



^Q
17

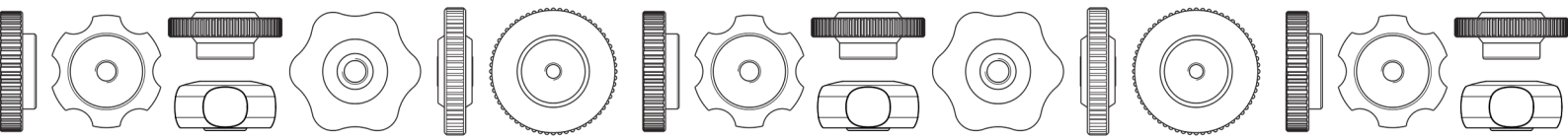


GROUP - 17

PLASTIC AND METAL WASHERS

\$ C Plastic and Metal Washers

A section dedicated to BOTELO's plastic and metal washers. Elements with a large diameter and small thickness, ideal for use as locking system or for operating in very tight spaces. For concave and convex washer pairs according to DIN standard. For detailed information on the specifications of each individual product please consult the technical sheet.



Q260

KNURLED WASHER



Materials:

phenolic resin.
resistant to oils and greases.
resistant to high temperatures.

Surface:

gloss.
(IA 9011).

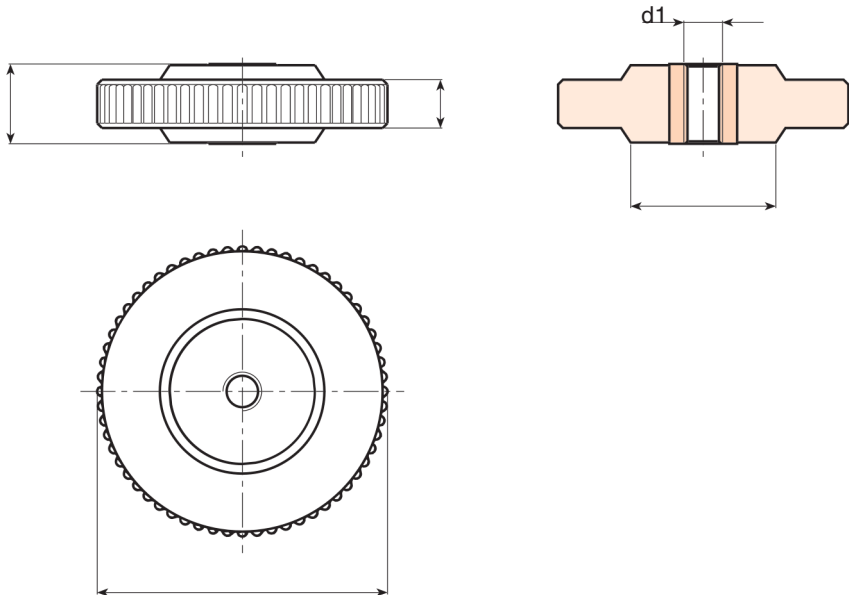
Colour:

black

Inserts:

galvanised steel insert with threaded through hole (thread tolerance 6h).
For other standards or special quantities inserts can be supplied in different materials.

Special Requests:



Code	art.	D	H	d	h	d1 _{6H}	
Q26045.0001	Q26045.BM0601P	47	10	-	-	M6	31
Q26045.0003	Q26045.BM0801P	47	10	-	-	M8	32
Q26045.0005	Q26045.BM1001P	47	10	-	-	M10	34
Q26045.0006	Q26045.BM1201P	47	10	-	-	M12	35
Q26045.0007	Q26045.BM1401P	47	10	-	-	M14	38
Q26045.0008	Q26045.BM1601P	47	10	-	-	M16	42
Q26060.0001	Q26060.BM0801P	60	16	30	11	M8	62
Q26060.0002	Q26060.BM1001P	60	16	30	11	M10	65
Q26060.0003	Q26060.BM1201P	60	16	30	11	M12	68
Q26060.0005	Q26060.BM1401P	60	16	30	11	M14	70
Q26060.0006	Q26060.BM1601P	60	16	30	11	M16	73

Q261

LOBEDWASHER



Materials:
Reinforced polyamide.
Resistant to oils and greases.

Surface:

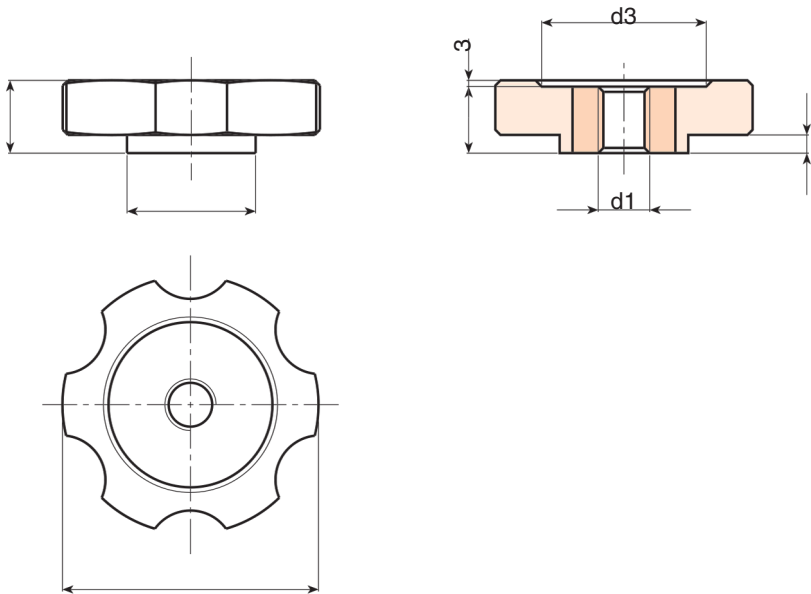
Satin.
(RAL 9011).

Colour:
Black

Inserts:
Galvanised steel insert with threaded through hole (thread tolerance 6H).
Special Requests:
• Supplied in different materials.
• Upon request and for special quantities inserts can be in the colours indicated in the chart [page].



