

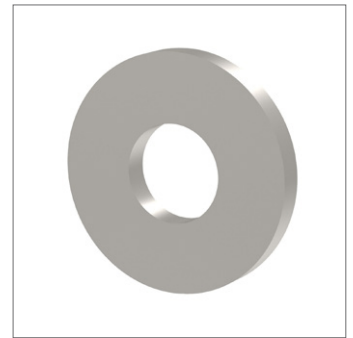
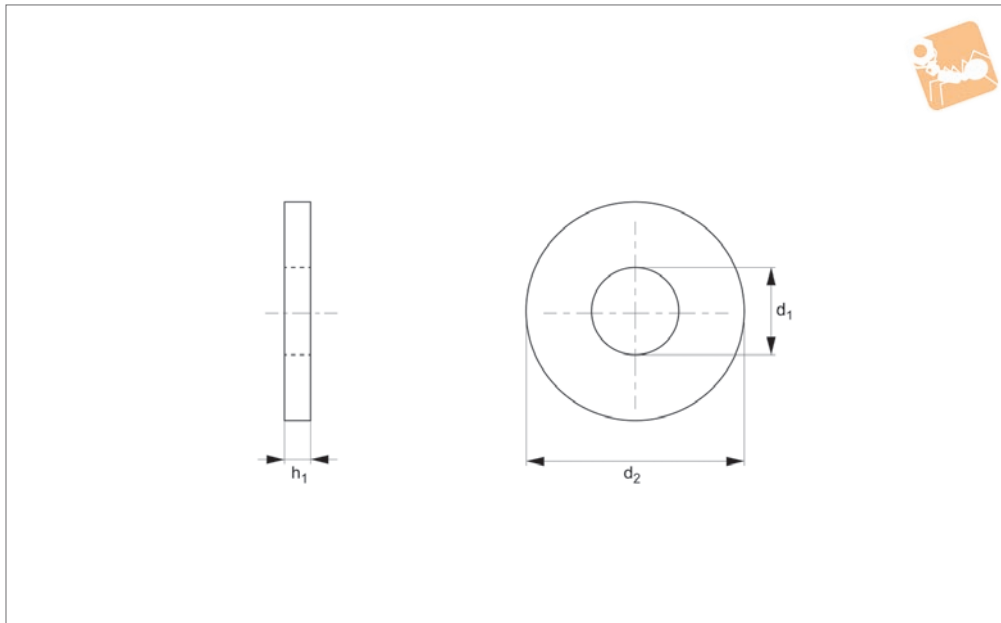


Flat Washers Form A

A4 stainless



Flat Washers



P0330.A4

FLAT WASHERS

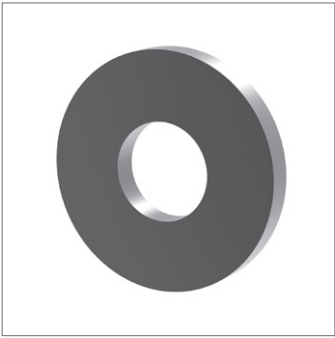
Material

Stainless steel (A4).

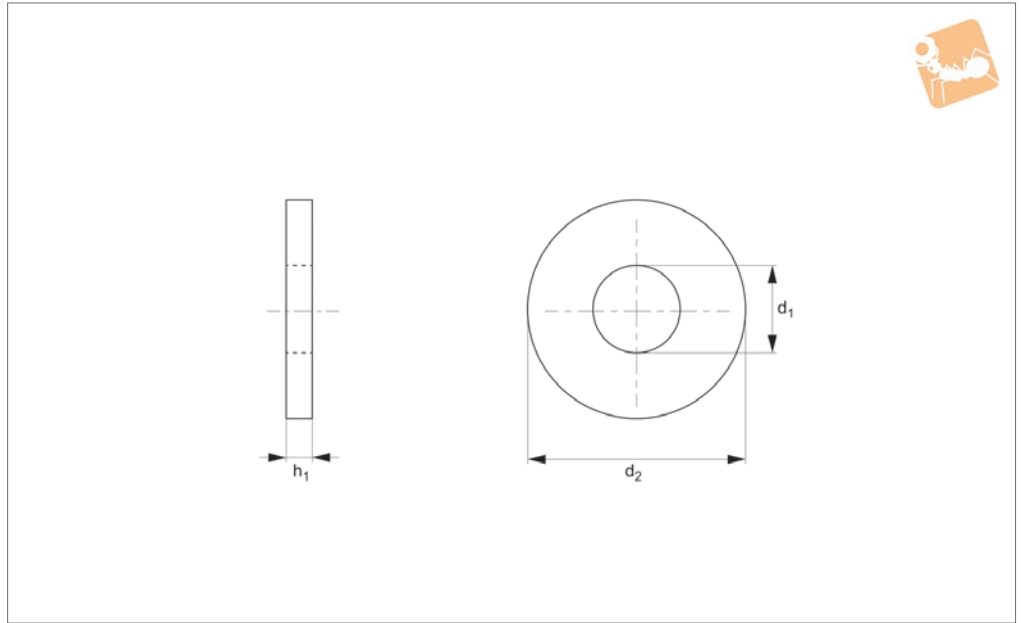
Technical Notes

To DIN 125 A.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0330.016-A4 | M1,6 | 1.7 | 4 | 0.3 | A4 s/s |
| P0330.020-A4 | M 2 | 2.2 | 5 | 0.3 | A4 s/s |
| P0330.023-A4 | M2,3 | 2.5 | 6 | 0.5 | A4 s/s |
| P0330.025-A4 | M2,5 | 2.7 | 6 | 0.5 | A4 s/s |
| P0330.030-A4 | M 3 | 3.2 | 7 | 0.5 | A4 s/s |
| P0330.035-A4 | M3,5 | 3.7 | 8 | 0.5 | A4 s/s |
| P0330.040-A4 | M 4 | 4.3 | 9 | 0.8 | A4 s/s |
| P0330.050-A4 | M 5 | 5.3 | 10 | 1.0 | A4 s/s |
| P0330.060-A4 | M 6 | 6.4 | 12 | 1.6 | A4 s/s |
| P0330.070-A4 | M 7 | 7.4 | 14 | 1.6 | A4 s/s |
| P0330.080-A4 | M 8 | 8.4 | 16 | 1.6 | A4 s/s |
| P0330.100-A4 | M10 | 10.5 | 20 | 2.0 | A4 s/s |
| P0330.120-A4 | M12 | 13.0 | 24 | 2.5 | A4 s/s |
| P0330.140-A4 | M14 | 15.0 | 28 | 2.5 | A4 s/s |
| P0330.160-A4 | M16 | 17.0 | 30 | 3.0 | A4 s/s |
| P0330.180-A4 | M18 | 19.0 | 34 | 3.0 | A4 s/s |
| P0330.200-A4 | M20 | 21.0 | 37 | 3.0 | A4 s/s |
| P0330.220-A4 | M22 | 23.0 | 39 | 3.0 | A4 s/s |
| P0330.240-A4 | M24 | 25.0 | 44 | 4.0 | A4 s/s |
| P0330.270-A4 | M27 | 28.0 | 50 | 4.0 | A4 s/s |
| P0330.300-A4 | M30 | 31.0 | 56 | 4.0 | A4 s/s |



P0330.SC



Material

Steel, self-colour.

Technical Notes

To DIN 125 A.

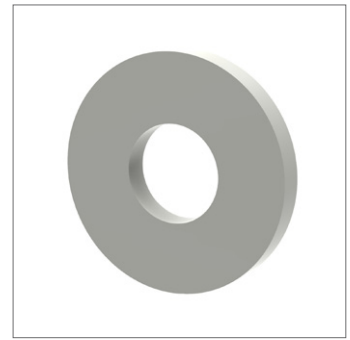
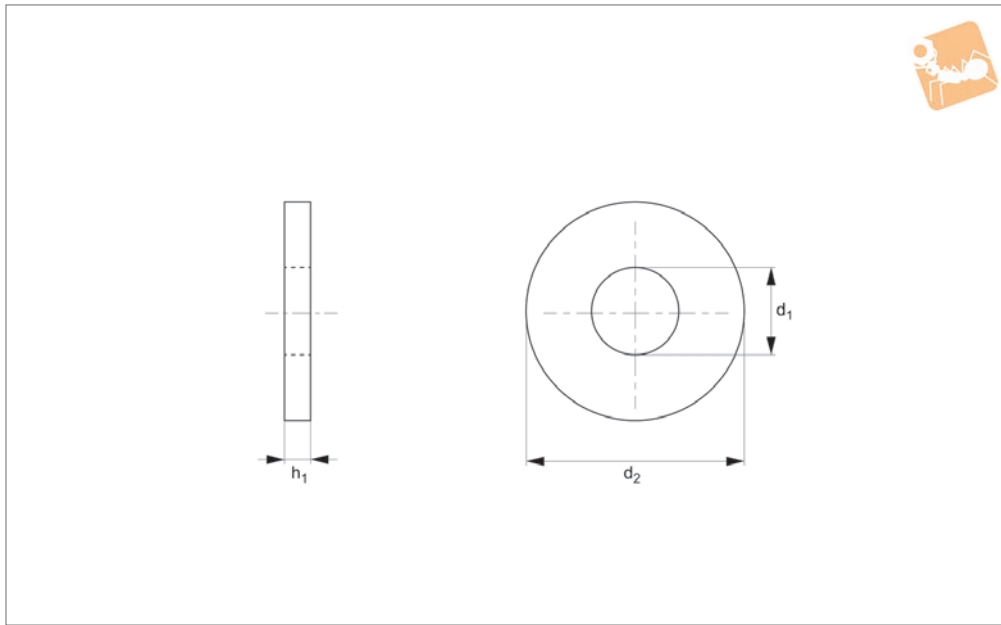
| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0330.016-SC | M1,6 | 1.7 | 4 | 0.3 | Steel SC |
| P0330.020-SC | M 2 | 2.2 | 5 | 0.3 | Steel SC |
| P0330.023-SC | M2,3 | 2.5 | 6 | 0.5 | Steel SC |
| P0330.025-SC | M2,5 | 2.7 | 6 | 0.5 | Steel SC |
| P0330.030-SC | M 3 | 3.2 | 7 | 0.5 | Steel SC |
| P0330.035-SC | M3,5 | 3.7 | 8 | 0.5 | Steel SC |
| P0330.040-SC | M 4 | 4.3 | 9 | 0.8 | Steel SC |
| P0330.050-SC | M 5 | 5.3 | 10 | 1.0 | Steel SC |
| P0330.060-SC | M 6 | 6.4 | 12 | 1.6 | Steel SC |
| P0330.070-SC | M 7 | 7.4 | 14 | 1.6 | Steel SC |
| P0330.080-SC | M 8 | 8.4 | 16 | 1.6 | Steel SC |
| P0330.100-SC | M10 | 10.5 | 20 | 2.0 | Steel SC |
| P0330.120-SC | M12 | 13.0 | 24 | 2.5 | Steel SC |
| P0330.140-SC | M14 | 15.0 | 28 | 2.5 | Steel SC |
| P0330.160-SC | M16 | 17.0 | 30 | 3.0 | Steel SC |
| P0330.180-SC | M18 | 19.0 | 34 | 3.0 | Steel SC |
| P0330.200-SC | M20 | 21.0 | 37 | 3.0 | Steel SC |
| P0330.220-SC | M22 | 23.0 | 39 | 3.0 | Steel SC |
| P0330.240-SC | M24 | 25.0 | 44 | 4.0 | Steel SC |
| P0330.270-SC | M27 | 28.0 | 50 | 4.0 | Steel SC |
| P0330.300-SC | M30 | 31.0 | 56 | 4.0 | Steel SC |



Flat Washers Form A

Nylon

Flat Washers



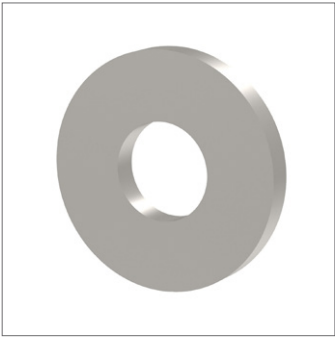
P0330.NL

FLAT WASHERS

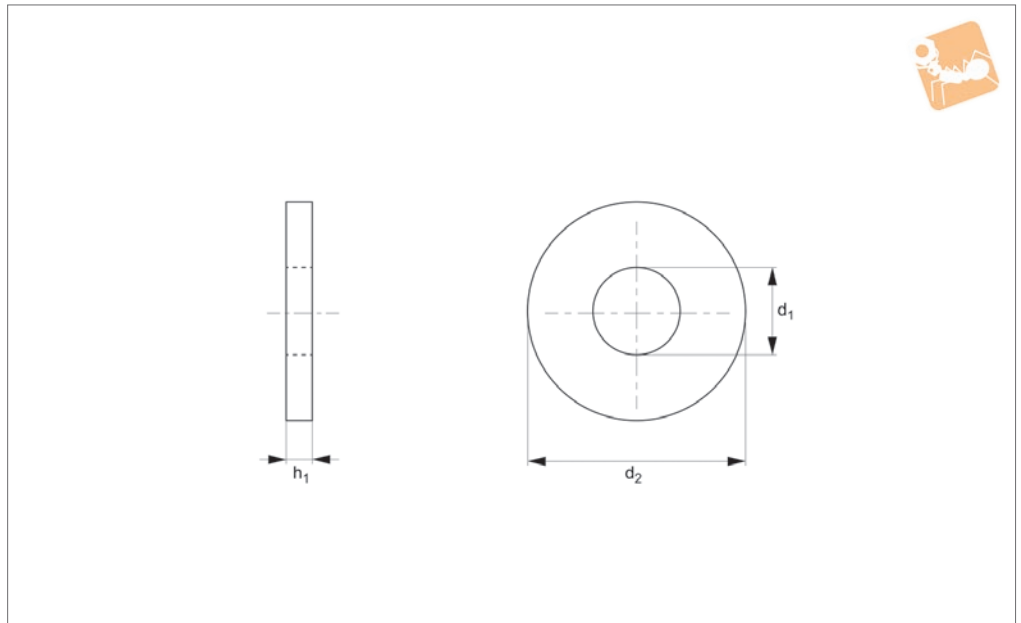
Material
Nylon.

Technical Notes
To DIN 125 A.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0330.025-NL | M2,5 | 2.7 | 6 | 0.5 | Nylon |
| P0330.030-NL | M 3 | 3.2 | 7 | 0.5 | Nylon |
| P0330.040-NL | M 4 | 4.3 | 9 | 0.8 | Nylon |
| P0330.050-NL | M 5 | 5.3 | 10 | 1.0 | Nylon |
| P0330.060-NL | M 6 | 6.4 | 12 | 1.6 | Nylon |
| P0330.080-NL | M 8 | 8.4 | 16 | 1.6 | Nylon |
| P0330.100-NL | M10 | 10.5 | 20 | 2.0 | Nylon |
| P0330.120-NL | M12 | 13.0 | 24 | 2.5 | Nylon |
| P0330.160-NL | M16 | 17.0 | 30 | 3.0 | Nylon |
| P0330.200-NL | M20 | 21.0 | 37 | 3.0 | Nylon |
| P0330.240-NL | M24 | 25.0 | 44 | 4.0 | Nylon |
| P0330.300-NL | M30 | 31.0 | 56 | 4.0 | Nylon |



P0330.A2



Material
Stainless steel (A2).

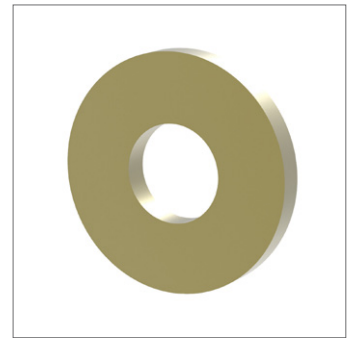
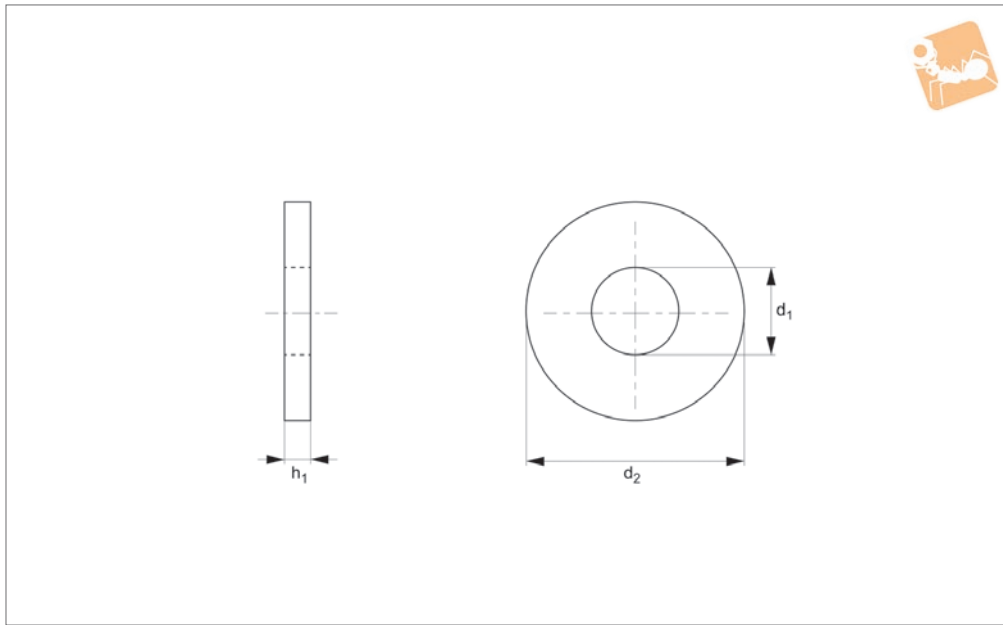
Technical Notes
To DIN 125 A.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0330.016-A2 | M1,6 | 1.7 | 4 | 0.3 | A2 s/s |
| P0330.020-A2 | M 2 | 2.2 | 5 | 0.3 | A2 s/s |
| P0330.023-A2 | M2,3 | 2.5 | 6 | 0.5 | A2 s/s |
| P0330.025-A2 | M2,5 | 2.7 | 6 | 0.5 | A2 s/s |
| P0330.030-A2 | M 3 | 3.2 | 7 | 0.5 | A2 s/s |
| P0330.035-A2 | M3,5 | 3.7 | 8 | 0.5 | A2 s/s |
| P0330.040-A2 | M 4 | 4.3 | 9 | 0.8 | A2 s/s |
| P0330.050-A2 | M 5 | 5.3 | 10 | 1.0 | A2 s/s |
| P0330.060-A2 | M 6 | 6.4 | 12 | 1.6 | A2 s/s |
| P0330.070-A2 | M 7 | 7.4 | 14 | 1.6 | A2 s/s |
| P0330.080-A2 | M 8 | 8.4 | 16 | 1.6 | A2 s/s |
| P0330.100-A2 | M10 | 10.5 | 20 | 2.0 | A2 s/s |
| P0330.120-A2 | M12 | 13.0 | 24 | 2.5 | A2 s/s |
| P0330.140-A2 | M14 | 15.0 | 28 | 2.5 | A2 s/s |
| P0330.160-A2 | M16 | 17.0 | 30 | 3.0 | A2 s/s |
| P0330.180-A2 | M18 | 19.0 | 34 | 3.0 | A2 s/s |
| P0330.200-A2 | M20 | 21.0 | 37 | 3.0 | A2 s/s |
| P0330.220-A2 | M22 | 23.0 | 39 | 3.0 | A2 s/s |
| P0330.240-A2 | M24 | 25.0 | 44 | 4.0 | A2 s/s |
| P0330.270-A2 | M27 | 28.0 | 50 | 4.0 | A2 s/s |
| P0330.300-A2 | M30 | 31.0 | 56 | 4.0 | A2 s/s |



Flat Washers Form A

Brass



P0330.BR

FLAT WASHERS

Material

Brass.

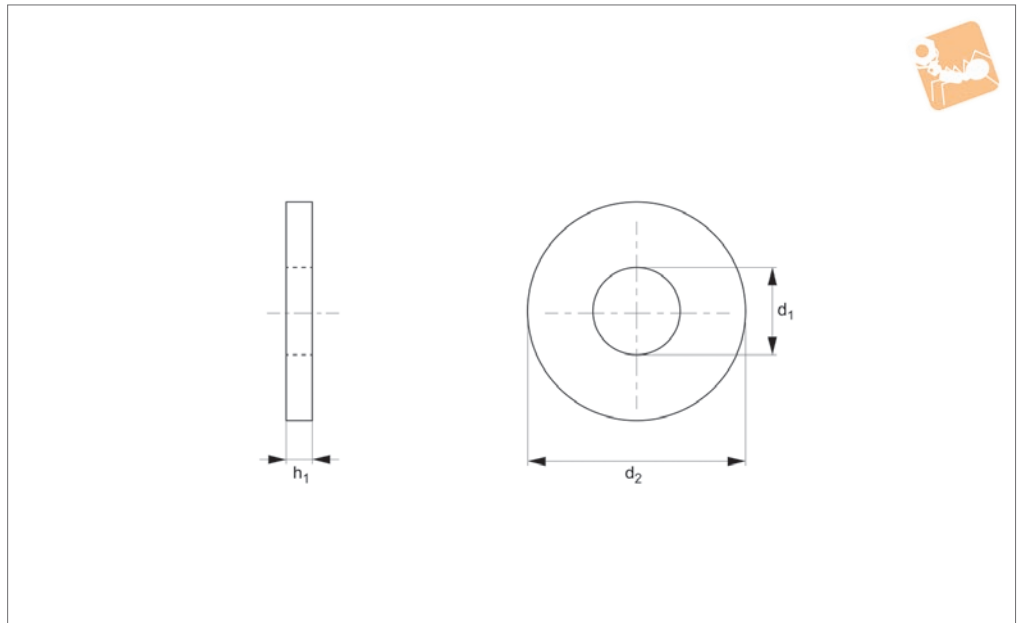
Technical Notes

To DIN 125 A.

| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------|
| P0330.025-BR | M2,5 | 2.7 | 6 | 0.5 | Brass |
| P0330.030-BR | M 3 | 3.2 | 7 | 0.5 | Brass |
| P0330.053-BR | M5-3 | 5.3 | 10 | 1.0 | Brass |
| P0330.043-BR | M4-5 | 4.3 | 9 | 0.8 | Brass |
| P0330.064-BR | M 6 | 6.4 | 12 | 1.6 | Brass |
| P0330.074-BR | M7-9 | 7.4 | 14 | 1.6 | Brass |
| P0330.084-BR | M8-5 | 8.4 | 16 | 1.6 | Brass |
| P0330.250-BR | M24 | 25 | 44 | 4.0 | Brass |
| P0330.027-BR | M2,5 | 2.7 | 6 | 0.5 | Brass |
| P0330.032-BR | M3 | 3.2 | 7 | 0.5 | Brass |
| P0330.022-BR | M2-5 | 2.2 | 5 | 0.3 | Brass |



P0330.ZP



Material

Steel, zinc-plated.

Technical Notes

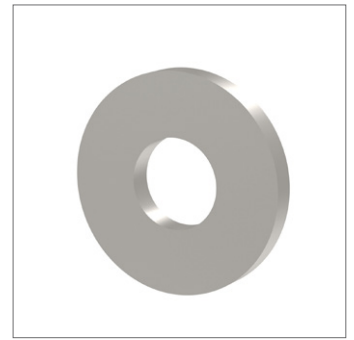
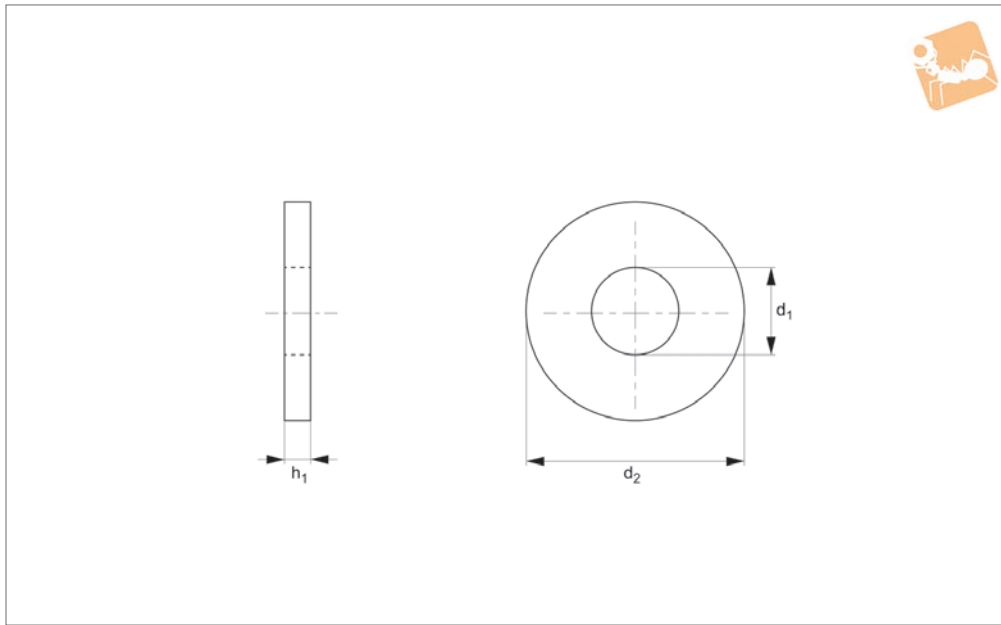
To DIN 125 A.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0330.016-ZP | M1,6 | 1.7 | 4 | 0.3 | Steel ZP |
| P0330.020-ZP | M 2 | 2.2 | 5 | 0.3 | Steel ZP |
| P0330.023-ZP | M2,3 | 2.5 | 6 | 0.5 | Steel ZP |
| P0330.025-ZP | M2,5 | 2.7 | 6 | 0.5 | Steel ZP |
| P0330.030-ZP | M 3 | 3.2 | 7 | 0.5 | Steel ZP |
| P0330.035-ZP | M3,5 | 3.7 | 8 | 0.5 | Steel ZP |
| P0330.040-ZP | M 4 | 4.3 | 9 | 0.8 | Steel ZP |
| P0330.050-ZP | M 5 | 5.3 | 10 | 1.0 | Steel ZP |
| P0330.060-ZP | M 6 | 6.4 | 12 | 1.6 | Steel ZP |
| P0330.070-ZP | M 7 | 7.4 | 14 | 1.6 | Steel ZP |
| P0330.080-ZP | M 8 | 8.4 | 16 | 1.6 | Steel ZP |
| P0330.100-ZP | M10 | 10.5 | 20 | 2.0 | Steel ZP |
| P0330.120-ZP | M12 | 13.0 | 24 | 2.5 | Steel ZP |
| P0330.140-ZP | M14 | 15.0 | 28 | 2.5 | Steel ZP |
| P0330.160-ZP | M16 | 17.0 | 30 | 3.0 | Steel ZP |
| P0330.180-ZP | M18 | 19.0 | 34 | 3.0 | Steel ZP |
| P0330.200-ZP | M20 | 21.0 | 37 | 3.0 | Steel ZP |
| P0330.220-ZP | M22 | 23.0 | 39 | 3.0 | Steel ZP |
| P0330.240-ZP | M24 | 25.0 | 44 | 4.0 | Steel ZP |
| P0330.270-ZP | M27 | 28.0 | 50 | 4.0 | Steel ZP |
| P0330.300-ZP | M30 | 31.0 | 56 | 4.0 | Steel ZP |



Flat Washers Form B

A2 stainless



P0331.A2

FLAT WASHERS

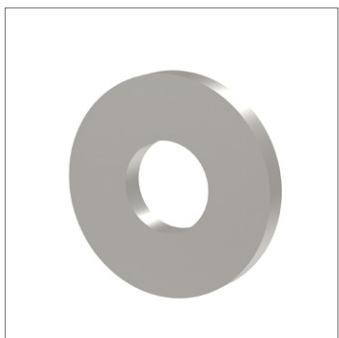
Material

Stainless steel (A2).

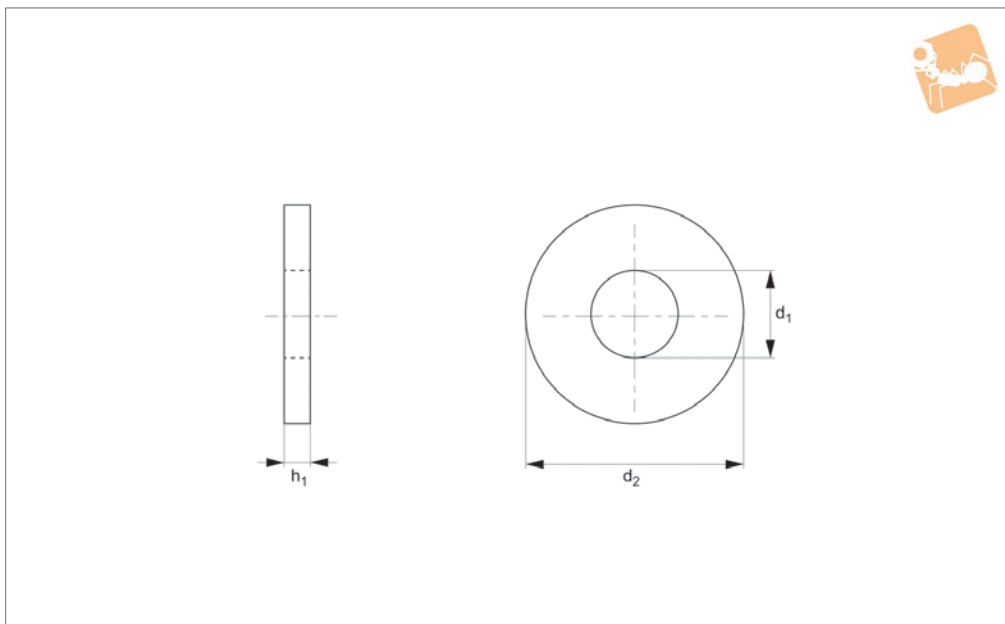
Technical Notes

To DIN 125 B, BS4320B.

| Order No. | For thread | d_1 | h_1 | d_2 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0331.050-A2 | M 5 | 5.3 | 0.8 | 10 | A2 s/s |
| P0331.060-A2 | M 6 | 6.4 | 0.8 | 12.5 | A2 s/s |
| P0331.070-A2 | M 7 | 7.4 | 0.8 | 14 | A2 s/s |
| P0331.080-A2 | M 8 | 8.4 | 1.0 | 17 | A2 s/s |
| P0331.100-A2 | M10 | 10.5 | 1.25 | 21 | A2 s/s |
| P0331.120-A2 | M12 | 13.0 | 1.6 | 24 | A2 s/s |
| P0331.140-A2 | M14 | 15.0 | 1.6 | 28 | A2 s/s |
| P0331.160-A2 | M16 | 17.0 | 2.0 | 30 | A2 s/s |
| P0331.180-A2 | M18 | 19.0 | 2.0 | 34 | A2 s/s |
| P0331.200-A2 | M20 | 21.0 | 2.0 | 37 | A2 s/s |
| P0331.220-A2 | M22 | 23.0 | 2.0 | 39 | A2 s/s |
| P0331.240-A2 | M24 | 25.0 | 2.5 | 44 | A2 s/s |
| P0331.270-A2 | M27 | 28.0 | 2.5 | 50 | A2 s/s |
| P0331.300-A2 | M30 | 31.0 | 2.5 | 56 | A2 s/s |



P0331.A4



Material

Stainless steel (A4).

Technical Notes

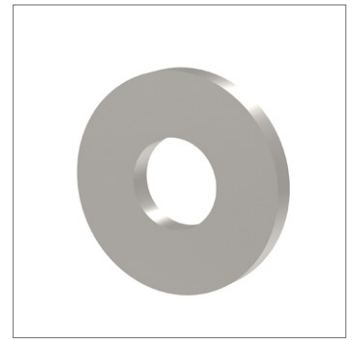
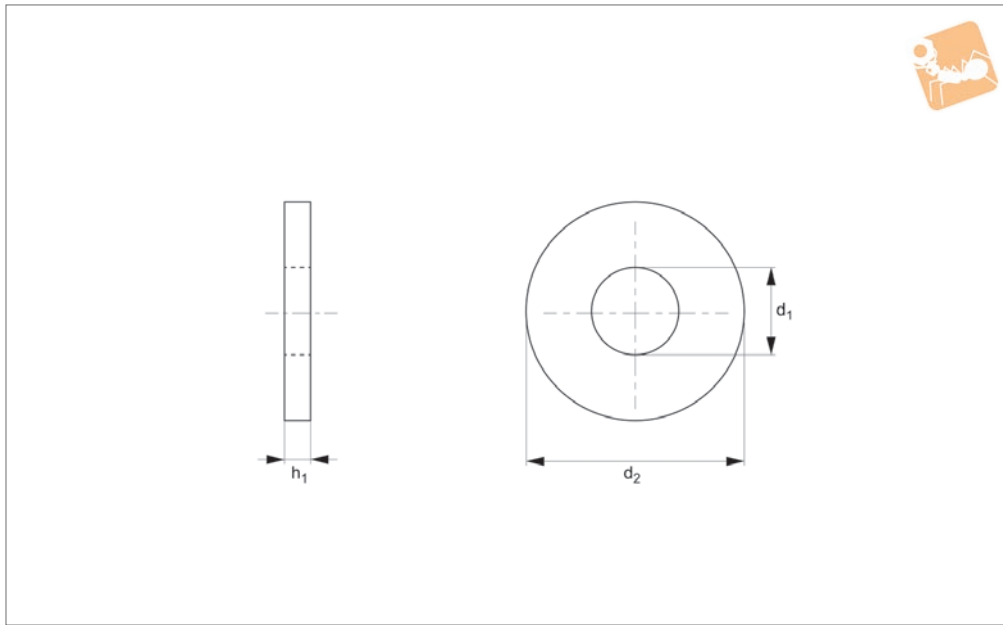
To DIN 125 B, BS4320B.

| Order No. | For thread | d_1 | h_1 | d_2 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0331.050-A4 | M 5 | 5.3 | 0.8 | 10 | A4 s/s |
| P0331.060-A4 | M 6 | 6.4 | 0.8 | 12.5 | A4 s/s |
| P0331.070-A4 | M 7 | 7.4 | 0.8 | 14 | A4 s/s |
| P0331.080-A4 | M 8 | 8.4 | 1.0 | 17 | A4 s/s |
| P0331.100-A4 | M10 | 10.5 | 1.25 | 21 | A4 s/s |
| P0331.120-A4 | M12 | 13.0 | 1.6 | 24 | A4 s/s |
| P0331.140-A4 | M14 | 15.0 | 1.6 | 28 | A4 s/s |
| P0331.160-A4 | M16 | 17.0 | 2.0 | 30 | A4 s/s |
| P0331.180-A4 | M18 | 19.0 | 2.0 | 34 | A4 s/s |
| P0331.200-A4 | M20 | 21.0 | 2.0 | 37 | A4 s/s |
| P0331.220-A4 | M22 | 23.0 | 2.0 | 39 | A4 s/s |
| P0331.240-A4 | M24 | 25.0 | 2.5 | 44 | A4 s/s |
| P0331.270-A4 | M27 | 28.0 | 2.5 | 50 | A4 s/s |
| P0331.300-A4 | M30 | 31.0 | 2.5 | 56 | A4 s/s |



Flat Washers Form B

Steel, zinc-plated



P0331.ZP

FLAT WASHERS

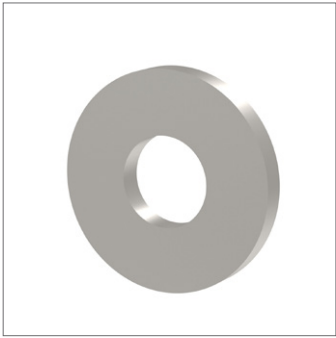
Material

Steel, zinc-plated.

