** / diam.

Material: steel

Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# SQUARE JOINT WITH ARTICULATED HEAD DIN648K



Weight peso (g)	D.cil.	Q H 13	P H 13	BQ JS 14	BH max	BI JS 15	BL	BM JS 15	BN JS 14	BO max	EN 0 -0.1	ER max	BQ max	D H 7	H +0.5 0	S H 13	F
178	32	6.6	11	18	31	21	10	32	38	51	14	15	10.5	10	8.5	20	3
268	40	6.6	11	22	35	24	10	36	41	54	16	18	12	12	8.5	20	3
458	50	9	15	30	45	33	12	45	50	65	21	20	15	16	10.5	20	3
550	63	9	15	35	50	37	12	50	52	67	21	23	15	16	10.5	20	3
970	80	11	18	40	60	47	14	63	66	86	25	27	18	20	11.5	20	3
1326	100	11	18	50	70	55	15	71	76	96	25	30	18	20	12.5	20	3
3000	125	13.5	20	60	90	70	20	90	94	124	37	40	25	30	17	20	3



CODE ORDERING

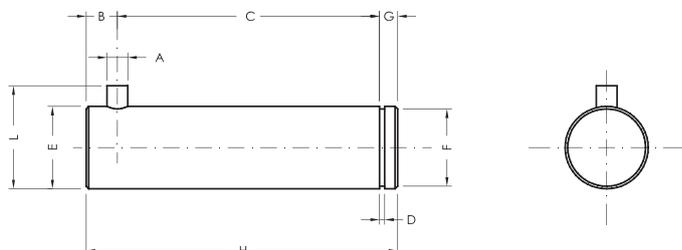
**US11** / diam.

Material: steel

Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# PIN ANTI-ROTATION FOR NARROW FEMALE HINGE



Weight peso (g)	D.cil. H 12	A +0.5 H 13	C +0.3 H 13	D f 7	E h 11	F h 11	G	H	L 0 -0.5	B
26	32	3	32.5	1.1	10	9.6	4	41	14	4.5
42	40	4	38	1.1	12	11.5	4	48	16	6
84	50	4	43	1.1	16	15.2	5	54	20	6
94	63	4	49	1.1	16	15.2	5	60	20	6
184	80	4	63	1.3	20	19	6	75	24	6
208	100	4	73	1.3	20	19	6	85	24	6
606	125	6	94	1.6	30	28.6	7	110	36	9
972	160	6	119	1.6	35	33	7	135	41	9
972	200	6	119	1.6	35	33	7	135	41	9
1365	250	8	121	1.85	40	37.5	7	140	48	12



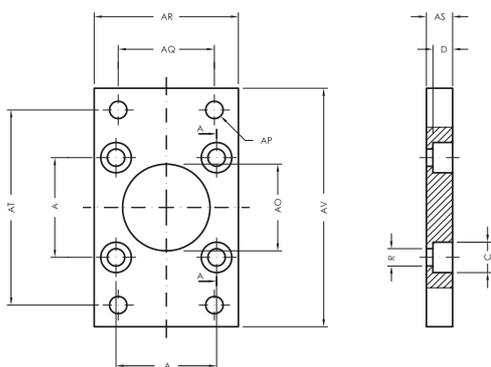
CODE ORDERING

**US12** / diam.

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# FLANGE ISO MF1/MF2



CODE ORDERING

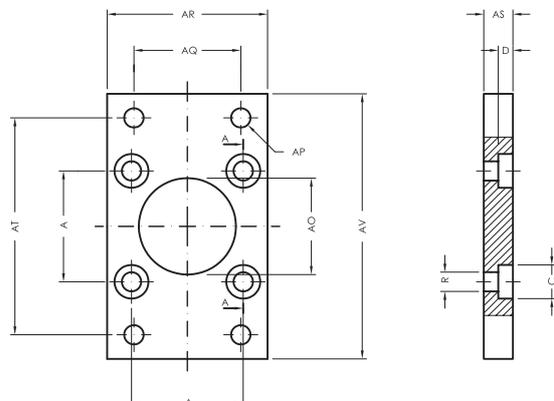
**US08** / diam.

Material: steel  
Treatment: white zinc coating, on request  
black cataphoresis

Weight peso (g)	D.cil. H 12	A ±0.2 H 13	AP H 13	AO H 11	R	AS ±0.2	AR	AQ JS 14	AT JS 14	AV	C	D
190	32	32.5	7	30	6.5	10	45	32	64	80	10.5	6.5
246	40	38	9	35	6.5	10	52	36	72	90	10.5	6.5
478	50	46.5	9	40	8.5	12	65	45	90	110	13.5	8.5
622	63	56.5	9	45	8.5	12	75	50	100	120	13.5	8.5
1430	80	72	12	45	10.5	16	95	63	126	150	16.5	10.5
1986	100	89	14	55	10.5	16	115	75	150	170	16.5	10.5
3750	125	110	16	60	13.5	20	140	90	180	205	20	12.5
6350	160	140	18	65	17	20	180	115	230	260	25	16.5
11350	200	175	22	75	17	25	220	135	270	300	25	16.5
20100	250	220	26	90	22.5	25	285	165	330	400	33	20

ISO 15552 NORM

# FLANGE VDMA MF1/MF2



CODE ORDERING

**US08** / diam.

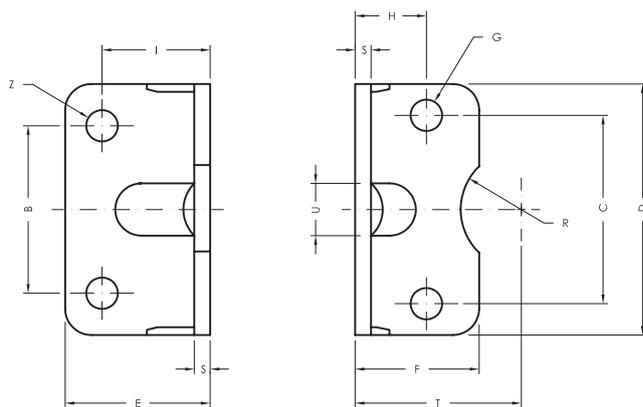
Weight peso (g)	D.cil.	A ±0.2	AP H 13	AO H 11	R H 13	AS ±0.2	AR	AQ JS 14	AT JS 14	AV	C H 13	D +0.5 0
192	32	32.5	7	30	6.6	10	45	32	64	80	10.5	5
250	40	38	9	35	6.6	10	52	36	72	90	11	5
482	50	46.5	9	40	9	12	65	45	90	110	15	5.5
626	63	56.5	9	45	9	12	75	50	100	120	15	5.5
1436	80	72	12	45	11	16	95	63	126	150	18	8
1994	100	89	14	55	11	16	115	75	150	170	18	8
3760	125	110	16	60	13.5	20	140	90	180	205	20	9.5
6362	160	140	18	65	18	20	180	115	230	260	26	10.5
11368	200	175	22	75	18	25	220	135	270	300	26	12.5
20150	250	220	26	90	22	25	285	165	330	400	33	14.5
34550	320	270	33	110	26	30	350	200	400	470	39	15

Material: steel

Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# LOW-RISE PEDESTAL MS1



CODE ORDERING

**US06** / diam.

POSSIBILITY OF ORDERING IN PAIR

**CPUS06**

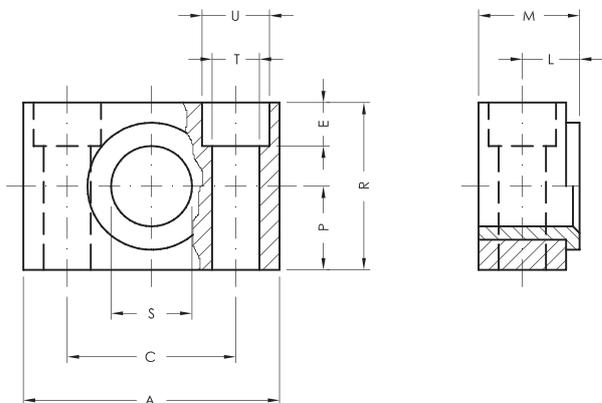
Weight peso (g)	D.cil.	C ±0.2	B JS 14	D 0 -0.2	E	F +2 0	G H 14	H ±0.2	I ±0.2	S ±0.5	T JS 15	R H 15	U	Z H 14
66	32	32.5	32	45	35	30	7	15.75	24	4	32	15	11	7
78	40	38	36	52	36	30	7	17	28	4	36	17.5	15	9
168	50	46.5	45	65	47	36	9	21.75	32	5	45	20	16	9
190	63	56.5	50	75	45	35	9	21.75	32	5	50	22.5	18	9
382	80	72	63	95	55	47	11	27	41	6	63	22.5	17	12
452	100	89	75	115	57	53	11	26.5	41	6	71	27.5	24	14
1150	125	110	90	140	70	70	14	35	45	8	90	30	-	16
2000	160	140	115	180	75	100	18	45	60	9	115	32.5	-	18
3800	200	175	135	220	100	100	18	47.5	70	12	135	37.5	-	22
6600	250	220	165	270	100	150	22	55	75	14±1	165	45	-	26

Material: steel

Treatment: white zinc coating or black cataphoresis

ISO 15552 NORM

# SUPPORT FOR INTERMEDIATE HINGE



CODE ORDERING

**US58** / diam.

POSSIBILITY OF ORDERING IN PAIR

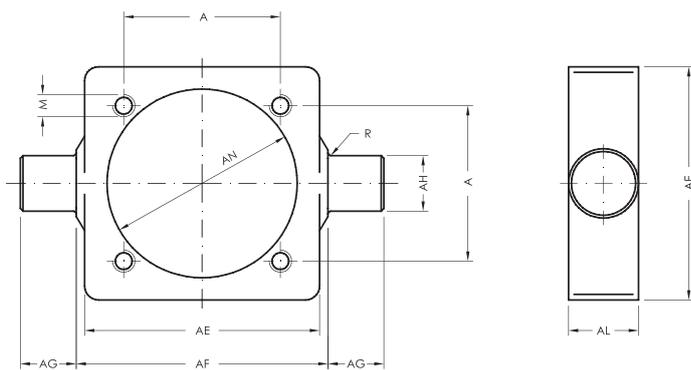
**CPUS58**

Weight peso (g)	D.cil.	A	M	R	P ±0.1	C ±0.2	S F 7	L	U H 13	T H 13	E ±0.5
100	32	46	18	30	15	32	12	10.5	11	6.6	7
150	40-50	55	21	36	18	36	16	12	15	9	9
234	63-80	65	23	40	20	42	20	13	18	11	11
435	100-125	75	28.5	50	25	50	25	16	20	14	13
850	160-200	92	40	60	30	60	32	22.5	26	18	17
2750	250	140	56	70	35	90	40	31	33	22	20
3520	320	150	60	80	40	100	50	32.5	39	26	25.5

Material: steel  
Treatment: white zinc coating  
The bush is in sinterized bronze

ISO 15552 NORM

# INTERMEDIATE HINGE MT4



CODE ORDERING

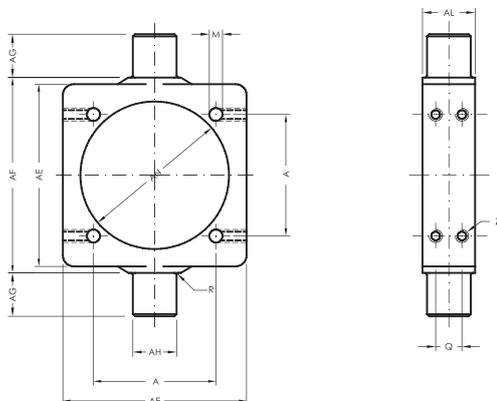
**US09** / diam.

Weight peso (g)	D.cil.	A ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	AN +0.2 0	R max	M
128	32	32.5	46	15	12	12	50	37	1	M6
308	40	38	59	20	16	16	63	46	1.5	M6
370	50	46.5	69	20	16	16	75	56	1.6	M8
690	63	56.5	84	25	20	20	90	69	1.6	M8
894	80	72	102	25	20	20	110	87	1.6	M10
1584	100	89	125	30	25	25	132	107	2	M10
2600	125	110	155	32	25	25	160	133.5	2	M12
4300	160	140	190	40	32	32	200	171	2.5	M16
7450	200	175	240	40	32	32	250	211	2.5	M16
13000	250	220	296	50	40	40	320	268	-	M20
22500	320	270	370	60	50	50	400	343	-	M24

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# INTERMEDIATE HINGE ADJUSTABLE MT4



CODE ORDERING

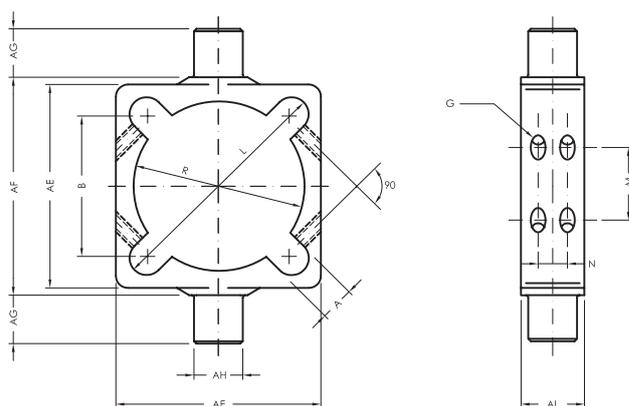
**US09**REG / diam.