17



Code	art.	D	H	d	m	h3	d3	d16H	Q	
Q26140.0003	Q2614 0 .T M 0 8 01P	40,5	12	25	1,5	1,5	22	M8	10,5	21
Q26140.0005	Q 2614 0 .T M10 0 1P	40,5	12	25	1,5	1,5	22	M10	10,5	22
Q2614 0 . 0 0 07	Q26140.TM1201P	40,5	12	25	1,5	1,5	22	M12	10,5	24
Q2615 0 . 0 0 01	Q26150.TM0801P	50	14	25	3,5	1,5	32	M8	13	31
Q26150.0002	Q26150.TM1001P	50	14	25	3,5	1,5	32	M10	13	32
Q26150.0003	Q26150.TM1201P	50	14	25	3,5	1,5	32	M12	13	35

Q262

KNURLED WASHER



Materials:

Reinforced polyamide.
Resistant to oils and greases.

Surface:

Matte.

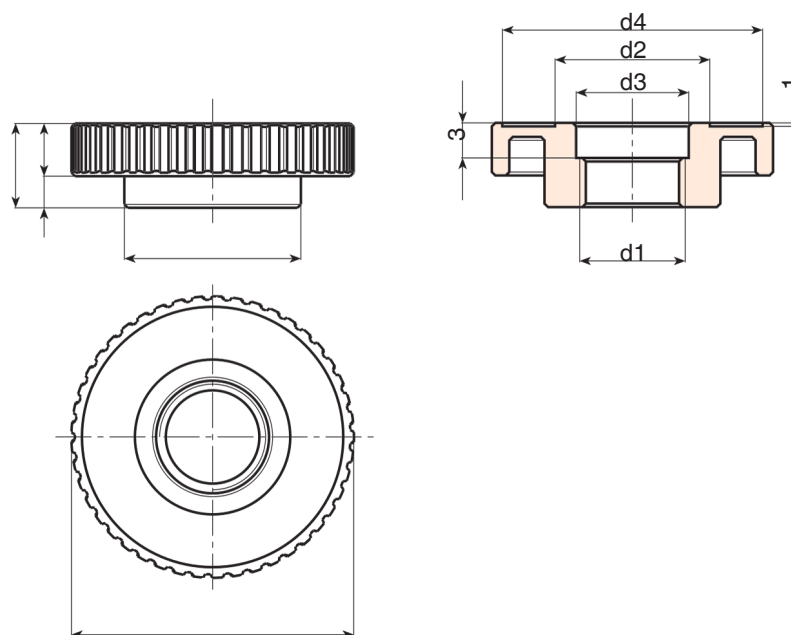
Black (PA 9011).

Colour:

Hole:

Threaded through hole obtained by moulding the plastic
(tolerance not applicable).

Special Requests:
For metal inserts or special quantities hole d1 can be
supplied to customer's drawing.



Code	art.	D	H	d	c	m	h1	h3	d2	d3	d4	d1	
Q26280.0002	Q26280.TB3001P	81	24	50	14.5	9.5	1	10	43.5	32	74	M30x1,5	65

Q263

KNURLED WASHER



Materials:
reinforced polyamide.
resistant to oils and greases.

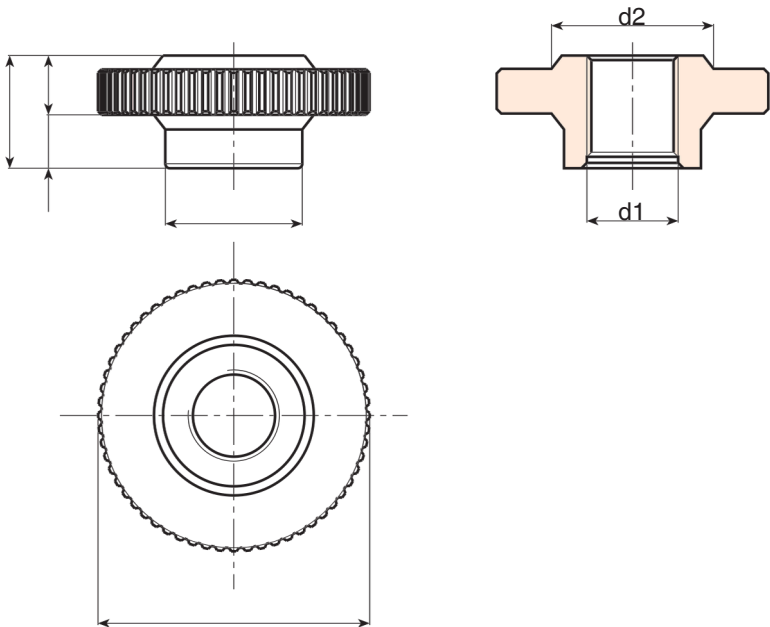
Surface:
polished.

black (PA 9011).
Colour:
Hole:

Threaded through hole obtained by moulding the plastic
(tolerance not applicable).
Special Requests:
For the smallest and/or special quantities hole d1 can be supplied
to customer's drawing.



17



Code	art.	D	H	d	c	m	d2	d1	g
Q26360.0002	Q26360.TM2001P	60	25	30	12	13	35	M20	3
Q26360.0003	Q26360.TM2401P	60	25	30	12	13	35	M24	8

Q264

6-LOBEWASHER



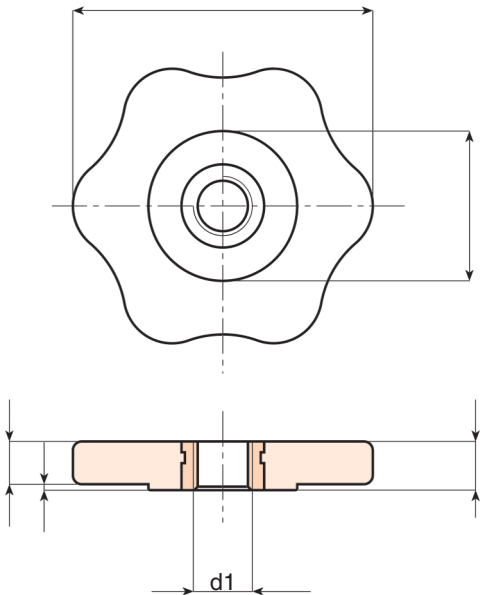
Materials:
Reinforced polyamide.
Resistant to oils and greases.