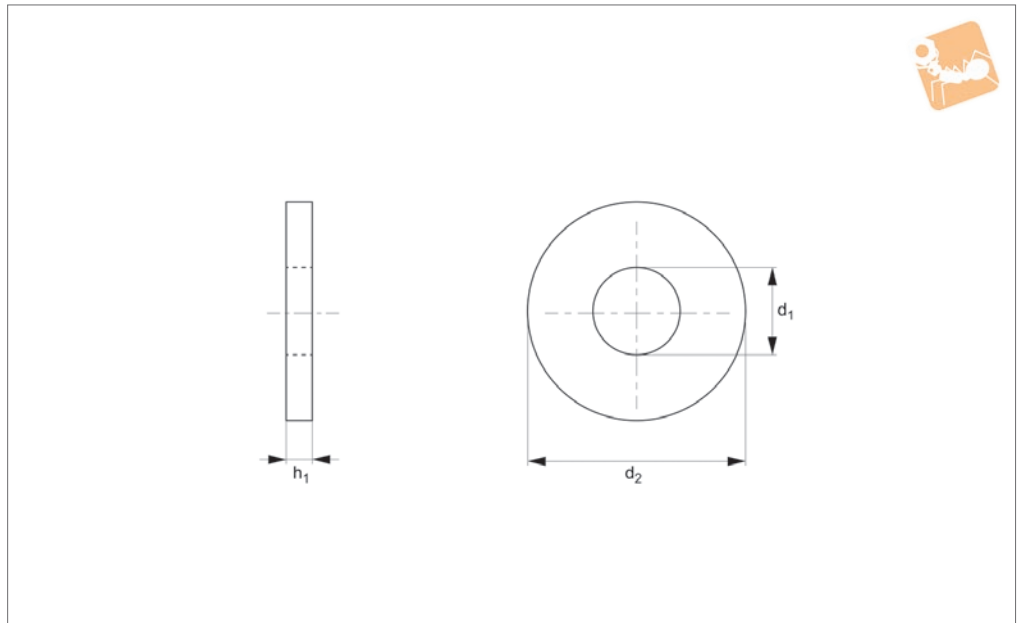
Technical Notes

To DIN 125 B, BS4320B.

| Order No. | For thread | d_1 | h_1 | d_2 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0331.050-ZP | M 5 | 5.3 | 0.8 | 10 | Steel ZP |
| P0331.060-ZP | M 6 | 6.4 | 0.8 | 12.5 | Steel ZP |
| P0331.070-ZP | M 7 | 7.4 | 0.8 | 14 | Steel ZP |
| P0331.080-ZP | M 8 | 8.4 | 1.0 | 17 | Steel ZP |
| P0331.100-ZP | M10 | 10.5 | 1.25 | 21 | Steel ZP |
| P0331.120-ZP | M12 | 13.0 | 1.6 | 24 | Steel ZP |
| P0331.140-ZP | M14 | 15.0 | 1.6 | 28 | Steel ZP |
| P0331.160-ZP | M16 | 17.0 | 2.0 | 30 | Steel ZP |
| P0331.180-ZP | M18 | 19.0 | 2.0 | 34 | Steel ZP |
| P0331.200-ZP | M20 | 21.0 | 2.0 | 37 | Steel ZP |
| P0331.220-ZP | M22 | 23.0 | 2.0 | 39 | Steel ZP |
| P0331.240-ZP | M24 | 25.0 | 2.5 | 44 | Steel ZP |
| P0331.270-ZP | M27 | 28.0 | 2.5 | 50 | Steel ZP |
| P0331.300-ZP | M30 | 31.0 | 2.5 | 56 | Steel ZP |



P0331.BR



Material

Brass.

Technical Notes

To DIN 125 B, BS4320B.

| Order No. | For thread | d_1 | h_1 | d_2 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0331.080-BR | M 8 | 8.4 | 1.6 | 16 | Brass |
| P0331.100-BR | M10 | 10.5 | 2.0 | 20 | Brass |
| P0331.120-BR | M12 | 13.0 | 2.5 | 24 | Brass |
| P0331.160-BR | M16 | 17.0 | 3.0 | 30 | Brass |
| P0331.180-BR | M18 | 19.0 | 3.0 | 34 | Brass |
| P0331.200-BR | M20 | 21.0 | 3.0 | 37 | Brass |
| P0331.220-BR | M22 | 23.0 | 3.0 | 39 | Brass |
| P0331.240-BR | M24 | 25.0 | 4.0 | 44 | Brass |
| P0331.270-BR | M27 | 28.0 | 4.0 | 50 | Brass |
| P0331.300-BR | M30 | 31.0 | 4.0 | 56 | Brass |

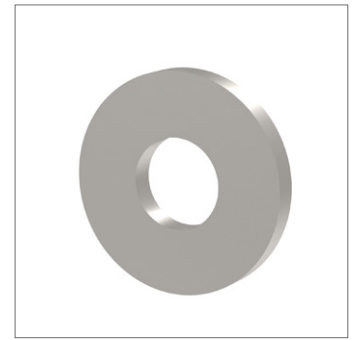
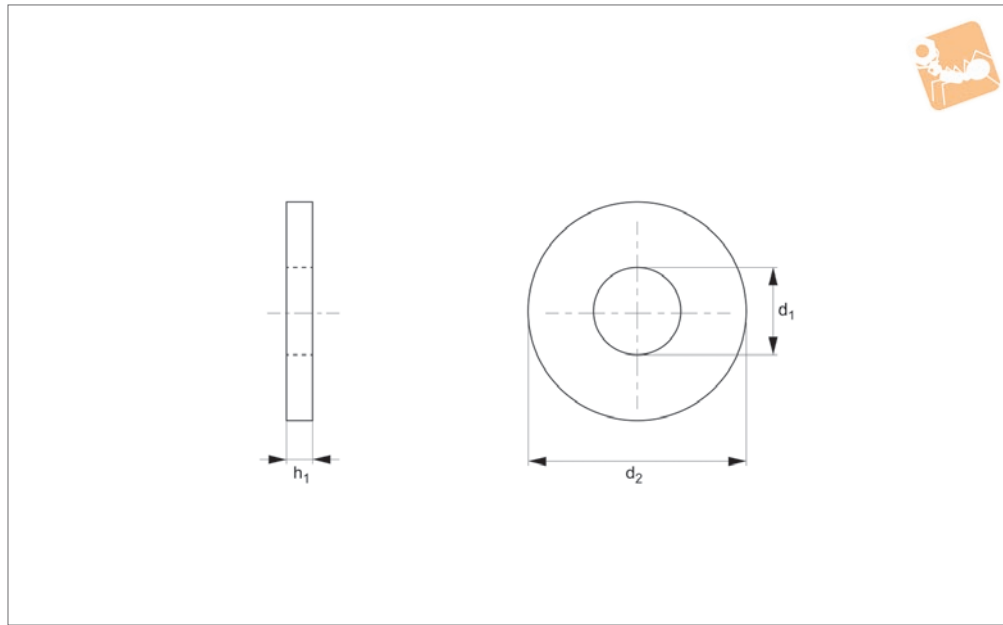


Flat Washers Form C

A2 stainless



Flat Washers



P0332.A2

FLAT WASHERS

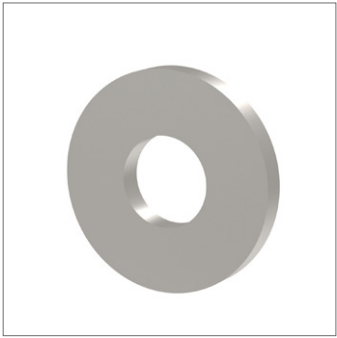
Material

Stainless steel (A2).

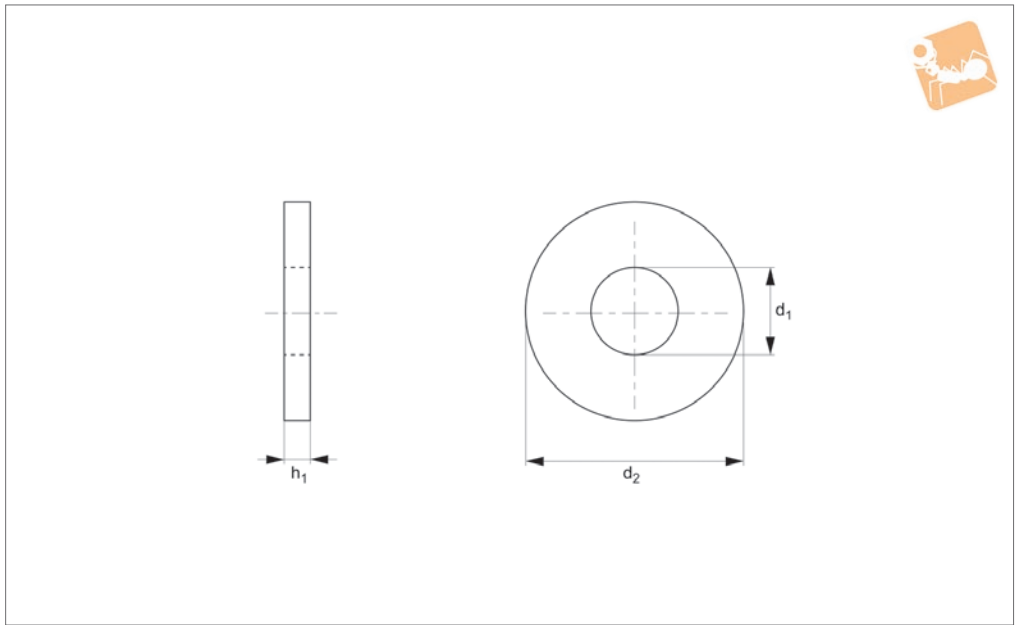
Technical Notes

To DIN 125 C, BS4320C.

| Order No. | For thread | d_1 | d_2 | h | Material |
|--------------|------------|-------|-------|-----|----------|
| P0332.040-A2 | M 4 | 4.3 | 10 | 0.8 | A2 s/s |
| P0332.050-A2 | M 5 | 5.3 | 12.5 | 1.0 | A2 s/s |
| P0332.060-A2 | M 6 | 6.4 | 14 | 1.6 | A2 s/s |
| P0332.070-A2 | M 7 | 7.4 | 16 | 1.6 | A2 s/s |
| P0332.080-A2 | M 8 | 8.4 | 21 | 1.6 | A2 s/s |
| P0332.100-A2 | M10 | 10.5 | 24 | 2.0 | A2 s/s |
| P0332.120-A2 | M12 | 13.0 | 28 | 2.5 | A2 s/s |
| P0332.140-A2 | M14 | 15.0 | 30 | 2.5 | A2 s/s |
| P0332.160-A2 | M16 | 17.0 | 34 | 3.0 | A2 s/s |
| P0332.180-A2 | M18 | 19.0 | 37 | 3.0 | A2 s/s |
| P0332.200-A2 | M20 | 21.0 | 39 | 3.0 | A2 s/s |
| P0332.220-A2 | M22 | 23.0 | 44 | 3.0 | A2 s/s |
| P0332.240-A2 | M24 | 25.0 | 50 | 4.0 | A2 s/s |
| P0332.270-A2 | M27 | 28.0 | 56 | 4.0 | A2 s/s |
| P0332.300-A2 | M30 | 31.0 | 60 | 4.0 | A2 s/s |



P0332.A4



Material
Stainless steel (A4).

Technical Notes
To DIN 125 C, BS4320C.

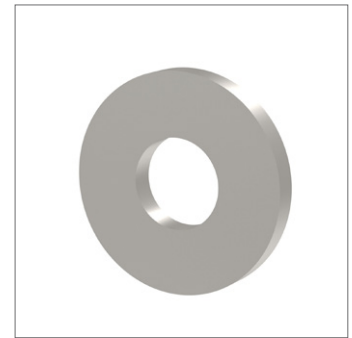
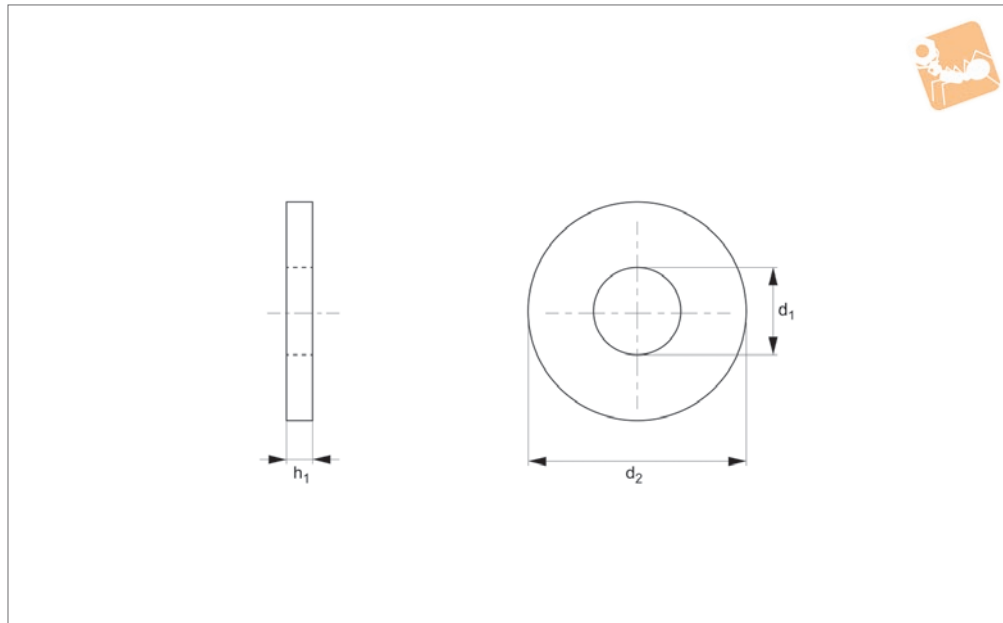
| Order No. | For thread | d_1 | d_2 | h | Material |
|--------------|------------|-------|-------|-----|----------|
| P0332.040-A4 | M 4 | 4.3 | 10 | 0.8 | A4 s/s |
| P0332.050-A4 | M 5 | 5.3 | 12.5 | 1.0 | A4 s/s |
| P0332.060-A4 | M 6 | 6.4 | 14 | 1.6 | A4 s/s |
| P0332.070-A4 | M 7 | 7.4 | 16 | 1.6 | A4 s/s |
| P0332.080-A4 | M 8 | 8.4 | 21 | 1.6 | A4 s/s |
| P0332.100-A4 | M10 | 10.5 | 24 | 2.0 | A4 s/s |
| P0332.120-A4 | M12 | 13.0 | 28 | 2.5 | A4 s/s |
| P0332.140-A4 | M14 | 15.0 | 30 | 2.5 | A4 s/s |
| P0332.160-A4 | M16 | 17.0 | 34 | 3.0 | A4 s/s |
| P0332.180-A4 | M18 | 19.0 | 37 | 3.0 | A4 s/s |
| P0332.200-A4 | M20 | 21.0 | 39 | 3.0 | A4 s/s |
| P0332.220-A4 | M22 | 23.0 | 44 | 3.0 | A4 s/s |
| P0332.240-A4 | M24 | 25.0 | 50 | 4.0 | A4 s/s |
| P0332.270-A4 | M27 | 28.0 | 56 | 4.0 | A4 s/s |
| P0332.300-A4 | M30 | 31.0 | 60 | 4.0 | A4 s/s |



Flat Washers Form C

Steel, zinc-plated

Flat Washers



P0332.ZP

FLAT WASHERS

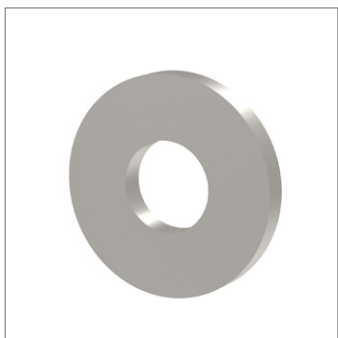
Material

Steel, zinc-plated.

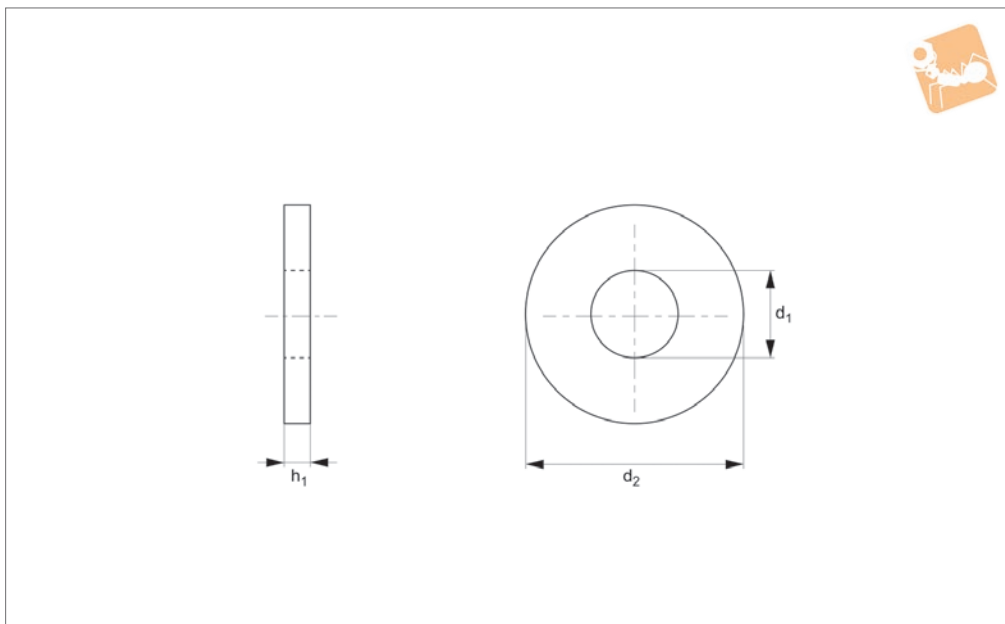
Technical Notes

To DIN 125 C, BS4320C.

| Order No. | For thread | d ₁ | d ₂ | h | Material |
|--------------|------------|----------------|----------------|-----|----------|
| P0332.040-ZP | M 4 | 4.3 | 10 | 0.8 | Steel ZP |
| P0332.050-ZP | M 5 | 5.3 | 12.5 | 1.0 | Steel ZP |
| P0332.060-ZP | M 6 | 6.4 | 14 | 1.6 | Steel ZP |
| P0332.070-ZP | M 7 | 7.4 | 16 | 1.6 | Steel ZP |
| P0332.080-ZP | M 8 | 8.4 | 21 | 1.6 | Steel ZP |
| P0332.100-ZP | M10 | 10.5 | 24 | 2.0 | Steel ZP |
| P0332.120-ZP | M12 | 13.0 | 28 | 2.5 | Steel ZP |
| P0332.140-ZP | M14 | 15.0 | 30 | 2.5 | Steel ZP |
| P0332.160-ZP | M16 | 17.0 | 34 | 3.0 | Steel ZP |
| P0332.180-ZP | M18 | 19.0 | 37 | 3.0 | Steel ZP |
| P0332.200-ZP | M20 | 21.0 | 39 | 3.0 | Steel ZP |
| P0332.220-ZP | M22 | 23.0 | 44 | 3.0 | Steel ZP |
| P0332.240-ZP | M24 | 25.0 | 50 | 4.0 | Steel ZP |
| P0332.270-ZP | M27 | 28.0 | 56 | 4.0 | Steel ZP |
| P0332.300-ZP | M30 | 31.0 | 60 | 4.0 | Steel ZP |



P0333.A2



Material

Stainless steel (A2).

Technical Notes

Also known as Mudguard washers.

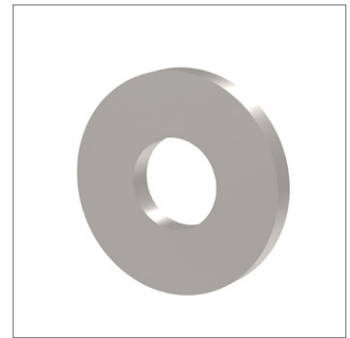
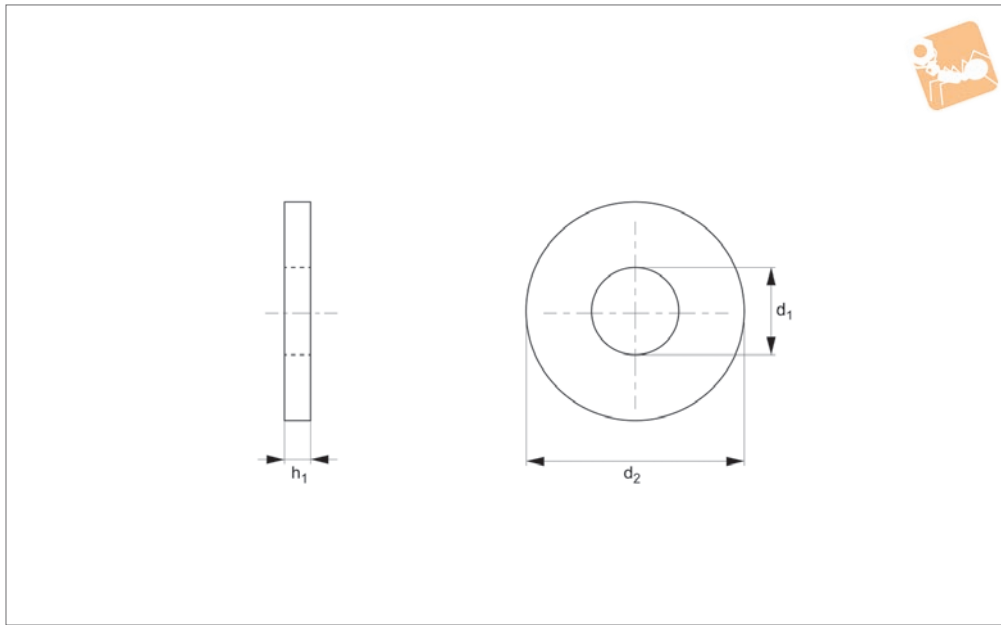
| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|------------------|------------|-------|-------|-------|----------|
| P0333.030-010-A2 | M 3 | 3.3 | 10 | 0.8 | A2 s/s |
| P0333.040-020-A2 | M 4 | 4.2 | 20 | 1.0 | A2 s/s |
| P0333.050-020-A2 | M 5 | 5.2 | 20 | 1.3 | A2 s/s |
| P0333.050-025-A2 | M 5 | 5.2 | 25 | 1.3 | A2 s/s |
| P0333.050-030-A2 | M 5 | 5.2 | 30 | 1.3 | A2 s/s |
| P0333.060-025-A2 | M 6 | 6.5 | 25 | 1.5 | A2 s/s |
| P0333.060-030-A2 | M 6 | 6.5 | 30 | 1.5 | A2 s/s |
| P0333.060-040-A2 | M 6 | 6.5 | 40 | 1.5 | A2 s/s |
| P0333.070-040-A2 | M 7 | 7.4 | 40 | 1.5 | A2 s/s |
| P0333.080-025-A2 | M 8 | 8.4 | 25 | 1.5 | A2 s/s |
| P0333.080-030-A2 | M 8 | 8.4 | 30 | 1.5 | A2 s/s |
| P0333.080-040-A2 | M 8 | 8.4 | 40 | 1.5 | A2 s/s |
| P0333.100-030-A2 | M10 | 10.5 | 30 | 1.5 | A2 s/s |
| P0333.120-036-A2 | M12 | 12.5 | 36 | 2.0 | A2 s/s |
| P0333.140-036-A2 | M14 | 14.5 | 36 | 2.0 | A2 s/s |
| P0333.160-050-A2 | M16 | 16.5 | 50 | 2.5 | A2 s/s |
| P0333.200-055-A2 | M20 | 20.2 | 55 | 2.5 | A2 s/s |
| P0333.240-085-A2 | M24 | 25.0 | 85 | 4.0 | A2 s/s |



Penny Washers

mudguard washers

Flat Washers



P0333.A4

FLAT WASHERS

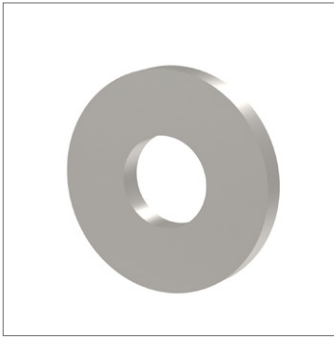
Material

Stainless steel (A4).

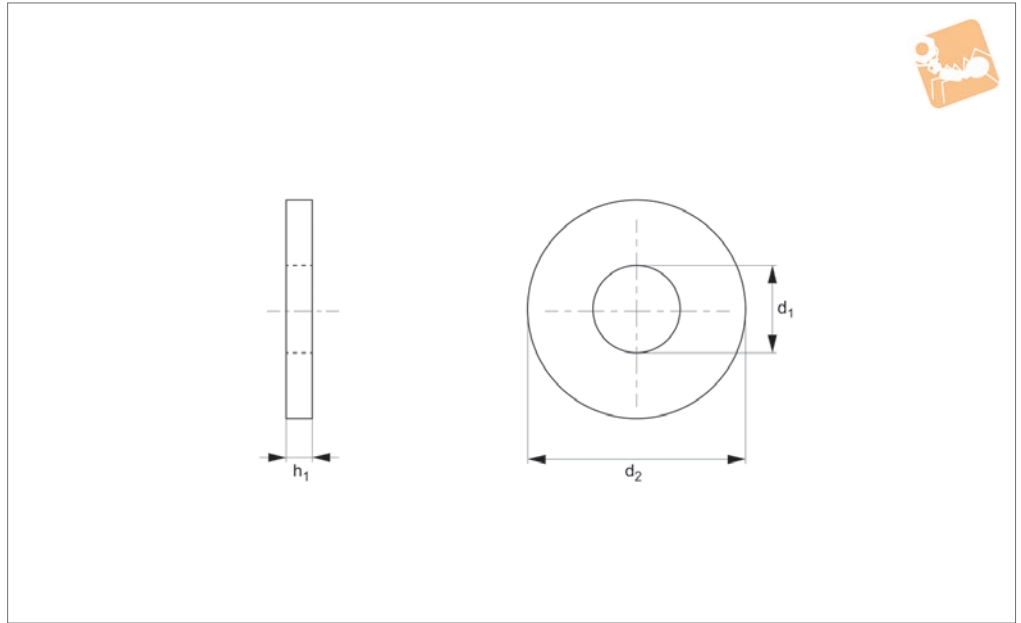
Technical Notes

Also known as Mudguard washers.

| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|------------------|------------|----------------|----------------|----------------|----------|
| P0333.040-020-A4 | M 4 | 4.2 | 20 | 1.2 | A4 s/s |
| P0333.050-020-A4 | M 5 | 5.2 | 20 | 1.3 | A4 s/s |
| P0333.060-018-A4 | M 6 | 6.5 | 18 | 1.5 | A4 s/s |
| P0333.060-020-A4 | M 6 | 6.5 | 20 | 1.5 | A4 s/s |
| P0333.060-025-A4 | M 6 | 6.5 | 25 | 1.5 | A4s/s |
| P0333.060-030-A4 | M 6 | 6.5 | 30 | 1.5 | A4 s/s |
| P0333.080-025-A4 | M 8 | 8.4 | 25 | 1.5 | A4 s/s |
| P0333.080-030-A4 | M 8 | 8.4 | 30 | 1.5 | A4 s/s |
| P0333.100-025-A4 | M10 | 10.5 | 25 | 1.5 | A4 s/s |
| P0333.100-030-A4 | M10 | 10.5 | 30 | 1.5 | A4 s/s |
| P0333.100-035-A4 | M10 | 10.5 | 35 | 1.5 | A4 s/s |
| P0333.120-036-A4 | M12 | 13.0 | 36 | 2.0 | A4 s/s |
| P0333.160-036-A4 | M16 | 16.5 | 36 | 2.5 | A4 s/s |



P0333.ZP



Material
Steel, zinc-plated.