Weight peso (g)	D.cil.	A ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	AN +0.2 0	R max	M +0.2 0	Q ±0.2	Z
110	32	32.5	46	15	12	12	50	37	1	6.25	7	M5
290	40	38	59	20	16	16	63	46	1.5	6.25	8	M5
330	50	46.5	69	20	16	16	75	56	1.6	8.25	8	M6
650	63	56.5	84	25	20	20	90	69	1.6	8.25	12	M6
830	80	72	102	25	20	20	110	87	1.6	10.25	12	M8
1560	100	89	125	30	25	25	132	107	2	10.25	15	M8
2450	125	110	155	32	25	25	160	133.5	2	12.25	15	M10
4150	160	140	190	40	32	32	200	171	2.5	16.25	18	M12
7300	200	175	240	40	32	32	250	211	2.5	16.25	18	M12

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# INTERMEDIATE SHAPED HINGE



CODE ORDERING

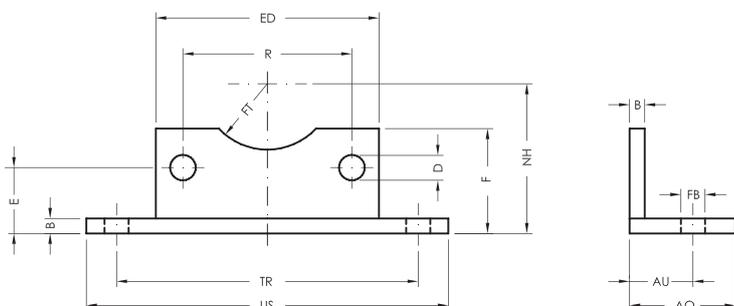
**US01** / diam.

Weight peso (g)	D.cil.	B ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	R +0.2 0	L +0.3 0	G	A +0.2 0	M ±0.3	N ±0.3
130	32	33	48.5	18	12	12	50	37	58	M5	11.3	13.5	7
238	40	39.7	59	20	16	16	63	46	67.5	M6	11.3	19	8
318	50	48.4	71	20	16	16	75	56	82.5	M6	14	24.5	8
608	63	58.7	84	26	20	20	90	69	97	M6	14	28	12
928	80	73.5	105	26	20	20	110	87	120	M6	16	36.5	12
1562	100	91.6	129	32	25	25	132	107	146.5	M8	17	42.5	15
2200	125	116.7	154	33	25	25	160	133.5	183	M8	18	59.5	15
3650	160	146	190	40	32	32	200	171	232.5	M10	26.5	100.5	20
5940	200	186	240	40	32	32	250	213	291	M10	28	110.5	22

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# LARGE LOW-RISE PEDESTAL



CODE ORDERING

**US27** / diam.

POSSIBILITY OF ORDERING IN PAIR

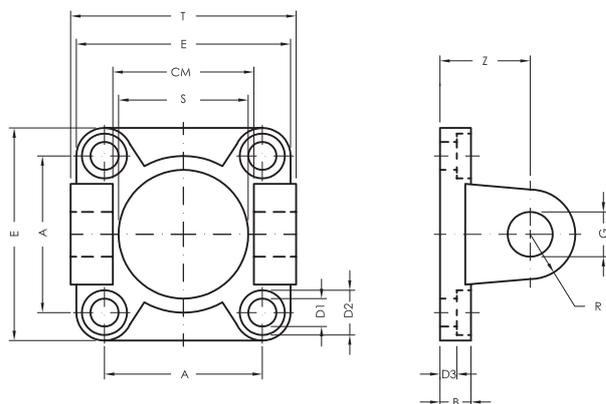
**CPUS27**

Weight peso (g)	D.cil.	US 0 -0.2	ED ±0.2	F +1 0	AO +1 0	B ±0.3	TR JS 14	E ±0.1	D H 13	FT H 15	NH JS 15	R ±0.2	AU ±0.2	FB H 14
122	32	79	45	30	30	5	65	15.75	6.5	15	32	32.5	18	6.5
146	40	90	55	30	30	5	75	17	6.5	17.5	36	38	18	6.5
218	50	110	65	35	35	5	90	21.75	8.5	20	45	46.5	21	8.5
238	63	120	75	35	35	5	100	21.75	8.5	22.5	50	56.5	21	8.5
488	80	153	95	45	45	6	128	26.5	10.5	22.5	63	72	27	10.5
580	100	178	115	45	45	6	148	27	10.5	27.5	71	89	27	10.5

Material: steel  
Treatment: black cataphoresis

ISO 15552 NORM

# FRONT FEMAL HINGE MP7



CODE ORDERING

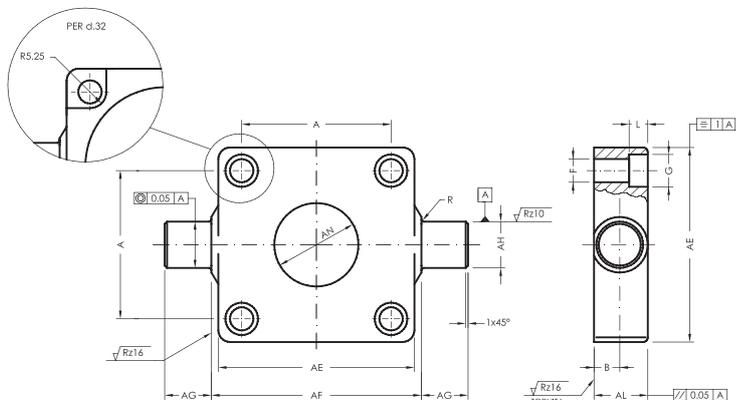
**US02** / diam.

Weight peso (g)	D.cil.	A ±0.2	E	D1 H 13	D2 H 13	D3 ±0.5	B	S H 11	Z ±0.2	G H 9	R max	CM H 14	T H 14
125	32	32.5	45	6.5	10.5	8	10	30	22	10	10	32	50
214	40	38	55	6.5	10.5	8	10	35	25	12	12	37	58
298	50	46.5	65	8.5	13.5	8	10	40	27	12	12	42	70
518	63	56.5	75	8.5	13.5	10	12	45	32	16	16	47	75

Material: steel  
Treatment: black cataphoresis

ISO 15552 NORM

# INTERMEDIATE SPOT FACED HINGE



Weight peso (g)	D.cil.	AE max	AL max	AH e 9	AG h 14	AF h 14	AN H 11	A ±0.2	B +0.2 0	F H 13	G H 13	L +0.5 0	R 0 -0.3
137	32	46	14	12	12	50	30	32.5	6.5	6.5	-	6	1
385	40	59	19	16	16	63	35	38	9	6.5	10.5	6	1.6
513	50	69	19	16	16	75	40	46.5	9	8.5	13.5	8	1.6
1041	63	84	24	20	20	90	45	56.5	11.5	8.5	13.5	8	1.6
1567	80	102	24	20	20	110	45	72	11.5	10.5	16.5	10	1.6
3000	100	125	29	25	25	132	55	89	14	10.5	16.5	10	2



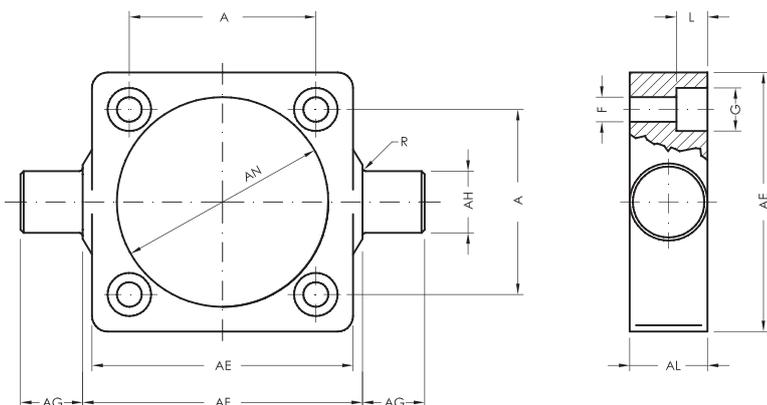
CODE ORDERING

**US76** / diam.

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# INTERMEDIATE SPOT FACED HINGE



Weight peso (g)	D.cil.	A ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	AN +0.2 0	R max	F H 13	G H 13	L +0.5 0
2400	125	110	155	32	25	25	160	133	2	13.5	20	12
4150	160	140	190	40	32	32	200	170	2.5	17	25	16
7350	200	175	240	40	32	32	250	211	2.5	17	25	16



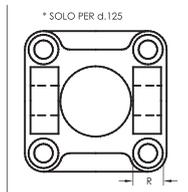
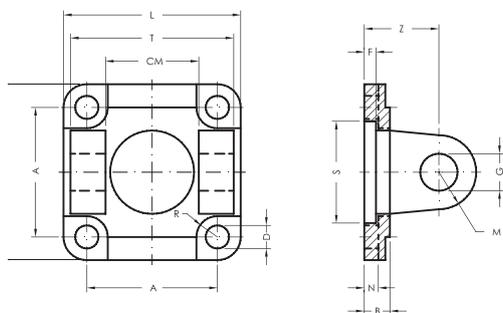
CODE ORDERING

**US76** / diam.

Material: steel  
Treatment: white zinc coating

ISO 15552 NORM

# FEMALE HINGE MP2



CODE ORDERING

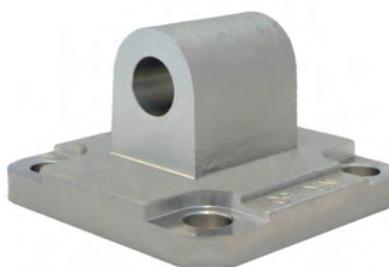
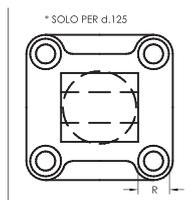
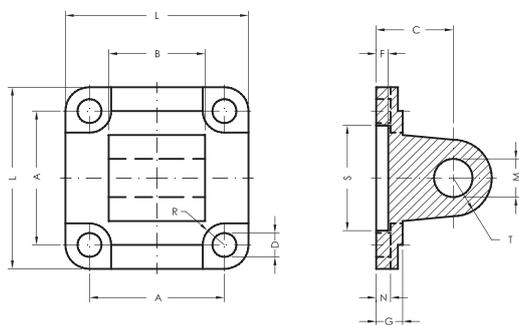
**USIN17** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	B	S H 11	F	Z ±0.2	G H 9	M max	CM H 14	T h 14
138	32	32.5	45	6.6	5.5	5.5	10	30	5	22	10	10	26	45
230	40	38	55	6.6	5.5	5.5	10	35	5	25	12	12	28	52
338	50	46.5	65	9	7.5	6.5	10	40	5	27	12	12	32	60
540	63	56.5	75	9	7.5	6.5	12	45	5	32	16	16	40	70
1000	80	72	95	11	9	10	14	45	-	36	16	16	50	90
1700	100	89	115	11	9	10	16	55	-	41	20	20	60	110
3350	125	110	140	13.5	20	10	20	60	-	50	25	25	70	130

Material: stainless steel AISI 316

ISO 15552 NORM

# MALE HINGE MP4



CODE ORDERING

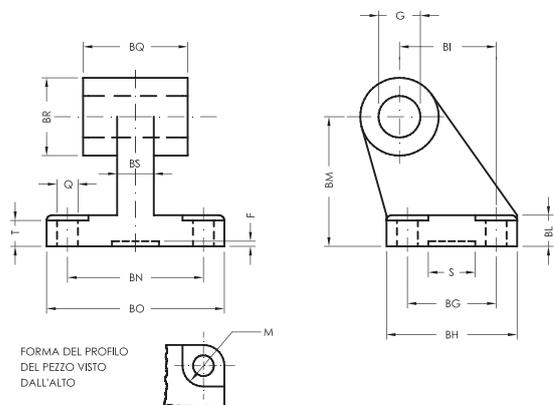
**USIN19** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	R H 13	N ±0.5	G	S H 11	F	C ±0.2	M H 9	T max	B
176	32	32.5	45	6.6	5.5	5.5	10	30	5	22	10	10	26
274	40	38	55	6.6	5.5	5.5	10	35	5	25	12	12	28
368	50	46.5	65	9	7.5	6.5	10	40	5	27	12	12	32
682	63	56.5	75	9	7.5	6.5	12	45	5	32	16	16	40
1196	80	72	95	11	9	10	14	45	5	36	16	16	50
2100	100	89	115	11	9	10	16	55	5	41	20	20	60
3740	125	110	140	13.5	20	10	20	60	7	50	25	25	70

Material: stainless steel AISI 316

ISO 15552 NORM

# SQUARE JOINT CETOP RP107P



CODE ORDERING

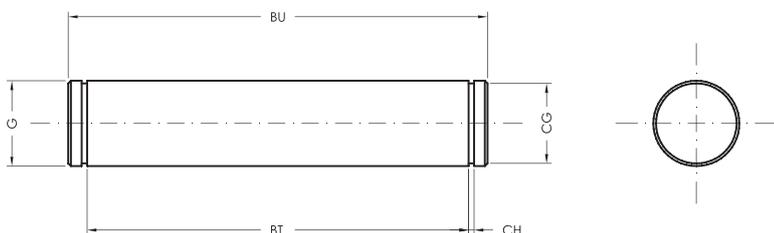
**USIN05** / diam.