Surface:

Matte.
(RAL 9011).

Colour:
Black.
Insert with threaded through hole (thread tolerance H7/g6).

- Special Requests:**
- For request and/or special quantities inserts can be supplied in different materials.
 - For request and/or special quantities available in the colours indicated in the chart CErage 959æ.



Code	art.	D	H	d	c	m	d1 _H	
Q26450.0002	Q26450.TM0601P	50	8	25	7	1		M618
Q26450.0003	Q26450.TM0801P	50	8	25	7	1		M818
Q26450.0005	Q26450.TM1001P	50	8	25	7	1		M1020

Q283

4-LOBEWASHER WITH THREADED THROUGH-HOLE INSERT



PA6
+G.F.

UL94
HB

RoHS
COMPLIANT

Materials:

reinforced polyamide. Resistant to oils and greases.

Surface finish:

Matte.

Colour:

Black (RAL 9011).

Inserts:

Version Q283 TM:

Black insert with threaded through hole (thread tolerance 6).

Version Q283 TQ:

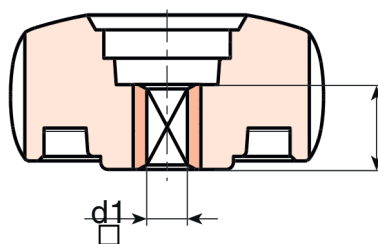
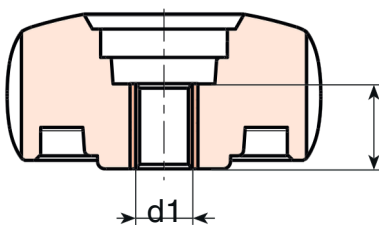
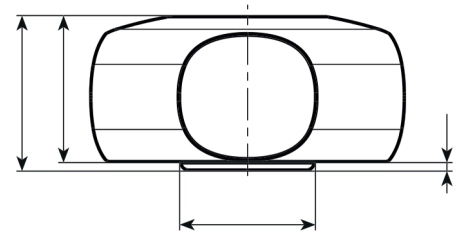
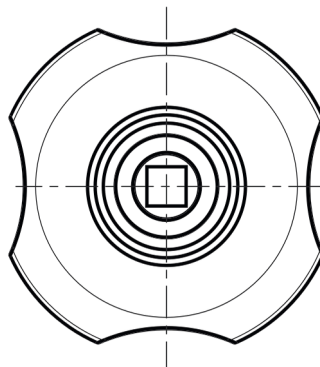
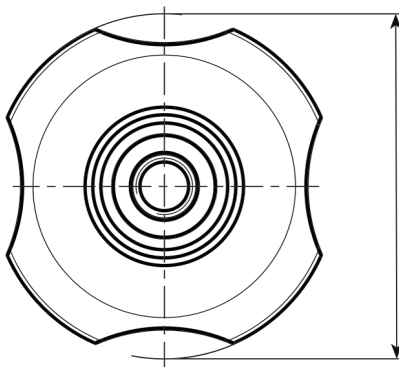
Black insert with square through bore (bore tolerance 7).

Version Q283 TQ-PP:

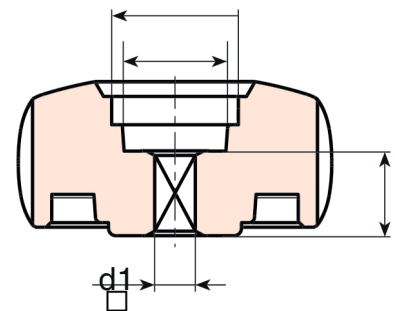
Black insert with smooth through square hole obtained by moulding the plastic.

Special requests:

- In different materials.
- On request and for special quantities inserts can be supplied in different colours.
- On request and for special quantities available in the colours indicated in the chart Cera 959.



TQ



TQ-PP

4-LOBEWASHER WITH THREADED THROUGH-HOLE INSERT



17

Version 283 \$M:)ith brass insert and threaded through hole

Code	art.	D	H	d	d2	d3	c	m	d1 _{6H}	Q	g
Q283 4 0 0 0 02	Q28340.TM0801P	40.5	20	17	18	13	19	1	M8	15	-
Q283 4 0 0 0 0 4	Q28340.TM1001P	40.5	20	17	18	13	19	1	M10	15	-
Q28350.0001	Q28350.TM0801P	49	23	20	20	15	22	1	M8	15	-
Q28360.0001	Q28360.TM1001P	59	27	23	22	18	22k5	1k5	M10	15	-
Q28360.0002	Q28360.TM1201P	59	27	23	22	18	22k5	1k5	M12	15	-
Q28380.0001	Q28380.TM1001P	79	26	30k5	22	19.5	24	2	M10	15	-
Q2838 0 0 0 02	Q28380.TM1201P	79	26	30k5	22	19.5	24	2	M12	15	-