Technical Notes
Also known as Mudguard washers.

| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|------------------|------------|----------------|----------------|----------------|----------|
| P0333.030-010-ZP | M 3 | 3.3 | 10 | 0.8 | Steel ZP |
| P0333.040-020-ZP | M 4 | 4.2 | 20 | 1.2 | Steel ZP |
| P0333.050-020-ZP | M 5 | 5.2 | 20 | 1.3 | Steel ZP |
| P0333.050-025-ZP | M 5 | 5.2 | 25 | 1.3 | Steel ZP |
| P0333.050-030-ZP | M 5 | 5.2 | 30 | 1.3 | Steel ZP |
| P0333.060-014-ZP | M 6 | 6.5 | 14 | 1.5 | Steel ZP |
| P0333.060-020-ZP | M 6 | 6.5 | 20 | 1.5 | Steel ZP |
| P0333.060-025-ZP | M 6 | 6.5 | 25 | 1.5 | Steel ZP |
| P0333.060-027-ZP | M 6 | 6.5 | 27 | 1.5 | Steel ZP |
| P0333.060-030-ZP | M 6 | 6.5 | 30 | 1.5 | Steel ZP |
| P0333.060-035-ZP | M 6 | 6.5 | 35 | 1.5 | Steel ZP |
| P0333.060-038-ZP | M 6 | 6.5 | 38 | 1.5 | Steel ZP |
| P0333.060-040-ZP | M 6 | 6.5 | 40 | 1.5 | Steel ZP |
| P0333.070-020-ZP | M 7 | 7.4 | 20 | 1.5 | Steel ZP |
| P0333.070-025-ZP | M 7 | 7.4 | 25 | 1.5 | Steel ZP |
| P0333.070-030-ZP | M 7 | 7.4 | 30 | 1.5 | Steel ZP |
| P0333.080-025-ZP | M 8 | 8.4 | 25 | 1.5 | Steel ZP |
| P0333.080-030-ZP | M 8 | 8.4 | 30 | 1.5 | Steel ZP |
| P0333.080-035-ZP | M 8 | 8.4 | 35 | 1.5 | Steel ZP |
| P0333.080-038-ZP | M 8 | 8.4 | 38 | 1.5 | Steel ZP |
| P0333.080-040-ZP | M 8 | 8.4 | 40 | 1.5 | Steel ZP |
| P0333.080-045-ZP | M 8 | 8.4 | 45 | 1.5 | Steel ZP |
| P0333.080-050-ZP | M 8 | 8.4 | 50 | 1.5 | Steel ZP |
| P0333.100-030-ZP | M10 | 10.5 | 30 | 1.5 | Steel ZP |
| P0333.100-035-ZP | M10 | 10.5 | 35 | 1.5 | Steel ZP |
| P0333.100-038-ZP | M10 | 10.5 | 38 | 1.5 | Steel ZP |
| P0333.100-040-ZP | M10 | 10.5 | 40 | 1.5 | Steel ZP |
| P0333.100-050-ZP | M10 | 10.5 | 50 | 1.5 | Steel ZP |
| P0333.100-060-ZP | M10 | 10.5 | 60 | 1.5 | Steel ZP |
| P0333.110-035-ZP | M11 | 11.5 | 35 | 1.5 | Steel ZP |
| P0333.120-030-ZP | M12 | 12.5 | 30 | 2.0 | Steel ZP |
| P0333.120-036-ZP | M12 | 12.5 | 36 | 2.0 | Steel ZP |
| P0333.120-040-ZP | M12 | 12.5 | 40 | 2.0 | Steel ZP |
| P0333.120-060-ZP | M12 | 12.5 | 60 | 2.0 | Steel ZP |
| P0333.140-036-ZP | M14 | 14.5 | 36 | 2.0 | Steel ZP |



Penny Washers mudguard washers

Flat Washers

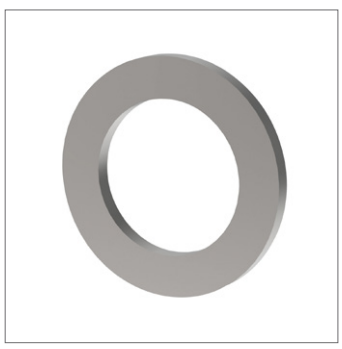


| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|------------------|------------|----------------|----------------|----------------|----------|
| P0333.140-040-ZP | M14 | 14.5 | 40 | 2.0 | Steel ZP |
| P0333.140-045-ZP | M14 | 14.5 | 45 | 2.0 | Steel ZP |
| P0333.160-040-ZP | M16 | 16.5 | 40 | 2.5 | Steel ZP |
| P0333.160-045-ZP | M16 | 16.5 | 45 | 2.5 | Steel ZP |
| P0333.160-050-ZP | M16 | 16.5 | 50 | 2.5 | Steel ZP |
| P0333.170-040-ZP | M17 | 17.2 | 40 | 2.5 | Steel ZP |
| P0333.170-045-ZP | M17 | 17.2 | 45 | 2.5 | Steel ZP |
| P0333.200-050-ZP | M20 | 20.2 | 50 | 2.5 | Steel ZP |
| P0333.200-055-ZP | M20 | 20.2 | 55 | 2.5 | Steel ZP |
| P0333.220-075-ZP | M22 | 24.0 | 75 | 4.0 | Steel ZP |
| P0333.240-080-ZP | M24 | 25.0 | 80 | 4.0 | Steel ZP |
| P0333.240-085-ZP | M24 | 25.0 | 85 | 4.0 | Steel ZP |
| P0333.270-085-ZP | M27 | 28.0 | 85 | 4.0 | Steel ZP |
| P0333.300-095-ZP | M30 | 32.0 | 95 | 4.0 | Steel ZP |

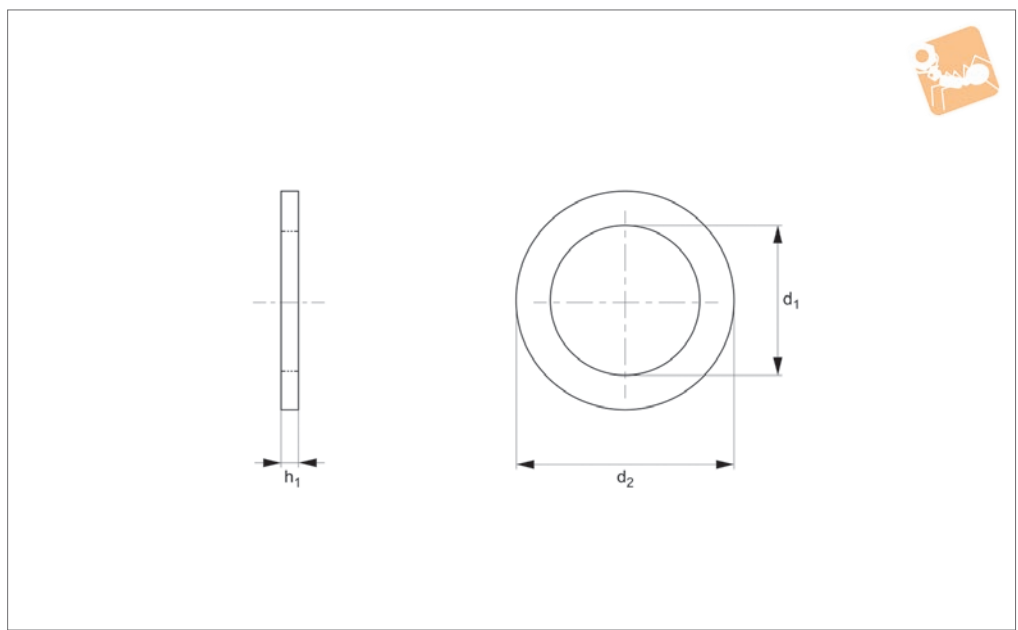
FLAT WASHERS



FLAT WASHERS



P0335.A2



Material

Stainless steel (A2, AISI 303).

Technical Notes

To DIN 433.

| Order No. | d_1 | d_2 | For thread | h_1 | Material |
|--------------|-------|-------|------------|-------|----------|
| P0335.014-A2 | 1.5 | 3 | M1,4 | 0.3 | A2 s/s |
| P0335.016-A2 | 1.7 | 3.5 | M1,6 | 0.3 | A2 s/s |
| P0335.020-A2 | 2.2 | 4.5 | M 2 | 0.3 | A2 s/s |
| P0335.025-A2 | 2.7 | 5 | M2,5 | 0.5 | A2 s/s |
| P0335.030-A2 | 3.2 | 6 | M 3 | 0.5 | A2 s/s |
| P0335.035-A2 | 3.7 | 7 | M3,5 | 0.5 | A2 s/s |
| P0335.040-A2 | 4.3 | 8 | M 4 | 0.5 | A2 s/s |
| P0335.050-A2 | 5.3 | 9 | M 5 | 1.0 | A2 s/s |
| P0335.060-A2 | 6.4 | 11 | M 6 | 1.6 | A2 s/s |
| P0335.080-A2 | 8.4 | 15 | M 8 | 1.6 | A2 s/s |
| P0335.100-A2 | 10.5 | 18 | M10 | 1.6 | A2 s/s |
| P0335.120-A2 | 13 | 20 | M12 | 2.0 | A2 s/s |
| P0335.140-A2 | 15 | 24 | M14 | 2.5 | A2 s/s |
| P0335.160-A2 | 17 | 28 | M16 | 2.5 | A2 s/s |
| P0335.180-A2 | 19 | 30 | M18 | 2.5 | A2 s/s |
| P0335.200-A2 | 21 | 34 | M20 | 3.0 | A2 s/s |

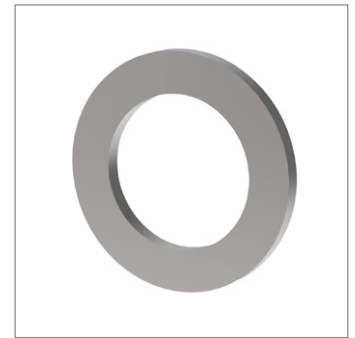
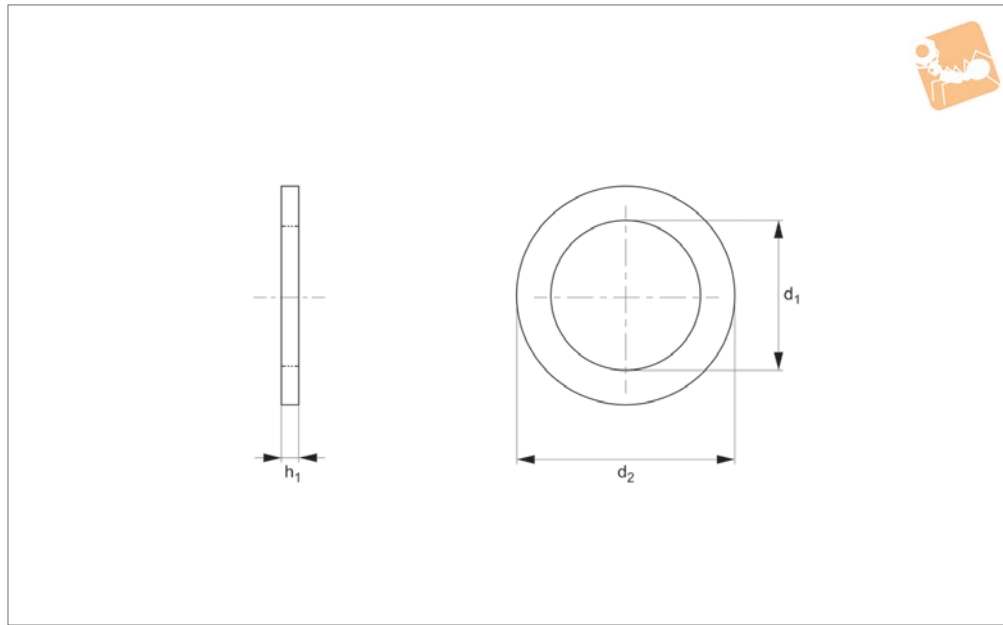


Flat Washer

A4 stainless



Flat Washers



P0335.A4

FLAT WASHERS

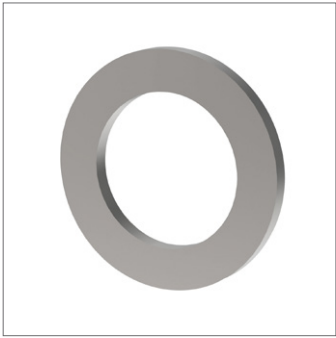
Material

Stainless steel (A4, AISI 316).

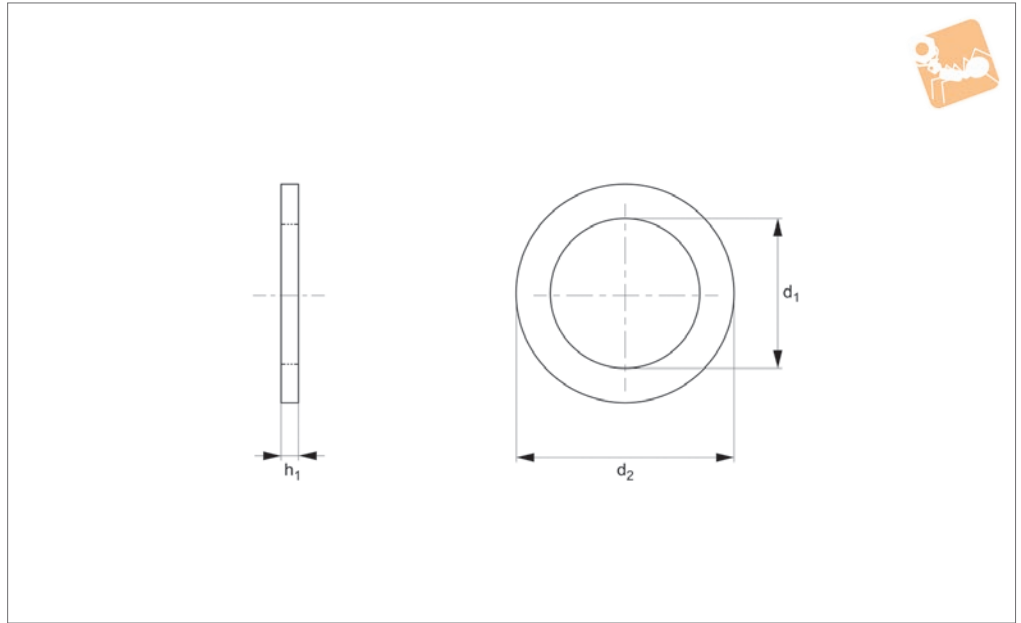
Technical Notes

To DIN 433.

| Order No. | d ₁ | d ₂ | For thread | h ₁ | Material |
|--------------|----------------|----------------|------------|----------------|----------|
| P0335.014-A4 | 1.5 | 3 | M1,4 | 0.3 | A4 s/s |
| P0335.016-A4 | 1.7 | 3.5 | M1,6 | 0.3 | A4 s/s |
| P0335.020-A4 | 2.2 | 4.5 | M 2 | 0.3 | A4 s/s |
| P0335.025-A4 | 2.7 | 5 | M2,5 | 0.5 | A4 s/s |
| P0335.030-A4 | 3.2 | 6 | M 3 | 0.5 | A4 s/s |
| P0335.035-A4 | 3.7 | 7 | M3,5 | 0.5 | A4 s/s |
| P0335.040-A4 | 4.3 | 8 | M 4 | 0.5 | A4 s/s |
| P0335.050-A4 | 5.3 | 9 | M 5 | 1.0 | A4 s/s |
| P0335.060-A4 | 6.4 | 11 | M 6 | 1.6 | A4 s/s |
| P0335.080-A4 | 8.4 | 15 | M 8 | 1.6 | A4 s/s |
| P0335.100-A4 | 10.5 | 18 | M10 | 1.6 | A4 s/s |
| P0335.120-A4 | 13 | 20 | M12 | 2.0 | A4 s/s |
| P0335.140-A4 | 15 | 24 | M14 | 2.5 | A4 s/s |
| P0335.160-A4 | 17 | 28 | M16 | 2.5 | A4 s/s |
| P0335.180-A4 | 19 | 30 | M18 | 2.5 | A4 s/s |
| P0335.200-A4 | 21 | 34 | M20 | 3.0 | A4 s/s |



P0335.ZP



FLAT WASHERS

Material

Steel, zinc plated.

Technical Notes

To DIN 433.

| Order No. | d_1 | d_2 | For thread | h_1 | Material |
|--------------|-------|-------|------------|-------|----------|
| P0335.014-ZP | 1.5 | 3 | M1,4 | 0.3 | Steel ZP |
| P0335.016-ZP | 1.7 | 3.5 | M1,6 | 0.3 | Steel ZP |
| P0335.020-ZP | 2.2 | 4.5 | M 2 | 0.3 | Steel ZP |
| P0335.025-ZP | 2.7 | 5 | M2,5 | 0.5 | Steel ZP |
| P0335.030-ZP | 3.2 | 6 | M 3 | 0.5 | Steel ZP |
| P0335.035-ZP | 3.7 | 7 | M3,5 | 0.5 | Steel ZP |
| P0335.040-ZP | 4.3 | 8 | M 4 | 0.5 | Steel ZP |
| P0335.050-ZP | 5.3 | 9 | M 5 | 1.0 | Steel ZP |
| P0335.060-ZP | 6.4 | 11 | M 6 | 1.6 | Steel ZP |
| P0335.080-ZP | 8.4 | 15 | M 8 | 1.6 | Steel ZP |
| P0335.100-ZP | 10.5 | 18 | M10 | 1.6 | Steel ZP |
| P0335.120-ZP | 13 | 20 | M12 | 2.0 | Steel ZP |
| P0335.140-ZP | 15 | 24 | M14 | 2.5 | Steel ZP |
| P0335.160-ZP | 17 | 28 | M16 | 2.5 | Steel ZP |
| P0335.180-ZP | 19 | 30 | M18 | 2.5 | Steel ZP |
| P0335.200-ZP | 21 | 34 | M20 | 3.0 | Steel ZP |

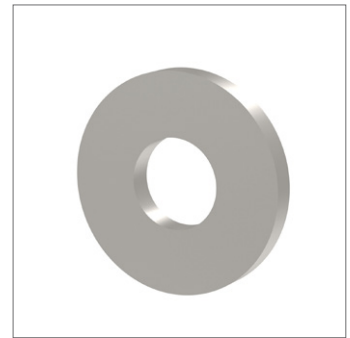
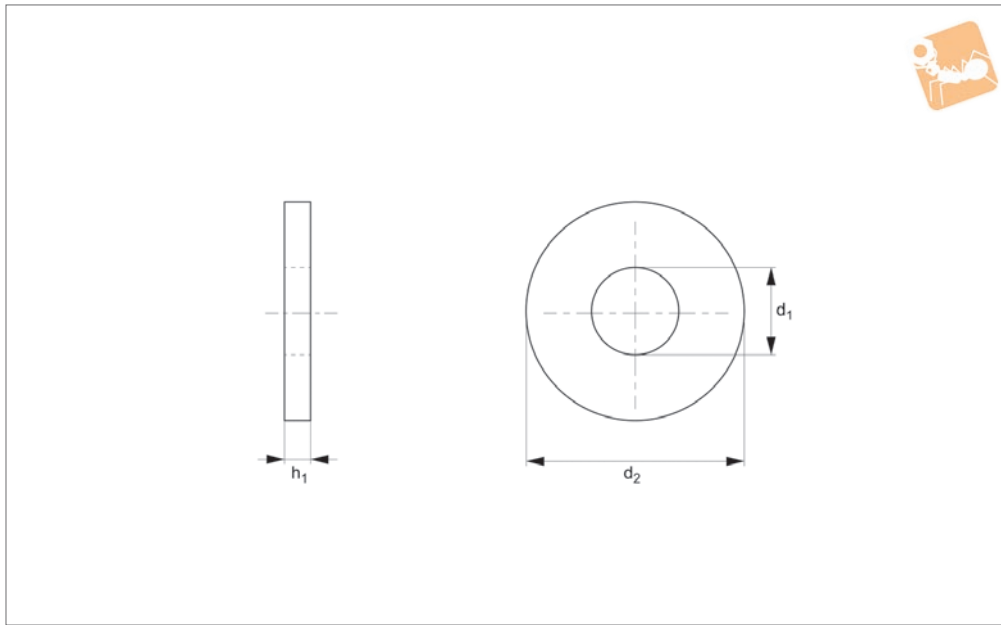


Heavy Flat Washers

Heavy - A2 stainless



Flat Washers



P0336.A2

FLAT WASHERS

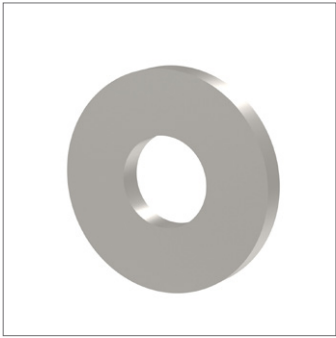
Material

Stainless steel (A2).

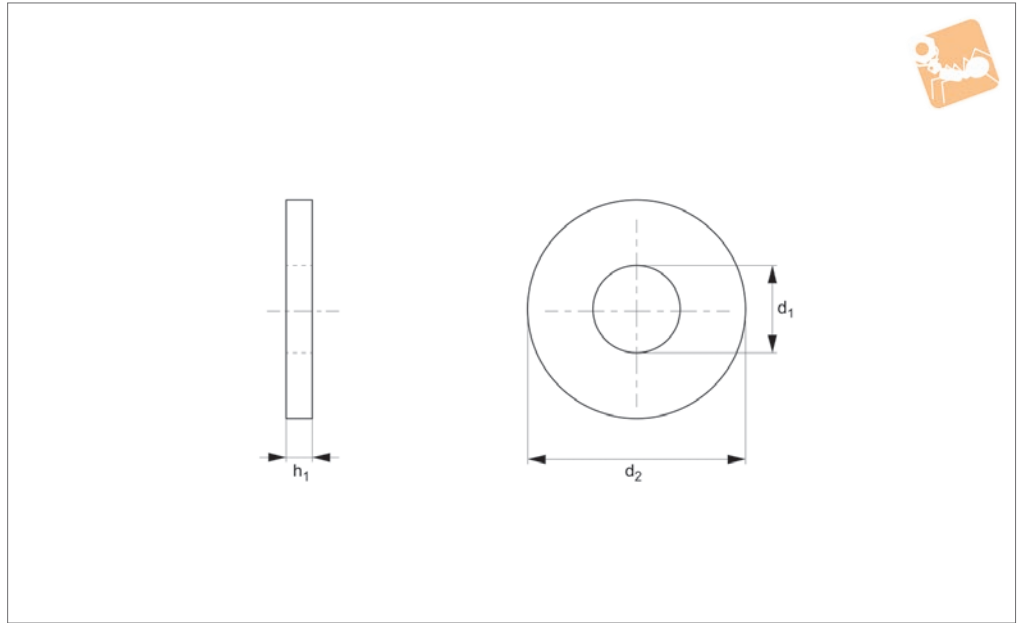
Technical Notes

To DIN 7349.

| Order No. | d ₁ | d ₂ | For thread | h | Material |
|--------------|----------------|----------------|------------|------|----------|
| P0336.030-A2 | 3.2 | 9 | M 3 | 1.0 | A2 s/s |
| P0336.040-A2 | 4.3 | 12 | M 4 | 1.6 | A2 s/s |
| P0336.050-A2 | 5.3 | 15 | M 5 | 2.0 | A2 s/s |
| P0336.060-A2 | 6.4 | 17 | M 6 | 3.0 | A2 s/s |
| P0336.080-A2 | 8.4 | 21 | M 8 | 4.0 | A2 s/s |
| P0336.100-A2 | 10.5 | 25 | M10 | 4.0 | A2 s/s |
| P0336.120-A2 | 13.0 | 30 | M12 | 6.0 | A2 s/s |
| P0336.140-A2 | 15.0 | 36 | M14 | 6.0 | A2 s/s |
| P0336.160-A2 | 17.0 | 40 | M16 | 6.0 | A2 s/s |
| P0336.180-A2 | 19.0 | 44 | M18 | 8.0 | A2 s/s |
| P0336.200-A2 | 21.0 | 44 | M20 | 8.0 | A2 s/s |
| P0336.220-A2 | 23.0 | 50 | M22 | 8.0 | A2 s/s |
| P0336.240-A2 | 25.0 | 50 | M24 | 10.0 | A2 s/s |
| P0336.270-A2 | 28.0 | 60 | M27 | 10.0 | A2 s/s |
| P0336.300-A2 | 31.0 | 68 | M30 | 10.0 | A2 s/s |



P0336.A4



Material
Stainless steel (A4).

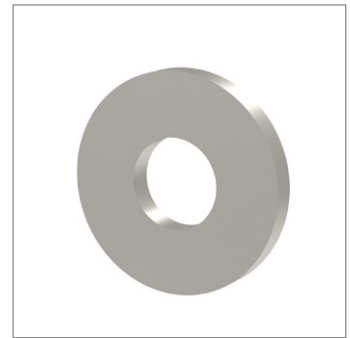
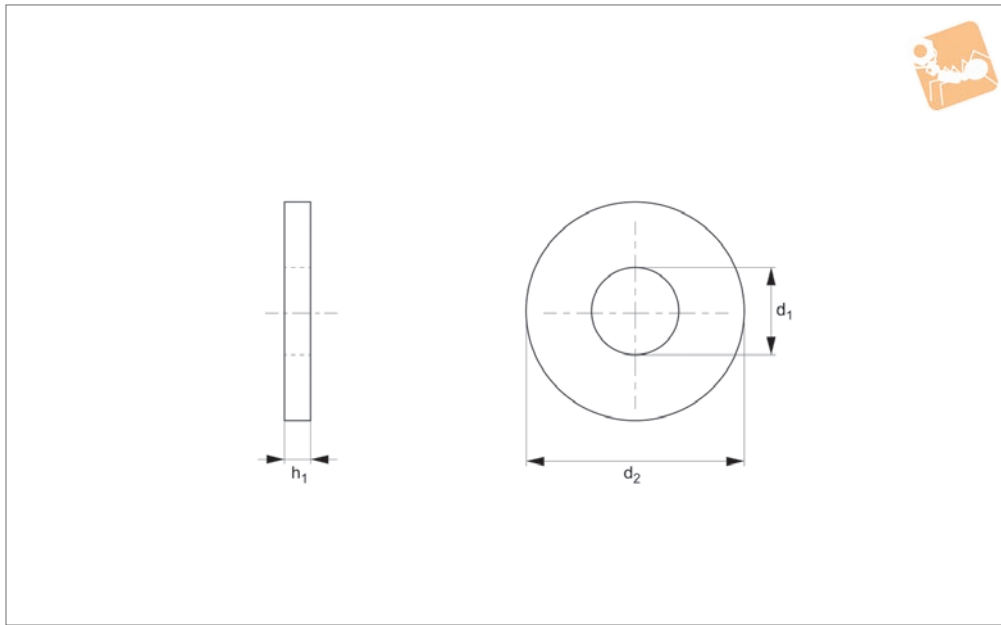
Technical Notes
To DIN 7349.

| Order No. | d_1 | d_2 | For thread | h | Material |
|--------------|-------|-------|------------|------|----------|
| P0336.030-A4 | 3.2 | 9 | M 3 | 1.0 | A4 s/s |
| P0336.040-A4 | 4.3 | 12 | M 4 | 1.6 | A4 s/s |
| P0336.050-A4 | 5.3 | 15 | M 5 | 2.0 | A4 s/s |
| P0336.060-A4 | 6.4 | 17 | M 6 | 3.0 | A4 s/s |
| P0336.080-A4 | 8.4 | 21 | M 8 | 4.0 | A4 s/s |
| P0336.100-A4 | 10.5 | 25 | M10 | 4.0 | A4 s/s |
| P0336.120-A4 | 13.0 | 30 | M12 | 6.0 | A4 s/s |
| P0336.140-A4 | 15.0 | 36 | M14 | 6.0 | A4 s/s |
| P0336.160-A4 | 17.0 | 40 | M16 | 6.0 | A4 s/s |
| P0336.180-A4 | 19.0 | 44 | M18 | 8.0 | A4 s/s |
| P0336.200-A4 | 21.0 | 44 | M20 | 8.0 | A4 s/s |
| P0336.220-A4 | 23.0 | 50 | M22 | 8.0 | A4 s/s |
| P0336.240-A4 | 25.0 | 50 | M24 | 10.0 | A4 s/s |
| P0336.270-A4 | 28.0 | 60 | M27 | 10.0 | A4 s/s |
| P0336.300-A4 | 31.0 | 68 | M30 | 10.0 | A4 s/s |



Heavy Flat Washers

Heavy - steel, zinc-plated



P0336.ZP

FLAT WASHERS

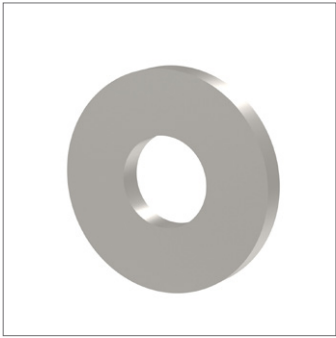
Material

Steel, zinc-plated.

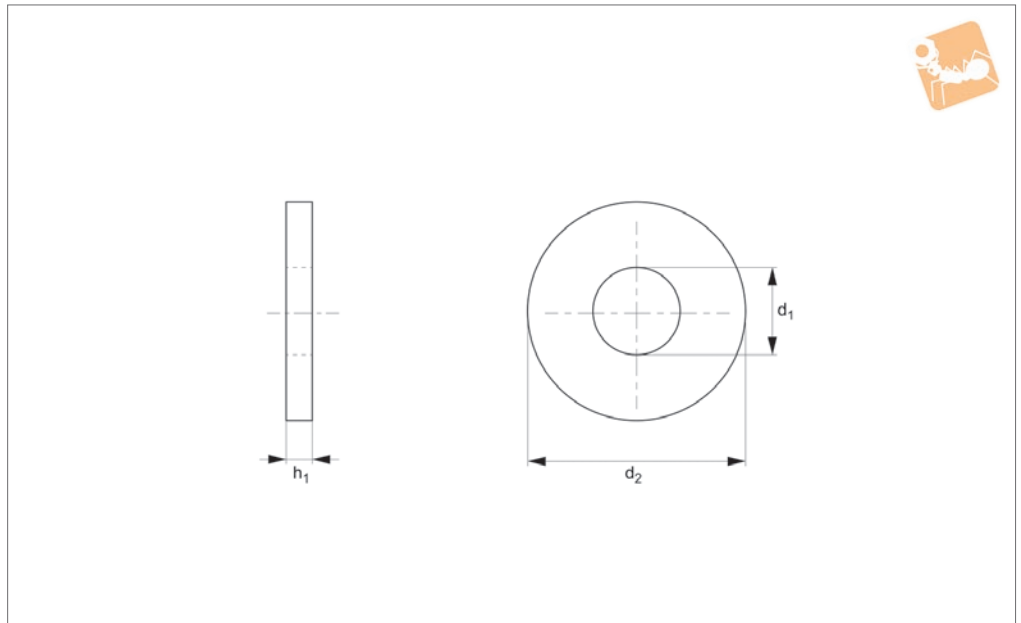
Technical Notes

To DIN 7349.

| Order No. | d ₁ | d ₂ | For thread | h | Material |
|--------------|----------------|----------------|------------|------|----------|
| P0336.030-ZP | 3.2 | 9 | M 3 | 1.0 | Steel ZP |
| P0336.040-ZP | 4.3 | 12 | M 4 | 1.6 | Steel ZP |
| P0336.050-ZP | 5.3 | 15 | M 5 | 2.0 | Steel ZP |
| P0336.060-ZP | 6.4 | 17 | M 6 | 3.0 | Steel ZP |
| P0336.080-ZP | 8.4 | 21 | M 8 | 4.0 | Steel ZP |
| P0336.100-ZP | 10.5 | 25 | M10 | 4.0 | Steel ZP |
| P0336.120-ZP | 13.0 | 30 | M12 | 6.0 | Steel ZP |
| P0336.140-ZP | 15.0 | 36 | M14 | 6.0 | Steel ZP |
| P0336.160-ZP | 17.0 | 40 | M16 | 6.0 | Steel ZP |
| P0336.180-ZP | 19.0 | 44 | M18 | 8.0 | Steel ZP |
| P0336.200-ZP | 21.0 | 44 | M20 | 8.0 | Steel ZP |
| P0336.220-ZP | 23.0 | 50 | M22 | 8.0 | Steel ZP |
| P0336.240-ZP | 25.0 | 50 | M24 | 10.0 | Steel ZP |
| P0336.270-ZP | 28.0 | 60 | M27 | 10.0 | Steel ZP |
| P0336.300-ZP | 31.0 | 68 | M30 | 10.0 | Steel ZP |



P0336.SC



Material
Steel, self-coloured.

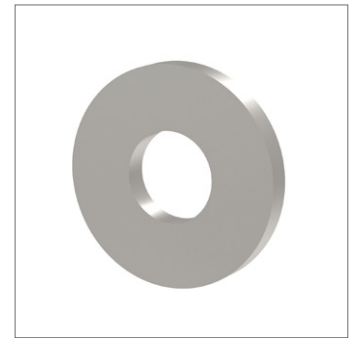
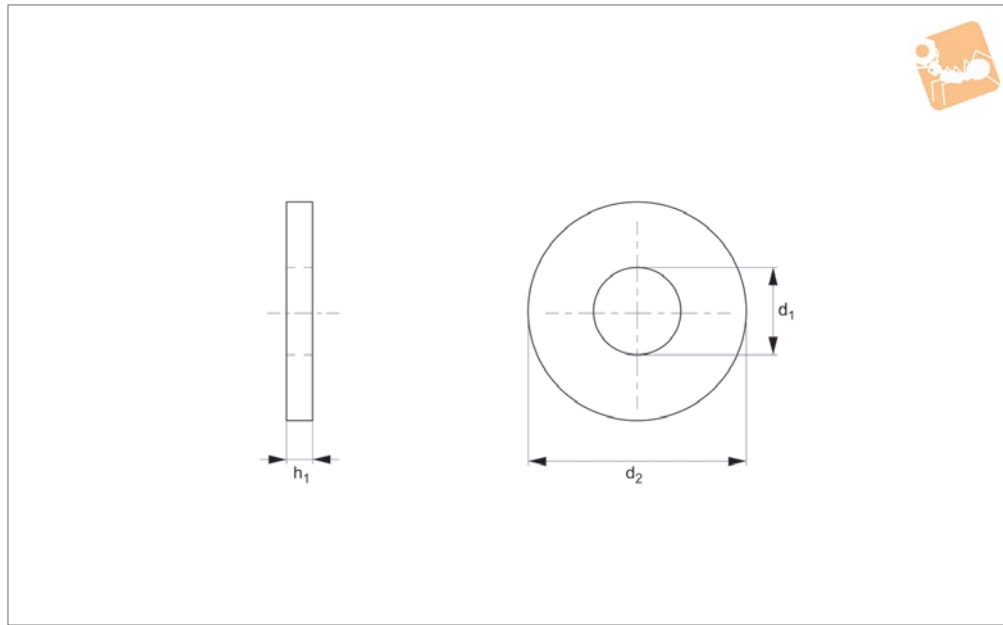
Technical Notes
To DIN 7349.

| Order No. | d_1 | d_2 | For thread | h | Material |
|--------------|-------|-------|------------|------|----------|
| P0336.030-SC | 3.2 | 9 | M 3 | 1.0 | Steel SC |
| P0336.040-SC | 4.3 | 12 | M 4 | 1.6 | Steel SC |
| P0336.050-SC | 5.3 | 15 | M 5 | 2.0 | Steel SC |
| P0336.060-SC | 6.4 | 17 | M 6 | 3.0 | Steel SC |
| P0336.080-SC | 8.4 | 21 | M 8 | 4.0 | Steel SC |
| P0336.100-SC | 10.5 | 25 | M10 | 4.0 | Steel SC |
| P0336.120-SC | 13.0 | 30 | M12 | 6.0 | Steel SC |
| P0336.140-SC | 15.0 | 36 | M14 | 6.0 | Steel SC |
| P0336.160-SC | 17.0 | 40 | M16 | 6.0 | Steel SC |
| P0336.180-SC | 19.0 | 44 | M18 | 8.0 | Steel SC |
| P0336.200-SC | 21.0 | 44 | M20 | 8.0 | Steel SC |
| P0336.220-SC | 23.0 | 50 | M22 | 8.0 | Steel SC |
| P0336.240-SC | 25.0 | 50 | M24 | 10.0 | Steel SC |
| P0336.270-SC | 28.0 | 60 | M27 | 10.0 | Steel SC |
| P0336.300-SC | 31.0 | 68 | M30 | 10.0 | Steel SC |



Large Diameter Washers

Large diameter - A2 stainless



P0337.A2

FLAT WASHERS

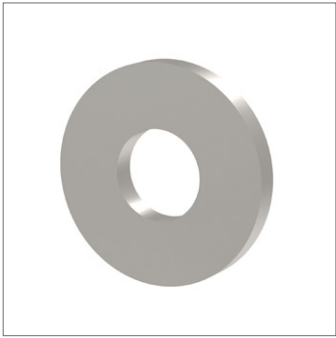
Material

Stainless steel (A2).