Weight peso (g)	D.cil.	Q H 13	M H 13	BG JS 14	BH max	BI JS 15	BL	BM JS 15	BN JS 14	BO max	BS max	BR max	BQ -0.2 -0.6	G H 9	T +0.5 0	S +0.2 0	F
158	32	6.6	11	18	31	21	8	32	38	51	10	20	26	10	6.5	20	3
238	40	6.6	11	22	35	24	10	36	41	54	10	22	28	12	8.5	20	3
418	50	9	15	30	45	33	12	45	50	65	14	26	32	12	10.5	20	3
526	63	9	15	35	50	37	12	50	52	67	14	30	40	16	10.5	20	3
1055	80	11	18	40	60	47	14	63	66	86	18	30	50	16	11.5	20	3
1510	100	11	18	50	70	55	15	71	76	96	20	36	60	20	12.5	20	3
3150	125	14	20	60	90	70	20	90	94	124	30	45	70 <sup>0.5</sup> <sub>-1.2</sub>	25	17	20	3

Material: stainless steel AISI 316

ISO 15552 NORM

# PIN FOR FEMALE HINGE MP2



CODE ORDERING

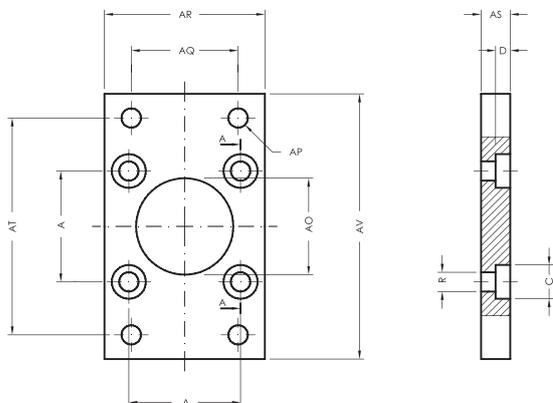
**USIN07** / diam.

Weight peso (g)	D.cil.	G ± 8	BT +0.3 0	CG	CH H 13	BU
32	32	10	46	9.6	1.1	53
52	40	12	53	11.5	1.1	60
60	50	12	61	11.5	1.1	68
122	63	16	71	15.2	1.1	78
152	80	16	91	15.2	1.1	98
290	100	20	111	19	1.3	118
530	125	25	132	23.9	1.3	139

Material: stainless steel AISI 316

ISO 15552 NORM

# FLANGE VDMA MF1/MF2



CODE ORDERING

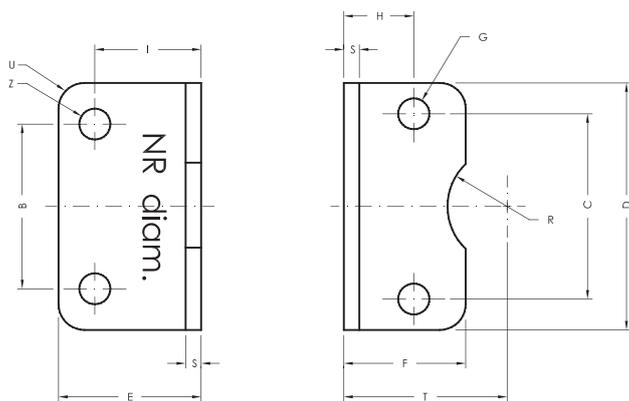
**USIN08**BIS / diam.

Weight peso (g)	D.cil.	A ±0.2	AP H 13	AO H 11	R H 13	AS ±0.2	AR	AQ JS 14	AT JS 14	AV	C H 13	D +0.5 0
192	32	32.5	7	30	6.6	10	45	32	64	80	10.5	5
250	40	38	9	35	6.6	10	52	36	72	90	11	5
482	50	46.5	9	40	9	12	65	45	90	110	15	5.5
626	63	56.5	9	45	9	12	75	50	100	120	15	5.5
1436	80	72	12	45	11	15	95	63	126	150	18	8
1994	100	89	14	55	11	15	115	75	150	170	18	8

Material: stainless steel AISI 316

ISO 15552 NORM

# LOW-RISE PEDESTAL MS1



RAGGIO DI CURVATURA  
INTERNA DEL PIEDINO

d.32 = 4 + 0.5  
d.40 = 4 + 0.5  
d.50 = 5 + 0.5  
d.63 = 5 + 0.5  
d.80 = 7 + 0.5  
d.100 = 7 + 0.5



CODE ORDERING

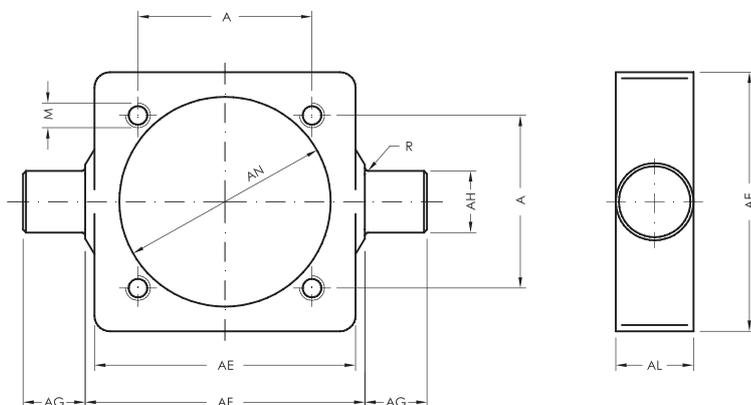
**USIN06** / diam.

Weight peso (g)	D.cil.	C ±0.2	B JS 14	D 0 -0.2	E	F +2 0	G H 14	H ±0.2	I ±0.2	S ±0.5	T JS 15	R H 15	U	Z H 14
60	32	32.5	32	45	35	30	7	15.75	24	4	32	15	3	7
72	40	38	36	52	36	30	7	17	28	4	36	17.5	3	9
160	50	46.5	45	65	47	36	9	21.75	32	5	45	20	3	9
180	63	56.5	50	75	45	35	9	21.75	32	5	50	22.5	4	9
370	80	72	63	95	55	47	11	27	41	6	63	22.5	4	12
432	100	89	75	115	57	53	11	26.5	41	6	71	27.5	4	14

Material: stainless steel AISI 316

ISO 15552 NORM

# INTERMEDIATE HINGE MT4



CODE ORDERING

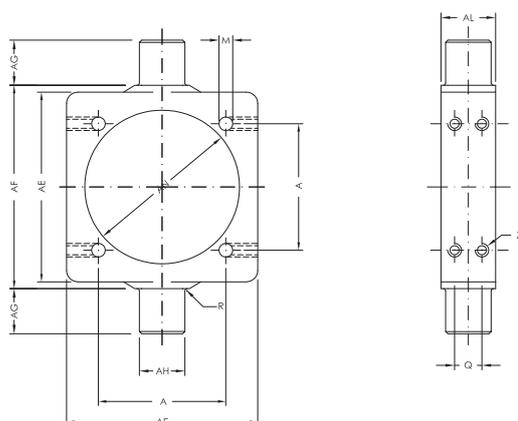
**USIN09** / diam.

Weight peso (g)	D.cil.	A ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	AN +0.2 0	R max	M
128	32	32.5	46	15	12	12	50	37	1	M6
308	40	38	59	20	16	16	63	46	1.5	M6
370	50	46.5	69	20	16	16	75	56	1.6	M8
690	63	56.5	84	25	20	20	90	69	1.6	M8
894	80	72	102	25	20	20	110	87	1.6	M10
1584	100	89	125	30	25	25	132	107	2	M10

Material: stainless steel AISI 316

ISO 15552 NORM

# INTERMEDIATE HINGE ADJUSTABLE MT4



CODE ORDERING

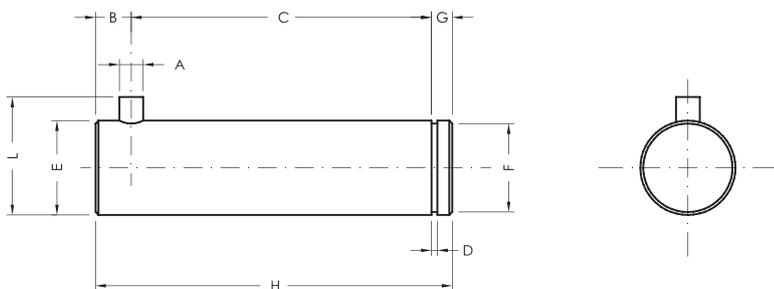
**USIN09<sub>REG</sub>** / diam.

Weight peso (g)	D.cil.	A ±0.2	AE max	AL max	AH e 9	AG h 14	AF h 14	AN +0.2 0	R max	M	Q ±0.2	Z
110	32	32.5	46	15	12	12	50	37	1	6.25	7	M5
290	40	38	59	20	16	16	63	46	1.5	6.25	8	M5
330	50	46.5	69	20	16	16	75	56	1.6	8.25	8	M6
650	63	56.5	84	25	20	20	90	69	1.6	8.25	12	M6
830	80	72	102	25	20	20	110	87	1.6	10.25	12	M8
1560	100	89	125	30	25	25	132	107	2	10.25	15	M8

Material: stainless steel AISI 316

ISO 15552 NORM

# PIN ANTI-ROTATION FOR NARROW FEMALE HINGE



CODE ORDERING

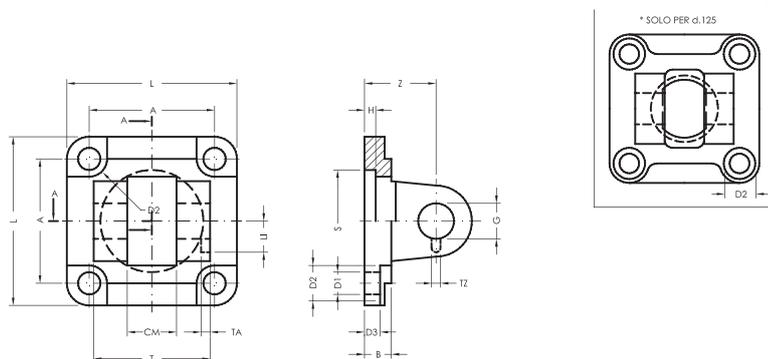
**USIN12** / diam.

Weight peso (g)	D.cil.	A H 12	C +0.5 +0.3 H 13	D H 13	E f 7	F h 11	G	H	L 0 -0.5	B
26	32	3	32.5	1.1	10	9.6	4	41	14	4.5
42	40	4	38	1.1	12	11.5	4	48	16	6
84	50	4	43	1.1	16	15.2	5	54	20	6
94	63	4	49	1.1	16	15.2	5	60	20	6
184	80	4	63	1.3	20	19	6	75	24	6
208	100	4	73	1.3	20	19	6	85	24	6
606	125	6	94	1.6	30	28.6	7	110	36	9

Material: stainless steel AISI 316

ISO 15552 NORM

# NARROW FEMALE HINGE FOR SQUARE JOINT WITH ARTICULATED HEAD DIN648K



CODE ORDERING

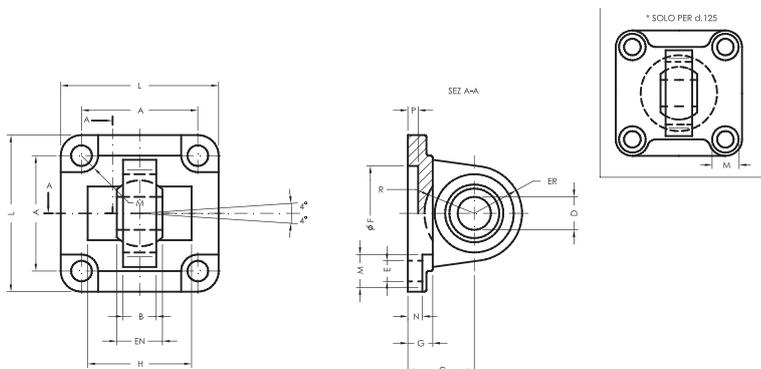
**USIN13** / diam.