Version 283 \$:)ith brass insert and " &A! hole

Code	art.	D	H	d	d2	d3	c	m	d1 _{H7}	Q	g
Q28340.0005	Q28340.TQ0601P	40.5	20	17	18	13	19	1	6	15	-
Q28350.0002	Q28350.TQ0601P	49	23	20	20	15	22	1	6	15	-
Q28350.0004	Q28350.TQ0701P	49	23	20	20	15	22	1	7	15	-
Q28360.0003	Q28360.TQ0601P	59	27	23	22	18	22k5	1k5	6	15	-
Q28360.0005	Q28360.TQ0701P	59	27	23	22	18	22k5	1k5	7	15	-
Q28360.0007	Q28360.TQ0801P	59	27	23	22	18	22k5	1k5	8	15	-
Q28380.0003	Q2 8 3 8 0 .TQ 0701P	79	26	30k5	22	20	24	2	7	15	-
Q28380.0005	Q28380.TQ0801P	79	26	30k5	22	20	24	2	8	15	-
Q28380.0007	Q28380.TQ0901P	79	26	30k5	22	20	24	2	9	15	-
Q28380.0009	Q2 8 3 8 0 .TQ10 01P	79	26	30k5	22	20	24	2	10	15	-

Version 283\$ - :)ith " &A! hole in the rlastic

Code	art.	D	H	d	d2	d3	c	m	d1 _{±0,1}	Q	g
Q28340.0006	Q28340.TQ0601PP	40.5	20	17	18	13	19	1	6	15	-
Q28350.0003	Q28350.TQ0601PP	49	23	20	20	15	22	1	6	15	-
Q28350.0005	Q28350.TQ0701PP	49	23	20	20	15	22	1	7	15	-
Q28360.0 0 0 4	Q28360.TQ0601PP	59	27	23	22	18	22k5	1k5	6	15	-
Q28360.0006	Q2 8 3 6 0 .TQ 0701P P	59	27	23	22	18	22k5	1k5	7	15	-
Q28360.0 0 0 8	Q28360.TQ0801PP	59	27	23	22	18	22k5	1k5	8	15	-
Q2838 0 0 0 0 4	Q2 8 3 8 0 .TQ 0701P P	79	26	30k5	22	20	24	2	7	15	-
Q28380.0006	Q28380.TQ0801PP	79	26	30k5	22	20	24	2	8	15	-
Q28380.0008	Q28380.TQ0901PP	79	26	30k5	22	20	24	2	9	15	-
Q28380.0010	Q2 8 3 8 0 .TQ10 01P P	79	26	30k5	22	20	24	2	10	15	-

Q284

4-LOBEWASHER WITH THROUGH-HOLE INSERT AND CENTRAL CAP



Materials:

Material: polyamide. Resistant to oils and greases.

Surface finish:

Matte.

Colour:

Black (IA 9011).

Central cap:

Material: polyamide (IA 7035). 13.

Alternative cap colours:

Range (IA 2004 code 02).

Blue (IA 5015 code 07).

Yellow (IA 1021 code 10).

Green (IA 6024 code 17).

Red (IA 3000 code 16).

Black (IA 9011 code 01).

Inserts:

Version Q284 TM:

Mass insert with threaded through hole (thread tolerance 6).

Version Q284 TQ:

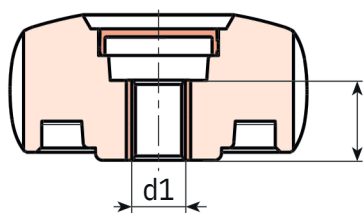
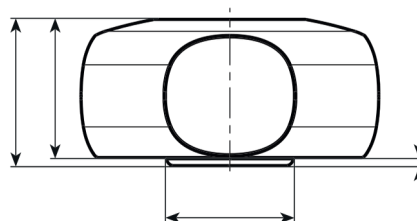
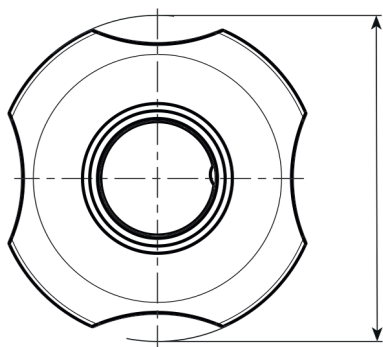
Mass insert with square through bore (bore tolerance 7).

Version Q284 TQ-PP:

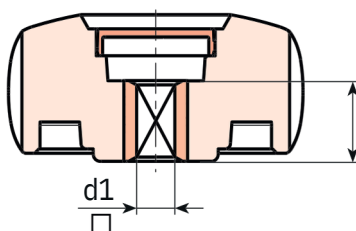
Without insert with smooth through square hole obtained by moulding the plastic.

Special requests:

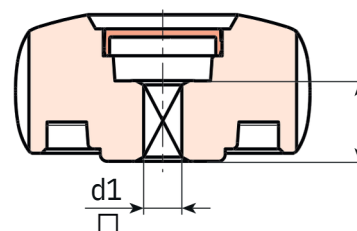
- For request and/or special quantities inserts can be supplied in different materials.
- For request and/or special quantities available in the colours indicated in the chart CErage 959æ.



TM



TQ



TQ-PP

Q284

4-LOBEWASHER WITH THROUGH-HOLE INSERT AND CENTRAL CAP



17

Version 284 \$M:)ith brass insert and threaded through hole

Code	art.	D	H	d	d2	d3	c	m	d1 _{6H}	Q	g
Q28 4 4 0.0 0 03	Q28440.TM0801P	40.5	20	17	18	13	19	1	M8	15	-
Q28440.0004	Q28440.TM1001P	40.5	20	17	18	13	19	1	M10	15	-
Q28450.0001	Q28450.TM0801P	49	23	20	20	15	22	1	M8	15	-
Q28460.0001	Q28460.TM1001P	59	27	23	22	18	22k5	1k5	M10	15	-
Q28 460.0 0 0 02	Q28460.TM1201P	59	27	23	22	18	22k5	1k5	M12	15	-
Q28 48 0.0 0 0 01	Q28480.TM1001P	79	26	30k5	22	20	24	2	M10	15	-
Q28 48 0.0 0 0 02	Q28480.TM1201P	79	26	30k5	22	20	24	2	M12	15	-