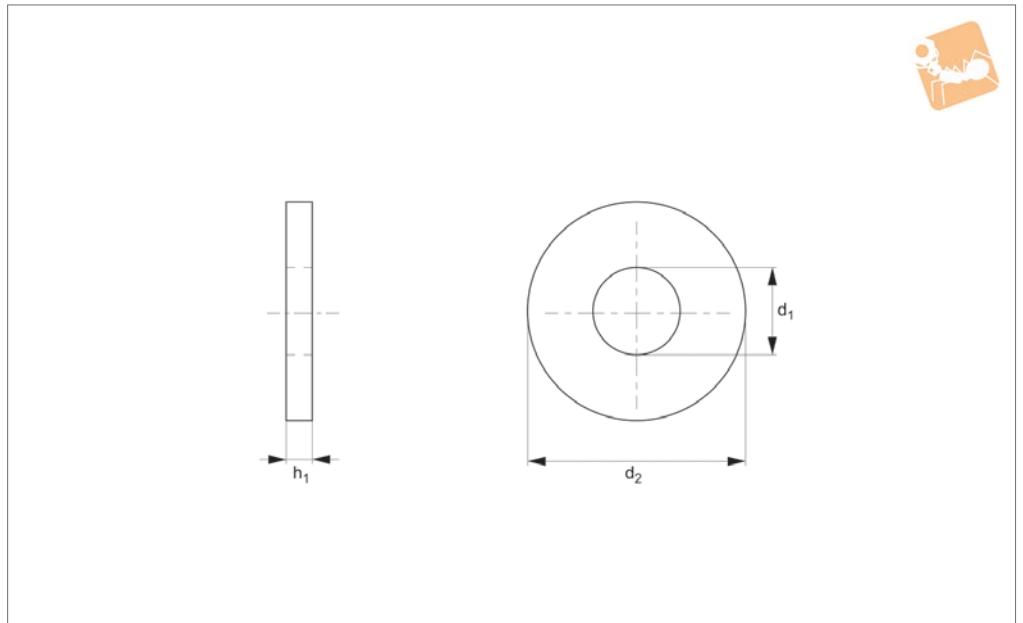
Technical Notes

To DIN 9021, ISO 7093.

| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------|
| P0337.020-A2 | M 2 | 2.2 | 6 | 0.8 | A2 s/s |
| P0337.025-A2 | M2,5 | 2.7 | 8 | 0.8 | A2 s/s |
| P0337.030-A2 | M 3 | 3.2 | 9 | 0.8 | A2 s/s |
| P0337.035-A2 | M3,5 | 3.7 | 11 | 0.8 | A2 s/s |
| P0337.040-A2 | M 4 | 4.3 | 12 | 1.0 | A2 s/s |
| P0337.050-A2 | M 5 | 5.3 | 15 | 1.2 | A2 s/s |
| P0337.060-A2 | M 6 | 6.4 | 18 | 1.6 | A2 s/s |
| P0337.070-A2 | M 7 | 7.4 | 22 | 2.0 | A2 s/s |
| P0337.080-A2 | M 8 | 8.4 | 24 | 2.0 | A2 s/s |
| P0337.100-A2 | M10 | 10.5 | 30 | 2.5 | A2 s/s |
| P0337.120-A2 | M12 | 13.0 | 37 | 3.0 | A2 s/s |
| P0337.140-A2 | M14 | 15.0 | 44 | 3.0 | A2 s/s |
| P0337.160-A2 | M16 | 17.0 | 50 | 3.0 | A2 s/s |
| P0337.180-A2 | M18 | 20.0 | 56 | 4.0 | A2 s/s |
| P0337.200-A2 | M20 | 22.0 | 60 | 4.0 | A2 s/s |
| P0337.240-A2 | M24 | 26.0 | 72 | 5.0 | A2 s/s |
| P0337.300-A2 | M30 | 33.0 | 92 | 6.0 | A2 s/s |
| P0337.360-A2 | M36 | 39.0 | 110 | 8.0 | A2 s/s |



P0337.A4



Material

Stainless steel (A4).

Technical Notes

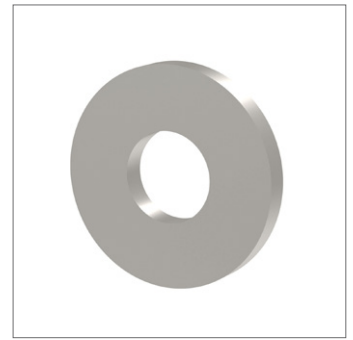
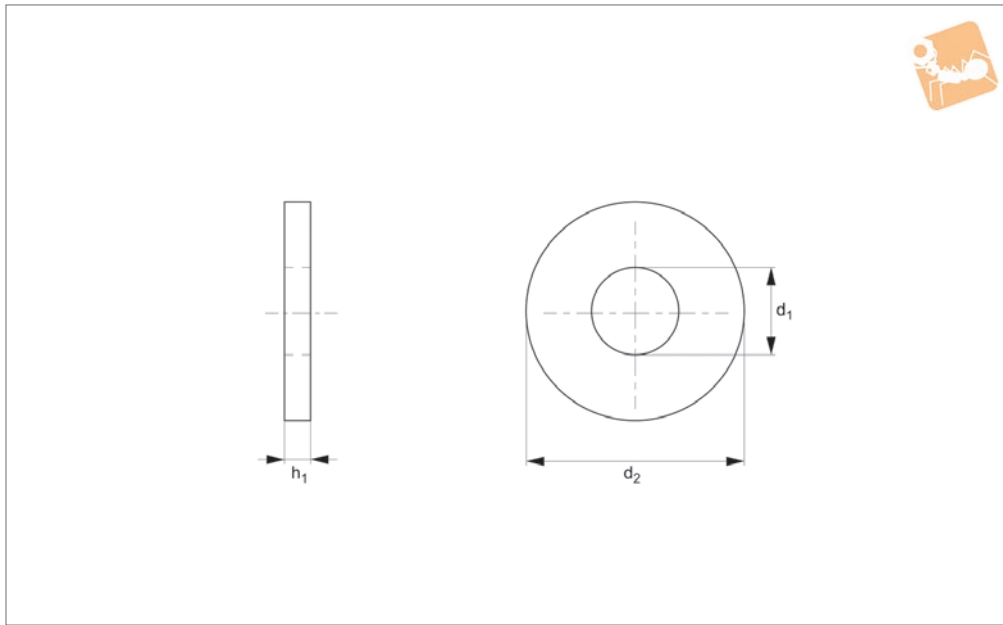
To DIN 9021, ISO 7093.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0337.020-A4 | M 2 | 2.2 | 6 | 0.8 | A4 s/s |
| P0337.025-A4 | M2,5 | 2.7 | 8 | 0.8 | A4 s/s |
| P0337.030-A4 | M 3 | 3.2 | 9 | 0.8 | A4 s/s |
| P0337.035-A4 | M3,5 | 3.7 | 11 | 0.8 | A4 s/s |
| P0337.040-A4 | M 4 | 4.3 | 12 | 1.0 | A4 s/s |
| P0337.050-A4 | M 5 | 5.3 | 15 | 1.2 | A4 s/s |
| P0337.060-A4 | M 6 | 6.4 | 18 | 1.6 | A4 s/s |
| P0337.070-A4 | M 7 | 7.4 | 22 | 2.0 | A4 s/s |
| P0337.080-A4 | M 8 | 8.4 | 24 | 2.0 | A4 s/s |
| P0337.100-A4 | M10 | 10.5 | 30 | 2.5 | A4 s/s |
| P0337.120-A4 | M12 | 13.0 | 37 | 3.0 | A4 s/s |
| P0337.140-A4 | M14 | 15.0 | 44 | 3.0 | A4 s/s |
| P0337.160-A4 | M16 | 17.0 | 50 | 3.0 | A4 s/s |
| P0337.180-A4 | M18 | 20.0 | 56 | 4.0 | A4 s/s |
| P0337.200-A4 | M20 | 22.0 | 60 | 4.0 | A4 s/s |
| P0337.240-A4 | M24 | 26.0 | 72 | 5.0 | A4 s/s |
| P0337.300-A4 | M30 | 33.0 | 92 | 6.0 | A4 s/s |
| P0337.360-A4 | M36 | 39.0 | 110 | 8.0 | A4 s/s |



Large Diameter Washers

Large Diameter- Brass



P0337.BR

FLAT WASHERS

Material

Brass.

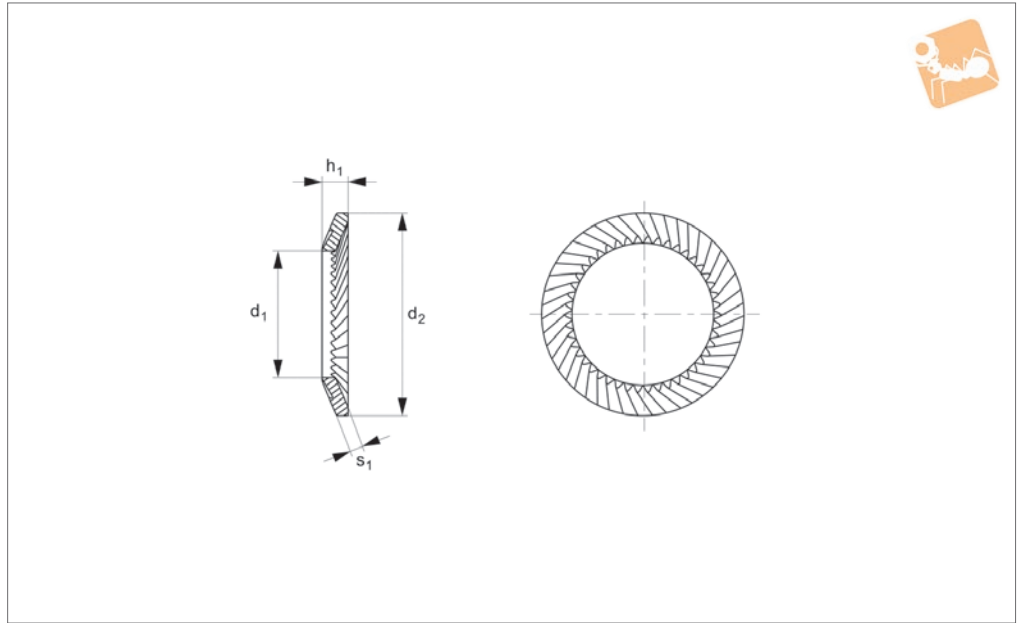
Technical Notes

To DIN 9021, ISO 7093.

| Order No. | For thread | d_1 | d_2 | h_1 | Material |
|--------------|------------|-------|-------|-------|----------|
| P0337.030-BR | M 3 | 3.2 | 9 | 0.8 | Brass |
| P0337.040-BR | M 4 | 4.3 | 12 | 1.0 | Brass |
| P0337.050-BR | M 5 | 5.3 | 15 | 1.2 | Brass |
| P0337.060-BR | M 6 | 6.4 | 18 | 1.6 | Brass |
| P0337.080-BR | M 8 | 8.4 | 24 | 2.0 | Brass |
| P0337.100-BR | M10 | 10.5 | 30 | 2.5 | Brass |
| P0337.120-BR | M12 | 13.0 | 37 | 3.0 | Brass |
| P0337.140-BR | M14 | 15.0 | 44 | 3.0 | Brass |
| P0337.160-BR | M16 | 17.0 | 50 | 3.0 | Brass |
| P0337.200-BR | M20 | 22.0 | 60 | 4.0 | Brass |



P0363.A2



Material

Stainless steel (A2).

Technical Notes

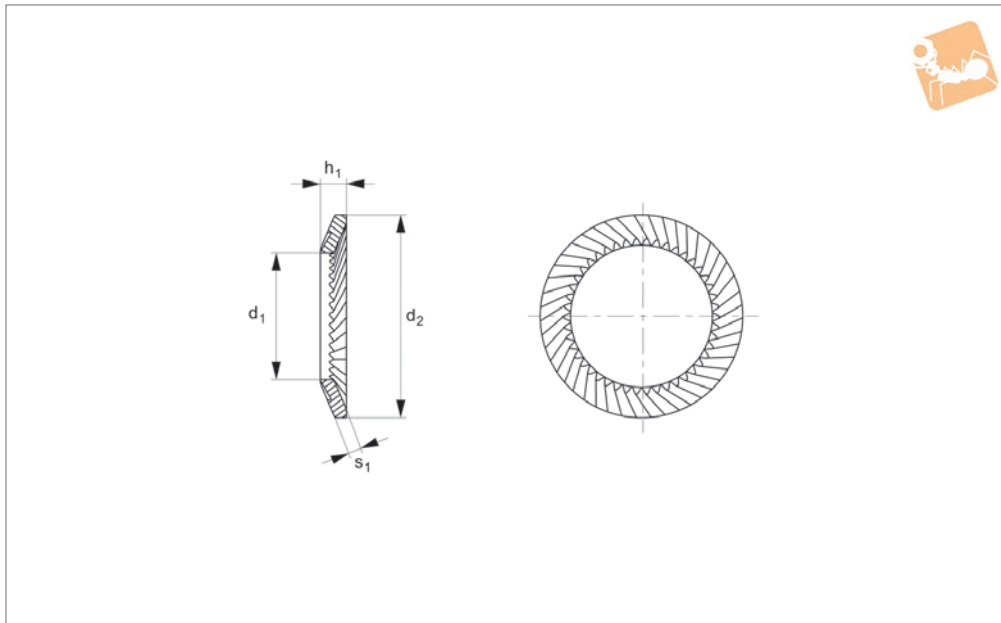
To DIN 17222. Can be used with screws of class 8 and 8.8

| Order No. | For thread | d ₁ | d ₂ | h ₁ | s ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------------|----------|
| P0363.025-A2 | M2,5 | 2.7 | 4.8 | 0.90 | 0.45 | A2 s/s |
| P0363.030-A2 | M 3 | 3.2 | 5.5 | 0.85 | 0.45 | A2 s/s |
| P0363.040-A2 | M 4 | 4.3 | 7.0 | 0.95 | 0.50 | A2 s/s |
| P0363.050-A2 | M 5 | 5.3 | 9.0 | 1.05 | 0.60 | A2 s/s |
| P0363.060-A2 | M 6 | 6.4 | 10.0 | 1.20 | 0.70 | A2 s/s |
| P0363.080-A2 | M 8 | 8.4 | 13.0 | 1.40 | 0.80 | A2 s/s |
| P0363.100-A2 | M10 | 10.5 | 16.0 | 1.60 | 1.00 | A2 s/s |
| P0363.120-A2 | M12 | 13.0 | 18.0 | 1.70 | 1.00 | A2 s/s |
| P0363.140-A2 | M14 | 15.0 | 21.0 | 2.00 | 1.20 | A2 s/s |
| P0363.160-A2 | M16 | 17.0 | 24.0 | 2.10 | 1.20 | A2 s/s |
| P0363.200-A2 | M20 | 21.0 | 30.0 | 2.50 | 1.40 | A2 s/s |
| P0363.240-A2 | M24 | 26.0 | 36.0 | 2.90 | 1.60 | A2 s/s |
| P0363.300-A2 | M30 | 32.0 | 45.0 | 3.60 | 2.00 | A2 s/s |



Schnorr Safety Washers

Steel, self-coloured



P0363.SC

FLAT WASHERS

Material

Steel, self-coloured.

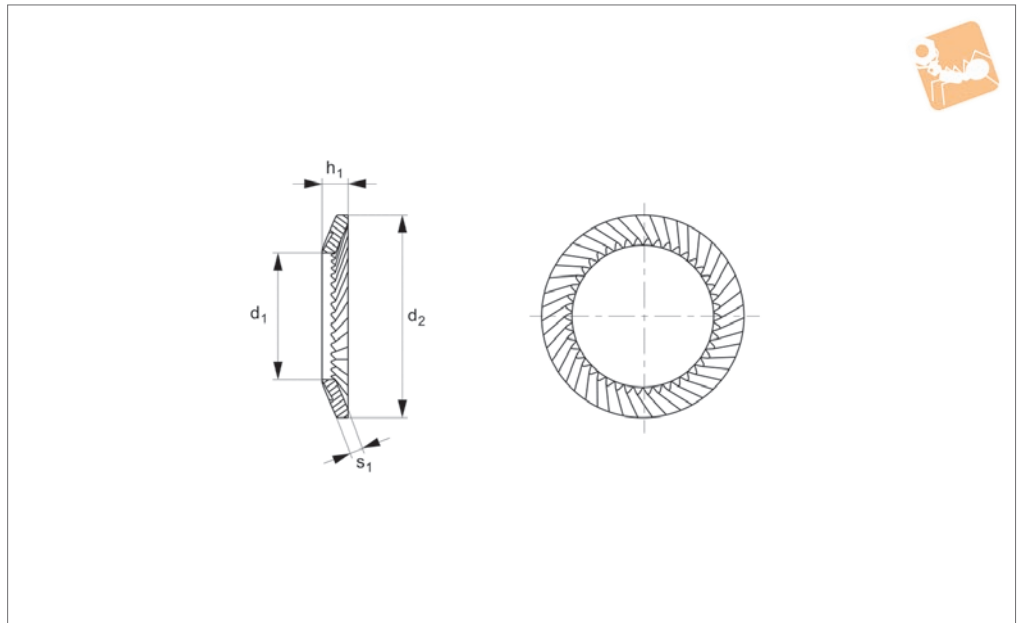
Technical Notes

To DIN 17222. Can be used with screws of class 8 and 8.8

| Order No. | For thread | d ₁ | d ₂ | h | Material |
|--------------|------------|----------------|----------------|-----|----------|
| P0363.030-SC | M 3 | 3.2 | 5.5 | 0.9 | Steel SC |
| P0363.040-SC | M 4 | 4.3 | 7.0 | 1.0 | Steel SC |
| P0363.050-SC | M 5 | 5.3 | 9.0 | 1.1 | Steel SC |
| P0363.060-SC | M 6 | 6.4 | 10.0 | 1.2 | Steel SC |
| P0363.080-SC | M 8 | 8.4 | 13.0 | 1.4 | Steel SC |
| P0363.100-SC | M10 | 10.5 | 16.0 | 1.6 | Steel SC |
| P0363.120-SC | M12 | 13.0 | 18.0 | 1.7 | Steel SC |
| P0363.140-SC | M14 | 15.0 | 22.0 | 2.0 | Steel SC |
| P0363.160-SC | M16 | 17.0 | 24.0 | 2.1 | Steel SC |
| P0363.180-SC | M18 | 19.0 | 27.0 | 2.3 | Steel SC |
| P0363.200-SC | M20 | 21.0 | 30.0 | 2.5 | Steel SC |
| P0363.220-SC | M22 | 23.0 | 33.0 | 2.7 | Steel SC |
| P0363.240-SC | M24 | 26.0 | 36.0 | 2.9 | Steel SC |
| P0363.270-SC | M27 | 29.0 | 39.0 | 3.1 | Steel SC |
| P0363.300-SC | M30 | 32.0 | 45.0 | 3.6 | Steel SC |



P0363.GV



Material

Steel, galvanised.

Technical Notes

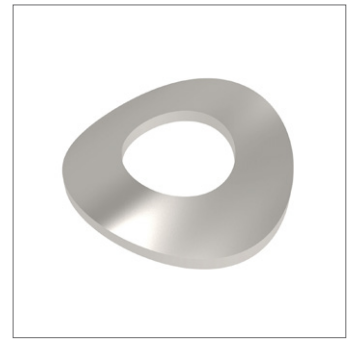
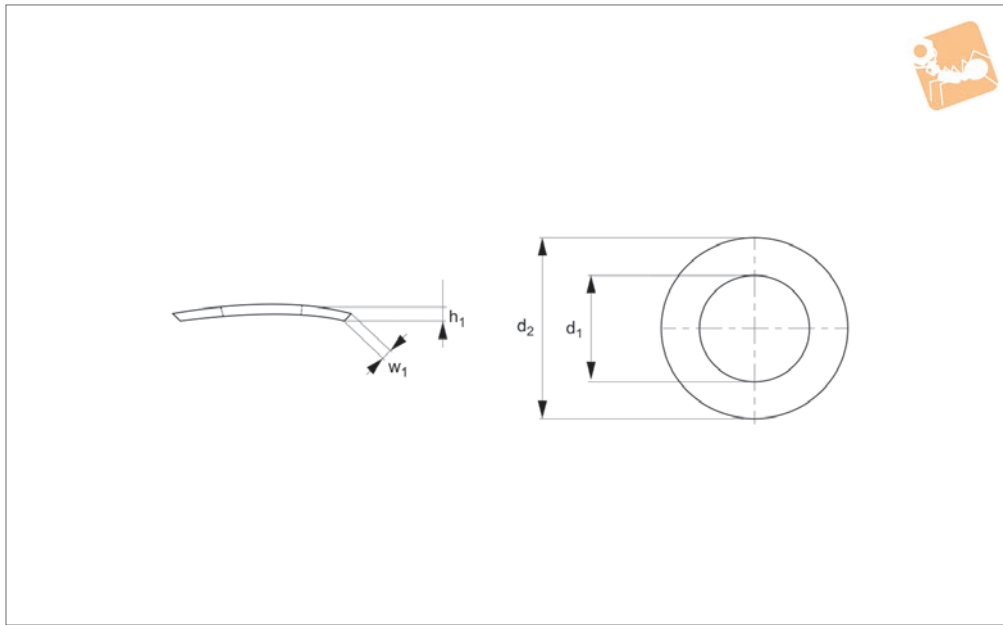
To DIN 17222. Can be used with screws of class 8 and 8.8

| Order No. | For thread | d ₁ | d ₂ | h ₁ | s ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------------|----------|
| P0363.030-GV | M 3 | 3.2 | 5.5 | 0.85 | 0.45 | Steel GV |
| P0363.040-GV | M 4 | 4.3 | 7.0 | 0.95 | 0.50 | Steel GV |
| P0363.050-GV | M 5 | 5.3 | 9.0 | 1.05 | 0.60 | Steel GV |
| P0363.060-GV | M 6 | 6.4 | 10.0 | 1.20 | 0.70 | Steel GV |
| P0363.080-GV | M 8 | 8.4 | 13.0 | 1.40 | 0.80 | Steel GV |
| P0363.100-GV | M10 | 10.5 | 16.0 | 1.60 | 1.00 | Steel GV |
| P0363.120-GV | M12 | 13.0 | 18.0 | 1.70 | 1.00 | Steel GV |
| P0363.140-GV | M14 | 15.0 | 21.0 | 2.00 | 1.20 | Steel GV |
| P0363.160-GV | M16 | 17.0 | 24.0 | 2.10 | 1.20 | Steel GV |
| P0363.180-GV | M18 | 19.0 | 27.0 | 2.30 | 1.40 | Steel GV |
| P0363.200-GV | M20 | 21.0 | 30.0 | 2.50 | 1.40 | Steel GV |
| P0363.220-GV | M22 | 23.0 | 33.0 | 2.70 | 1.40 | Steel GV |
| P0363.240-GV | M24 | 25.6 | 36.0 | 2.90 | 1.60 | Steel GV |
| P0363.270-GV | M27 | 28.6 | 39.0 | 3.10 | 2.00 | Steel GV |
| P0363.300-GV | M30 | 31.6 | 45.0 | 3.60 | 2.00 | Steel GV |



Curved Spring Washers

A2 stainless



P0360.A2

FLAT WASHERS

Material

Stainless steel (A2, AISI 303).

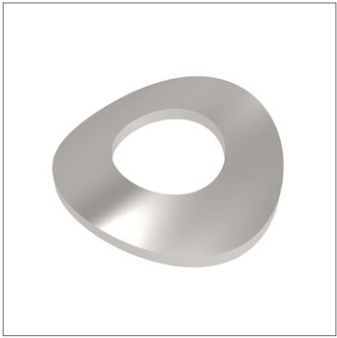
loads.

Use with fasteners >5.8 class.

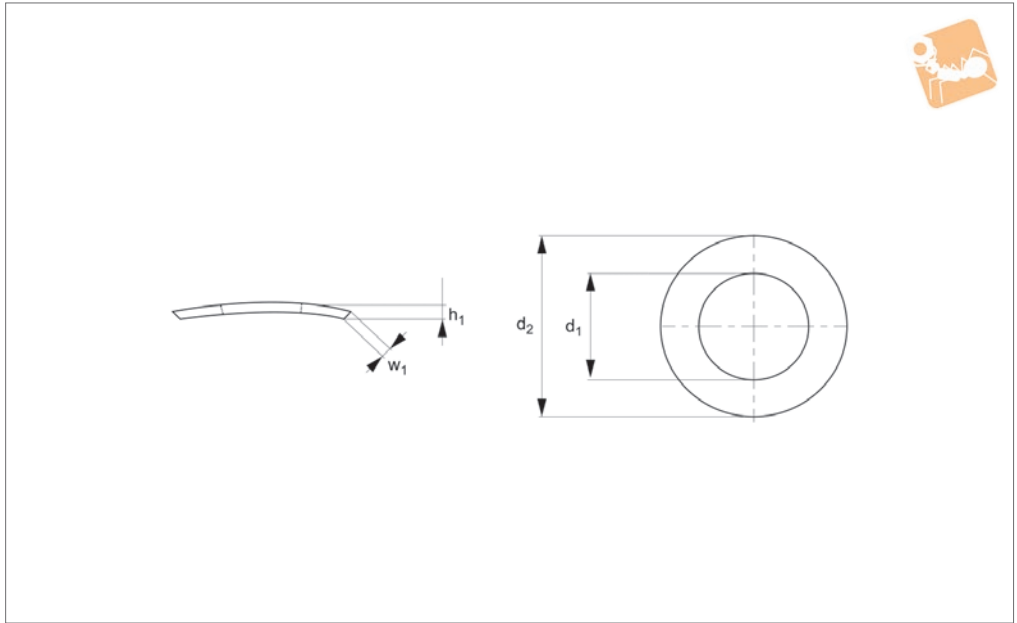
Technical Notes

To DIN 137 A. Not for use under dynamic

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ min. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0360.012-A2 | M1,2 | 1.3 | 3.0 | 0.2 | 0.7 | A2 s/s |
| P0360.014-A2 | M1,4 | 1.5 | 3.0 | 0.25 | 0.7 | A2 s/s |
| P0360.017-A2 | M1,7 | 1.8 | 4.0 | 0.25 | 0.9 | A2 s/s |
| P0360.020-A2 | M 2 | 2.2 | 4.5 | 0.3 | 1.0 | A2 s/s |
| P0360.025-A2 | M2,5 | 2.8 | 5.5 | 0.3 | 1.1 | A2 s/s |
| P0360.026-A2 | M2,6 | 2.8 | 5.5 | 0.3 | 1.1 | A2 s/s |
| P0360.030-A2 | M 3 | 3.2 | 6 | 0.4 | 1.3 | A2 s/s |
| P0360.035-A2 | M3,5 | 3.7 | 7 | 0.4 | 1.3 | A2 s/s |
| P0360.040-A2 | M 4 | 4.3 | 8 | 0.5 | 1.6 | A2 s/s |
| P0360.050-A2 | M 5 | 5.3 | 10 | 0.5 | 1.8 | A2 s/s |
| P0360.060-A2 | M 6 | 6.4 | 11 | 0.5 | 2.2 | A2 s/s |
| P0360.070-A2 | M 7 | 7.4 | 12 | 0.5 | 2.4 | A2 s/s |
| P0360.080-A2 | M 8 | 8.4 | 15 | 0.5 | 3.4 | A2 s/s |
| P0360.100-A2 | M10 | 10.5 | 18 | 0.8 | 4.0 | A2 s/s |



P0360.ZP



Material

Spring steel, zinc-plated.

loads.

Use with fasteners >5.8 class.

Technical Notes

To DIN 137 A. Not for use under dynamic

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ min. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0360.020-ZP | M 2 | 2.2 | 4.5 | 0.3 | 1.0 | Steel ZP |
| P0360.025-ZP | M2,5 | 2.8 | 5.5 | 0.3 | 1.1 | Steel ZP |
| P0360.030-ZP | M 3 | 3.2 | 6 | 0.4 | 1.3 | Steel ZP |
| P0360.035-ZP | M3,5 | 3.7 | 7 | 0.4 | 1.3 | Steel ZP |
| P0360.040-ZP | M 4 | 4.3 | 8 | 0.5 | 1.6 | Steel ZP |
| P0360.050-ZP | M 5 | 5.3 | 10 | 0.5 | 1.8 | Steel ZP |
| P0360.060-ZP | M 6 | 6.4 | 11 | 0.5 | 2.2 | Steel ZP |
| P0360.070-ZP | M 7 | 7.4 | 12 | 0.5 | 2.4 | Steel ZP |
| P0360.080-ZP | M 8 | 8.4 | 15 | 0.5 | 3.4 | Steel ZP |
| P0360.100-ZP | M10 | 10.5 | 18 | 0.8 | 4.0 | Steel ZP |

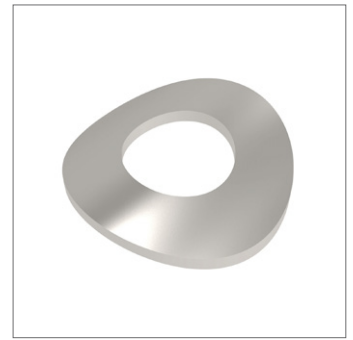
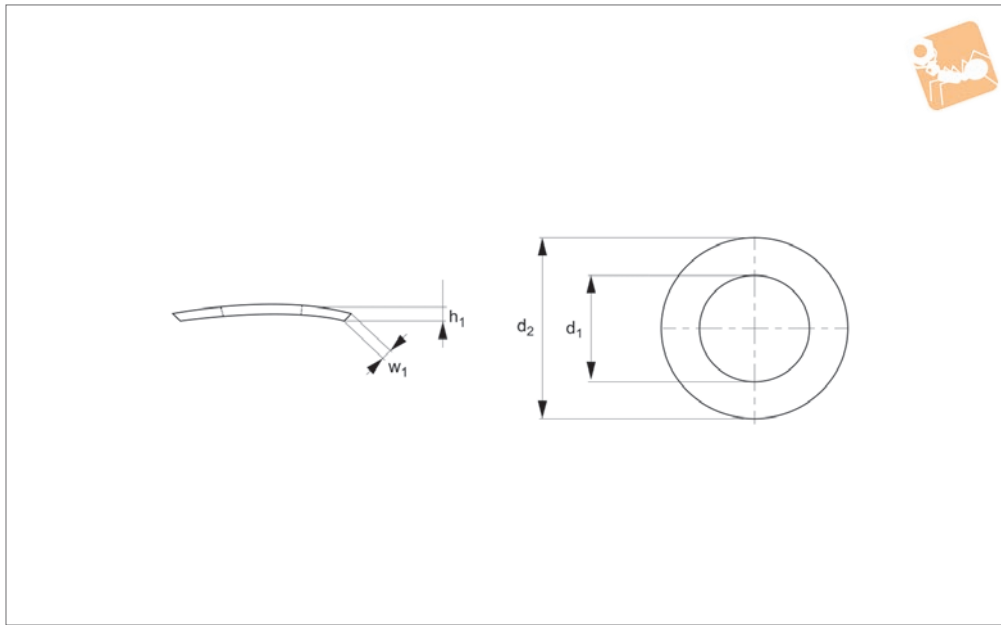


Curved Spring Washers

Steel, self-coloured



Flat Washers



P0360.SC

FLAT WASHERS

Material

Spring steel, self-colour.

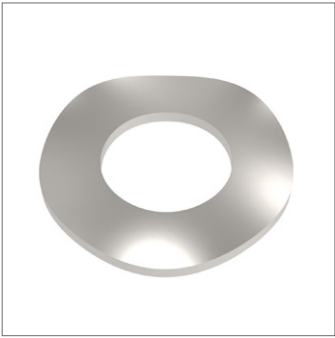
loads.

Use with fasteners >5.8 class.

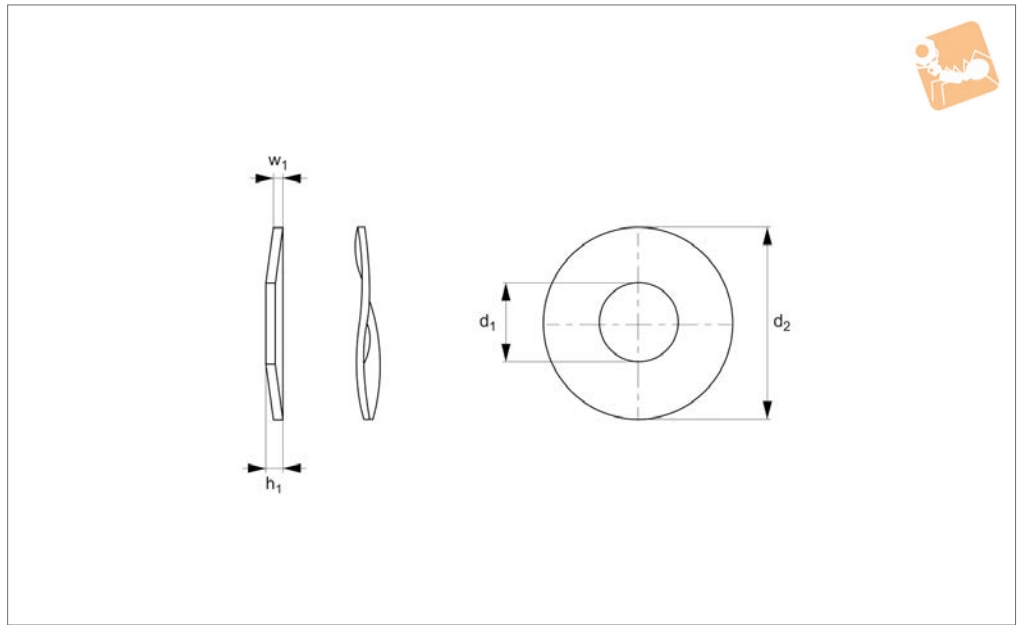
Technical Notes

To DIN 137 A. Not for use under dynamic

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ min. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0360.020-SC | M 2 | 2.2 | 4.5 | 0.3 | 1.0 | Steel SC |
| P0360.025-SC | M2,5 | 2.8 | 5.5 | 0.3 | 1.1 | Steel SC |
| P0360.030-SC | M 3 | 3.2 | 6 | 0.4 | 1.3 | Steel SC |
| P0360.035-SC | M3,5 | 3.7 | 7 | 0.4 | 1.3 | Steel SC |
| P0360.040-SC | M 4 | 4.3 | 8 | 0.5 | 1.6 | Steel SC |
| P0360.050-SC | M 5 | 5.3 | 10 | 0.5 | 1.8 | Steel SC |
| P0360.060-SC | M 6 | 6.4 | 11 | 0.5 | 2.2 | Steel SC |
| P0360.070-SC | M 7 | 7.4 | 12 | 0.5 | 2.4 | Steel SC |
| P0360.080-SC | M 8 | 8.4 | 15 | 0.5 | 3.4 | Steel SC |
| P0360.100-SC | M10 | 10.5 | 18 | 0.8 | 4.0 | Steel SC |



P0361.A2



Material

Stainless steel (A2, AISI 303).