Weight peso (g)	D.cil.	L ±0.5	T h 14	CM H 14	A ±0.2	Z ±0.2	H	B	D3 ±0.5 H 12	S H 12	G F 7	D1 H 13	D2 H 13	TA +0.2 0	TZ +0.2 0	LI +0.3 0
140	32	45	34	14	32.5	22	5	10	5.5	30	10	6.6	5.5	3	3.3	11.5
230	40	55	40	16	38	25	5	10	5.5	35	12	6.6	5.5	4	4.3	12
336	50	65	45	21	46.5	27	5	10	6.5	40	16	9	7.5	4	4.3	14
546	63	75	51	21	56.5	32	5	12	6.5	45	16	9	7.5	4	4.3	14
1190	80	95	65	25	72	36	5	14	10	45	20	11	9	4	4.3	16
1840	100	115	75	25	89	41	5	16	10	55	20	11	9	4	6.3	16
3550	125	140	97	37	110	50	7	20	10	60	30	13.5	20	6	6.3	24

Material: stainless steel AISI 316

ISO 15552 NORM

# NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K



Weight peso (g)	D.cil. ±0.2	A	B max	C JS 15	D H 7	EN 0 -0.1	ER max	F H 11	G	E H 13	L	M H 13	N	P	H ±0.5	R ±0.5
152	32	32.5	10.5	22	10	14	15	30	10	6.6	45	5.5	5.5	5	-	-
256	40	38	12	25	12	16	18	35	10	6.6	55	5.5	5.5	5	-	-
364	50	46.5	15	27	16	21	20	40	10	9	65	7.5	6.5	5	51	19
595	63	56.5	15	32	16	21	23	45	12	9	75	7.5	6.5	5	-	-
1122	80	72	18	36	20	25	27	45	14	11	95	9	10	5	70	24
1786	100	89	18	41	20	25	30	55	16	11	115	9	10	5	-	-
3500	125	110	25	50	30	37	40	60	20	13.5	140	20	10	7	-	-



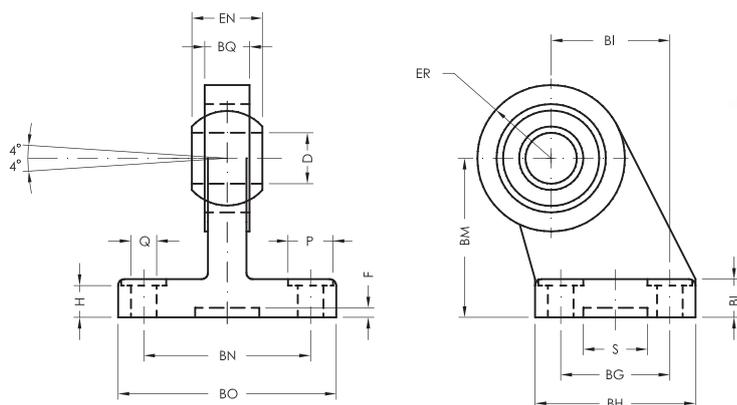
CODE ORDERING

**USIN18** / diam.

Material: stainless steel AISI 316

ISO 15552 NORM

# SQUARE JOINT WITH ARTICULATED HEAD DIN648K



Weight peso (g)	D.cil.	Q H 13	P H 13	BG JS 14	BH max	BI JS 15	BL	BM JS 15	BN JS 14	BO max	EN 0 -0.1	ER max	BQ max	D H 7	H +0.5 0	S H 13	F
178	32	6.6	11	18	31	21	10	32	38	51	14	15	10.5	10	8.5	20	3
268	40	6.6	11	22	35	24	10	36	41	54	16	18	12	12	8.5	20	3
458	50	9	15	30	45	33	12	45	50	65	21	20	15	16	10.5	20	3
550	63	9	15	35	50	37	12	50	52	67	21	23	15	16	10.5	20	3
970	80	11	18	40	60	47	14	63	66	86	25	27	18	20	11.5	20	3
1326	100	11	18	50	70	55	15	71	76	96	25	30	18	20	12.5	20	3
3000	125	13.5	20	60	90	70	20	90	94	124	37	40	25	30	17	20	3



CODE ORDERING

**USIN11** / diam.

Material: stainless steel AISI 316

# CNOMO NORM



ALUMINIUM

PAG. 35



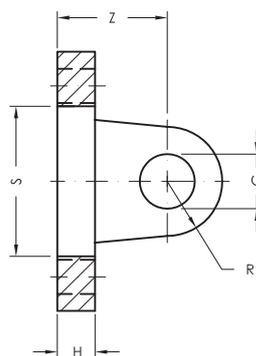
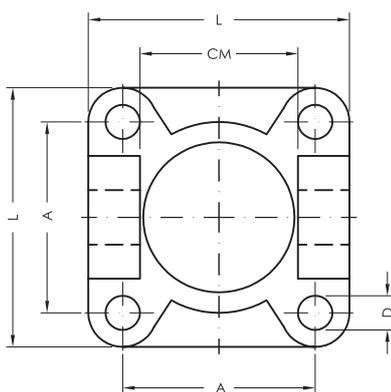
STEEL

PAG. 38

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

## CNOMO NORM

# FEMALE HINGE



CODE ORDERING

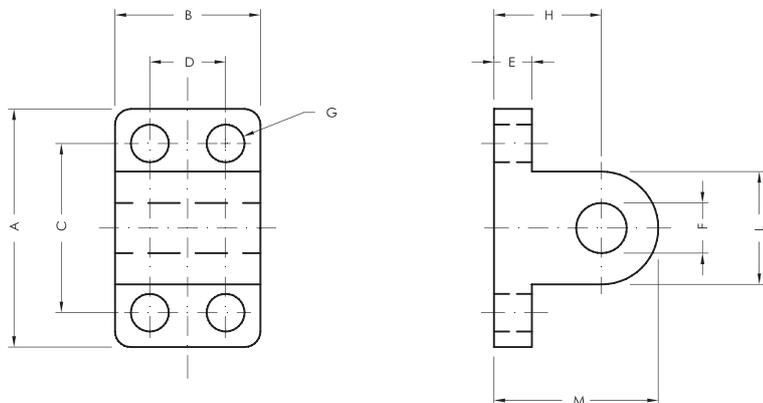
**US39** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	H	CM H 14	S H 11	R max	Z ±0.2	G H 9
38	32	33	45	7	8	26	25	8	18	8
58	40	40	52	7	8	33	32	12	24	12
118	50	49	65	9	10	33	32	12	26	12
146	63	59	75	9	10	47	45	16	30	16
324	80	75	95	11	12	47	45	16	32	16
492	100	90	115	11	12	57	55	20	37	20
978	125	110	140	14	16	57	55	21	41	20
1872	160	140	180	18	20	72	65	25	55	25
2800	200	175	220	18	20	72	65	25	55	25

Material: aluminium

CNOMO NORM

# REAR CLEVIS BRACKET



CODE ORDERING

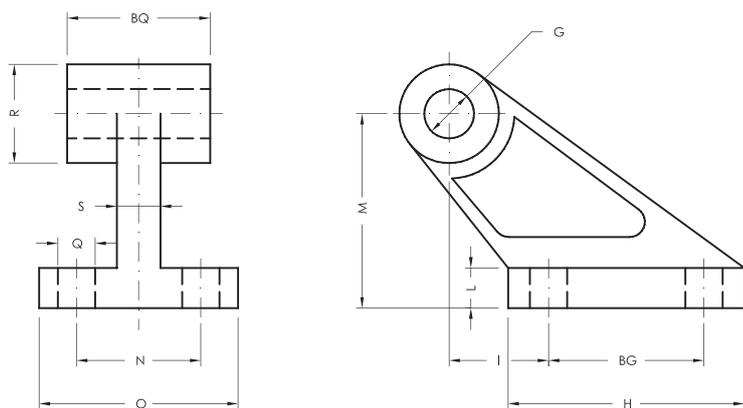
**US34** / diam.

Weight peso (g)	D.cil.	A	B	C ±0.2	D ±0.2	E	F H 9	G	H ±0.2	L max	M max
26	32	40	25	28	-	8	8	7	18	16	26
56	40-50	52	32	38	16	10	12	9	26	24	38
176	63-80	75	46	54	25	12	16	11	34	36	52
376	100-125	115	56	90	32	16	20	14	41	40	61
924	160-200	180	71	150	43	20	25	18	55	50	80

Material: aluminium

CNOMO NORM

# SQUARE JOINT



CODE ORDERING

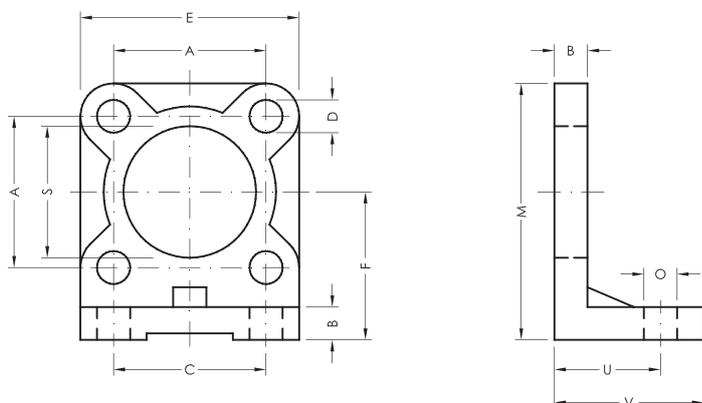
**US26** / diam.

Weight peso (g)	D.cil.	Q H 13	BG ±0.2	H	I ±0.2	L	M ±0.2	N ±0.2	O	S	R max	BQ -0.2 -0.6	G H 9
58	32	7	20	37	18	8	32	25	41	9	19.5	25	8
144	40-50	9	32	54	25	10	45	32	52	14	26	32	12
300	63-80	11	50	75	32	13	63	40	63	14	32	46	16
694	100-125	14	70	103	40	17	90	50	80	22	42	56	20
1922	160-200	18	110	154	50	20	140	63	111	26	54	70	25

Material: aluminium

CNOMO NORM

# HIGH PEDESTAL



CODE ORDERING

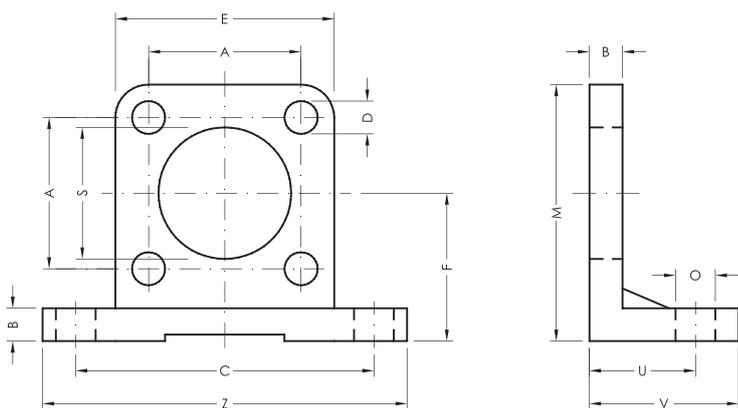
**US43** / diam.

Weight peso (g)	D.cil.	A ±0.2	B	C ±0.2	D H 13	E ±0.5	F ±0.2	M ±1	O H 13	S H 11	U ±0.2	V ±1
40	25	28	8	24	7	40	30	50	9	25	27	35
54	32	33	8	28	7	45	32	54	9	25	27	35
70	40	40	8	36	7	52	36	62	9	32	27	35
150	50	49	10	45	9	65	45	77	11	32	35	45
170	63	59	10	55	9	75	50	87	11	45	35	45
354	80	75	12	70	11	95	63	110	14	45	43	55
470	100	90	12	90	11	115	73	130	14	55	43	55
918	125	110	16	100	14	140	91	161	18	55	52	68
2300	160	140	20	130	18	180	115	205	22	65	62	82
3450	200	175	20	170	18	220	135	245	22	65	62	92

Material: aluminium

CNOMO NORM

# HIGH LARGE PEDESTAL



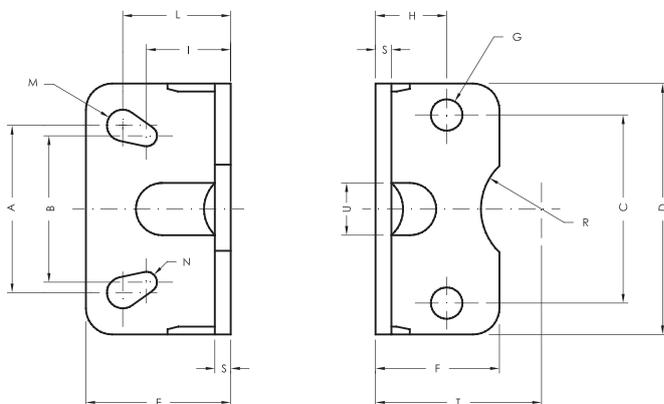
CODE ORDERING

**US44** / diam.

Weight peso (g)	D.cil.	A ±0.2	B	C ±0.2	D H 13	E ±0.5	F ±0.2	M ±1	O H 13	S H 11	U ±0.2	V ±1	Z ±1
55	25	28	8	58	7	40	30	50	9	25	18	35	75
76	32	33	8	65	7	45	32	54	9	25	18	35	82
90	40	40	8	72	7	52	36	62	9	32	18	35	90
188	50	49	10	90	9	65	45	77	11	32	22	45	110
206	63	59	10	100	9	75	50	87	11	45	22	45	120
410	80	75	12	126	11	95	63	110	14	45	28	55	154
576	100	90	12	148	11	115	73	130	14	55	28	55	180
1058	125	110	16	180	14	140	91	161	18	55	32	67.5	215
2350	160	140	20	230	18	180	115	206	22	65	40	80	275
3100	200	175	20	270	18	220	135	246	22	65	40	80	318