Version 284 \$:)ith brass insert and " &A! hole

Code	art.	D	H	d	d2	d3	c	m	d1 _{H7}	Q	g
Q28 4 4 0.0 0 0 05	Q28440.TQ0601P	40.5	20	17	18	13	19	1	6	15	-
Q28 450.0 0 0 0 02	Q28450.TQ0601P	49	23	20	20	15	22	1	6	15	-
Q28450.0004	Q28450.TQ0701P	49	23	20	20	15	22	1	7	15	-
Q28460.0003	Q28460.TQ0601P	59	27	23	22	18	22k5	1k5	6	15	-
Q28460.0005	Q28460.TQ0701P	59	27	23	22	18	22k5	1k5	7	15	-
Q28460.0007	Q28460.TQ0801P	59	27	23	22	18	22k5	1k5	8	15	-
Q28480.0003	Q2 8 4 8 0 .TQ 0701P	79	26	30k5	22	20	24	2	7	15	-
Q28480.0005	Q28480.TQ0801P	79	26	30k5	22	20	24	2	8	15	-
Q28480.0007	Q28480.TQ0901P	79	26	30k5	22	20	24	2	9	15	-
Q28480.0009	Q2 8 4 8 0 .TQ10 01P	79	26	30k5	22	20	24	2	10	15	-

Version 284\$ - :)ith " &A! hole in the rlastic

Code	art.	D	H	d	d2	d3	c	m	d1 _{±0,1}	Q	g
Q28 4 4 0.0 0 0 06	Q28440.TQ0601PP	40.5	20	17	18	13	19	1	6	15	-
Q28450.0003	Q28450.TQ0601PP	49	23	20	20	15	22	1	6	15	-
Q28450.0005	Q2 8 4 5 0 .TQ 0701P P	49	23	20	20	15	22	1	7	15	-
Q28 460.0 0 0 0 4	Q28460.TQ0601PP	59	27	23	22	18	22k5	1k5	6	15	-
Q28460.0006	Q2 8 4 6 0 .TQ 0701P P	59	27	23	22	18	22k5	1k5	7	15	-
Q28460.0008	Q28460.TQ0801PP	59	27	23	22	18	22k5	1k5	8	15	-
Q28 48 0.0 0 0 0 4	Q2 8 4 8 0 .TQ 0701PP	79	26	30k5	22	20	24	2	7	15	-
Q28480.0006	Q28480.TQ0801PP	79	26	30k5	22	20	24	2	8	15	-
Q28 48 0.0 0 0 0 8	Q28480.TQ0901PP	79	26	30k5	22	20	24	2	9	15	-
Q28480.0010	Q2 8 4 8 0 .TQ10 01PP	79	26	30k5	22	20	24	2	10	15	-

W184

STEELWASHER WITH SMOOTH BORE



Materials:

W18 4:

"teel with strength class 3.8.

W184PIN:

"tainless steel (Aisi 303).

Surface finish:

\$urnedwithlow roughness.

Colour:

W18 4:

"tandard blue inc rlatin (galvanic treatment).

W184 PIN:

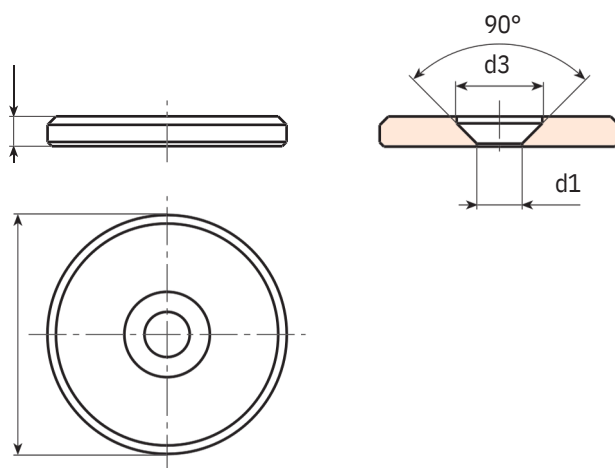
Natural.

Hole:

"mooth through bore machined =rom solid metal (hole tolerance 10).

Special requests:

- None.



Version)184 - nickel-rated steel

Code	Art.	d	D	H	d1 _{H10}	g
-	W18 416 .V P4 , 5Z	16	3	8	4,5 x M4	4.5
-	W18 42 0 .V P4 , 5Z	20	3	8	4,5 x M4	7
-	W18 42 2 .V P5 , 5Z	22	3.5	10	5,5 x M5	10
-	W18 42 5 .V P5 , 5Z	25	3.5	10	5,5 x M5	13
-	W18 42 8 .V P5 , 5Z	28	3.5	10	5,5 x M5	16
-	W18 4 32 .V P6 , 5Z	32	4	12	6,5 x M6	24
-	W18436.VP6,5Z	36	4	12	6,5 x M6	31
-	W18440.VP6,5Z	40	5	12	6,5 x M6	48

Version)184 IN - stainless steel (Aisi 303)

INOX

Code	Art.	d	D	H	d1 _{H10}	g
-	W18416.IP4,5PIN	16	3	8	4,5 x M4	4.5
-	W18420.IP4,5PIN	20	3	8	4,5 x M4	7
-	W18422.IP5,5PIN	22	3.5	10	5,5 x M5	10
-	W18425.IP5,5PIN	25	3.5	10	5,5 x M5	13
-	W18428.IP5,5PIN	28	3.5	10	5,5 x M5	16
-	W18432.IP6,5PIN	32	4	12	6,5 x M6	24
-	W18436.IP6,5PIN	36	4	12	6,5 x M6	31
-	W18440.IP6,5PIN	40	5	12	6,5 x M6	48

Y319

DIN6319ed. 10/01 - STEEL CONVEX C DESIGN WASHER



Materials:

Y319:
Case-hardened steel.

Y319PIN:
Stainless steel (Aisi 303).

Surface finish:

Y319:
Smooth, case-hardened.

Y319PIN:
Natural, untreated.

Colour:

Y319:
Standard black-oxide treatment.