Technical Notes

To DIN 137 B.

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ max. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0361.030-A2 | M 3 | 3.2 | 8 | 0.5 | 1.6 | A2 s/s |
| P0361.035-A2 | M3,5 | 3.7 | 8 | 0.5 | 1.8 | A2 s/s |
| P0361.040-A2 | M 4 | 4.3 | 9 | 0.5 | 2.0 | A2 s/s |
| P0361.050-A2 | M 5 | 5.3 | 11 | 0.5 | 2.2 | A2 s/s |
| P0361.060-A2 | M 6 | 6.4 | 12 | 0.5 | 2.6 | A2 s/s |
| P0361.070-A2 | M 7 | 7.4 | 14 | 0.8 | 3.0 | A2 s/s |
| P0361.080-A2 | M 8 | 8.4 | 15 | 0.8 | 3.0 | A2 s/s |
| P0361.100-A2 | M10 | 10.5 | 21 | 1.0 | 4.2 | A2 s/s |
| P0361.120-A2 | M12 | 13 | 24 | 1.2 | 5.0 | A2 s/s |
| P0361.140-A2 | M14 | 15 | 28 | 1.6 | 6.0 | A2 s/s |
| P0361.160-A2 | M16 | 17 | 30 | 1.6 | 6.4 | A2 s/s |
| P0361.180-A2 | M18 | 19 | 34 | 1.6 | 6.6 | A2 s/s |
| P0361.200-A2 | M20 | 21 | 36 | 1.6 | 7.4 | A2 s/s |
| P0361.220-A2 | M22 | 23 | 40 | 1.8 | 7.8 | A2 s/s |
| P0361.240-A2 | M24 | 25 | 44 | 1.8 | 8.2 | A2 s/s |

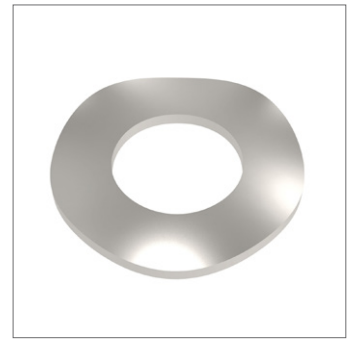
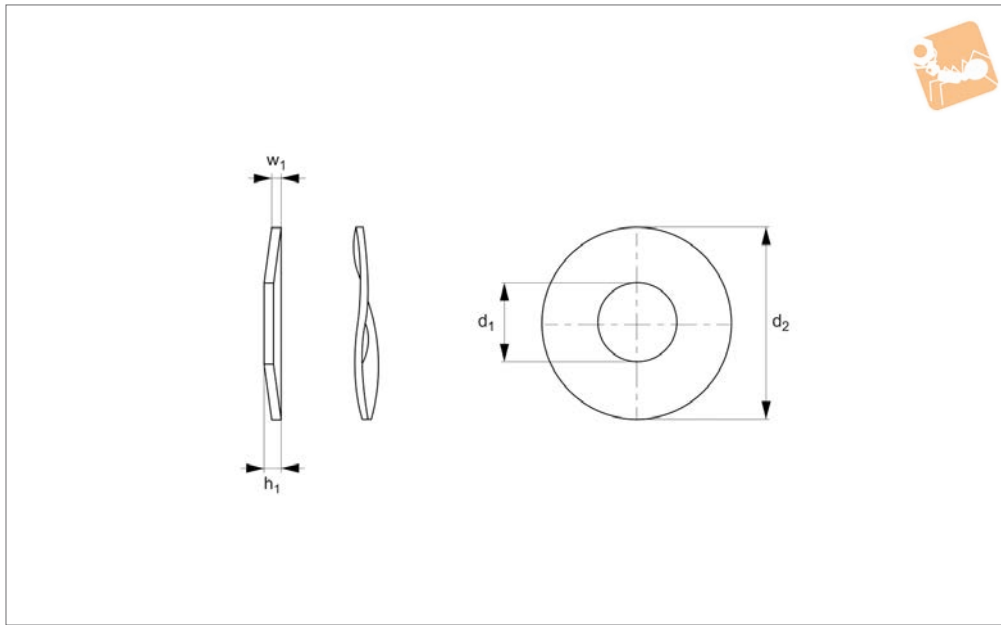


Wave Spring Washers

A4 stainless



Flat Washers



P0361.A4

FLAT WASHERS

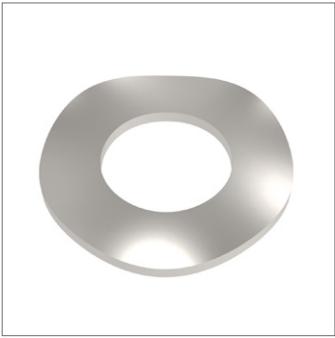
Material

Stainless steel (A4, AISI 316).

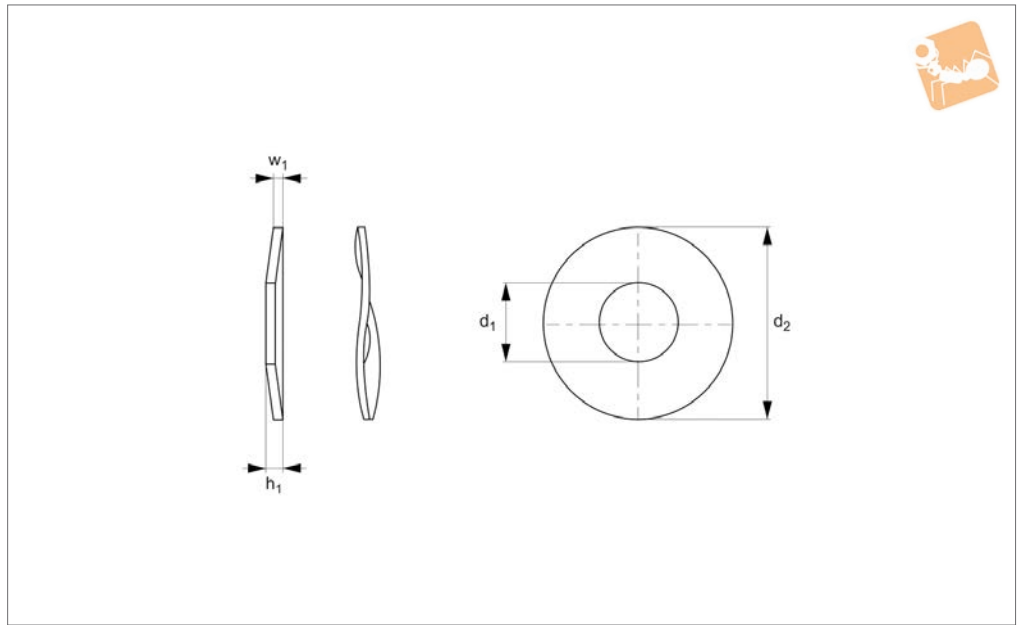
Technical Notes

To DIN 137 B.

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ max. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0361.030-A4 | M 3 | 3.2 | 8 | 0.5 | 1.6 | A4 s/s |
| P0361.035-A4 | M3,5 | 3.7 | 8 | 0.5 | 1.8 | A4 s/s |
| P0361.040-A4 | M 4 | 4.3 | 9 | 0.5 | 2.0 | A4 s/s |
| P0361.050-A4 | M 5 | 5.3 | 11 | 0.5 | 2.2 | A4 s/s |
| P0361.060-A4 | M 6 | 6.4 | 12 | 0.5 | 2.6 | A4 s/s |
| P0361.070-A4 | M 7 | 7.4 | 14 | 0.8 | 3.0 | A4 s/s |
| P0361.080-A4 | M 8 | 8.4 | 15 | 0.8 | 3.0 | A4 s/s |
| P0361.100-A4 | M10 | 10.5 | 21 | 1.0 | 4.2 | A4 s/s |
| P0361.120-A4 | M12 | 13 | 24 | 1.2 | 5.0 | A4 s/s |
| P0361.140-A4 | M14 | 15 | 28 | 1.6 | 6.0 | A4 s/s |
| P0361.160-A4 | M16 | 17 | 30 | 1.6 | 6.4 | A4 s/s |
| P0361.180-A4 | M18 | 19 | 34 | 1.6 | 6.6 | A4 s/s |
| P0361.200-A4 | M20 | 21 | 36 | 1.6 | 7.4 | A4 s/s |
| P0361.220-A4 | M22 | 23 | 40 | 1.8 | 7.8 | A4 s/s |
| P0361.240-A4 | M24 | 25 | 44 | 1.8 | 8.2 | A4 s/s |



P0361.ZP



Material
Steel, zinc-plated.

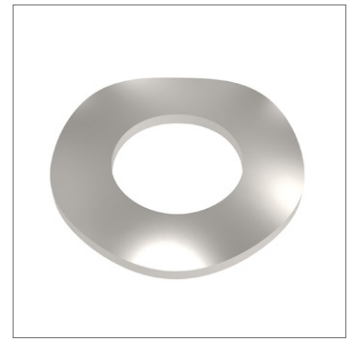
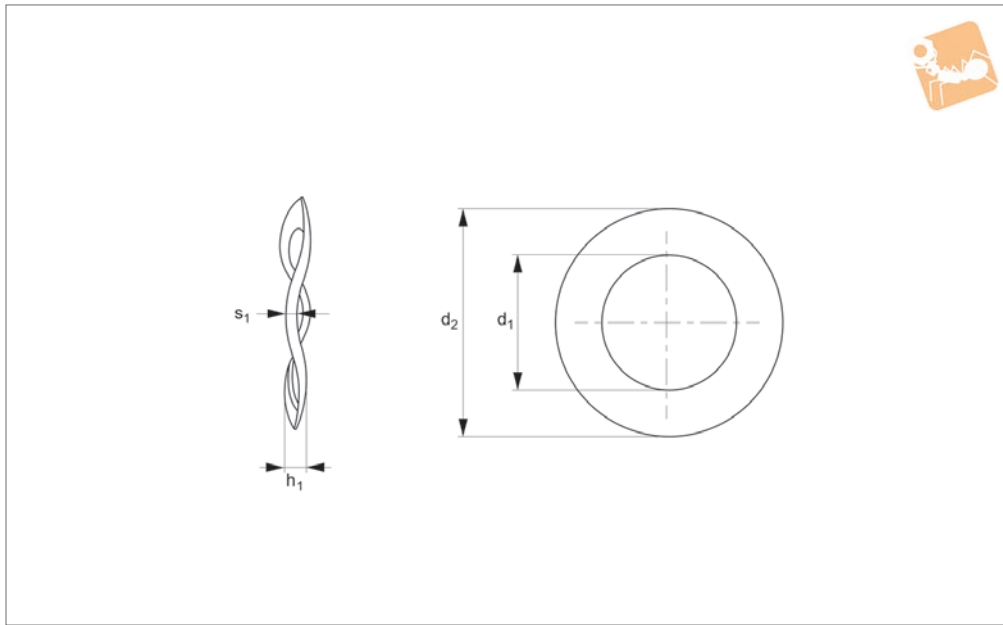
Technical Notes
To DIN 137 B.

| Order No. | For thread | d ₁ | d ₂ | w ₁ | h ₁ max. | Material |
|--------------|------------|----------------|----------------|----------------|------------------------|----------|
| P0361.030-ZP | M 3 | 3.2 | 8 | 0.5 | 1.6 | Steel SC |
| P0361.040-ZP | M 4 | 4.3 | 9 | 0.5 | 2.0 | Steel SC |
| P0361.050-ZP | M 5 | 5.3 | 11 | 0.5 | 2.2 | Steel SC |
| P0361.060-ZP | M 6 | 6.4 | 12 | 0.5 | 2.6 | Steel SC |
| P0361.070-ZP | M 7 | 7.4 | 14 | 0.8 | 3.0 | Steel SC |
| P0361.080-ZP | M 8 | 8.4 | 15 | 0.8 | 3.0 | Steel SC |
| P0361.100-ZP | M10 | 10.5 | 21 | 1.0 | 4.2 | Steel SC |
| P0361.120-ZP | M12 | 13 | 24 | 1.2 | 5.0 | Steel SC |
| P0361.140-ZP | M14 | 15 | 28 | 1.6 | 6.0 | Steel SC |
| P0361.160-ZP | M16 | 17 | 30 | 1.6 | 6.4 | Steel SC |



Crinkle Washers

A2 stainless



P0368.A2

FLAT WASHERS

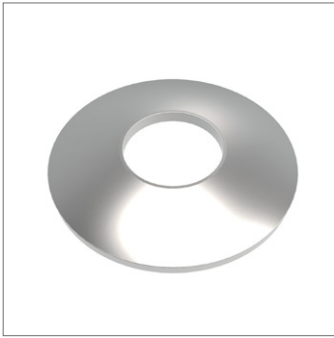
Material

Stainless steel (A2, AISI 303).

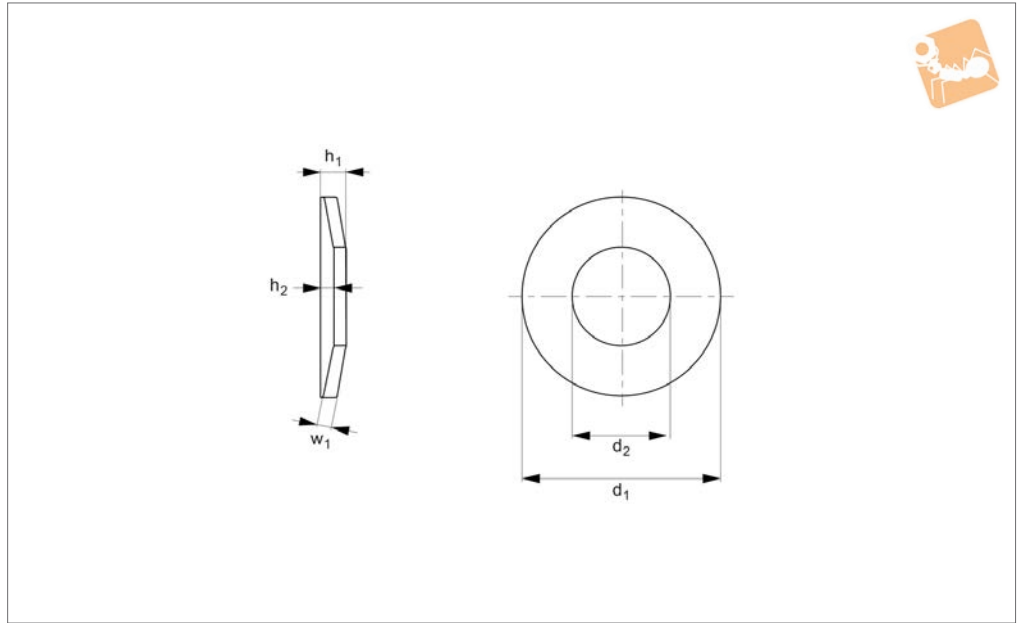
Technical Notes

To BS 4463.

| Order No. | For thread | d ₁ | d ₂ | h ₁ | s ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------------|----------|
| P0368.016-A2 | M1,6 | 1.7 | 3.7 | 0.51 | 0.16 | A2 s/s |
| P0368.020-A2 | M 2 | 2.2 | 4.6 | 0.53 | 0.16 | A2 s/s |
| P0368.025-A2 | M2,5 | 2.7 | 5.8 | 0.53 | 0.16 | A2 s/s |
| P0368.030-A2 | M 3 | 3.2 | 6.4 | 0.61 | 0.16 | A2 s/s |
| P0368.035-A2 | M3,5 | 3.7 | 6.9 | 0.79 | 0.20 | A2 s/s |
| P0368.040-A2 | M 4 | 4.3 | 8.1 | 0.84 | 0.28 | A2 s/s |
| P0368.050-A2 | M 5 | 5.3 | 9.2 | 0.89 | 0.30 | A2 s/s |
| P0368.060-A2 | M 6 | 6.4 | 11.5 | 1.14 | 0.40 | A2 s/s |
| P0368.080-A2 | M 8 | 8.4 | 15 | 1.4 | 0.40 | A2 s/s |
| P0368.100-A2 | M 10 | 10.5 | 19.6 | 1.7 | 0.55 | A2 s/s |
| P0368.120-A2 | M 12 | 13 | 22 | 1.9 | 0.55 | A2 s/s |
| P0368.160-A2 | M 16 | 17 | 27.8 | 2.41 | 0.70 | A2 s/s |
| P0368.200-A2 | M 20 | 21 | 34.7 | 2.66 | 0.70 | A2 s/s |



P0369.A2



Material
Stainless steel (DIN 1.4310).

Force F = spring force (N) at deflection of $0.75 \times h_2$ (ie 75% of stroke).
 h_2 is total stroke available.

Technical Notes
To DIN 2093. For general applications.

| Order No. | d_1 | d_2 | w_1 | h_1 | h_2 | F N |
|-------------------|-------|-------|-------|-------|-------|--------|
| P0369.08-32-03-A2 | 8 | 3.2 | 0.3 | 0.55 | 0.25 | 96 |
| P0369.08-32-04-A2 | 8 | 3.2 | 0.4 | 0.60 | 0.20 | 171 |
| P0369.08-32-05-A2 | 8 | 3.2 | 0.5 | 0.70 | 0.20 | 329 |
| P0369.08-42-02-A2 | 8 | 4.2 | 0.2 | 0.45 | 0.25 | 36 |
| P0369.08-42-03-A2 | 8 | 4.2 | 0.3 | 0.55 | 0.25 | 109 |
| P0369.08-42-04-A2 | 8 | 4.2 | 0.4 | 0.60 | 0.20 | 192 |
| P0369.10-42-04-A2 | 10 | 4.2 | 0.4 | 0.70 | 0.30 | 174 |
| P0369.10-42-05-A2 | 10 | 4.2 | 0.5 | 0.75 | 0.25 | 270 |
| P0369.10-42-06-A2 | 10 | 4.2 | 0.6 | 0.85 | 0.25 | 462 |
| P0369.10-52-04-A2 | 10 | 5.2 | 0.4 | 0.70 | 0.30 | 192 |
| P0369.10-52-05-A2 | 10 | 5.2 | 0.5 | 0.75 | 0.25 | 299 |
| P0369.12-42-04-A2 | 12 | 4.2 | 0.4 | 0.80 | 0.40 | 164 |
| P0369.12-42-05-A2 | 12 | 4.2 | 0.5 | 0.90 | 0.40 | 305 |
| P0369.12-42-06-A2 | 12 | 4.2 | 0.6 | 1.00 | 0.40 | 512 |
| P0369.12-52-05-A2 | 12 | 5.2 | 0.5 | 0.90 | 0.40 | 321 |
| P0369.12-52-06-A2 | 12 | 5.2 | 0.6 | 0.95 | 0.35 | 465 |
| P0369.12-62-05-A2 | 12 | 6.2 | 0.5 | 0.85 | 0.35 | 300 |
| P0369.12-62-06-A2 | 12 | 6.2 | 0.6 | 0.95 | 0.35 | 508 |
| P0369.15-52-04-A2 | 15 | 5.2 | 0.4 | 0.95 | 0.55 | 162 |
| P0369.15-52-05-A2 | 15 | 5.2 | 0.5 | 1.00 | 0.50 | 265 |
| P0369.15-52-06-A2 | 15 | 5.2 | 0.6 | 1.05 | 0.45 | 374 |
| P0369.15-52-07-A2 | 15 | 5.2 | 0.7 | 1.25 | 0.55 | 733 |
| P0369.15-62-05-A2 | 15 | 6.2 | 0.5 | 1.00 | 0.50 | 266 |
| P0369.15-62-06-A2 | 15 | 6.2 | 0.6 | 1.05 | 0.45 | 389 |
| P0369.15-62-07-A2 | 15 | 6.2 | 0.7 | 1.10 | 0.40 | 532 |
| P0369.15-82-07-A2 | 15 | 8.2 | 0.7 | 1.10 | 0.40 | 613 |
| P0369.15-82-08-A2 | 15 | 8.2 | 0.8 | 1.20 | 0.40 | 903 |
| P0369.16-82-04-A2 | 16 | 8.2 | 0.4 | 0.90 | 0.50 | 142 |
| P0369.16-82-06-A2 | 16 | 8.2 | 0.6 | 1.05 | 0.45 | 377 |
| P0369.18-62-04-A2 | 18 | 6.2 | 0.4 | 1.00 | 0.60 | 128 |
| P0369.18-62-05-A2 | 18 | 6.2 | 0.5 | 1.10 | 0.60 | 225 |
| P0369.18-62-06-A2 | 18 | 6.2 | 0.6 | 1.20 | 0.60 | 368 |
| P0369.18-62-07-A2 | 18 | 6.2 | 0.7 | 1.40 | 0.70 | 683 |
| P0369.18-62-08-A2 | 18 | 6.2 | 0.8 | 1.50 | 0.70 | 986 |



Disc Springs A2 stainless

Flat Washers

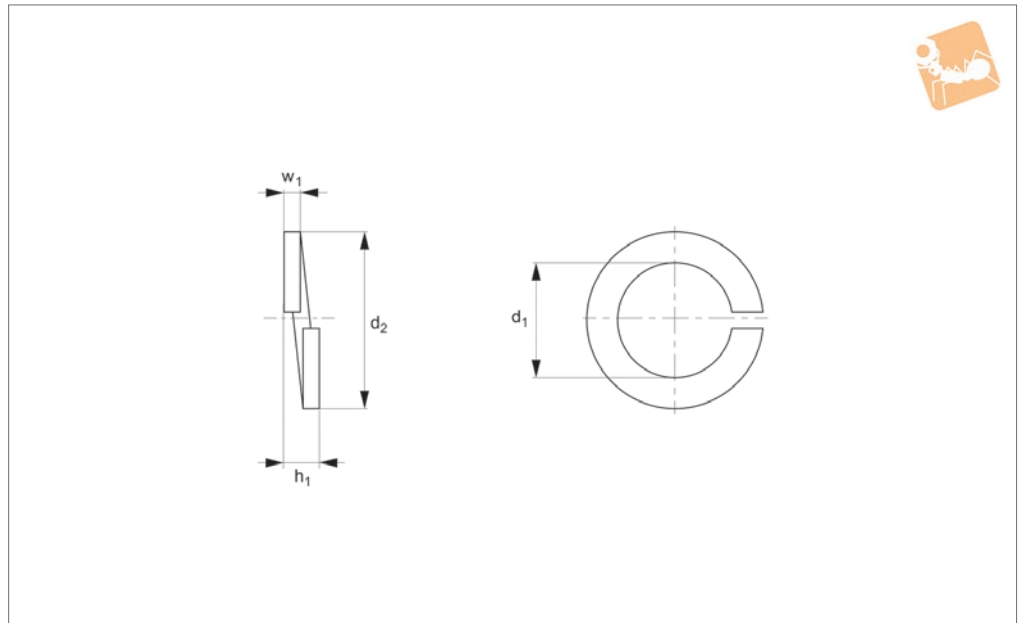


| Order No. | d ₁ | d ₂ | w ₁ | h ₁ | h ₂ | F N |
|-------------------|----------------|----------------|----------------|----------------|----------------|--------|
| P0369.18-82-07-A2 | 18 | 8.2 | 0.7 | 1.25 | 0.55 | 549 |
| P0369.18-82-08-A2 | 18 | 8.2 | 0.8 | 1.30 | 0.50 | 720 |
| P0369.18-82-10-A2 | 18 | 8.2 | 1.0 | 1.50 | 0.50 | 1377 |
| P0369.18-92-07-A2 | 18 | 9.2 | 0.7 | 1.20 | 0.50 | 521 |
| P0369.18-92-10-A2 | 18 | 9.2 | 1.0 | 1.40 | 0.40 | 1154 |
| P0369.20-82-05-A2 | 20 | 8.2 | 0.5 | 1.15 | 0.65 | 212 |
| P0369.20-82-06-A2 | 20 | 8.2 | 0.6 | 1.30 | 0.70 | 379 |
| P0369.20-82-07-A2 | 20 | 8.2 | 0.7 | 1.35 | 0.65 | 523 |
| P0369.20-82-08-A2 | 20 | 8.2 | 0.8 | 1.40 | 0.60 | 691 |
| P0369.20-82-10-A2 | 20 | 8.2 | 1.0 | 1.60 | 0.60 | 967 |

FLAT WASHERS



P0370.A2



Material

Stainless steel (A2, AISI 303).

Technical Notes

To DIN 127 B.

| Order No. | For thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|------------|----------------|----------------|------------------------|----------------|----------|
| P0370.020-A2 | M 2 | 2.1 | 4.4 | 1.0 | 0.5 | A2 s/s |
| P0370.025-A2 | M2,5 | 2.6 | 5.1 | 1.2 | 0.6 | A2 s/s |
| P0370.030-A2 | M 3 | 3.1 | 5.2 | 1.6 | 0.8 | A2 s/s |
| P0370.035-A2 | M3,5 | 3.6 | 6.7 | 1.6 | 0.8 | A2 s/s |
| P0370.040-A2 | M 4 | 4.1 | 7.6 | 1.8 | 0.9 | A2 s/s |
| P0370.050-A2 | M 5 | 5.1 | 9.2 | 2.4 | 1.2 | A2 s/s |
| P0370.060-A2 | M 6 | 6.1 | 11.8 | 3.2 | 1.6 | A2 s/s |
| P0370.080-A2 | M 8 | 8.1 | 14.8 | 4.0 | 2.0 | A2 s/s |
| P0370.100-A2 | M10 | 10.2 | 18.1 | 4.4 | 2.2 | A2 s/s |
| P0370.120-A2 | M12 | 12.2 | 21.1 | 5.0 | 2.5 | A2 s/s |
| P0370.140-A2 | M14 | 14.2 | 24.1 | 6.0 | 3.0 | A2 s/s |
| P0370.160-A2 | M16 | 16.2 | 27.4 | 7.0 | 3.5 | A2 s/s |
| P0370.180-A2 | M18 | 18.2 | 29.4 | 7.0 | 3.5 | A2 s/s |
| P0370.200-A2 | M20 | 20.2 | 33.6 | 8.0 | 4.0 | A2 s/s |
| P0370.220-A2 | M22 | 22.5 | 35.9 | 8.0 | 4.0 | A2 s/s |
| P0370.240-A2 | M24 | 24.5 | 40.0 | 10.0 | 5.0 | A2 s/s |
| P0370.270-A2 | M27 | 27.5 | 43.0 | 10.0 | 6.0 | A2 s/s |
| P0370.300-A2 | M30 | 30.5 | 48.2 | 12.0 | 6.0 | A2 s/s |
| P0370.360-A2 | M36 | 36.5 | 58.2 | 12.0 | 6.0 | A2 s/s |
| P0370.400-A2 | M40 | 40.5 | 63.5 | 14.0 | 7.0 | A2 s/s |
| P0370.420-A2 | M42 | 42.5 | 68.2 | 14.0 | 7.0 | A2 s/s |
| P0370.480-A2 | M48 | 49.0 | 75.0 | 14.0 | 7.0 | A2 s/s |

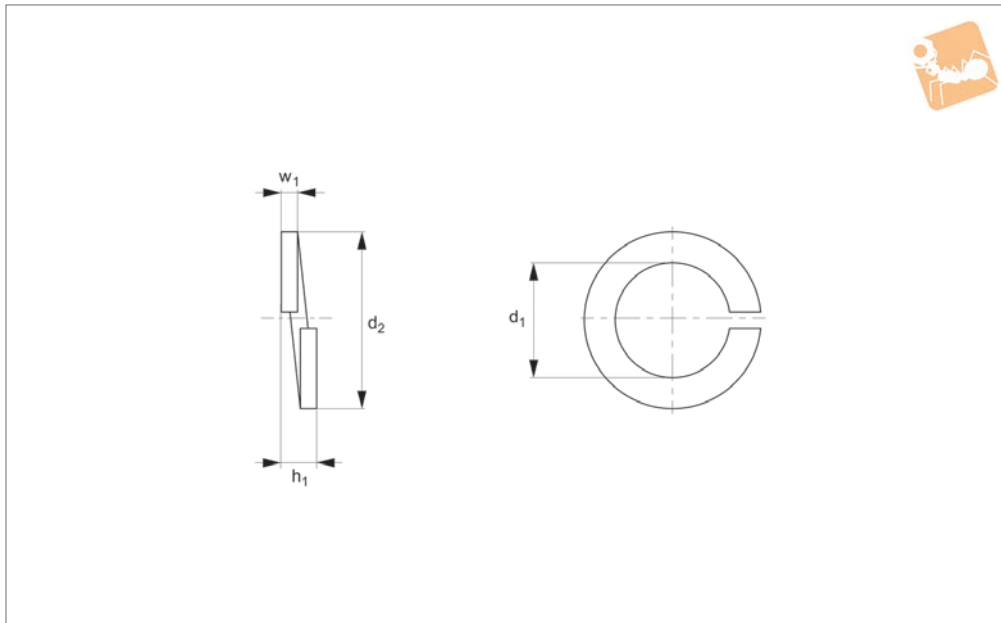


Spring Washers Rectangular Section

A4 stainless



Flat Washers



P0370.A4

FLAT WASHERS

Material

Stainless steel (A4, AISI 316).

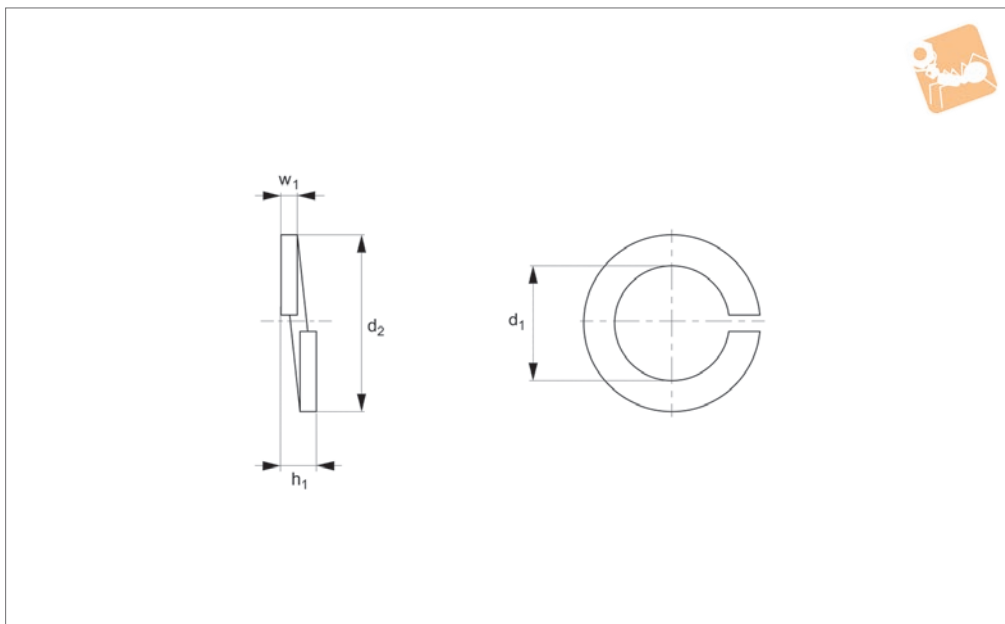
Technical Notes

To DIN 127 B.

| Order No. | For thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|------------|----------------|----------------|------------------------|----------------|----------|
| P0370.020-A4 | M 2 | 2.1 | 4.4 | 1.0 | 0.5 | A4 s/s |
| P0370.023-A4 | M2,3 | 2.4 | 4.9 | 1.2 | 0.6 | A4 s/s |
| P0370.025-A4 | M2,5 | 2.6 | 5.1 | 1.2 | 0.6 | A4 s/s |
| P0370.026-A4 | M2,6 | 2.7 | 5.2 | 1.2 | 0.6 | A4 s/s |
| P0370.030-A4 | M 3 | 3.1 | 5.2 | 1.6 | 0.8 | A4 s/s |
| P0370.035-A4 | M3,5 | 3.6 | 6.7 | 1.6 | 0.8 | A4 s/s |
| P0370.040-A4 | M 4 | 4.1 | 7.6 | 1.8 | 0.9 | A4 s/s |
| P0370.050-A4 | M 5 | 5.1 | 9.2 | 2.4 | 1.2 | A4 s/s |
| P0370.060-A4 | M 6 | 6.1 | 11.8 | 3.2 | 1.6 | A4 s/s |
| P0370.080-A4 | M 8 | 8.1 | 14.8 | 4.0 | 2.0 | A4 s/s |
| P0370.100-A4 | M10 | 10.2 | 18.1 | 4.4 | 2.2 | A4 s/s |
| P0370.120-A4 | M12 | 12.2 | 21.1 | 5.0 | 2.5 | A4 s/s |
| P0370.140-A4 | M14 | 14.2 | 24.1 | 6.0 | 3.0 | A4 s/s |
| P0370.160-A4 | M16 | 16.2 | 27.4 | 7.0 | 3.5 | A4 s/s |
| P0370.180-A4 | M18 | 18.2 | 29.4 | 7.0 | 3.5 | A4 s/s |
| P0370.200-A4 | M20 | 20.2 | 33.6 | 8.0 | 4.0 | A4 s/s |
| P0370.220-A4 | M22 | 22.5 | 35.9 | 8.0 | 4.0 | A4 s/s |
| P0370.240-A4 | M24 | 24.5 | 40.0 | 10.0 | 5.0 | A4 s/s |
| P0370.270-A4 | M27 | 27.5 | 43.0 | 10.0 | 6.0 | A4 s/s |
| P0370.300-A4 | M30 | 30.5 | 48.2 | 12.0 | 6.0 | A4 s/s |
| P0370.360-A4 | M36 | 36.5 | 58.2 | 12.0 | 6.0 | A4 s/s |
| P0370.400-A4 | M40 | 40.5 | 63.5 | 14.0 | 7.0 | A4 s/s |
| P0370.420-A4 | M42 | 42.5 | 68.2 | 14.0 | 7.0 | A4 s/s |
| P0370.480-A4 | M48 | 49.0 | 75.0 | 14.0 | 7.0 | A4 s/s |



P0370.ZP



Material

Spring steel, zinc-plated.