Material: aluminium

# LOW-RISE PEDESTAL



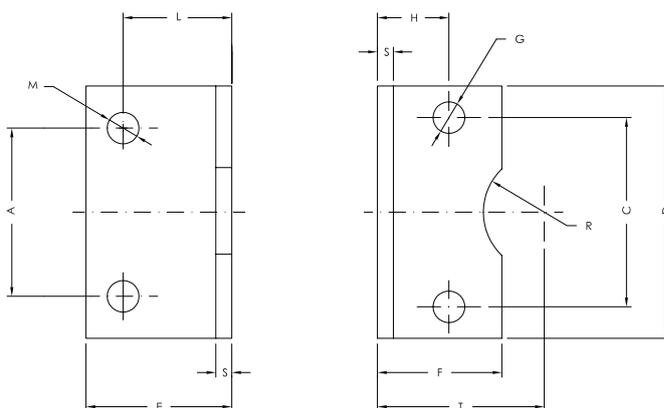
CODE ORDERING

**US52** / diam.

	Weight peso (g)	D.cil. ±0.2	A ±0.2	B ±0.2	C ±0.2	D max	E	F +2 0	G H 13	H ±0.2	I ±0.2	L ±0.2	M H 13	N H 13	R +0.5 0	S ±0.5	T ±0.2	U
CNOMO AND CETOP	54	25	24	-	28	40	35	30	7	16	-	27	9	-	13	2.5	-	-
	66	32	28	32	33	45	35	30	7	15.5	22	27	4.5	3.5	12.5	4	32	11
	78	40	36	36	40	52	36	30	7	16	26	27	4.5	4.5	16	4	36	15
	168	50	45	45	49	65	45	36	9	20.5	30	35	5.5	4.5	16	5	45	16
	190	63	55	50	59	75	45	35	9	20.5	30	35	5.5	4.5	22.5	5	50	18
	382	80	70	63	75	95	55	45	11	25.5	37	43	7	5.5	22.5	6	63	17
	452	100	90	75	90	115	56	44	11	27	37.5	43	7	6.5	27.5	6	73	24

Material: steel  
Treatment: white zinc coating

# LOW-RISE PEDESTAL



CODE ORDERING

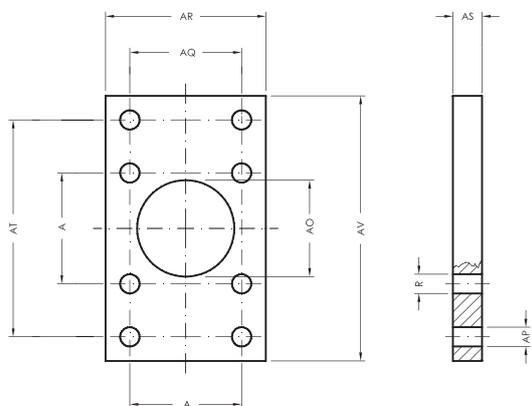
**US52** / diam.

	Weight peso (g)	D.cil. ±0.2	A ±0.2	C ±0.2	D max	E	F +2 0	G H 13	H ±0.2	L ±0.2	M H 13	R +0.5 0	S ±0.5	T ±0.2
ONLY CNOMO	1150	125	100	110	140	70	70	14	36	52	9	27.5	8	91
	2000	160	130	140	180	75	100	18	45	62	11	32.5	9	115
	3800	200	170	175	220	100	100	18	47	62	11	32.5	12	135

Material: steel  
Treatment: white zinc coating

CNOMO NORM

# SMOOTH HOLES FLANGE



CODE ORDERING

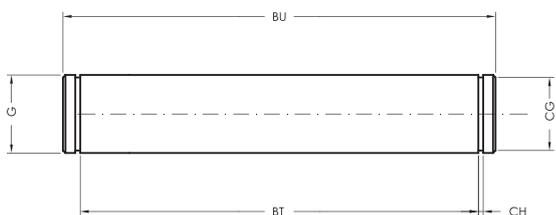
**US80** / diam.

Weight peso (g)	D.cil.	A ±0.2	AP H 13	AO H 11	R	AS ±0.2	AR	AQ JS 14	AT JS 14	AV
170	32	33	9	25	7	8	45	33	68	80
220	40	40	9	32	7	8	52	40	78	90
450	50	49	11	32	9	10	65	49	94	110
532	63	59	11	45	9	10	75	59	104	120
1100	80	75	14	45	11	12	95	75	130	150
1536	100	90	14	55	11	12	115	90	150	170
3100	125	110	18	55	14	16	140	110	180	205
6500	160	140	22	65	18	20	180	140	228	260
9500	200	175	22	65	18	20	220	175	268	300

Material: steel  
Treatment: white zinc coating

CNOMO NORM

# PIN FOR FEMALE HINGE



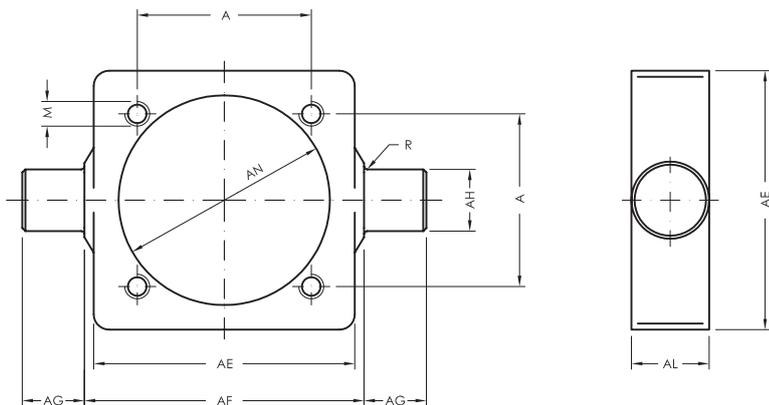
CODE ORDERING

**US45** / diam.

Weight peso (g)	D.cil.	G 17	BT +0.3 0	CG	CH	BU
21	32	8	46	7.6	1.1	53
52	40	12	53	11.5	1.1	60
64	50	12	66	11.5	1.1	73
130	63	16	76	15.2	1.1	83
160	80	16	96	15.2	1.1	103
304	100	20	117	19	1.3	124
364	125	20	142	19	1.3	149
720	160	25	182	23.9	1.3	189
872	200	25	222	23.9	1.3	229

Material: steel  
Treatment: white zinc coating

# INTERMEDIATE HINGE



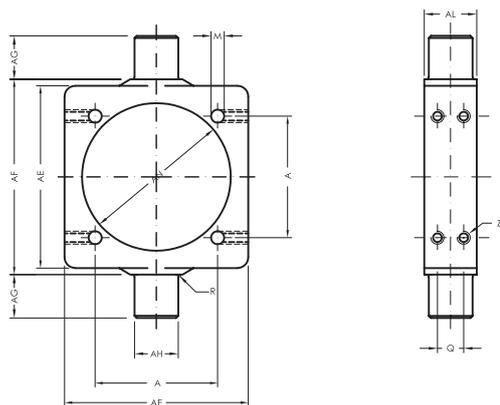
CODE ORDERING

**US10** / diam.

	Weight peso (g)	D.cil. ±0.2	A max	AE max	AL max	AH e 9	AG h 14	AF h 14	AN ±0.2 Q	R max	M
CNOMO	28	25	28	39	15	12	12	42	28.5	0.8	M6
	130	32	33	46	15	12	12	50	37	1	M6
	306	40	40	59	20	16	16	63	46	1.5	M6
	370	50	49	69	20	16	16	73	56	1.6	M8
	702	63	59	84	25	20	20	90	69	1.6	M8
894	80	75	102	25	20	20	108	87	1.6	M10	
1590	100	90	125	30	25	25	131	107	2	M10	
2600	125	110	155	32	25	25	160	133.5	2	M12	
4300	160	140	190	40	32	32	200	171	2.5	M16	
7450	200	175	240	40	32	32	250	211	2.5	M16	
SAME AS CNOMO AD ISO-VDMA											

Material: steel  
Treatment: white zinc coating

# INTERMEDIATE ADJUSTABLE HINGE



CODE ORDERING

**US10<sub>REG</sub>** / diam.

	Weight peso (g)	D.cil. ±0.2	A max	AE max	AL max	AH e 9	AG h 14	AF h 14	AN ±0.2 Q	R max	M ±0.2	Q ±0.2	Z
CNOMO	110	32	33	46	15	12	12	50	37	1	6.25	7	M5
	290	40	40	59	20	16	16	63	46	1.5	6.25	8	M5
	330	50	49	69	20	16	16	73	56	1.6	8.25	8	M6
	650	63	59	84	25	20	20	90	69	1.6	8.25	12	M6
	830	80	75	102	25	20	20	108	87	1.6	10.25	12	M8
1560	100	90	125	30	25	25	131	107	2	10.25	15	M8	
2450	125	110	155	32	25	25	160	133.5	2	12.25	15	M10	
4150	160	140	190	40	32	32	200	171	2.5	16.25	18	M12	
7300	200	175	240	40	32	32	250	211	2.5	16.25	18	M12	
SAME AS CNOMO AD ISO-VDMA													

Material: steel

# ISO 6432 NORM FOR MINI CYLINDERS



STEEL  
PAG. 41

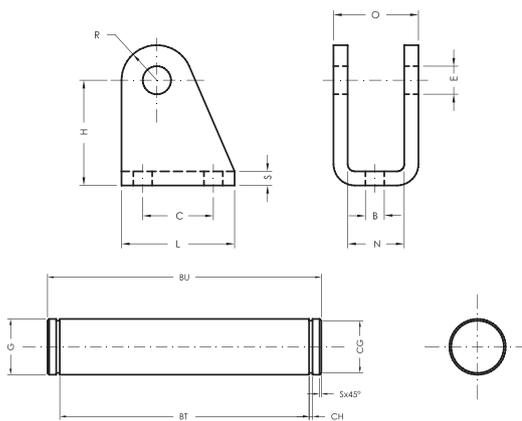


STAINLESS  
STEEL  
PAG. 43

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

## ISO 6432 NORM FOR MICROCYLINDERS

### FEMALE HINGE WITH PIN



CODE ORDERING

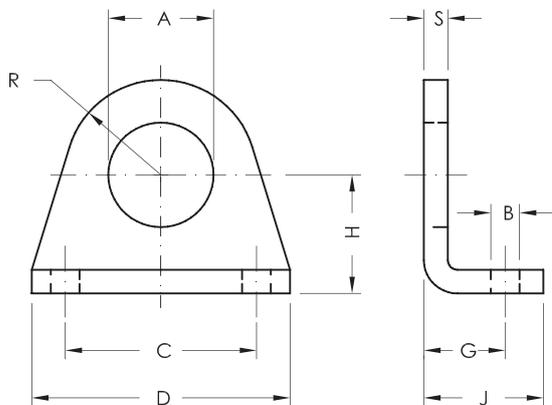
**US16** / diam.

Weight peso (g)	D.cil.	B H 13	E F 8	C JS 13	H ±0.2	L	N E 9	O	R max	S ±0.2
17	8-10	4.5	4	12.5	24	20	8.1	13	5	2.5
31	12-16	5.5	6	15	27	25	12.1	18	7	3
67	20-25	6.6	8	20	30	32	16.1	24	10	4

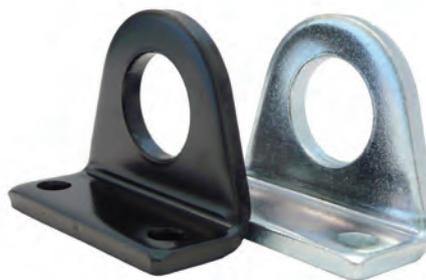
Weight peso (g)	D.cil.	G 17	BT +0.3 0	CG +0.1 0	CH +0.1 0	BU +0.5 0	S
3	8-10	4	14	3.7	0.5	17	0.2
5	12-16	6	19	5.6	0.8	23	0.4
11	20-25	8	25.2	7.5	0.9	29.5	0.5

Material: steel  
Treatment: black cataphoresis or white zinc coating

# PEDESTAL



Weight peso (g)	D.cil.	A +0.2 -0.1	B H 13	C JS 13	D	G +0.3 0	H ±0.2	J	R max	S ±0.2
20	8-10	12	4.5	25	35	11	16	16	10	3
40	12-16	16	5.5	32	42	14	20	20	12.5	4
90	20-25	22	6.6	40	54	17	25	25	20	5

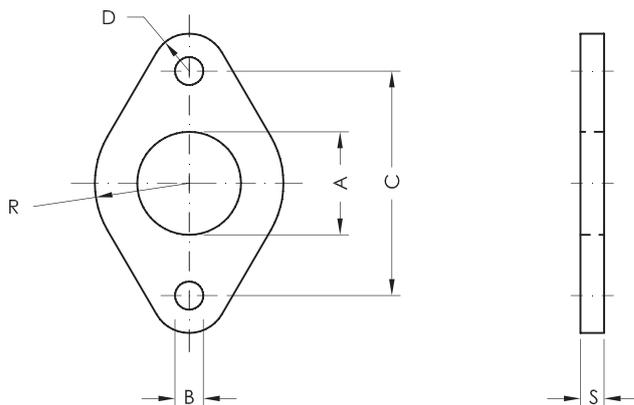


CODE ORDERING

**US15** / diam.

Material: steel  
Treatment: black cataphoresis or white zinc coating

# FLANGE



Weight peso (g)	D.cil.	A +0.3 -0.1	B H 13	C JS 13	R ±0.2	D ±0.2	S ±0.2
12	8-10	12	4.5	30	11	5	3
26	12-16	16	5.5	40	15	6	4
50	20-25	22	6.6	50	20	8	5