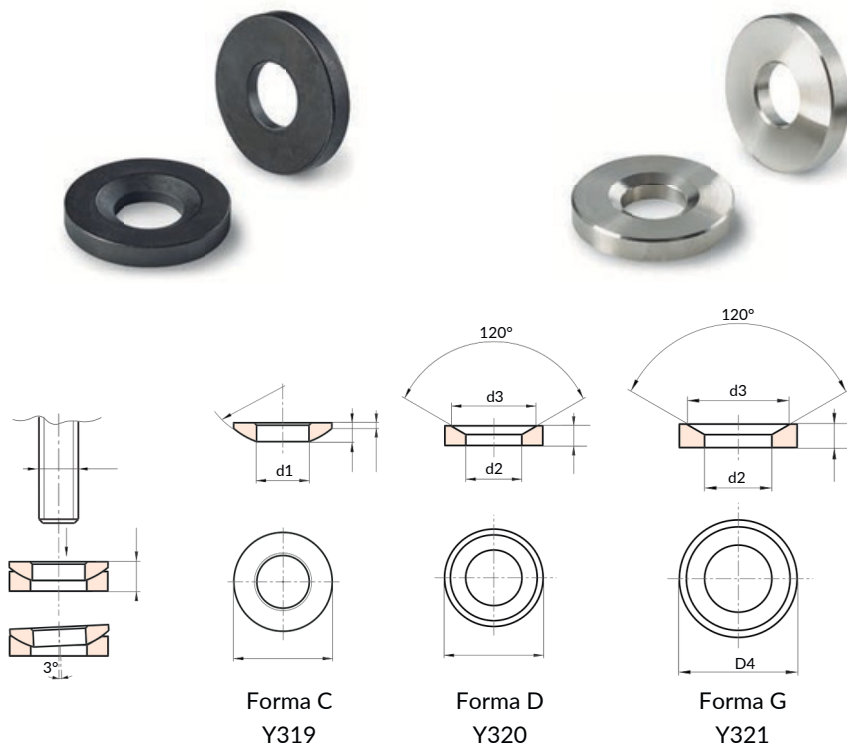
Y319PIN:
Natural.

Special requests:

- None.

Notes:

Attention: convex washer Y319 must be used with concave washer Y320 or Y321 (to be ordered separately).



Forma C
Y319

Forma D
Y320

Forma G
Y321

Version DIN 6319 C Design - black-oxide treated steel convex washer

Code	Art.	D	R	h	d1 _{H13}	M	Q	Max. permissible static load	kN	g
Y319 010 . 0	Y319010.SD05.25	10.5	7.5	0.4	5.25	M05	2	-	0.7	
0 01	Y319012.SD06.4	12	9	0.7	6.4	M06	2.3	9	1	
Y319012.000	Y319017.SD08.4	17	12	0.6	8.4	M08	3.2	17	2.8	
2	Y319021.SD10.5	21	15	0.8	10.5	M10	4	26	5	
Y319017.000	Y319 0 24 . S D13	24	17	1.1	13	M12	4.6	38	8	
2	Y319028.SD15	28	22	1.2	15	M14	5	53	11	
Y319021.000	Y319030.SD17	30	22	1.3	17	M16	5.3	73	13	
2	Y319036.SD21	36	27	2	21	M20	6.3	117	23	
Y319024.000	Y319044.SD25	44	32	2.4	25	M24	8.2	168	21	
2	Y319056.SD31	56	41	3.6	31	M30	11.2	269	103	
Y319028.000	Y319068.SD37	68	50	4.6	37	M36	14	394	188	
1	Y319078.SD43	78	58	6.5	43	M42	17	542	316	
Y319030.000	Y319092.SD50	92	67	8	50	M48	21	714	549	
2	Y31910 3 . S D5 8	103	79	9.5	58	M56	23	-	748	
Y319036.000	Y319120.SD66	120	93	12	66	M64	27	-	1239	

Y319044.000

2

Version DIN 6319 C Design - stainless steel (Aisi 303) convex washer

INOX

Code	Art.	D	R	h	d1 _{H13}	M	Q	Max. permissible static load	kN	g
Y319012.000	Y319012.ID06.4PIN	12	9	0.7	6.4	M06	2.3	6	1	
0 01	Y319017.ID08.4PIN	17	12	0.6	8.4	M08	3.2	12	2.8	
Y319012.000	Y319021.ID10.5PIN	21	15	0.8	10.5	M10	4	16	5	
2	Y31910 3 .	24	17	1.1	13	M12	4.6	24	7	
Y319021.000	Y319030.ID17PIN	30	22	1.3	17	M16	5.3	45	13	
Y31912 0 . 0	Y319036.ID21PIN	36	27	2	21	M20	6.3	71	24	
Y319024.000	Y319044.ID25PIN	44	32	2.4	25	M24	8.2	105	44	
1	Y319056.ID31PIN	56	41	3.6	31	M30	11.2	191	106	
Y319030.000	Y319068.ID37PIN	68	50	4.6	37	M36	14	-	194	
1	Y319078.ID43PIN	78	58	6.5	43	M42	17	-	311	
Y319036.000	Y319092.ID50PIN	92	67	8	50	M48	21	-	550	

Y319044.000

1

Y319056.000

1

Y319068.000



688 ()

DIN6319ed. 10/01 - CONCAVE D DESIGN WASHER



Materials:

Y32 0:

Case-hardened steel.

Y320PIN:

Stainless steel (Aisi 303).

Surface finish:

Y32 0:

Smooth, case-hardened.

Y320PIN:

Natural, untreated.



Colour:

Y32 0:

Standard black-oxide treatment.