Technical Notes

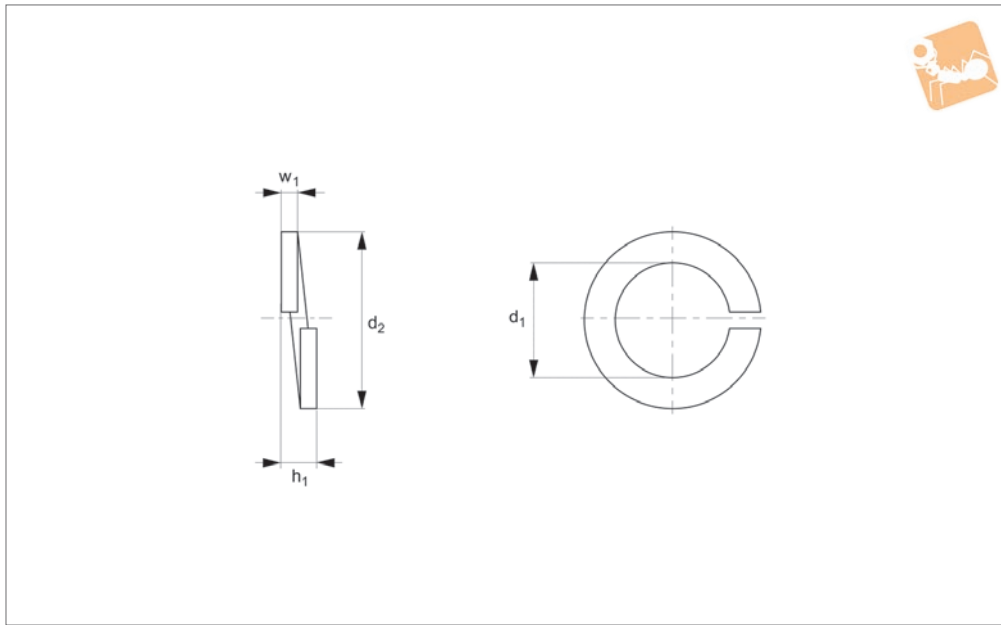
To DIN 127 B.

| Order No. | For thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|------------|----------------|----------------|------------------------|----------------|----------|
| P0370.020-ZP | M 2 | 2.1 | 4.4 | 1.0 | 0.5 | Steel ZP |
| P0370.025-ZP | M2,5 | 2.6 | 5.1 | 1.2 | 0.6 | Steel ZP |
| P0370.030-ZP | M 3 | 3.1 | 5.2 | 1.6 | 0.8 | Steel ZP |
| P0370.035-ZP | M3,5 | 3.6 | 6.7 | 1.6 | 0.8 | Steel ZP |
| P0370.040-ZP | M 4 | 4.1 | 7.6 | 1.8 | 0.9 | Steel ZP |
| P0370.050-ZP | M 5 | 5.1 | 9.2 | 2.4 | 1.2 | Steel ZP |
| P0370.060-ZP | M 6 | 6.1 | 11.8 | 3.2 | 1.6 | Steel ZP |
| P0370.080-ZP | M 8 | 8.1 | 14.8 | 4.0 | 2.0 | Steel ZP |
| P0370.100-ZP | M10 | 10.2 | 18.1 | 4.4 | 2.2 | Steel ZP |
| P0370.120-ZP | M12 | 12.2 | 21.1 | 5.0 | 2.5 | Steel ZP |
| P0370.140-ZP | M14 | 14.2 | 24.1 | 6.0 | 3.0 | Steel ZP |
| P0370.160-ZP | M16 | 16.2 | 27.4 | 7.0 | 3.5 | Steel ZP |
| P0370.180-ZP | M18 | 18.2 | 29.4 | 7.0 | 3.5 | Steel ZP |
| P0370.200-ZP | M20 | 20.2 | 33.6 | 8.0 | 4.0 | Steel ZP |
| P0370.220-ZP | M22 | 22.5 | 35.9 | 8.0 | 4.0 | Steel ZP |
| P0370.240-ZP | M24 | 24.5 | 40.0 | 10.0 | 5.0 | Steel ZP |
| P0370.270-ZP | M27 | 27.5 | 43.0 | 10.0 | 6.0 | Steel ZP |
| P0370.300-ZP | M30 | 30.5 | 48.2 | 12.0 | 6.0 | Steel ZP |
| P0370.360-ZP | M36 | 36.5 | 58.2 | 12.0 | 6.0 | Steel ZP |



Spring Washers Rectangular Section

Steel, self-coloured



P0370.SC

FLAT WASHERS

Material

Spring steel, self-colour.

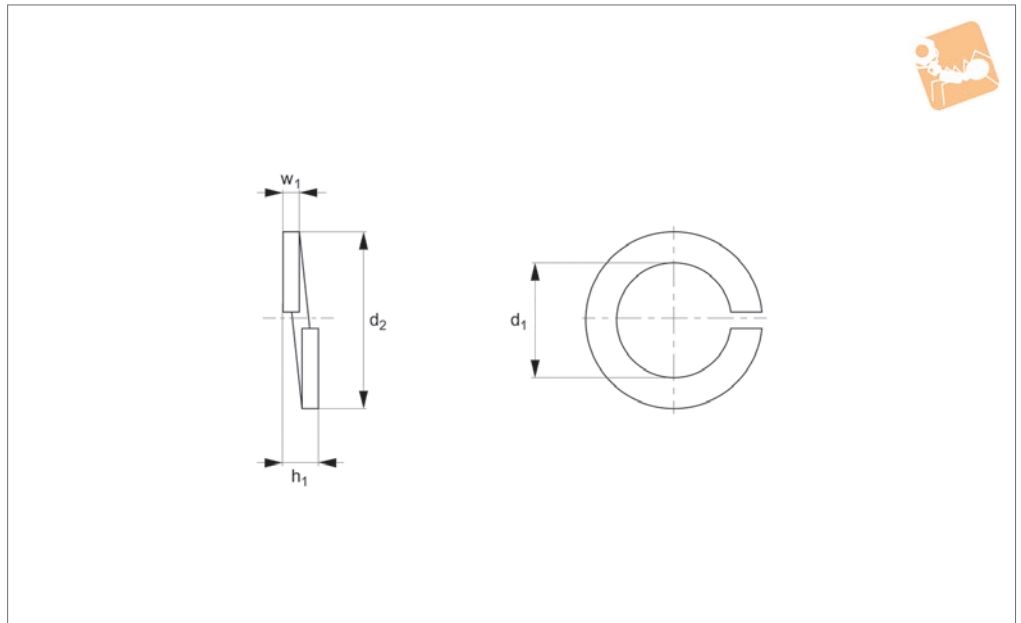
Technical Notes

To DIN 127 B.

| Order No. | For thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|------------|----------------|----------------|------------------------|----------------|----------|
| P0370.020-SC | M 2 | 2.1 | 4.4 | 1.0 | 0.5 | Steel SC |
| P0370.025-SC | M2,5 | 2.6 | 5.1 | 1.2 | 0.6 | Steel SC |
| P0370.030-SC | M 3 | 3.1 | 5.2 | 1.6 | 0.8 | Steel SC |
| P0370.035-SC | M3,5 | 3.6 | 6.7 | 1.6 | 0.8 | Steel SC |
| P0370.040-SC | M 4 | 4.1 | 7.6 | 1.8 | 0.9 | Steel SC |
| P0370.050-SC | M 5 | 5.1 | 9.2 | 2.4 | 1.2 | Steel SC |
| P0370.060-SC | M 6 | 6.1 | 11.8 | 3.2 | 1.6 | Steel SC |
| P0370.080-SC | M 8 | 8.1 | 14.8 | 4.0 | 2.0 | Steel SC |
| P0370.100-SC | M10 | 10.2 | 18.1 | 4.4 | 2.2 | Steel SC |
| P0370.120-SC | M12 | 12.2 | 21.1 | 5.0 | 2.5 | Steel SC |
| P0370.140-SC | M14 | 14.2 | 24.1 | 6.0 | 3.0 | Steel SC |
| P0370.160-SC | M16 | 16.2 | 27.4 | 7.0 | 3.5 | Steel SC |
| P0370.180-SC | M18 | 18.2 | 29.4 | 7.0 | 3.5 | Steel SC |
| P0370.200-SC | M20 | 20.2 | 33.6 | 8.0 | 4.0 | Steel SC |
| P0370.220-SC | M22 | 22.5 | 35.9 | 8.0 | 4.0 | Steel SC |
| P0370.240-SC | M24 | 24.5 | 40.0 | 10.0 | 5.0 | Steel SC |
| P0370.270-SC | M27 | 27.5 | 43.0 | 10.0 | 6.0 | Steel SC |
| P0370.300-SC | M30 | 30.5 | 48.2 | 12.0 | 6.0 | Steel SC |
| P0370.360-SC | M36 | 36.5 | 58.2 | 12.0 | 6.0 | Steel SC |
| P0370.400-SC | M40 | 40.5 | 63.5 | 14.0 | 7.0 | Steel SC |
| P0370.420-SC | M42 | 42.5 | 68.2 | 14.0 | 7.0 | Steel SC |
| P0370.480-SC | M48 | 49.0 | 75.0 | 14.0 | 7.0 | Steel SC |



P0371.A2



Material

Stainless steel (A2, AISI 303).

Technical Notes

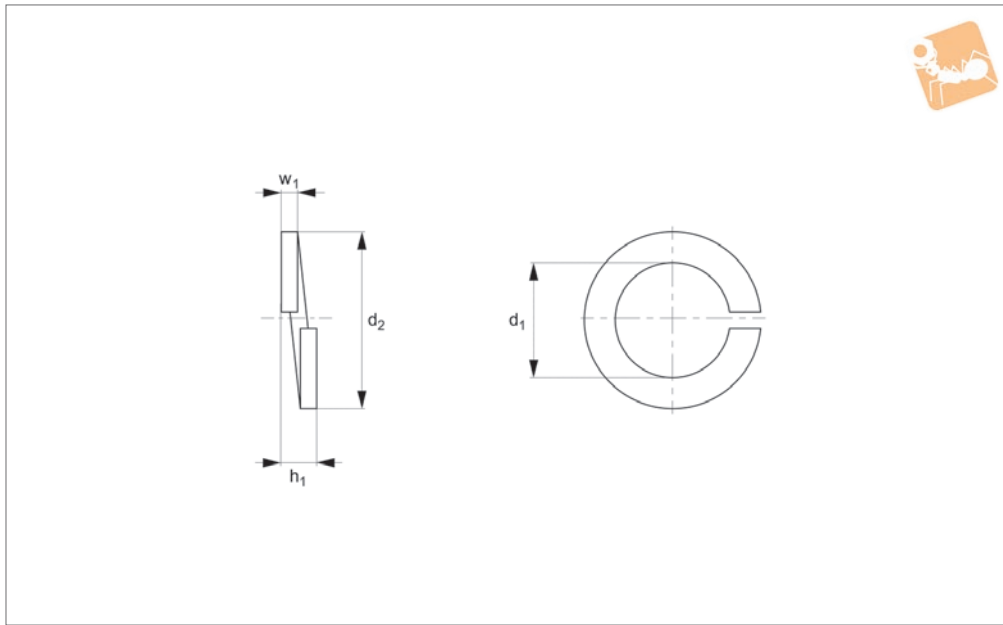
To DIN 7980. For screws with cylindrical heads.

| Order No. | Thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|--------|----------------|----------------|------------------------|----------------|----------|
| P0371.030-A2 | M 3 | 3.1 | 5.6 | 2.0 | 1.0 | A2 s/s |
| P0371.035-A2 | M3,5 | 3.6 | 6.1 | 2.0 | 1.0 | A2 s/s |
| P0371.040-A2 | M 4 | 4.1 | 7.0 | 2.4 | 1.2 | A2 s/s |
| P0371.050-A2 | M 5 | 5.1 | 8.8 | 3.2 | 1.6 | A2 s/s |
| P0371.060-A2 | M 6 | 6.1 | 9.9 | 3.2 | 1.6 | A2 s/s |
| P0371.080-A2 | M 8 | 8.1 | 12.7 | 4.0 | 2.0 | A2 s/s |
| P0371.100-A2 | M10 | 10.2 | 16.0 | 5.0 | 2.5 | A2 s/s |
| P0371.120-A2 | M12 | 12.2 | 18.0 | 5.0 | 2.5 | A2 s/s |
| P0371.140-A2 | M14 | 14.2 | 21.1 | 6.0 | 3.0 | A2 s/s |
| P0371.160-A2 | M16 | 24.4 | 24.4 | 7.0 | 3.5 | A2 s/s |
| P0371.180-A2 | M18 | 18.2 | 26.4 | 7.0 | 3.5 | A2 s/s |
| P0371.200-A2 | M20 | 20.2 | 30.6 | 9.0 | 4.5 | A2 s/s |
| P0371.220-A2 | M22 | 22.5 | 32.9 | 9.0 | 4.5 | A2 s/s |
| P0371.240-A2 | M24 | 24.4 | 35.9 | 10.0 | 5.0 | A2 s/s |
| P0371.270-A2 | M27 | 27.5 | 38.9 | 10.0 | 5.0 | A2 s/s |
| P0371.300-A2 | M30 | 30.5 | 44.1 | 12.0 | 6.0 | A2 s/s |



Spring Washers Square Section

A4 stainless



P0371.A4

FLAT WASHERS

Material

Stainless steel (A4, AISI 316)

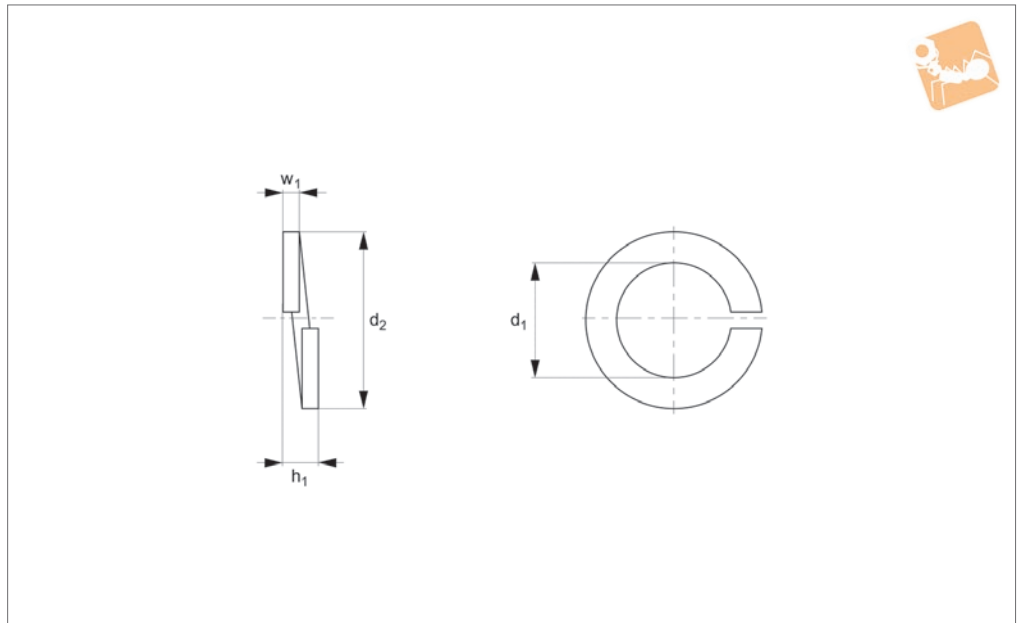
Technical Notes

To DIN 7980. For screws with cylindrical heads.

| Order No. | Thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|--------|----------------|----------------|------------------------|----------------|----------|
| P0371.030-A4 | M 3 | 3.1 | 5.6 | 2.0 | 1.0 | A4 s/s |
| P0371.040-A4 | M 4 | 4.1 | 7.0 | 2.4 | 1.2 | A4 s/s |
| P0371.050-A4 | M 5 | 5.1 | 8.8 | 3.2 | 1.6 | A4 s/s |
| P0371.060-A4 | M 6 | 6.1 | 9.9 | 3.2 | 1.6 | A4 s/s |
| P0371.080-A4 | M 8 | 8.1 | 12.7 | 4.0 | 2.0 | A4 s/s |
| P0371.100-A4 | M10 | 10.2 | 16.0 | 5.0 | 2.5 | A4 s/s |
| P0371.120-A4 | M12 | 12.2 | 18.0 | 5.0 | 2.5 | A4 s/s |
| P0371.140-A4 | M14 | 14.2 | 21.1 | 6.0 | 3.0 | A4 s/s |
| P0371.160-A4 | M16 | 16.2 | 24.4 | 7.0 | 3.5 | A4 s/s |
| P0371.180-A4 | M18 | 18.2 | 26.4 | 7.0 | 3.5 | A4 s/s |
| P0371.200-A4 | M20 | 20.2 | 30.6 | 9.0 | 4.5 | A4 s/s |
| P0371.220-A4 | M22 | 22.5 | 32.9 | 9.0 | 4.5 | A4 s/s |
| P0371.240-A4 | M24 | 24.4 | 35.9 | 10.0 | 5.0 | A4 s/s |
| P0371.270-A4 | M27 | 27.5 | 38.9 | 10.0 | 5.0 | A4 s/s |
| P0371.300-A4 | M30 | 30.5 | 44.1 | 12.0 | 6.0 | A4 s/s |



P0371.ZP



Material

Spring steel, zinc-plated.

Technical Notes

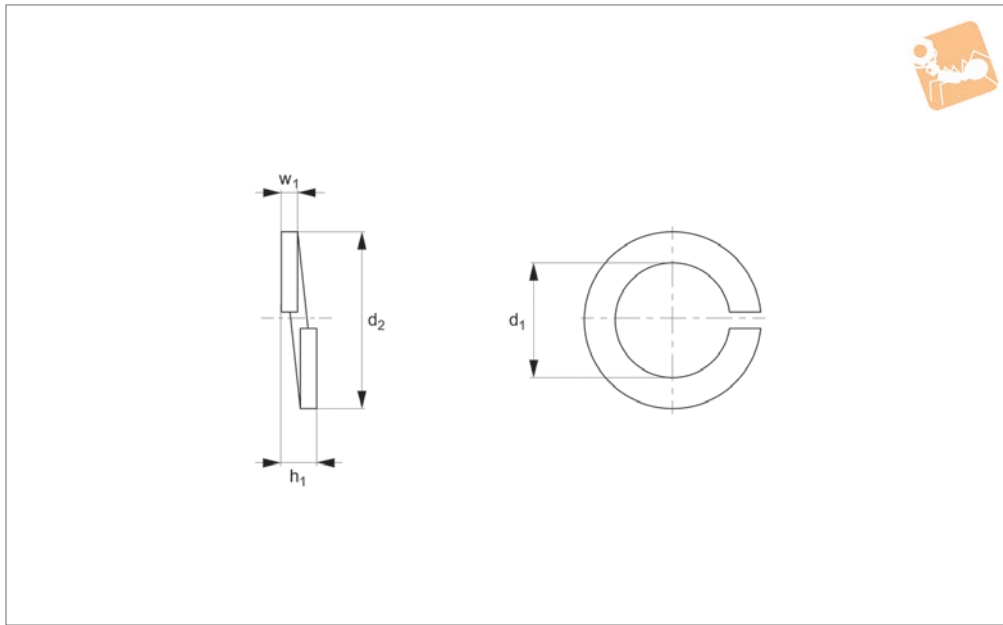
To DIN 7980. For screws with cylindrical heads.

| Order No. | Thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|--------|----------------|----------------|------------------------|----------------|----------|
| P0371.030-ZP | M 3 | 3.1 | 5.6 | 2.0 | 1.0 | Steel ZP |
| P0371.035-ZP | M3,5 | 3.6 | 6.1 | 2.0 | 1.0 | Steel ZP |
| P0371.040-ZP | M 4 | 4.1 | 7.0 | 2.4 | 1.2 | Steel ZP |
| P0371.050-ZP | M 5 | 5.1 | 8.8 | 3.2 | 1.6 | Steel ZP |
| P0371.060-ZP | M 6 | 6.1 | 9.9 | 3.2 | 1.6 | Steel ZP |
| P0371.080-ZP | M 8 | 8.1 | 12.7 | 4.0 | 2.0 | Steel ZP |
| P0371.100-ZP | M10 | 10.2 | 16.0 | 5.0 | 2.5 | Steel ZP |
| P0371.120-ZP | M12 | 12.2 | 18.0 | 5.0 | 2.5 | Steel ZP |
| P0371.140-ZP | M14 | 14.2 | 21.1 | 6.0 | 3.0 | Steel ZP |
| P0371.160-ZP | M16 | 24.4 | 24.4 | 7.0 | 3.5 | Steel ZP |
| P0371.180-ZP | M18 | 18.2 | 26.4 | 7.0 | 3.5 | Steel ZP |
| P0371.200-ZP | M20 | 20.2 | 30.6 | 9.0 | 4.5 | Steel ZP |
| P0371.220-ZP | M22 | 22.5 | 32.9 | 9.0 | 4.5 | Steel ZP |
| P0371.240-ZP | M24 | 24.4 | 35.9 | 10.0 | 5.0 | Steel ZP |



Spring Washers Square Section

Steel, self-coloured



P0371.SC

FLAT WASHERS

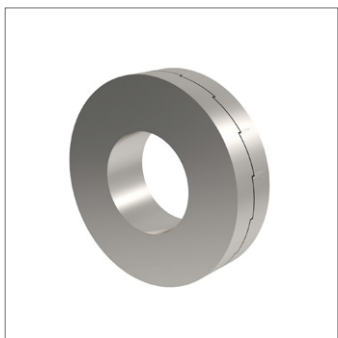
Material

Spring steel, self-colour.

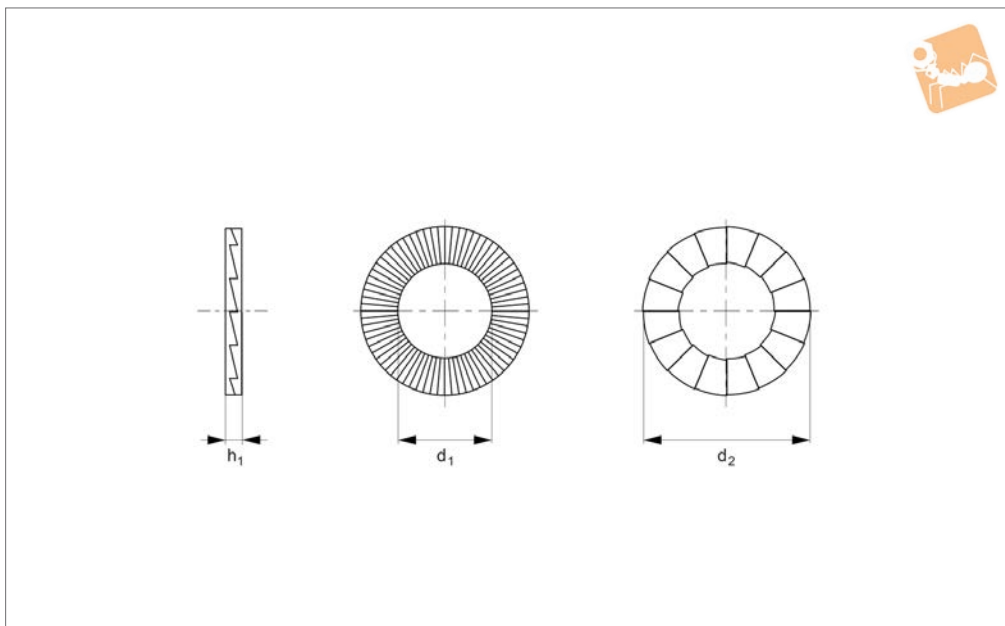
Technical Notes

To DIN 7980. For screws with cylindrical heads.

| Order No. | Thread | d ₁ | d ₂ | h ₁ min. | w ₁ | Material |
|--------------|--------|----------------|----------------|------------------------|----------------|----------|
| P0371.030-SC | M 3 | 3.1 | 5.6 | 2.0 | 1.0 | Steel SC |
| P0371.035-SC | M3,5 | 3.6 | 6.1 | 2.0 | 1.0 | Steel SC |
| P0371.040-SC | M 4 | 4.1 | 7.0 | 2.4 | 1.2 | Steel SC |
| P0371.050-SC | M 5 | 5.1 | 8.8 | 3.2 | 1.6 | Steel SC |
| P0371.060-SC | M 6 | 6.1 | 9.9 | 3.2 | 1.6 | Steel SC |
| P0371.080-SC | M 8 | 8.1 | 12.7 | 4.0 | 2.0 | Steel SC |
| P0371.100-SC | M10 | 10.2 | 16.0 | 5.0 | 2.5 | Steel SC |
| P0371.120-SC | M12 | 12.2 | 18.0 | 5.0 | 2.5 | Steel SC |
| P0371.140-SC | M14 | 14.2 | 21.1 | 6.0 | 3.0 | Steel SC |
| P0361.160-SC | M16 | 24.4 | 24.4 | 7.0 | 3.5 | Steel SC |
| P0371.180-SC | M18 | 18.2 | 26.4 | 7.0 | 3.5 | Steel SC |
| P0371.200-SC | M20 | 20.2 | 30.6 | 9.0 | 4.5 | Steel SC |
| P0371.220-SC | M22 | 22.5 | 32.9 | 9.0 | 4.5 | Steel SC |
| P0371.240-SC | M24 | 24.4 | 35.9 | 10.0 | 5.0 | Steel SC |
| P0371.270-SC | M27 | 27.5 | 38.9 | 10.0 | 5.0 | Steel SC |
| P0371.300-SC | M30 | 30.5 | 44.1 | 12.0 | 6.0 | Steel SC |



P0367.A4



Material

Stainless steel (A4, AISI 316).

dynamic loads. Washers are installed in pairs, wedge face to wedge face.

Technical Notes

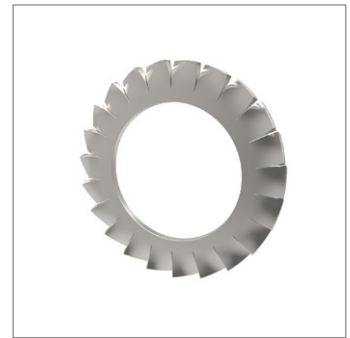
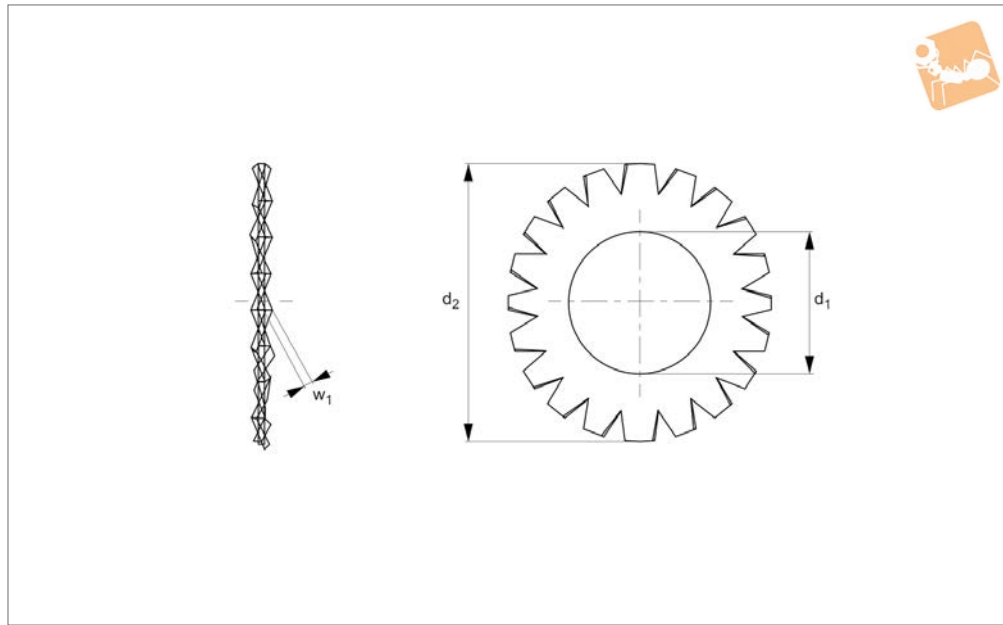
Locking washer for vibration proofing and

| Order No. | For thread | d ₁ | d ₂ | h ₁ | Material |
|--------------|------------|----------------|----------------|----------------|----------|
| P0367.030-A4 | M 3 | 3.4 | 7.0 | 1.8 | A4 s/s |
| P0367.040-A4 | M 4 | 4.4 | 7.6 | 1.8 | A4 s/s |
| P0367.050-A4 | M 5 | 5.4 | 9.0 | 1.8 | A4 s/s |
| P0367.060-A4 | M 6 | 6.5 | 10.8 | 1.8 | A4 s/s |
| P0367.080-A4 | M 8 | 8.7 | 13.5 | 2.5 | A4 s/s |
| P0367.100-A4 | M10 | 10.7 | 16.6 | 2.5 | A4 s/s |
| P0367.120-A4 | M12 | 13 | 19.5 | 2.5 | A4 s/s |
| P0367.140-A4 | M14 | 15.2 | 23.0 | 3.4 | A4 s/s |
| P0367.160-A4 | M16 | 17 | 25.4 | 3.4 | A4 s/s |
| P0367.180-A4 | M18 | 19.5 | 29.0 | 3.4 | A4 s/s |
| P0367.200-A4 | M20 | 21.4 | 30.7 | 3.4 | A4 s/s |
| P0367.220-A4 | M22 | 23.4 | 34.5 | 3.4 | A4 s/s |
| P0367.240-A4 | M24 | 25.3 | 39.0 | 3.4 | A4 s/s |
| P0367.270-A4 | M27 | 28.4 | 42.0 | 6.6 | A4 s/s |
| P0367.300-A4 | M30 | 31.4 | 47.0 | 6.6 | A4 s/s |
| P0367.330-A4 | M33 | 34.4 | 48.5 | 6.3 | A4 s/s |
| P0367.360-A4 | M36 | 37.4 | 55.0 | 6.6 | A4 s/s |
| P0367.420-A4 | M42 | 43.2 | 63.0 | 6.6 | A4 s/s |



External Serrated Lock Washers

A2 stainless



P0372.A2

FLAT WASHERS

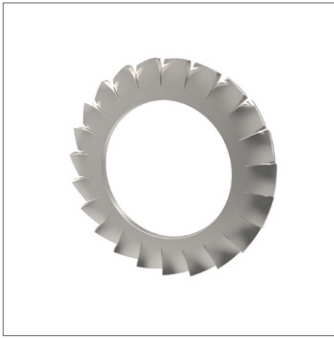
Material

Stainless steel (A2, AISI 303).