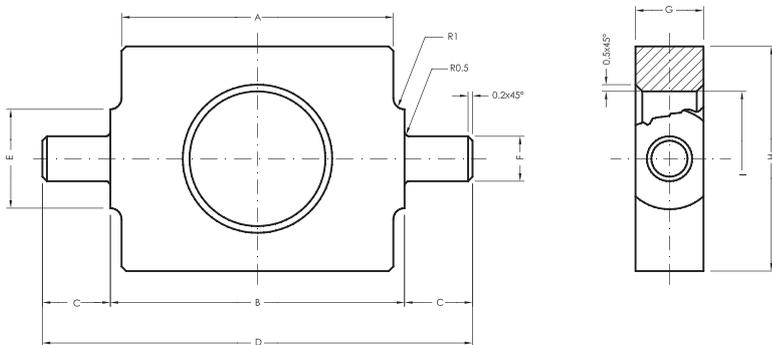
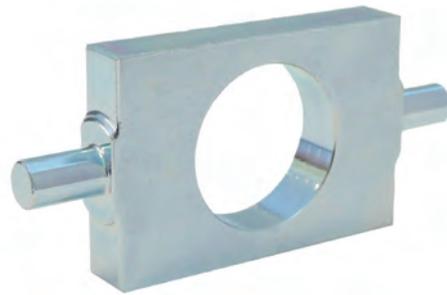


CODE ORDERING

**US14** / diam.

Material: steel  
Treatment: black cataphoresis or white zinc coating

# INTERMEDIATE HINGE



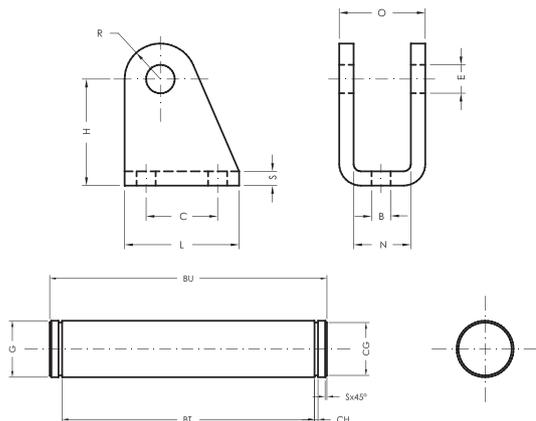
CODE ORDERING

**US97** / diam.

Weight peso (g)	D.cil.	A	B 0 -0.2	C	D	E	F e 9	G	H	I +0.15 +0.05
18	8-10	24	26	6	38	9	4	6	20	12
35	12-16	36	38	10	58	13	6	8	25	16
45	20-25	44	46	10	66	13	6	8	30	22

Material: steel  
Treatment: white zinc coating

# FEMALE HINGE WITH PIN



CODE ORDERING

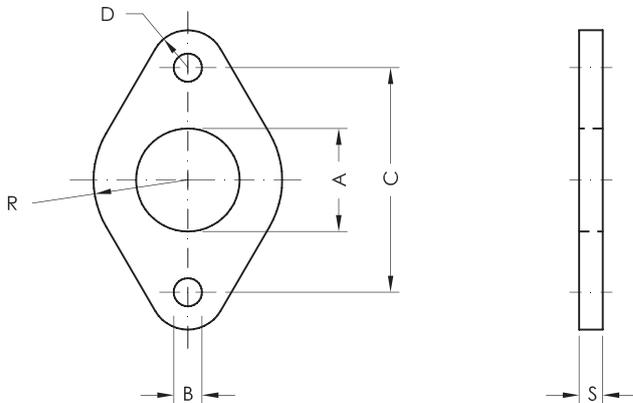
**USIN16** / diam.

Weight peso (g)	D.cil.	B H 13	E F 8	C JS 13	H ±0.2	L	N E 9	O	R max	S ±0.2
17	8-10	4.5	4	12.5	24	20	8.1	13	5	2.5
31	12-16	5.5	6	15	27	25	12.1	18	7	3
67	20-25	6.6	8	20	30	32	16.1	24	10	4

Weight peso (g)	D.cil.	G 17	BT +0.3 0	CG +0.1 0	CH +0.1 0	BU +0.5 0	S
3	8-10	4	14	3.7	0.5	17	0.2
5	12-16	6	19	5.6	0.8	23	0.4
11	20-25	8	25.2	7.5	0.9	29.5	0.5

Material: stainless steel AISI 304

# FLANGE

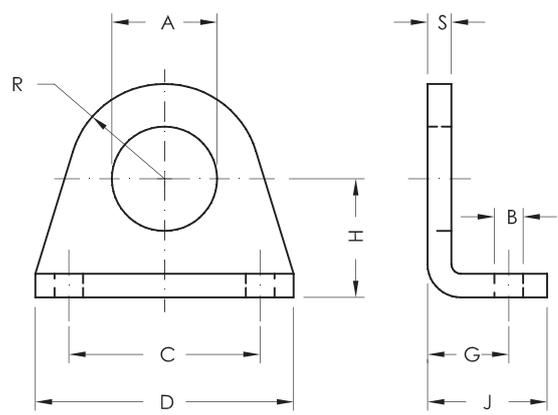


CODE ORDERING  
**USIN14** / diam.

Weight peso (g)	D.cil.	A +0.3 +0.1	B H 13	C JS 13	R ±0.2	D ±0.2	S ±0.2
12	8-10	12	4.5	30	11	5	3
26	12-16	16	5.5	40	15	6	4
50	20-25	22	6.6	50	20	8	5

Material: stainless steel AISI 304

# PEDESTAL



CODE ORDERING  
**USIN15** / diam.

Weight peso (g)	D.cil.	A +0.2 +0.1	B H 13	C JS 13	D	G +0.3 0	H ±0.2	J	R max	S ±0.2
20	8-10	12	4.5	25	35	11	16	16	10	3
40	12-16	16	5.5	32	42	14	20	20	12.5	4
90	20-25	22	6.6	40	54	17	25	25	20	5
126	32*	30.1	6.6	48	65	15	32	29	24	5

Material: stainless steel AISI 304

# FOR COMPACT CYLINDERS



ALUMINIUM

PAG. 45



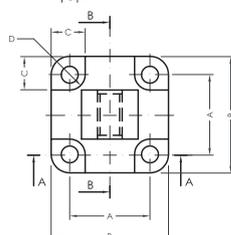
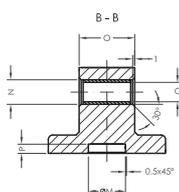
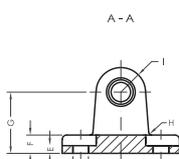
STEEL

PAG. 47

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

## FOR COMPACT CYLINDERS

# MALE HINGE



### BUSSOLE DA USARE

	EST.	INT.	LUNG.	N° x PZ
* d.12÷16	8	6	10	1
d.20	10	8	12	1
d.25	10	8	12	1



### CODE ORDERING

**US77** / diam.

WITH BUSHES

**US61** / diam.

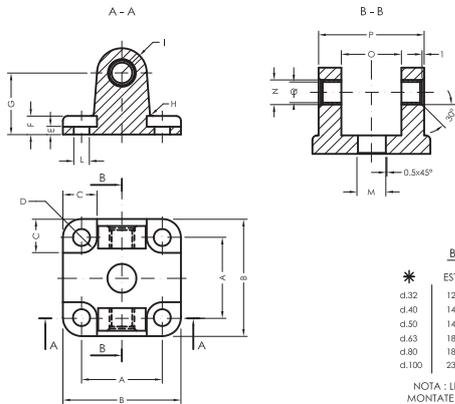
WITHOUT BUSHES

Weight peso (g)	D.cil. ±0.2	A ±0.2	B ±0.5	C 3,75	D ±0.5	E 0 -0.4	F ±0.2	G ±0.2	H	I	L H 13	M H 11	N H 7	O h 14	P +0.3 0	Q
17	12-16	18	27	8,25	3,75	2,6	6	16	2	6	4,5	10	8	12	3	6
21	20	22	34	11	5	2,6	6	20	2	8	5,5	12	10	16	3	8
27	25	26	38	11	5	2,6	6	20	2	8	5,5	12	10	16	3	8

Material: aluminium  
Available with or without bushes

FOR COMPACT CYLINDERS

# FEMALE HINGE



**BUSSOLE DA USARE**

* d.cil.	EST.	INT.	LUNG.	N° x PZ
d.32	12	10	8	2
d.40	14	12	10	2
d.50	14	12	12	2
d.63	18	16	12	2
d.80	18	16	15	2
d.100	23	20	20	2

NOTA - LE BUSSOLE DEVONO ESSERE MONTATE A FILO DELL'INTERNO SPALLA

Weight peso (g)	D.cil. ±0.2	A ±0.2	B ±0.5	C ±0.2	D ±0.5	E ±0.5	F 0 -0.4	G ±0.2	H H 13	I H 13	L H 13	M H 11	N H 7	O H 14	P h 14	Q
60	32	32	48	13.5	5.5	5.5	9	22	2.5	10	6.6	14	12	26	45	10
104	40	42	58	13.5	5.5	5.5	9	25	2.5	12.5	6.6	14	14	28	52	12
142	50	50	66	15.5	7.5	6.5	11	27	2.5	12.5	9	18	14	32	60	12
240	63	62	83	18	7.5	6.5	11	32	4	15	9	18	18	40	70	16
420	80	82	102	19	9	10	13	36	4	15	11	23	18	50	90	16
721	100	103	123	19	9	10	15	41	4	20	11	28	23	60	110	20



CODE ORDERING

**US77 / diam.**

WITH BUSHES

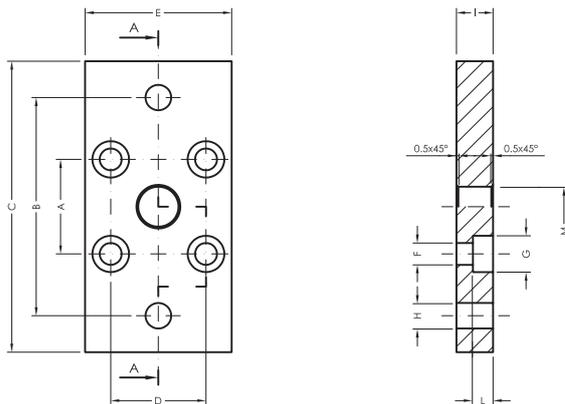
**US61 / diam.**

WITHOUT BUSHES

Material: aluminium  
Available with or without bushes

FOR COMPACT CYLINDERS

# FLANGE



CODE ORDERING

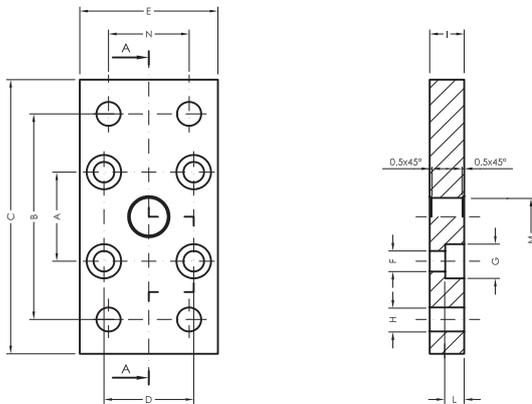
**US70 / diam.**

Weight peso (g)	D.cil.	A ±0.2	B ±0.2	C ±0.2	D ±0.2	E ±0.2	F H 13	G H 13	H H 13	I ±0.2	L ±0.2	M H 11
34	12-16	18	43	55	18	29	4.5	9	5.5	10	5.4	10
55	20	22	55	70	22	36	5.5	10	6.6	10	5.4	12
68	25	26	60	76	26	40	5.5	10	6.6	10	5.4	12

Material: aluminium

FOR COMPACT CYLINDERS

# FLANGE



CODE ORDERING

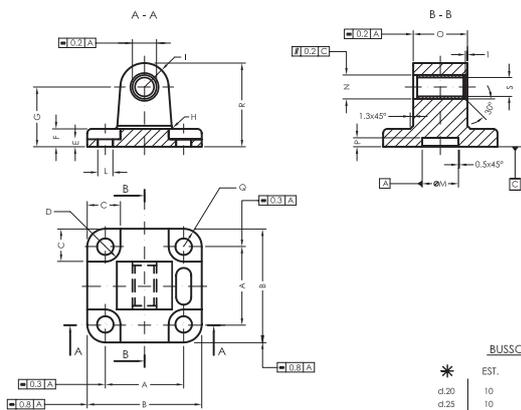
**US70** / diam.