Y320PIN:

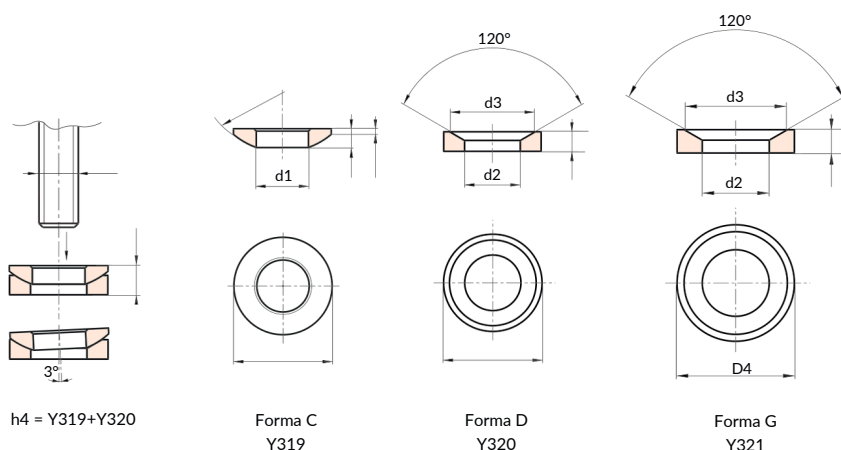
Natural.

Special requests:

- None.

Notes:

Notes:
Attention: concave washer Y320 must be used with convex washer Y319 (to be ordered separately).



Version DIN 6319 D Design - black-oxide treated steel concave washer

Code	Art.	D	d3	hG (Y319 +Y3 2 0)	d2H13	M	Q	Max. permissible static load kN	g
Y320010.0001	Y320010.SD06	10.5	9.25	3.1	6	M05	2.1	-	0.8
Y320012.0002	Y32 0 012 . S D 07.1	12	11	4	7.1	M06	2.8	9	1.4
Y320017.0002	Y320017.SD09.6	17	14.5	5.6	9.6	M08	3.5	17	3.6
Y320021.0002	Y320021.SD12	21	18.5	6.3	12	M10	4.2	26	6.5
+ffƏəfGİəəə	+ffƏəfGİs EGİf	24	20	8	14.2	M12	5	38	10
F	Y320028.SD16.5	28	24.8	8.2	16.5	M14	5.6	53	15
Y320028.0001	Y320030.SD19	30	26	9.3	19	M16	6.2	73	18
Y320030.0002	Y320036.SD23.2	36	31	11.6	23.2	M20	7.5	117	30
Y320036.0002	+ffƏəGİs fV	44	37	15	28	M24	9.5	168	61
+ffƏəGİəəə	Y320056.SD35	56	49	18.9	35	M30	12	269	124
F	+ffƏəvİs Gf	68	60	23.3	42	M36	15	fİG	232
Y320056.0002	+ffƏəhVİs Gİ	78	70	28.3	49	M42	18	XGF	360
Y320068.0002	Y320092.SD56	92	82	35.2	56	M48	22	hEG	633
Y320078.0002	Y320103.SD65	103	92	39.7	65	M56	25	-	873
Y320092.0002	Y32 012 0 . S D75	120	110	46.5	75	M64	30	-	1422
Y320103.0001									
Y320120.0001									

Version DIN 6319 D Design - stainless steel (Aisi 303) concave washer

Code	Art.	D	d3	hG (Y319 +Y3 2 0)	d2H13	M	Q	Max. permissible static load kN	g
-	Y320012.SD07.1PIN	12	11	4	7.1	M06	2.8	6	1.4
Y32 0 017. 0 0 01	Y320017.ID09.6PIN	17	14.5	5.6	9.6	M08	3.5	12	3.6
Y320021.0001	Y320021.ID12PIN	21	18.5	6.3	12	M10	4.2	16	6.5
+jfæƒGǵǵǵǵǵ	+jfæƒGǵǵǵǵǵ N	24	20	8	14.2	M12	5	FG	10
Y320030.0001	Y320030.ID19PIN	30	26	9.3	19	M16	6.2	Gx	18
Y320036.0001	Y320036.ID23.2PIN	36	31	11.6	23.2	M20	7.5	71	30
+jfæǵGǵǵǵǵǵ	+jfæǵGǵǵǵǵǵ FV N	44	37	15	28	M24	9.5	105	61
Y320056.0001	Y320056.ID35PIN	56	49	18.9	35	M30	12	191	124
Y320068.0001	+jfæǵǵǵǵǵǵ Gǵ N	68	60	23.3	42	M36	15	-	232
Y320078.0001	+jfæǵǵǵǵǵǵ Gǵ N	78	70	28.3	49	M42	18	-	360
Y320092.0001	Y320092.ID56PIN	92	82	35.2	56	M48	22	-	633

Y321

DIN6319ed. 10/01 - STAINLESS STEEL CONCAVE G DESIGN WASHER



Materials:

Y321:

Quenched and tempered steel.

Y321PIN:

Stainless steel (Aisi 303).

Surface finish:

Y321:

Heat treated HV 390± 40.

Y321PIN:

Natural, untreated.

Colour:

Y321:

Standard black-oxide treatment.

Y321PIN:

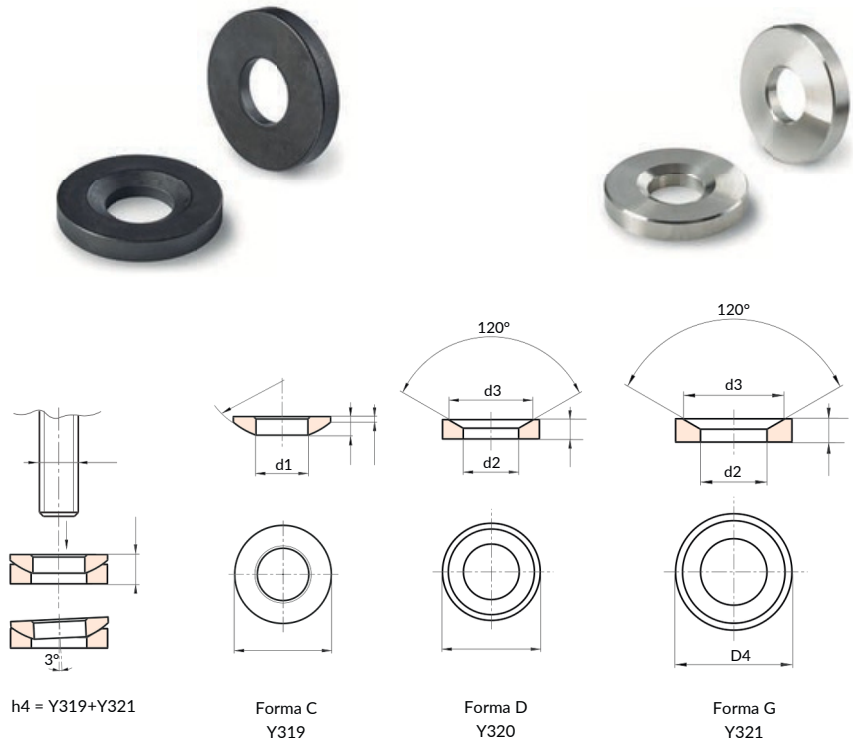
Natural.