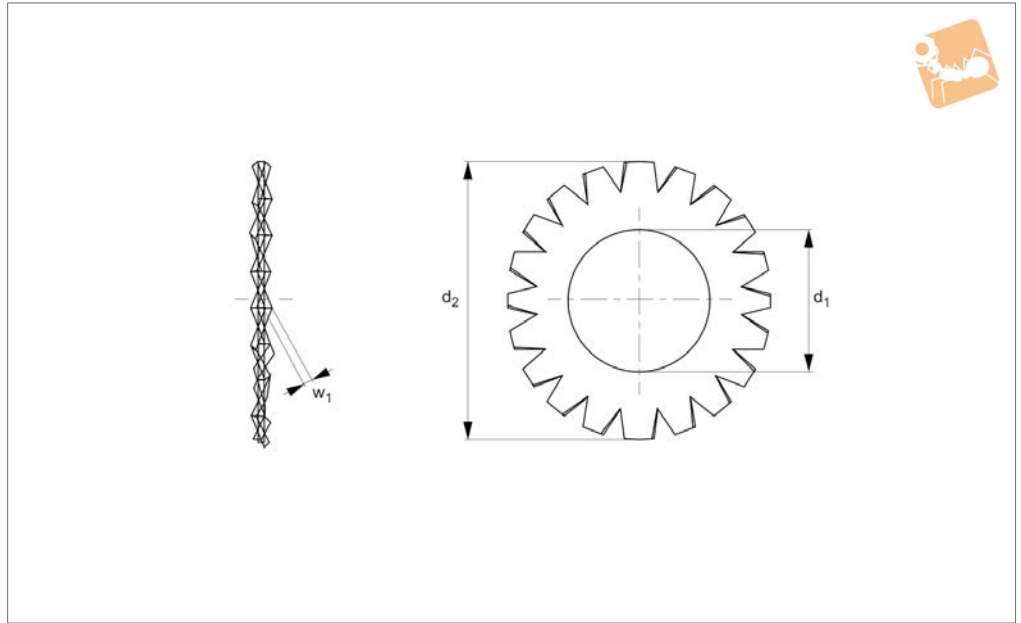
Technical Notes

To DIN 6798 A.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0372.020-A2 | M 2 | 4.5 | 0.3 | A2 s/s |
| P0372.025-A2 | M2,5 | 5.5 | 0.4 | A2 s/s |
| P0372.030-A2 | M 3 | 6.0 | 0.4 | A2 s/s |
| P0372.035-A2 | M3,5 | 7.0 | 0.5 | A2 s/s |
| P0372.040-A2 | M 4 | 8.0 | 0.5 | A2 s/s |
| P0372.050-A2 | M 5 | 9.0 | 0.6 | A2 s/s |
| P0372.051-A2 | M 5 | 10.0 | 0.6 | A2 s/s |
| P0372.060-A2 | M 6 | 11.0 | 0.7 | A2 s/s |
| P0372.070-A2 | M 7 | 12.5 | 0.8 | A2 s/s |
| P0372.080-A2 | M 8 | 14.0 | 0.8 | A2 s/s |
| P0372.081-A2 | M 8 | 15.0 | 0.9 | A2 s/s |
| P0372.100-A2 | M10 | 18.0 | 1.0 | A2 s/s |
| P0372.120-A2 | M12 | 20.5 | 1.0 | A2 s/s |
| P0372.140-A2 | M14 | 24.0 | 1.2 | A2 s/s |
| P0372.160-A2 | M16 | 26.0 | 1.4 | A2 s/s |
| P0372.180-A2 | M18 | 30.0 | 1.4 | A2 s/s |
| P0372.200-A2 | M20 | 33.0 | 1.5 | A2 s/s |
| P0372.220-A2 | M22 | 36.0 | 1.5 | A2 s/s |
| P0372.240-A2 | M24 | 38.0 | 1.6 | A2 s/s |
| P0372.270-A2 | M27 | 44.0 | 1.6 | A2 s/s |
| P0372.300-A2 | M30 | 48.0 | 1.6 | A2 s/s |



P0372.A4



Material

Stainless steel (A4, AISI 316)

Technical Notes

To DIN 6798 A.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0372.020-A4 | M 2 | 4.5 | 0.3 | A4 s/s |
| P0372.025-A4 | M2,5 | 5.5 | 0.4 | A4 s/s |
| P0372.030-A4 | M 3 | 6.0 | 0.4 | A4 s/s |
| P0372.035-A4 | M3,5 | 7.0 | 0.5 | A4 s/s |
| P0372.040-A4 | M 4 | 8.0 | 0.5 | A4 s/s |
| P0372.050-A4 | M 5 | 9.0 | 0.6 | A4 s/s |
| P0372.051-A4 | M 5 | 10.0 | 0.6 | A4 s/s |
| P0372.060-A4 | M 6 | 11.0 | 0.7 | A4 s/s |
| P0372.070-A4 | M 7 | 12.5 | 0.8 | A4 s/s |
| P0372.080-A4 | M 8 | 14.0 | 0.8 | A4 s/s |
| P0372.081-A4 | M 8 | 15.0 | 0.8 | A4 s/s |
| P0372.090-A4 | M 9 | 15.0 | 0.9 | A4 s/s |
| P0372.100-A4 | M10 | 18.0 | 1.0 | A4 s/s |
| P0372.120-A4 | M12 | 20.5 | 1.0 | A4 s/s |
| P0372.140-A4 | M14 | 24.0 | 1.2 | A4 s/s |
| P0372.160-A4 | M16 | 26.0 | 1.4 | A4 s/s |
| P0372.180-A4 | M18 | 30.0 | 1.4 | A4 s/s |
| P0372.200-A4 | M20 | 33.0 | 1.5 | A4 s/s |
| P0372.220-A4 | M22 | 36.0 | 1.5 | A4 s/s |
| P0372.240-A4 | M24 | 38.0 | 1.6 | A4 s/s |
| P0372.270-A4 | M27 | 44.0 | 1.6 | A4 s/s |
| P0372.300-A4 | M30 | 48.0 | 1.6 | A4 s/s |

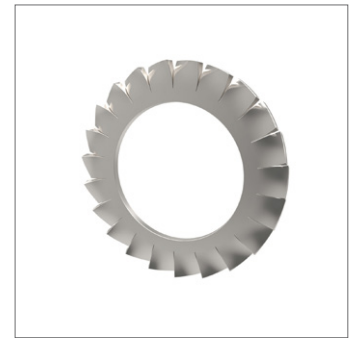
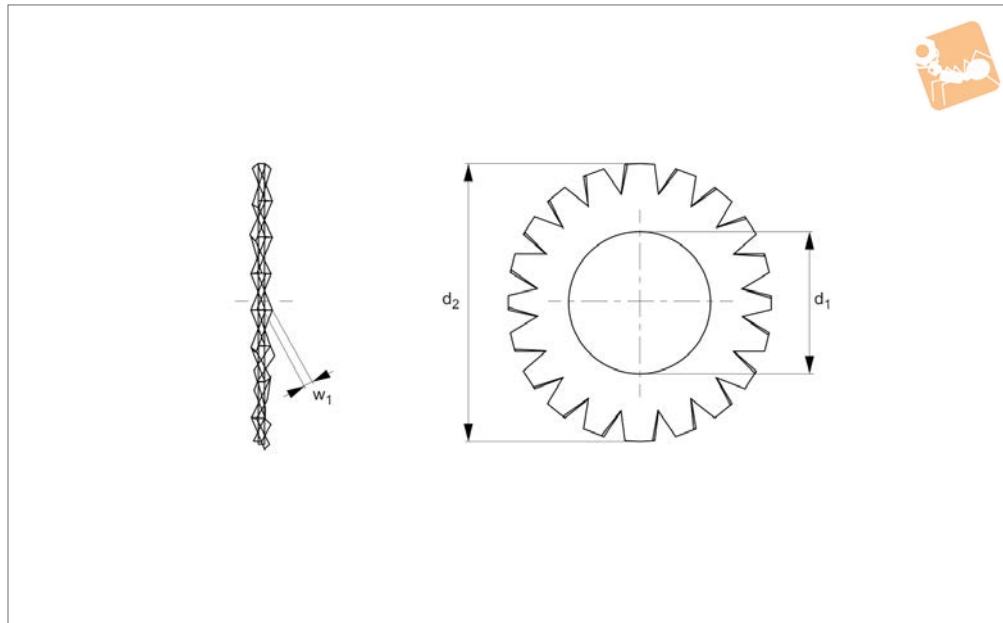


External Serrated Lock Washers

Steel, zinc-plated



Flat Washers



P0372.ZP

FLAT WASHERS

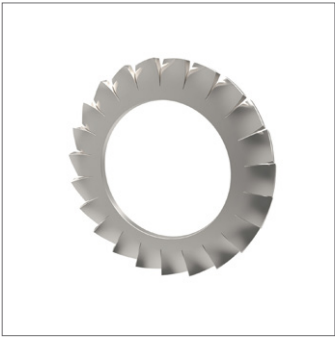
Material

Spring steel, zinc-plated.

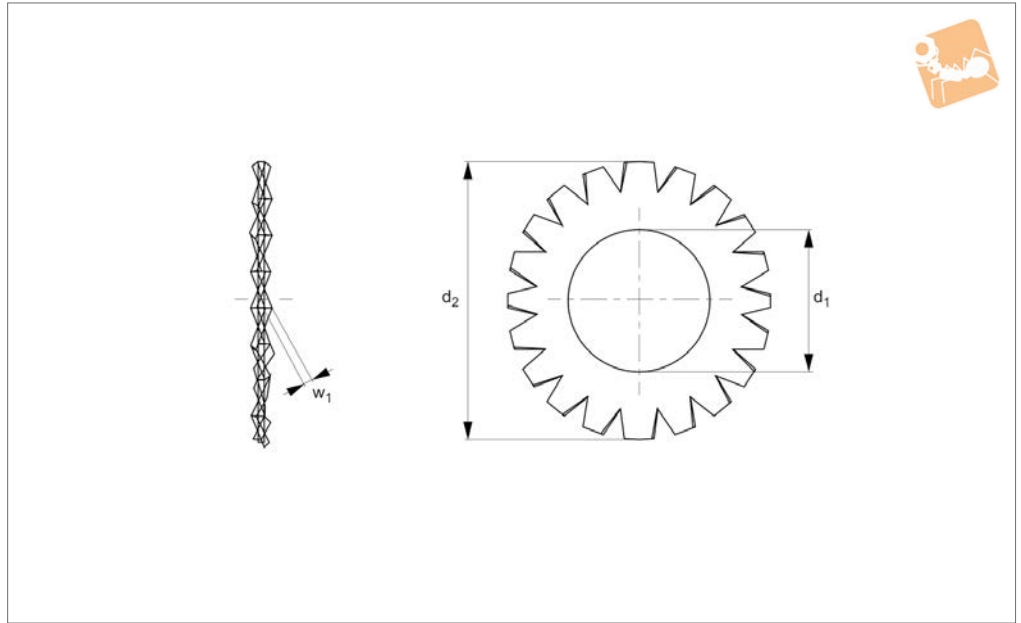
Technical Notes

To DIN 6798 A.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0372.020-ZP | M 2 | 4.5 | 0.3 | Steel ZP |
| P0372.025-ZP | M2,5 | 5.5 | 0.4 | Steel ZP |
| P0372.030-ZP | M 3 | 6.0 | 0.4 | Steel ZP |
| P0372.035-ZP | M3,5 | 7.0 | 0.5 | Steel ZP |
| P0372.040-ZP | M 4 | 8.0 | 0.5 | Steel ZP |
| P0372.050-ZP | M 5 | 9.0 | 0.6 | Steel ZP |
| P0372.051-ZP | M 5 | 10.0 | 0.6 | Steel ZP |
| P0372.060-ZP | M 6 | 11.0 | 0.7 | Steel ZP |
| P0372.070-ZP | M 7 | 12.5 | 0.8 | Steel ZP |
| P0372.080-ZP | M 8 | 14.0 | 0.8 | Steel ZP |
| P0372.081-ZP | M 8 | 14.0 | 0.8 | Steel ZP |
| P0372.090-ZP | M 9 | 15.0 | 0.9 | Steel ZP |
| P0372.100-ZP | M10 | 18.0 | 1.0 | Steel ZP |
| P0372.120-ZP | M12 | 20.5 | 1.0 | Steel ZP |
| P0372.140-ZP | M14 | 24.0 | 1.2 | Steel ZP |
| P0372.160-ZP | M16 | 26.0 | 1.4 | Steel ZP |
| P0372.180-ZP | M18 | 30.0 | 1.4 | Steel ZP |
| P0372.200-ZP | M20 | 33.0 | 1.5 | Steel ZP |
| P0372.220-ZP | M22 | 36.0 | 1.5 | Steel ZP |
| P0372.240-ZP | M24 | 38.0 | 1.6 | Steel ZP |



P0372.SC



Material
Spring steel, self-colour.

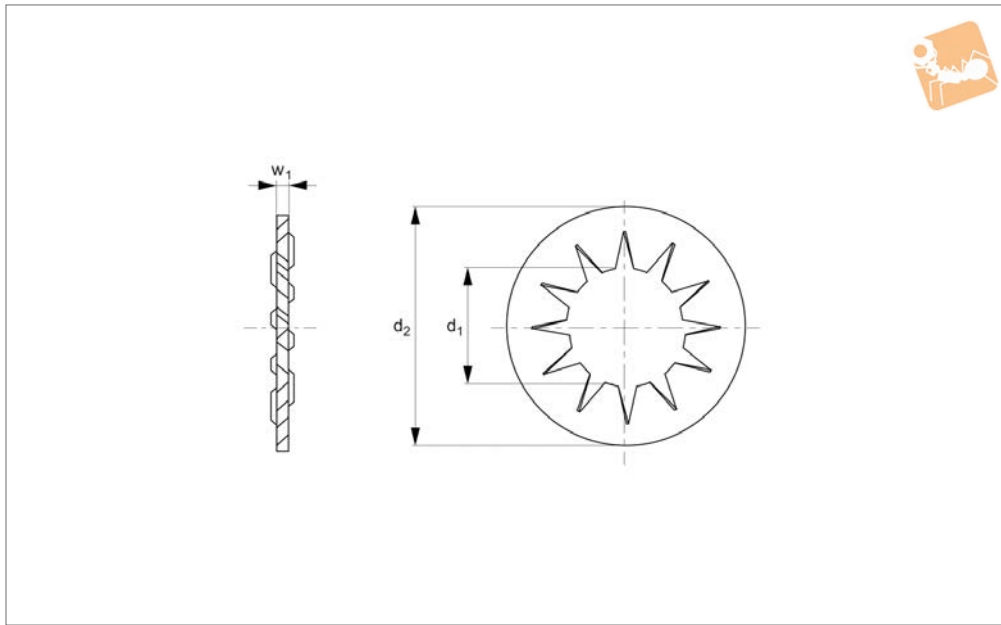
Technical Notes
To DIN 6798 A.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0372.020-SC | M 2 | 4.5 | 0.3 | Steel SC |
| P0372.025-SC | M2,5 | 5.5 | 0.4 | Steel SC |
| P0372.030-SC | M 3 | 6.0 | 0.4 | Steel SC |
| P0372.035-SC | M3,5 | 7.0 | 0.5 | Steel SC |
| P0372.040-SC | M 4 | 8.0 | 0.5 | Steel SC |
| P0372.050-SC | M 5 | 9.0 | 0.6 | Steel SC |
| P0372.051-SC | M 5 | 10.0 | 0.6 | Steel SC |
| P0372.060-SC | M 6 | 11.0 | 0.7 | Steel SC |
| P0372.070-SC | M 7 | 12.5 | 0.8 | Steel SC |
| P0372.080-SC | M 8 | 14.0 | 0.8 | Steel SC |
| P0372.081-SC | M 8 | 14.0 | 0.8 | Steel SC |
| P0372.090-SC | M 9 | 15.0 | 0.9 | Steel SC |
| P0372.100-SC | M10 | 18.0 | 1.0 | Steel SC |
| P0372.120-SC | M12 | 20.5 | 1.0 | Steel SC |
| P0372.140-SC | M14 | 24.0 | 1.2 | Steel SC |
| P0372.160-SC | M16 | 26.0 | 1.4 | Steel SC |
| P0372.180-SC | M18 | 30.0 | 1.4 | Steel SC |
| P0372.200-SC | M20 | 33.0 | 1.5 | Steel SC |
| P0372.220-SC | M22 | 36.0 | 1.5 | Steel SC |
| P0372.240-SC | M24 | 38.0 | 1.6 | Steel SC |
| P0372.270-SC | M27 | 44.0 | 1.6 | Steel SC |
| P0372.300-SC | M30 | 48.0 | 1.6 | Steel SC |



Internal Serrated Lock Washers

A2 stainless



P0373.A2

FLAT WASHERS

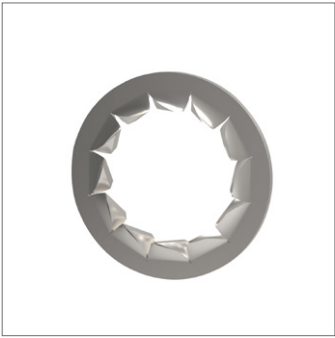
Material

Stainless steel (A2, AISI 303).

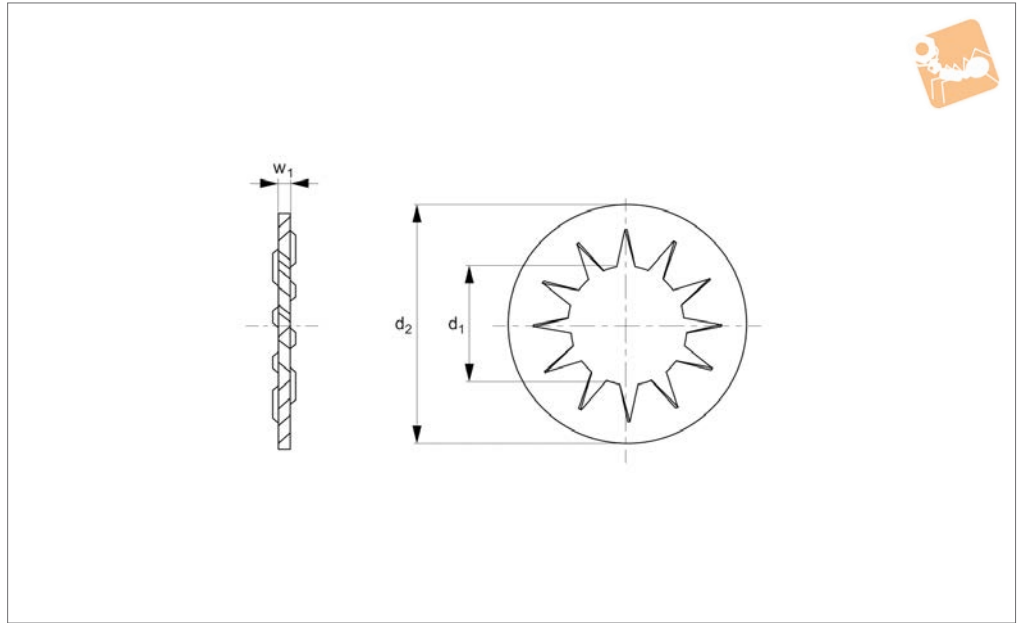
Technical Notes

To DIN 6798 B.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0373.020-A2 | M 2 | 4.5 | 0.3 | A2 s/s |
| P0373.025-A2 | M2,5 | 5.5 | 0.4 | A2 s/s |
| P0373.030-A2 | M 3 | 6.0 | 0.4 | A2 s/s |
| P0373.035-A2 | M3,5 | 7.0 | 0.5 | A2 s/s |
| P0373.040-A2 | M 4 | 8.0 | 0.5 | A2 s/s |
| P0373.050-A2 | M 5 | 10.0 | 0.6 | A2 s/s |
| P0373.060-A2 | M 6 | 11.0 | 0.7 | A2 s/s |
| P0373.070-A2 | M 7 | 12.5 | 0.8 | A2 s/s |
| P0373.080-A2 | M 8 | 15.0 | 0.8 | A2 s/s |
| P0373.100-A2 | M10 | 18.0 | 0.9 | A2 s/s |
| P0373.120-A2 | M12 | 20.5 | 1.0 | A2 s/s |
| P0373.140-A2 | M14 | 24.0 | 1.0 | A2 s/s |
| P0373.160-A2 | M16 | 26.0 | 1.2 | A2 s/s |
| P0373.180-A2 | M18 | 30.0 | 1.4 | A2 s/s |
| P0373.200-A2 | M20 | 33.0 | 1.4 | A2 s/s |
| P0373.220-A2 | M22 | 36.0 | 1.5 | A2 s/s |
| P0373.240-A2 | M24 | 38.0 | 1.5 | A2 s/s |
| P0373.270-A2 | M27 | 44.0 | 1.6 | A2 s/s |
| P0373.300-A2 | M30 | 48.0 | 1.6 | A2 s/s |



P0373.A4



Material

Stainless steel (A4, AISI 316).

Technical Notes

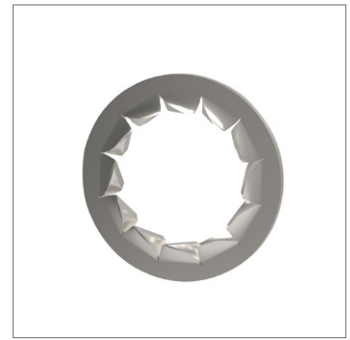
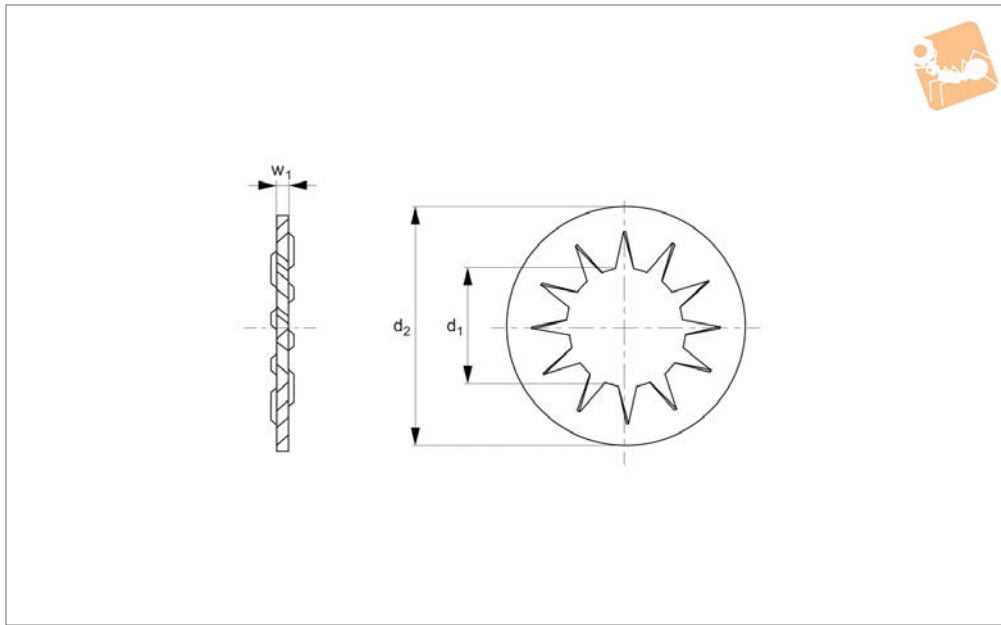
To DIN 6798 B.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0373.020-A4 | M 2 | 4.5 | 0.3 | A4 s/s |
| P0373.025-A4 | M2,5 | 5.5 | 0.4 | A4 s/s |
| P0373.030-A4 | M 3 | 6.0 | 0.4 | A4 s/s |
| P0373.035-A4 | M3,5 | 7.0 | 0.5 | A4 s/s |
| P0373.040-A4 | M 4 | 8.0 | 0.5 | A4 s/s |
| P0373.050-A4 | M 5 | 10.0 | 0.6 | A4 s/s |
| P0373.060-A4 | M 6 | 11.0 | 0.7 | A4 s/s |
| P0373.070-A4 | M 7 | 12.5 | 0.8 | A4 s/s |
| P0373.080-A4 | M 8 | 15.0 | 0.8 | A4 s/s |
| P0373.100-A4 | M10 | 18.0 | 0.9 | A4 s/s |
| P0373.120-A4 | M12 | 20.5 | 1.0 | A4 s/s |
| P0373.140-A4 | M14 | 24.0 | 1.0 | A4 s/s |
| P0373.160-A4 | M16 | 26.0 | 1.2 | A4 s/s |
| P0373.180-A4 | M18 | 30.0 | 1.4 | A4 s/s |
| P0373.200-A4 | M20 | 33.0 | 1.4 | A4 s/s |
| P0373.220-A4 | M22 | 36.0 | 1.5 | A4 s/s |
| P0373.240-A4 | M24 | 38.0 | 1.5 | A4 s/s |
| P0373.270-A4 | M27 | 44.0 | 1.6 | A4 s/s |
| P0373.300-A4 | M30 | 48.0 | 1.6 | A4 s/s |



Internal Serrated Lock Washers

Steel, zinc-plated



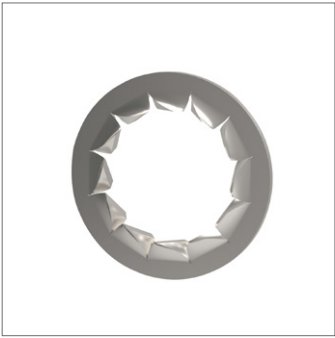
P0373.ZP

FLAT WASHERS

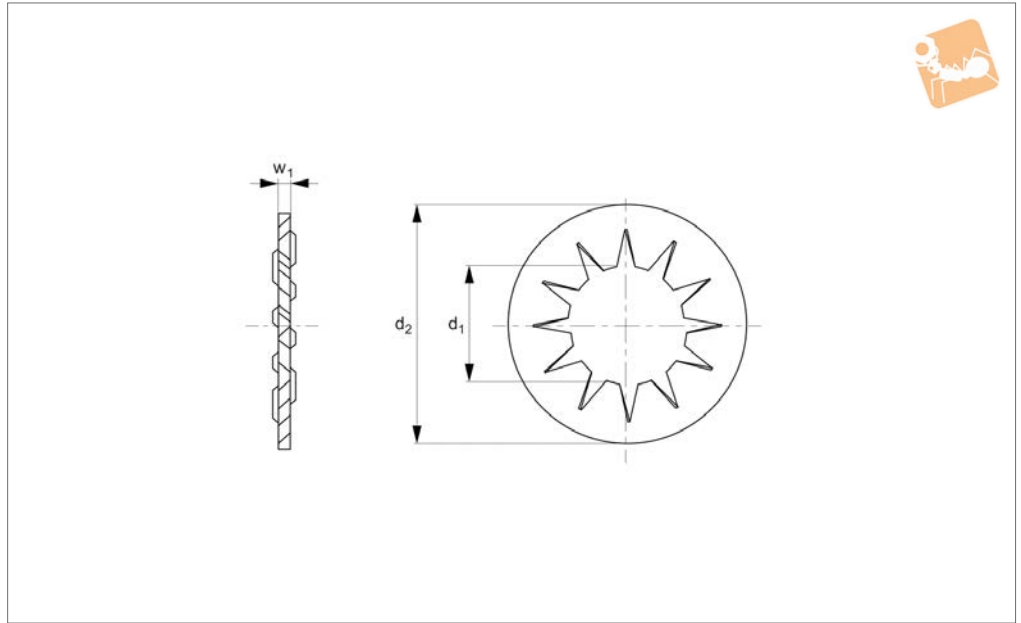
Material
Spring steel, zinc-plated.

Technical Notes
To DIN 6798 B.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0373.020-ZP | M 2 | 4.5 | 0.3 | Steel ZP |
| P0373.025-ZP | M2,5 | 5.5 | 0.4 | Steel ZP |
| P0373.030-ZP | M 3 | 6.0 | 0.4 | Steel ZP |
| P0373.035-ZP | M3,5 | 7.0 | 0.5 | Steel ZP |
| P0373.040-ZP | M 4 | 8.0 | 0.5 | Steel ZP |
| P0373.050-ZP | M 5 | 10.0 | 0.6 | Steel ZP |
| P0373.060-ZP | M 6 | 11.0 | 0.7 | Steel ZP |
| P0373.070-ZP | M 7 | 12.5 | 0.8 | Steel ZP |
| P0373.080-ZP | M 8 | 15.0 | 0.8 | Steel ZP |
| P0373.100-ZP | M10 | 18.0 | 0.9 | Steel ZP |
| P0373.120-ZP | M12 | 20.5 | 1.0 | Steel ZP |
| P0373.140-ZP | M14 | 24.0 | 1.0 | Steel ZP |
| P0373.160-ZP | M16 | 26.0 | 1.2 | Steel ZP |
| P0373.180-ZP | M18 | 30.0 | 1.4 | Steel ZP |
| P0373.200-ZP | M20 | 33.0 | 1.4 | Steel ZP |
| P0373.220-ZP | M22 | 36.0 | 1.5 | Steel ZP |
| P0373.240-ZP | M24 | 38.0 | 1.5 | Steel ZP |



P0373.SC



Material
Spring steel, self-colour.

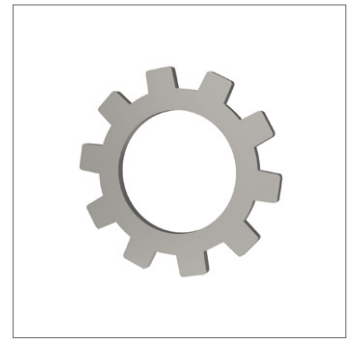
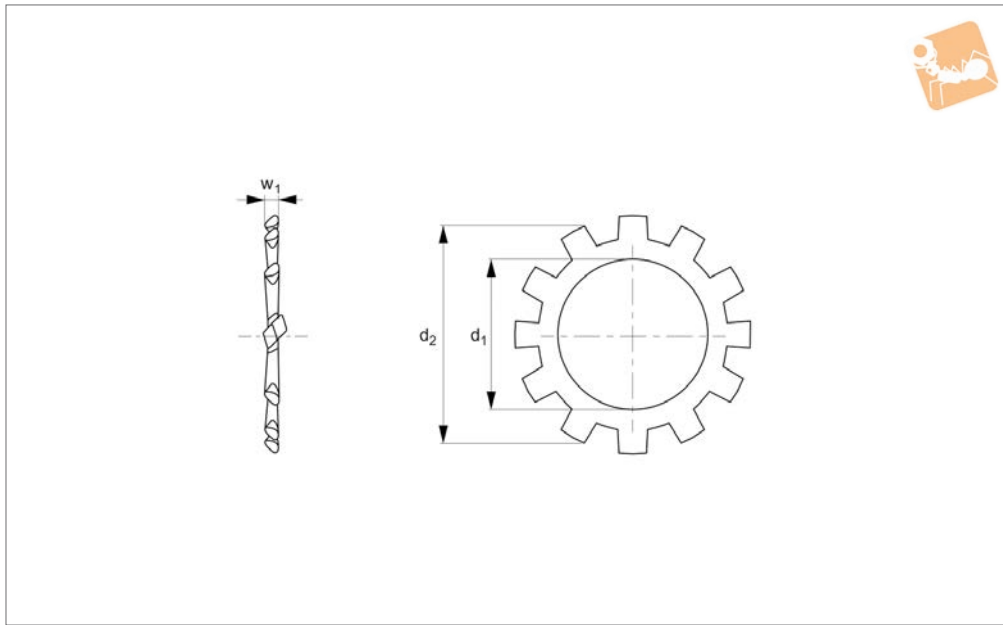
Technical Notes
To DIN 6798 B.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0373.020-SC | M 2 | 4.5 | 0.3 | Steel SC |
| P0373.025-SC | M2,5 | 5.5 | 0.4 | Steel SC |
| P0373.030-SC | M 3 | 6.0 | 0.4 | Steel SC |
| P0373.035-SC | M3,5 | 7.0 | 0.5 | Steel SC |
| P0373.040-SC | M 4 | 8.0 | 0.5 | Steel SC |
| P0373.050-SC | M 5 | 10.0 | 0.6 | Steel SC |
| P0373.060-SC | M 6 | 11.0 | 0.7 | Steel SC |
| P0373.070-SC | M 7 | 12.5 | 0.8 | Steel SC |
| P0373.080-SC | M 8 | 15.0 | 0.8 | Steel SC |
| P0373.100-SC | M10 | 18.0 | 0.9 | Steel SC |
| P0373.120-SC | M12 | 20.5 | 1.0 | Steel SC |
| P0373.140-SC | M14 | 24.0 | 1.0 | Steel SC |
| P0373.160-SC | M16 | 26.0 | 1.2 | Steel SC |
| P0373.180-SC | M18 | 30.0 | 1.4 | Steel SC |
| P0373.200-SC | M20 | 33.0 | 1.4 | Steel SC |
| P0373.220-SC | M22 | 36.0 | 1.5 | Steel SC |
| P0373.240-SC | M24 | 38.0 | 1.5 | Steel SC |
| P0373.270-SC | M27 | 44.0 | 1.6 | Steel SC |
| P0373.300-SC | M30 | 48.0 | 1.6 | Steel SC |



External A2 Tooth Washers

A2 stainless



P0374.A2

FLAT WASHERS

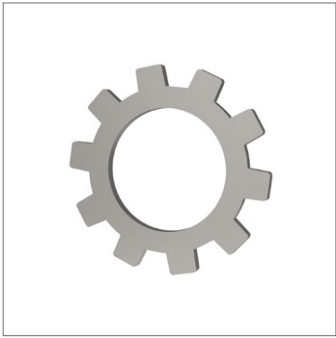
Material

Stainless steel (A2, AISI 303).