Weight peso (g)	D.cil. ±0.2	A ±0.2	B ±0.2	C ±0.2	D ±0.2	E ±0.2	F H 13	G H 13	H H 13	I ±0.2	L ±0.2	M H 11	N ±0.2
88	32	32	65	80	32	50	6.6	11	7	10	6.4	14	32
143	40	42	82	102	42	60	6.6	11	9	10	6.4	14	36
204	50	50	90	110	50	68	9	15	9	12	8.6	18	45
411	63	62	110	130	62	87	9	15	9	15	8.6	18	50
616	80	82	135	160	82	107	11	18	12	15	10.6	23	63
890	100	103	163	190	103	128	11	18	14	15	10.6	28	75

Material: aluminium

FOR COMPACT CYLINDERS

# MALE HINGE



CODE ORDERING

**US73** / diam.

WITH BUSHES

**US72** / diam.

WITHOUT BUSHES

BUSSOLE DA USARE

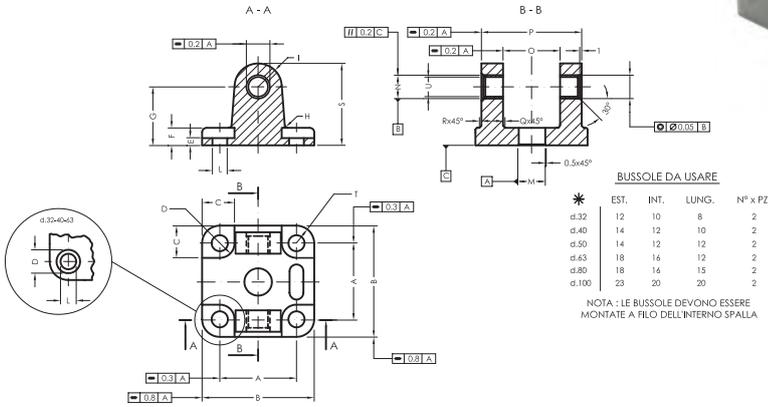
	EST.	INT.	LUNG.	N° x PZ
* d.20	10	8	12	1
d.25	10	8	12	1

Weight peso (g)	D.cil. ±0.2	A ±1	B ±1	C ±0.5	D ±0.5	E 0 ±0.15	F ±0.4	G ±0.15	H	I H 13	L H 11	M H 7	N h 14	O	P	Q	R	S
64	20	22	34	11	5	2.6	6	20	2	8	5.5	12	10	16	3	6	28	8
80	25	26	38	11	5	2.6	6	20	2	8	5.5	12	10	16	3	6	28	8

Material: steel  
Available with or without bushes  
Treatment: black cataphoresis

FOR COMPACT CYLINDERS

# FEMALE HINGE



CODE ORDERING

**US73 / diam.**

WITH BUSHES

**US72 / diam.**

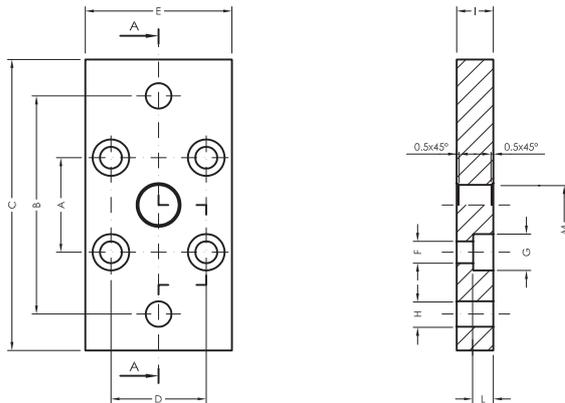
WITHOUT BUSHES

Weight peso (g)	D.cil. ±0.2	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U
		±0.2			±0.5	0 ±0.4	±0.15		H 13	H 11	H 7	H 14	h 14							
178	32	32	48 <sub>±1</sub>	-11 <sub>H13</sub>	5.5	9	22	2.5	10	6.6	14	12	26	45	1.3	1.5	32	8	10	
313	40	42	58 <sub>±1</sub>	-11 <sub>H13</sub>	5.5	9	25	2.5	12.5	6.6	14	14	28	52	1.3	1.3	37.5	9	12	
431	50	50	66 <sub>±1</sub>	15.5	7.5	6.5	11	27	2.5	12.5	9	18	14	32	60	1.5	1.5	39.5	8	12
707	63	62	83 <sub>±1</sub>	-15 <sub>H13</sub>	6.5	11	32	4	15	9	18	18	40	70	1.5	1.5	47	10.5	16	
1213	80	82	102 <sub>±1</sub>	19	9	10	13	36	4	15	11	23	18	50	90	1.5	1.5	51	10	16
2200	100	103	123 <sub>±1</sub>	19	9	10	15	41	4	20	11	28	23	60	110	1.5	1.5	61	9	20

Material: steel  
Available with or without bushes  
Treatment: black cataphoresis

FOR COMPACT CYLINDERS

# FLANGE



CODE ORDERING

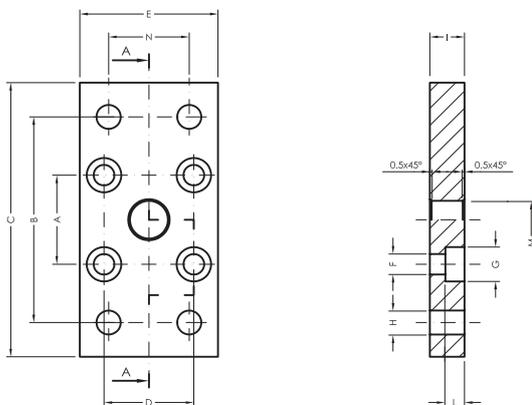
**US60 / diam.**

Weight peso (g)	D.cil.	A	B	C	D	E	F	G	H	I	L	M	
		±0.2	±0.2	±0.2	±0.2	±0.2		H 13	H 13	H 13	±0.2	±0.2	H 11
10	12-16	18	43	55	18	29	4.5	9	5.5	10	5.4	10	
16	20	22	55	70	22	36	5.5	10	6.6	10	5.4	12	
20	25	26	60	76	26	40	5.5	10	6.6	10	5.4	12	

Material: steel  
Treatment: white zinc coating

FOR COMPACT CYLINDERS

# FLANGE



CODE ORDERING

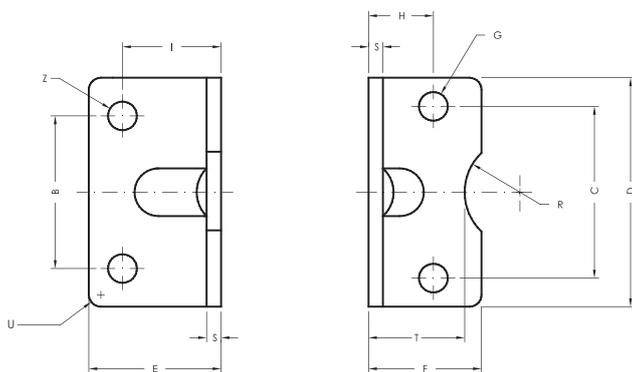
**US60** / diam.

Weight peso (g)	D.cil.	A ±0.2	B ±0.2	C ±0.2	D ±0.2	E ±0.2	F H 13	G H 13	H H 13	I ±0.2	L ±0.2	M H 11	N ±0.2
260	32	32	65	80	32	50	6.6	11	7	10	6.4	14	32
420	40	42	82	102	42	60	6.6	11	9	10	6.4	14	36
600	50	50	90	110	50	68	9	15	9	12	8.6	18	45
1200	63	62	110	130	62	87.9	11	15	9	15	8.6	18	50
1800	80	82	135	160	82	107	11	18	12	15	10.6	23	63
2550	100	103	163	190	103	128	11	18	14	15	10.6	28	75

Material: steel  
Treatment: white zinc coating

FOR COMPACT CYLINDERS

# LOW-RISE PEDESTAL



RAGGIO DI CURVATURA  
INTERNA DEL PEDINIO  
d.12-16 = 2 ±0.5  
d.20 = 3 ±0.5  
d.25 = 3 ±0.5  
d.32 = 4 ±0.5



CODE ORDERING

**US59** / diam.

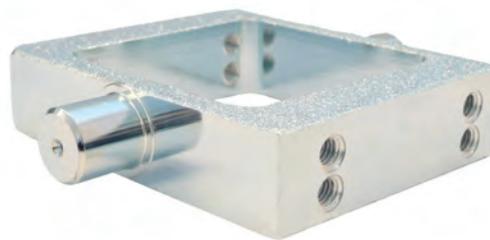
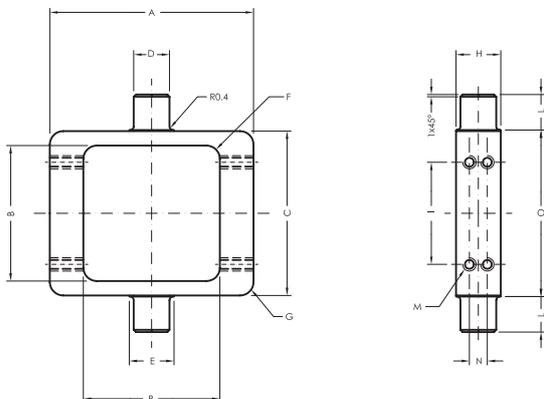
Weight peso (g)	D.cil.	C ±0.2	B ±0.2	D 0 -0.3	E ±1	F ±1	G H 13	H ±0.2	I ±0.2	S ±0.5	T ±0.3	R H 15	U	Z H 13
20	12-16	18	18	30	17.5	17.5	4.4	13	13	3	15	9	2	5.5
32	20	22	22	36	22	22	5.4	16	16	4	17	10	2	6.6
38	25	26	26	40	22	23	5.4	17	16	4	19	11	2	6.6
66	32	32	32	50	26	24	6.6	16	18	5	20	12	2	6.6

Material: steel  
Treatment: white zinc coating



FOR COMPACT CYLINDERS

# INTERMEDIATE HINGE FOR CLEAN PROFILE TYPE EURAL



CODE ORDERING

**US32** / diam.

Weight peso (g)	D.cil.	A +1 0	B +0.5 0	C 0 -0.3	D e 9	E	F	G	H +1 0	I ±0.2	L h 14	M	N ±0.2	O
250	32	70	45	50	12	-	5	4	18	32.5	12	M5	7	50
410	40	78	51	62	16	20	5	5	20	38	16	M5	8	63
530	50	91	60.8	74	16	20	6	6	20	46.5	16	M6	8	75
775	63	94	70.5	88	20	25	6	6	25	56.5	20	M6	12	90
1430	80	130	87.5	109	20	25	7	7	25	72	20	M8	12	110
1950	100	145	107	130	25	30	8	8	30	89	25	M8	15	132
1600	125	154	133	155	25	32	11	8	32	110	25	M10	15	160

Material: steel  
Treatment: with zinc coating  
Note: on request we could execute processing with different measures of the internal profile

ISO 6431  
NORM



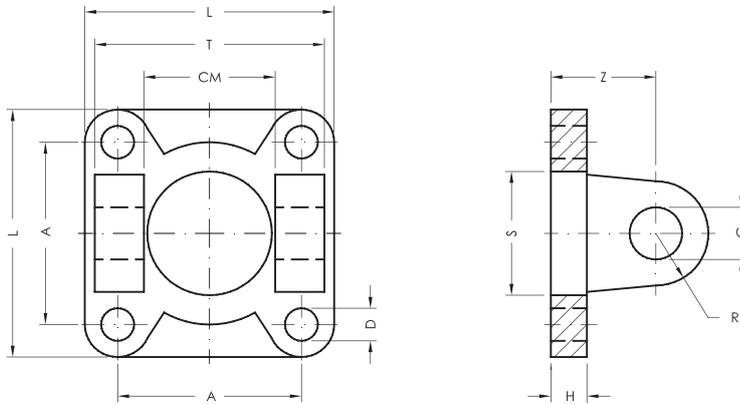
ALUMINIUM

PAG. 52

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

ISO 6431 NORM

# FEMALE HINGE



CODE ORDERING

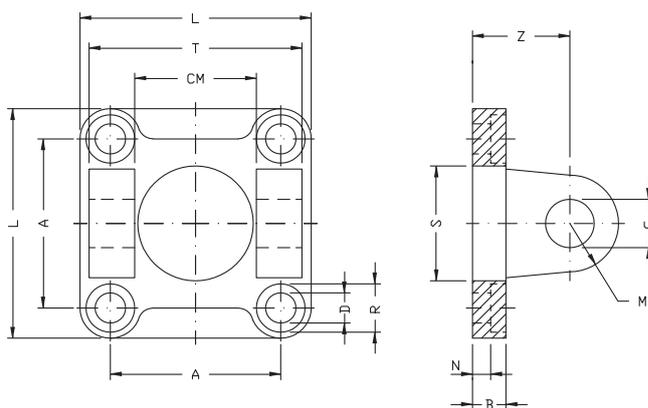
**US37** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	H	CM H 14	T h 14	S H 11	R max	Z ±0.2	G H 9
44	32	32.5	45	7	8	26	45	30	10	22	10
63	40	38	52	7	10	28	52	35	12	25	12
114	50	46.5	65	9	12	32	60	40	12	27	12
171	63	56.5	75	9.5	12	40	70	45	16	32	16
258	80	72	95	11	16	50	90	45	16	36	16
573	100	89	115	11	16	60	110	55	20	41	20