Special requests:

- None.

Notes:

Attention: concave washer Y321 must be used with convex washer Y319 (to be ordered separately).



h4 = Y319+Y321

Forma C
Y319

Forma D
Y320

Forma G
Y321

Version DIN 6319 Design - black-oxide treated steel concave washer

Code	Art.	D	d3	hG (Y319+Y321)	d2H13	M	Q	Max. permissible static load kN	g
Y321015.0001	Y321015.SD06	15	9.25	3.5	6	M05	2.5	-	3.6
Y321017.0002	Y321017.SD07.1	17	11	5.2	7.1	M06	4	9	3.6
+ffEəFđłəəə	+ffEəFđłəłv	24	14.5	6.8	9.6	M08	5	17	10
F	Y321030.SD12	30	18.5	7.1	12	M10	5	26	18
Y321030.0002	+ffEəFđłəłv	36	20	9	14.2	M12	6	38	30
Y321036.0002	+ffEəFđłəłv	40	24.8	8.6	16.5	M14	6	53	38
+ffEəFđłəəə	+ffEəFđłəłv	44	26	10.1	19	M16	7	73	61
E	Y321050.SD23.2	50	31	12	23.2	M20	8	117	124
+ffEəFđłəəə	Y321060.SD28	60	37	15.5	28	M24	10	168	232
F	Y321068.SD35	68	49	18.7	35	M30	12	269	360
Y321050.0002	+ffEəFđłəłv	80	60	20.3	42	M36	12	flG	633

Y321060.0002

Y321068.0002

Y321080.0001

Version DIN 6319 Design - stainless steel (Aisi 303) concave washer



Code	Art.	D	d3	hG (Y319+Y321)	d2H13	M	Q	Max. permissible static load kN	g
-	Y321017.SD07.1PIN	17	11	5.2	7.1	M06	4	6	3.6
+ffEəFđłəłv	+ffEəFđłəłv N	24	14.5	6.8	9.6	M08	5	12	10
Y321030.0001	Y321030.ID12PIN	30	18.5	7.1	12	M10	5	16	18
Y321036.0001	+ffEəFđłəłv N	36	20	9	14.2	M12	6	Fđ	30
+ffEəFđłəłv	+ffEəFđłəłv N	44	26	10.1	19	M16	7	Gđ	61
Y321050.0001	Y321050.ID23.2PIN	50	31	12	23.2	M20	8	71	124
Y321060.0001	Y321060.ID28PIN	60	37	15.5	28	M24	10	105	232
Y321068.0001	Y321068.ID35PIN	68	49	18.7	35	M30	12	191	360

Y637

DIN 6372 - C-WASHER



Materials:

quenched and tempered steel.

Surface finish:

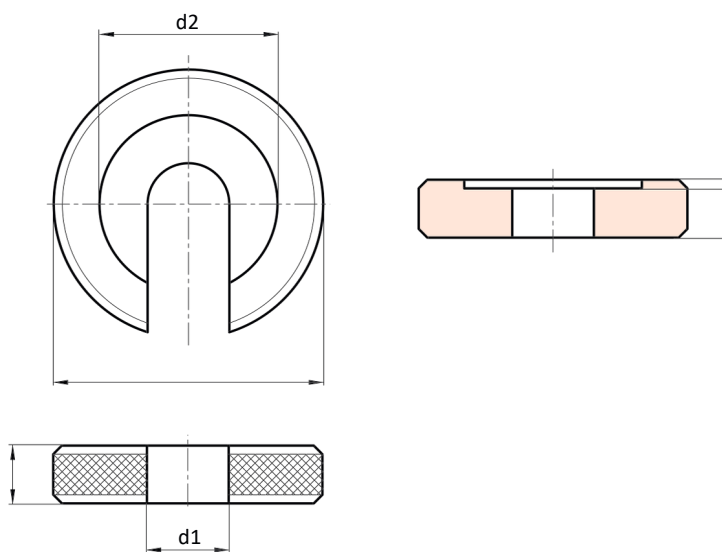
zinc-treated.

Colour:

black-oxide treatment.

Special requests:

- None.



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Code	Art.	D	H	h	d2	d1	Q	g
Y637017.0001	Y637017.SD05.25	17	5	0.75	12	5.25	4.25	6
Y637022.0001	Y637022.SD06.4	22	6	0.8	16	6.4	5.2	12
Y637028.0001	Y637028.SD08.4	28	7	1	21	8.4	6	23
Y637034.0001	Y637034.SD10.5	34	8	1.2	25	10.5	6.8	38
Y637040.0001	Y637040.SD13	40	9	1.8	30	13	7.2	57
Y637048.0001	Y637048.SD14.5	48	12	1.8	33	14.5	10.2	117
Y637056.0001	Y637056.SD17	56	12	1.8	37	17	10.2	146
Y637064.0001	Y637064.SD21	64	14	2	45	21	12	234
Y637075.0001	Y637075.SD25	75	16	2	52	25	14	374
Y637090.0001	Y637090.SD31	90	18	2	65	31	16	720
Y637100.0001	Y6 3710 0 . S D37	100	20	2.5	75	37	17.5	791