Material: aluminium

ISO 6431 NORM

# FRONT FEMALE HINGE MP2



CODE ORDERING

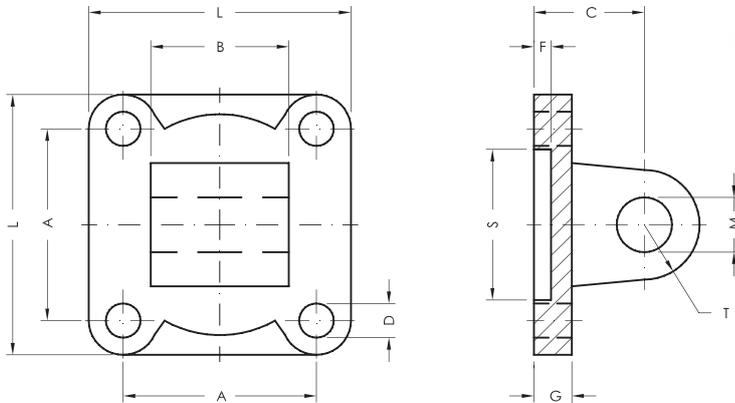
**US37** ANT / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	H	CM H 14	T H 14	S H 11	R max	Z ±0.2	G H 9
44	32	32.5	45	7	8	26	45	30	10	22	10
63	40	38	52	7	10	28	52	35	12	25	12
114	50	46.5	65	9	12	32	60	40	12	27	12
171	63	56.5	75	9.5	12	40	70	45	16	32	16

Material: aluminium

ISO 6431 NORM

# MALE HINGE



CODE ORDERING

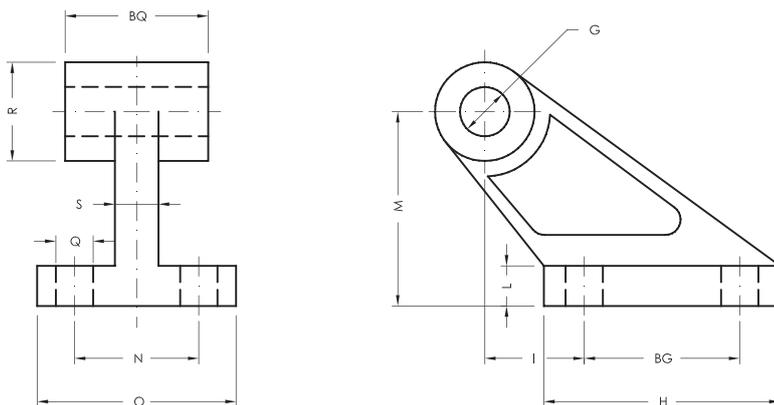
**US38** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	G	F	T max	S H 11	B -0.2 -0.5	C ±0.2	M H 9
56	32	32.5	45	7	10	4	10	30	26	22	10
90	40	38	55	7	10	5	12	35	28	25	12
123	50	46.5	65	9	10	5	12	40	32	27	12
231	63	56.5	75	9	12	5	16	45	40	32	16
408	80	72	95	11	16	5	16	47	50	36	16
646	100	89	115	11	16	5	20	57	60	41	20

Material: aluminium

ISO 6431 NORM

# SQUARE JOINT



CODE ORDERING

**US24** / diam.

Weight peso (g)	D.cil.	Q H 13	BG JS 14	H ±0.5	L ±0.2	M JS 14	N	O	S	R max	BQ -0.2 -0.6	G H 9
54	32	7	20	37	18	8	32	25	41	9	19	26
136	40	9	32	54	25	10	45	32	52	14	25.5	28
140	50	9	32	54	25	10	45	32	52	14	25.5	32
295	63	11	50	75	32	12	63	40	63	14	32	40
313	80	11	50	75	32	12	63	40	63	14	32	50
710	100	14	70	103	40	17	90	50	80	22	42	60
820	125	14	70	103	40	17	90	50	80	22	46	70
1974	160-200	18	110	154	50	20	140	63	110	26	53.5	89

Material: aluminium

## ALUMINIUM

PAG. 54

## STEEL

PAG. 56

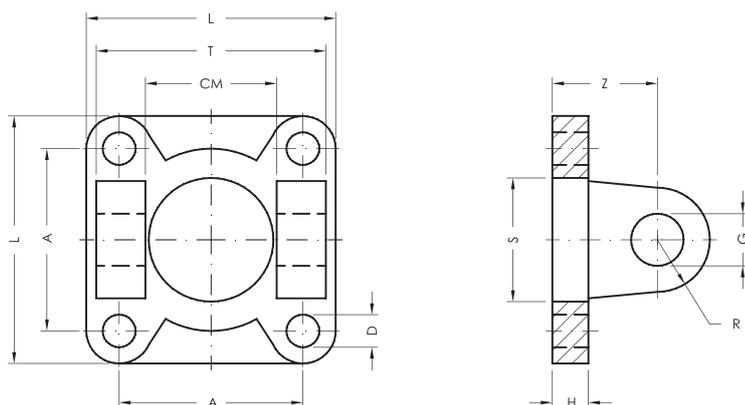


# CETOP NORM

TREATMENT  
black cataphoresis | zinc coating | nickel-plating

## CETOP NORM

# FEMALE HINGE



CODE ORDERING

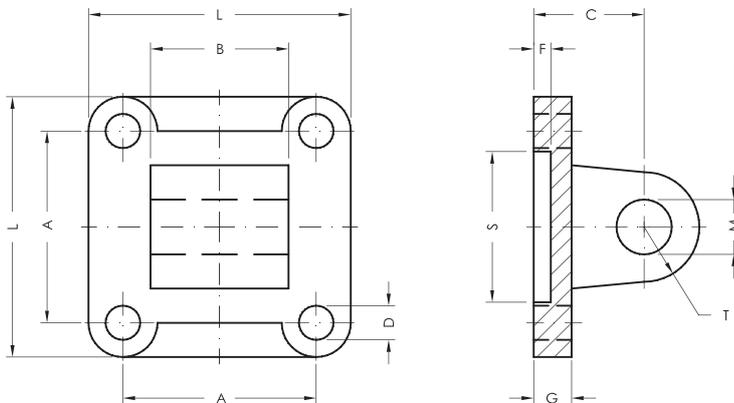
**US40** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	H	CM H 14	T h 14	S H 11	R max	Z ±0.2	G H 9
42	32	33	45	7	8	26	45	25	10	20	10
60	40	40	52	7	8	28	52	32	12	23	12
108	50	49	65	9	10	32	60	32	12	25	12
155	63	59	75	9	10	40	70	45	16	30	16
284	80	75	95	11	12	50	90	45	16	32	16
554	100	90	115	11	12	60	110	55	20	37	20
960	125	110	140	14	16	70	130	55	25	46	25
1720	160	140	180	18	20	90	170	65	25	55	30
2400	200	175	220	18	20	90	170	65	25	55	30

Material: aluminium

CETOP NORM

# MALE HINGE



CODE ORDERING

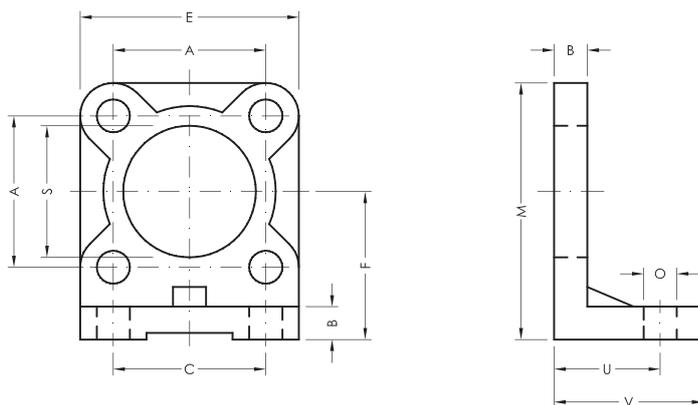
**US41** / diam.

Weight peso (g)	D.cil.	A ±0.2	L	D H 13	G	F	T max	S H 13	B -0.2 -0.6	C ±0.2	M H 9
52	32	33	45	7	8	3.5	10	25	26	20	10
78	40	40	55	7	8	3.5	12	32	28	23	12
102	50	49	65	9	8	4	12	32	32	25	12
188	63	59	75	9	10	4	16	45	40	30	16
318	80	75	95	11	12	4	16	45	50	32	16
520	100	90	115	11	12	4	20	55	60	37	20
1062	125	110	140	14	16	7	25	55	70	46	25
1878	160	140	180	18	20	7	25	65	90	55	30
2500	200	175	220	18	20	7	25	65	90	55	30

Material: aluminium

CETOP NORM

# HIGH PEDESTAL



CODE ORDERING

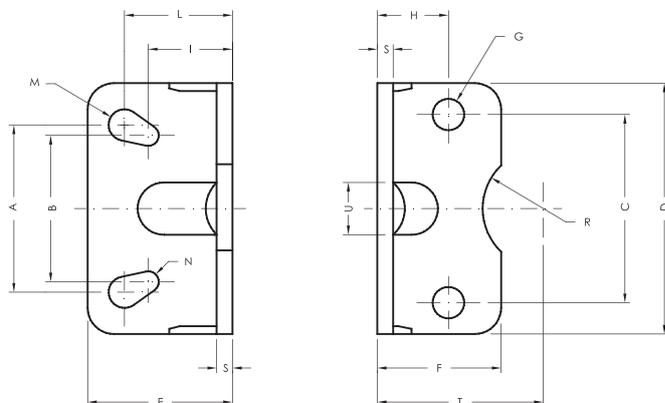
**US42** / diam.

Weight peso (g)	D.cil.	A ±0.2	B	C ±0.2	D H 13	E	F ±0.2	M	O H 13	S H 13	U ±0.2	V
50	32	33	8	32	7	45	32	54.5	7	25	22	35
70	40	40	8	36	7	52	36	62	9	32	26	35
156	50	49	10	45	9	65	45	78	9	32	30	45
173	63	59	10	50	9	75	50	87	9	45	30	45
358	80	75	12	63	11	95	63	110	12	45	37	55
472	100	90	12	75	11	115	71	130	14.5	55	37.5	55
938	125	110	16	90	14	140	91	161	16	55	41	68
2300	160	140	21	115	18	180	115	205	18	65	60	82
3300	200	175	21	135	18	220	135	245	22	65	65	92

Material: aluminium

CETOP NORM

# LOW-RISE PEDESTAL



CODE ORDERING

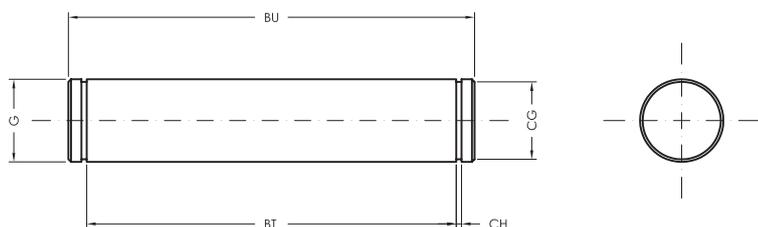
**US52** / diam.

CNOMO AND CETOP	Weight	D.cil.	A	B	C	D	E	F	G	H	I	L	M	N	R	S	T	U
	peso (g)		±0.2	±0.2	±0.2	max		+2 0	H 13	±0.2	±0.2	±0.2	H 13	H 13	+0.5 0	±0.5	±0.2	
	66	32	28	32	33	45	35	30	7	15.5	22	27	4.5	3.5	12.5	4	32	11
	78	40	36	36	40	52	36	30	7	16	26	27	4.5	4.5	16	4	36	15
	168	50	45	45	49	65	45	36	9	20.5	30	35	5.5	4.5	16	5	45	16
	190	63	55	50	59	75	45	35	9	20.5	30	35	5.5	4.5	22.5	5	50	18
	382	80	70	63	75	95	55	45	11	25.5	37	43	7	5.5	22.5	6	63	17
	452	100	90	75	90	115	56	44	11	27	37.5	43	7	6.5	27.5	6	73	24

Material: steel  
Treatment: white zinc coating

CETOP NORM

# PIN FOR FEMALE HINGE MP2



CODE ORDERING

**US07** / diam.

Weight	D.cil.	G	BT	CG	CH	BU
peso (g)		e 8	+0.3 0		H 13	
32	32	10	46	9.6	1.1	53
52	40	12	53	11.5	1.1	60
60	50	12	61	11.5	1.1	68
122	63	16	71	15.2	1.1	78
152	80	16	91	15.2	1.1	98
290	100	20	111	19	1.3	118
530	125	25	132	23.9	1.3	139
978	160	30	171.5	28.6	1.6	178
978	200	30	171.5	28.6	1.6	178
2100	250	40	202	37.5	1.85	211
2950	320	45	222	42.5	1.85	236

Material: steel  
Treatment: white zinc coating



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