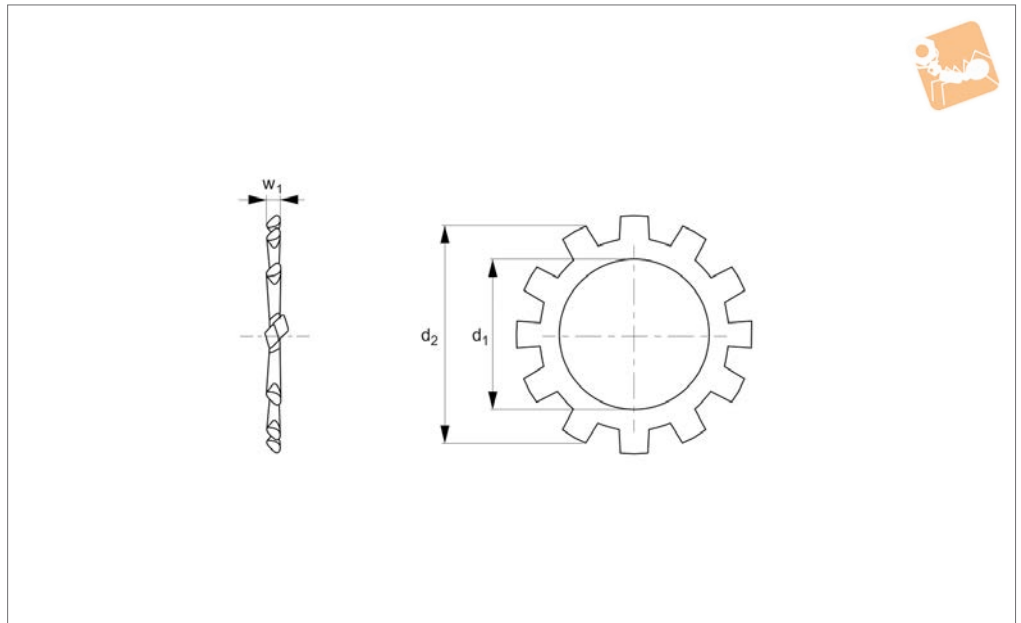
Technical Notes

To DIN 6797 AZ.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0374.020-A2 | M 2 | 4.5 | 0.3 | A2 s/s |
| P0374.025-A2 | M2,5 | 5.5 | 0.4 | A2 s/s |
| P0374.030-A2 | M 3 | 5.5 | 0.4 | A2 s/s |
| P0374.035-A2 | M3,5 | 6.0 | 0.4 | A2 s/s |
| P0374.040-A2 | M 4 | 7.0 | 0.5 | A2 s/s |
| P0374.050-A2 | M 5 | 8.0 | 0.5 | A2 s/s |
| P0374.060-A2 | M 6 | 11.0 | 0.7 | A2 s/s |
| P0374.070-A2 | M 7 | 12.5 | 0.8 | A2 s/s |
| P0374.080-A2 | M 8 | 15.0 | 0.8 | A2 s/s |
| P0374.100-A2 | M10 | 18.0 | 0.9 | A2 s/s |
| P0374.120-A2 | M12 | 20.5 | 1.0 | A2 s/s |
| P0374.140-A2 | M14 | 24.0 | 1.0 | A2 s/s |
| P0374.160-A2 | M 16 | 26.0 | 1.2 | A2 s/s |
| P0374.180-A2 | M18 | 30.0 | 1.4 | A2 s/s |
| P0374.200-A2 | M20 | 33.0 | 1.4 | A2 s/s |
| P0374.220-A2 | M22 | 36.0 | 1.5 | A2 s/s |
| P0374.240-A2 | M24 | 38.0 | 1.5 | A2 s/s |
| P0374.270-A2 | M27 | 44.0 | 1.6 | A2 s/s |
| P0374.300-A2 | M30 | 48.0 | 1.6 | A2 s/s |



P0374.A4



Material

Stainless steel (A4, AISI 316).

Technical Notes

To DIN 6798A.

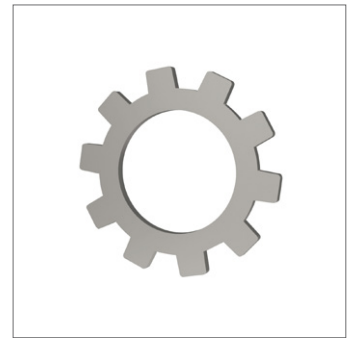
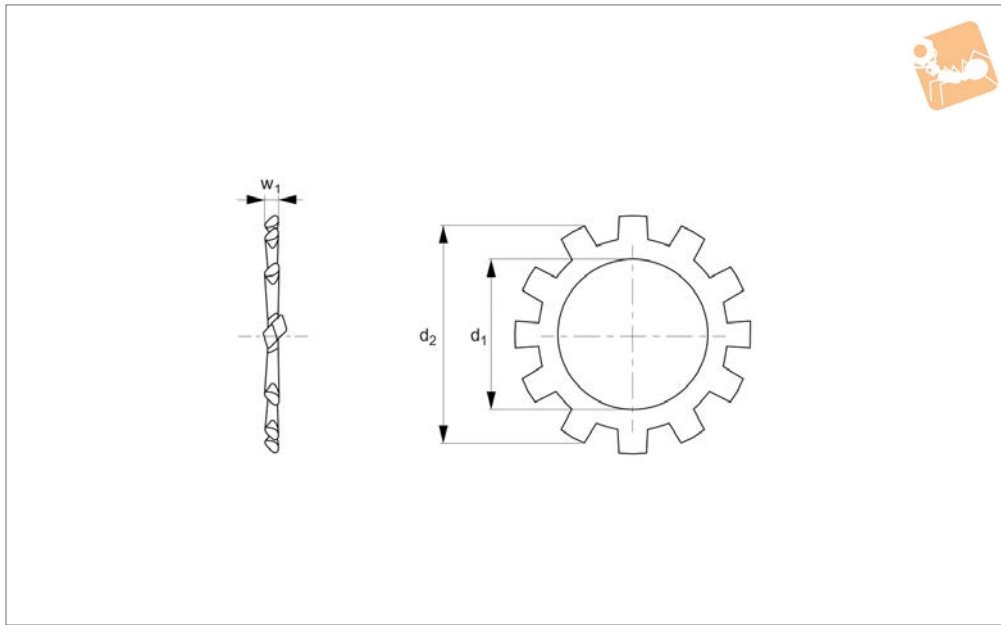
| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0374.020-A4 | M 2 | 4.5 | 0.3 | A4 s/s |
| P0374.025-A4 | M2,5 | 5.5 | 0.4 | A4 s/s |
| P0374.030-A4 | M 3 | 5.5 | 0.4 | A4 s/s |
| P0374.035-A4 | M3,5 | 6.0 | 0.4 | A4 s/s |
| P0374.040-A4 | M 4 | 7.0 | 0.5 | A4 s/s |
| P0374.050-A4 | M 5 | 8.0 | 0.5 | A4 s/s |
| P0374.060-A4 | M 6 | 11.0 | 0.7 | A4 s/s |
| P0374.070-A4 | M 7 | 12.5 | 0.8 | A4 s/s |
| P0374.080-A4 | M 8 | 15.0 | 0.8 | A4 s/s |
| P0374.100-A4 | M10 | 18.0 | 0.9 | A4 s/s |
| P0374.120-A4 | M12 | 20.5 | 1.0 | A4 s/s |
| P0374.140-A4 | M14 | 24.0 | 1.0 | A4 s/s |
| P0374.160-A4 | M 16 | 26.0 | 1.2 | A4 s/s |
| P0374.180-A4 | M18 | 30.0 | 1.4 | A4 s/s |
| P0374.200-A4 | M20 | 33.0 | 1.4 | A4 s/s |
| P0374.220-A4 | M22 | 36.0 | 1.5 | A4 s/s |
| P0374.240-A4 | M24 | 38.0 | 1.5 | A4 s/s |
| P0374.270-A4 | M27 | 44.0 | 1.6 | A4 s/s |
| P0374.300-A4 | M30 | 48.0 | 1.6 | A4 s/s |



External ZP Tooth Washers

Steel, zinc-plated

Flat Washers



P0374.ZP

FLAT WASHERS

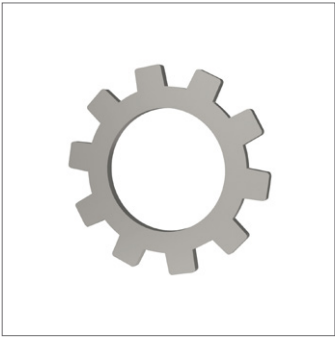
Material

Spring steel, zinc-plated.

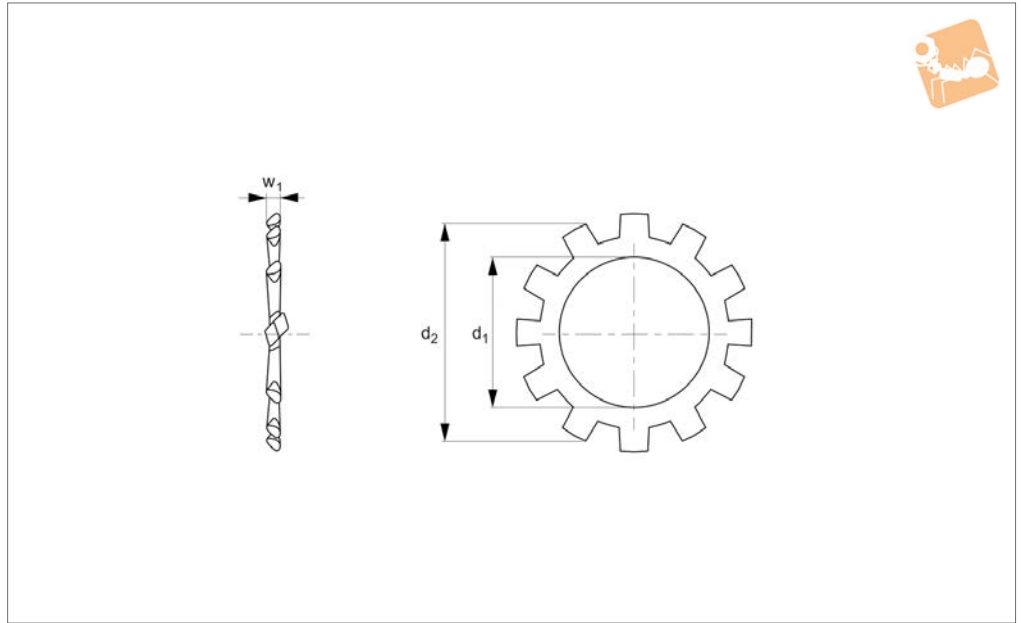
Technical Notes

To DIN 6797 AZ.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0374.030-ZP | M 3 | 5.5 | 0.4 | Steel ZP |
| P0374.040-ZP | M 4 | 7.0 | 0.5 | Steel ZP |
| P0374.050-ZP | M 5 | 8.0 | 0.5 | Steel ZP |
| P0374.060-ZP | M 6 | 11.0 | 0.7 | Steel ZP |
| P0374.080-ZP | M 8 | 15.0 | 0.8 | Steel ZP |
| P0374.100-ZP | M10 | 18.0 | 0.9 | Steel ZP |



P0374.SC



Material
Spring steel, self-colour.

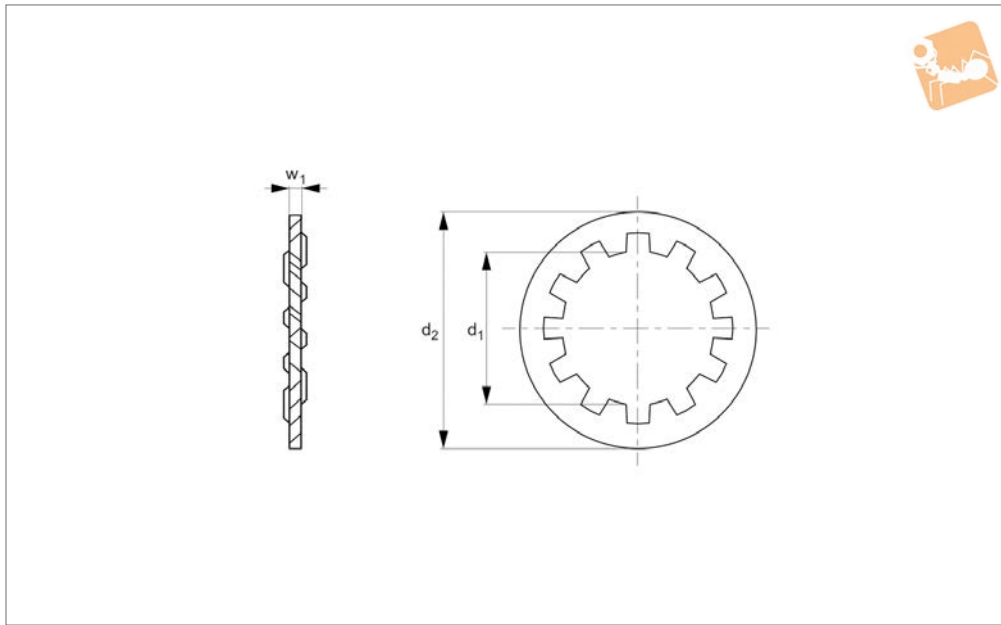
Technical Notes
To DIN 6797 AZ.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0374.030-SC | M 3 | 5.5 | 0.4 | Steel SC |
| P0374.040-SC | M 4 | 7.0 | 0.5 | Steel SC |
| P0374.050-SC | M 5 | 8.0 | 0.5 | Steel SC |
| P0374.060-SC | M 6 | 11.0 | 0.7 | Steel SC |
| P0374.080-SC | M 8 | 15.0 | 0.8 | Steel SC |
| P0374.100-SC | M10 | 18.0 | 0.9 | Steel SC |
| P0374.120-SC | M12 | 20.5 | 1.0 | Steel SC |
| P0374.140-SC | M14 | 24.0 | 1.0 | Steel SC |
| P0374.160-SC | M16 | 26.0 | 1.2 | Steel SC |
| P0374.200-SC | M20 | 33.0 | 1.4 | Steel SC |
| P0374.240-SC | M24 | 38.0 | 1.5 | Steel SC |



Internal A2 Tooth Washers

A2 stainless



P0375.A2

FLAT WASHERS

Material

Stainless steel (A2, AISI 303).

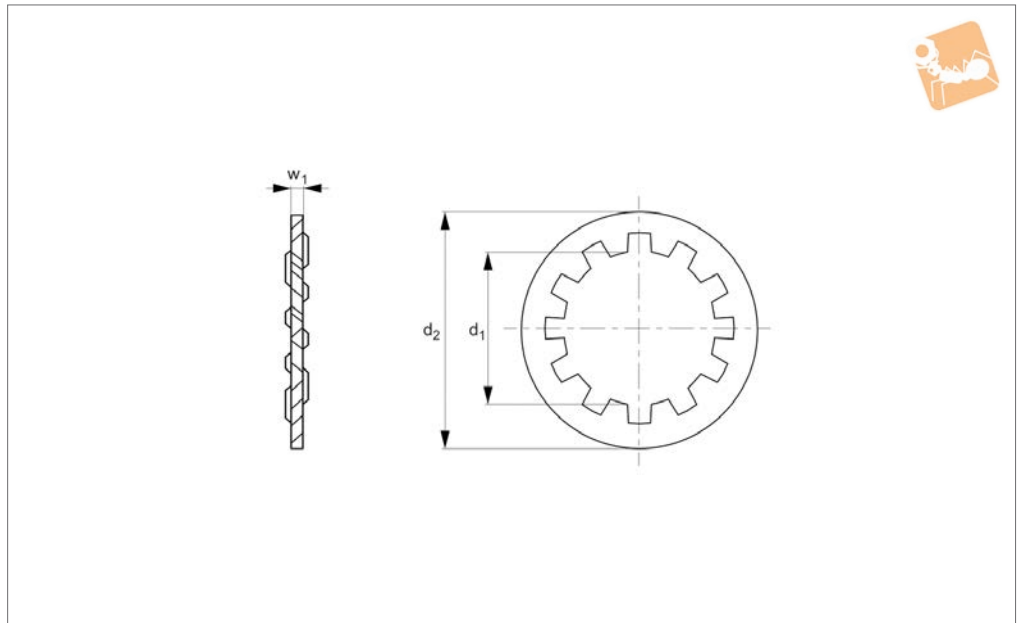
Technical Notes

To DIN 6797 IZ.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0375.020-A2 | M 2 | 4.5 | 0.3 | A2 s/s |
| P0375.025-A2 | M2,5 | 5.5 | 0.4 | A2 s/s |
| P0375.030-A2 | M 3 | 6.0 | 0.4 | A2 s/s |
| P0375.035-A2 | M3,5 | 7.0 | 0.5 | A2 s/s |
| P0375.040-A2 | M 4 | 8.0 | 0.5 | A2 s/s |
| P0375.050-A2 | M 5 | 10.0 | 0.6 | A2 s/s |
| P0375.060-A2 | M 6 | 11.0 | 0.7 | A2 s/s |
| P0375.070-A2 | M 7 | 12.5 | 0.8 | A2 s/s |
| P0375.080-A2 | M 8 | 15.0 | 0.8 | A2 s/s |
| P0375.100-A2 | M10 | 18.0 | 0.9 | A2 s/s |
| P0375.120-A2 | M12 | 20.5 | 1.0 | A2 s/s |
| P0375.140-A2 | M14 | 24.0 | 1.0 | A2 s/s |
| P0375.160-A2 | M16 | 26.0 | 1.2 | A2 s/s |
| P0375.180-A2 | M18 | 30.0 | 1.4 | A2 s/s |
| P0375.200-A2 | M20 | 33.0 | 1.4 | A2 s/s |
| P0375.220-A2 | M22 | 36.0 | 1.5 | A2 s/s |
| P0375.240-A2 | M24 | 38.0 | 1.5 | A2 s/s |
| P0375.270-A2 | M27 | 44.0 | 1.6 | A2 s/s |
| P0375.300-A2 | M30 | 48.0 | 1.6 | A2 s/s |



P0375.A4



Material

Stainless steel (A4, AISI 316).

Technical Notes

To DIN 6798 J.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0375.020-A4 | M 2 | 4.5 | 0.3 | A4 s/s |
| P0375.025-A4 | M2,5 | 5.5 | 0.4 | A4 s/s |
| P0375.030-A4 | M 3 | 6.0 | 0.4 | A4 s/s |
| P0375.035-A4 | M3,5 | 7.0 | 0.5 | A4 s/s |
| P0375.040-A4 | M 4 | 8.0 | 0.5 | A4 s/s |
| P0375.050-A4 | M 5 | 10.0 | 0.6 | A4 s/s |
| P0375.060-A4 | M 6 | 11.0 | 0.7 | A4 s/s |
| P0375.070-A4 | M 7 | 12.5 | 0.8 | A4 s/s |
| P0375.080-A4 | M 8 | 15.0 | 0.8 | A4 s/s |
| P0375.100-A4 | M10 | 18.0 | 0.9 | A4 s/s |
| P0375.120-A4 | M12 | 20.5 | 1.0 | A4 s/s |
| P0375.140-A4 | M14 | 24.0 | 1.0 | A4 s/s |
| P0375.160-A4 | M16 | 26.0 | 1.2 | A4 s/s |
| P0375.180-A4 | M18 | 30.0 | 1.4 | A4 s/s |
| P0375.200-A4 | M20 | 33.0 | 1.4 | A4 s/s |
| P0375.220-A4 | M22 | 36.0 | 1.5 | A4 s/s |
| P0375.240-A4 | M24 | 38.0 | 1.5 | A4 s/s |
| P0375.270-A4 | M27 | 44.0 | 1.6 | A4 s/s |
| P0375.300-A4 | M30 | 48.0 | 1.6 | A4 s/s |

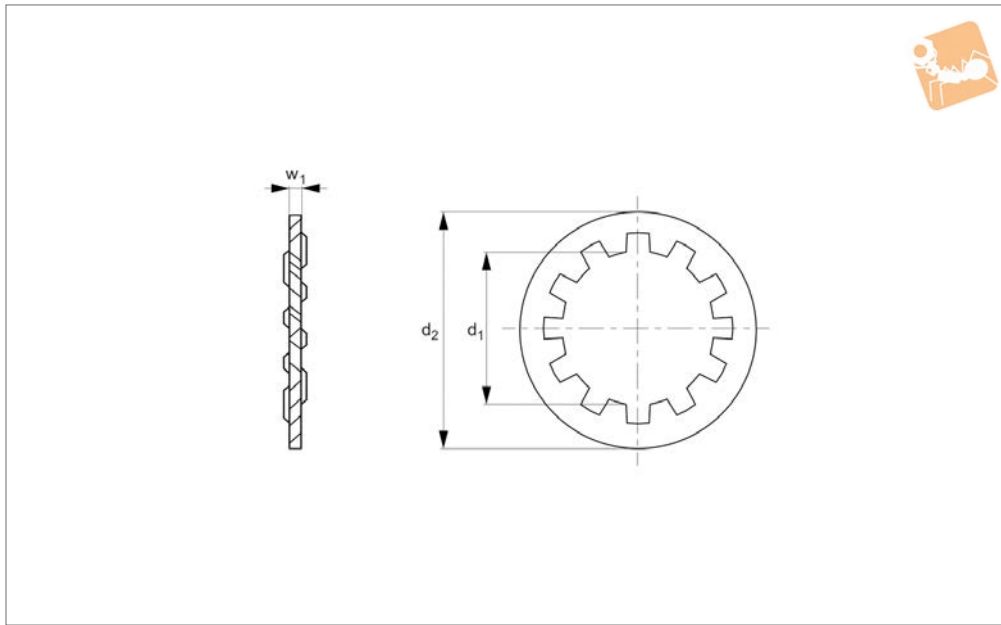


Internal ZP Tooth Washers

Steel, zinc-plated



Flat Washers



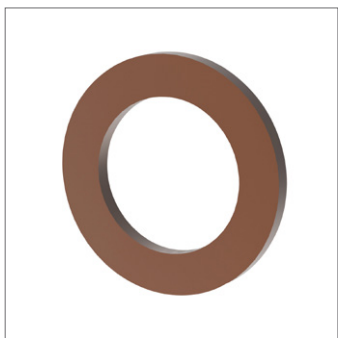
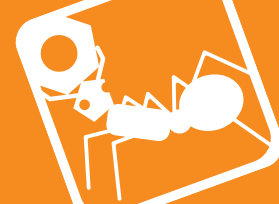
P0375.ZP

FLAT WASHERS

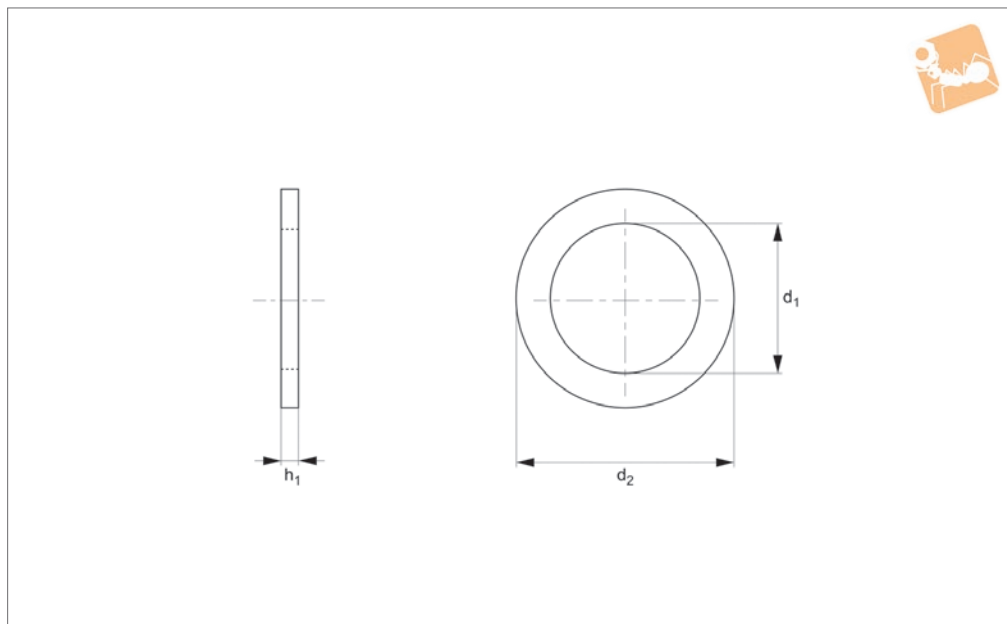
Material
Spring steel, zinc-plated.

Technical Notes
To DIN 6797 IZ.

| Order No. | d ₁ for thread | d ₂ | w ₁ | Material |
|--------------|---------------------------|----------------|----------------|----------|
| P0375.020-ZP | M 2 | 4.5 | 0.3 | Steel ZP |
| P0375.025-ZP | M2,5 | 5.5 | 0.4 | Steel ZP |
| P0375.030-ZP | M 3 | 6.0 | 0.4 | Steel ZP |
| P0375.035-ZP | M3,5 | 7.0 | 0.5 | Steel ZP |
| P0375.040-ZP | M 4 | 8.0 | 0.5 | Steel ZP |
| P0375.050-ZP | M 5 | 10.0 | 0.6 | Steel ZP |
| P0375.060-ZP | M 6 | 11.0 | 0.7 | Steel ZP |
| P0375.070-ZP | M 7 | 12.5 | 0.8 | Steel ZP |
| P0375.080-ZP | M 8 | 15.0 | 0.8 | Steel ZP |
| P0375.100-ZP | M10 | 18.0 | 0.9 | Steel ZP |
| P0375.120-ZP | M12 | 20.5 | 1.0 | Steel ZP |
| P0375.140-ZP | M14 | 24.0 | 1.0 | Steel ZP |
| P0375.160-ZP | M16 | 26.0 | 1.2 | Steel ZP |
| P0375.180-ZP | M18 | 30.0 | 1.4 | Steel ZP |
| P0375.200-ZP | M20 | 33.0 | 1.4 | Steel ZP |
| P0375.220-ZP | M22 | 36.0 | 1.5 | Steel ZP |
| P0375.240-ZP | M24 | 38.0 | 1.5 | Steel ZP |
| P0375.270-ZP | M27 | 44.0 | 1.6 | Steel ZP |
| P0375.300-ZP | M30 | 48.0 | 1.6 | Steel ZP |



P0334.CU



Material
Copper.

Technical Notes

To DIN 7603 A. Used as sealing ring for pipe connections and blanking plugs.

| Order No. | d ₁ | d ₂ | h ₁ | Suitable for DIN 908 thread | Suitable for pipe thread |
|-----------------|----------------|----------------|----------------|-----------------------------|--------------------------|
| P0334.05-10-010 | 5 | 10 | 1.0 | - | - |
| P0334.06-10-010 | 6 | 10 | 1.0 | - | - |
| P0334.07-10-010 | 7 | 10 | 1.0 | - | - |
| P0334.08-12-010 | 8 | 12 | 1.0 | M 8 x 1,0 | - |
| P0334.09-14-010 | 9 | 14 | 1.0 | - | - |
| P0334.10-14-010 | 10 | 14 | 1.0 | M10 x 1,0 | G1/8" |
| P0334.10-15-010 | 10 | 15 | 1.0 | M10 x 1,0 | - |
| P0334.10-16-010 | 10 | 16 | 1.0 | M10 x 1,0 | - |
| P0334.12-16-010 | 12 | 16 | 1.0 | M12 x 1,5 | - |
| P0334.14-18-010 | 14 | 18 | 1.0 | M14 x 1,5 | G1/4" |
| P0334.14-20-010 | 14 | 20 | 1.0 | - | - |
| P0334.15-20-010 | 15 | 20 | 1.0 | - | - |
| P0334.06-10-015 | 6 | 10 | 1.5 | - | - |
| P0334.08-14-015 | 8 | 14 | 1.5 | M 8 x 1,0 | - |
| P0334.09-14-015 | 9 | 14 | 1.5 | M10 x 1,0 | - |
| P0334.10-14-015 | 10 | 14 | 1.5 | M10 x 1,0 | G1/8" |
| P0334.10-16-015 | 10 | 16 | 1.5 | M10 x 1,0 | - |
| P0334.10-20-015 | 10 | 20 | 1.5 | - | - |
| P0334.11-17-015 | 11 | 17 | 1.5 | - | - |
| P0334.12-16-015 | 12 | 16 | 1.5 | M12 x 1,5 | - |
| P0334.12-17-015 | 12 | 17 | 1.5 | - | - |
| P0334.12-18-015 | 12 | 18 | 1.5 | - | - |
| P0334.12-20-015 | 12 | 20 | 1.5 | - | - |
| P0334.13-18-015 | 13 | 18 | 1.5 | - | - |
| P0334.14-18-015 | 14 | 18 | 1.5 | M14 x 1,5 | G1/4" |
| P0334.14-20-015 | 14 | 20 | 1.5 | - | - |
| P0334.14-22-015 | 14 | 22 | 1.5 | - | - |
| P0334.15-20-015 | 15 | 20 | 1.5 | - | - |
| P0334.16-20-015 | 16 | 20 | 1.5 | M16 x 1,5 | - |
| P0334.16-22-015 | 16 | 22 | 1.5 | - | - |
| P0334.17-21-015 | 17 | 21 | 1.5 | - | G3/8" |
| P0334.17-22-015 | 17 | 22 | 1.5 | - | - |
| P0334.18-24-015 | 18 | 24 | 1.5 | M18 x 1,5 | - |
| P0334.20-24-015 | 20 | 24 | 1.5 | M20 x 1,5 | - |
| P0334.20-26-015 | 20 | 26 | 1.5 | - | - |



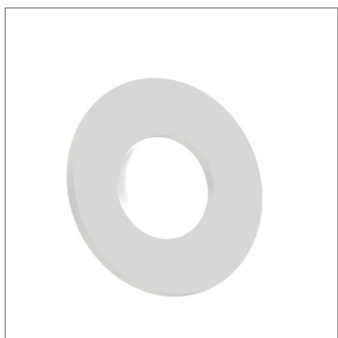
Sealing Rings copper

Flat Washers

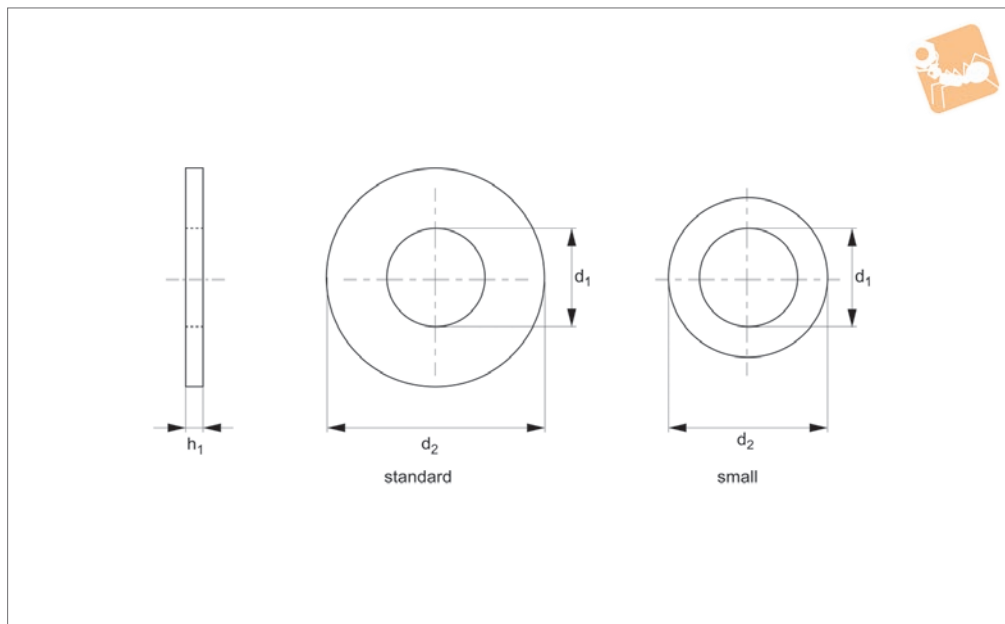


| Order No. | d ₁ | d ₂ | h ₁ | Suitable for DIN 908 thread | Suitable for pipe thread |
|-----------------|----------------|----------------|----------------|-----------------------------|--------------------------|
| P0334.21-26-015 | 21 | 26 | 1.5 | - | G1/2" |
| P0334.21-28-015 | 21 | 28 | 1.5 | - | - |
| P0334.22-27-015 | 22 | 27 | 1.5 | M22 x 1,5 | - |
| P0334.22-29-015 | 22 | 29 | 1.5 | - | - |
| P0334.10-19-020 | 10 | 19 | 2.0 | - | - |
| P0334.13-18-020 | 13 | 18 | 2.0 | - | - |
| P0334.14-18-020 | 14 | 18 | 2.0 | M14 x 1,5 | G1/4" |
| P0334.14-20-020 | 14 | 20 | 2.0 | - | - |
| P0334.15-20-020 | 15 | 20 | 2.0 | - | - |
| P0334.16-20-020 | 16 | 20 | 2.0 | M16 x 1,5 | - |
| P0334.16-21-020 | 16 | 21 | 2.0 | - | - |
| P0334.16-22-020 | 16 | 22 | 2.0 | - | - |
| P0334.17-24-020 | 17 | 24 | 2.0 | - | - |
| P0334.18-24-020 | 18 | 24 | 2.0 | M18 x 1,5 | - |
| P0334.19-26-020 | 19 | 26 | 2.0 | - | - |
| P0334.20-24-020 | 20 | 24 | 2.0 | M20 x 1,5 | - |
| P0334.21-26-020 | 21 | 26 | 2.0 | - | G1/2" |
| P0334.21-28-020 | 21 | 28 | 2.0 | - | - |
| P0334.22-26-020 | 22 | 26 | 2.0 | M22 x 1,5 | - |
| P0334.22-29-020 | 22 | 29 | 2.0 | - | - |
| P0334.24-30-020 | 24 | 30 | 2.0 | M24 x 1,5 | - |
| P0334.24-32-020 | 24 | 32 | 2.0 | - | - |
| P0334.26-32-020 | 26 | 32 | 2.0 | M26 x 1,5 | G3/4" |
| P0334.26-33-020 | 26 | 33 | 2.0 | - | - |
| P0334.26-34-020 | 26 | 34 | 2.0 | - | - |
| P0334.28-34-020 | 28 | 34 | 2.0 | - | - |
| P0334.30-36-020 | 30 | 36 | 2.0 | M30 x 1,5 | G7/8" |
| P0334.30-38-020 | 30 | 38 | 2.0 | - | - |
| P0334.32-38-020 | 32 | 38 | 2.0 | - | - |
| P0334.32-40-020 | 32 | 40 | 2.0 | - | - |
| P0334.33-39-020 | 33 | 39 | 2.0 | - | G1" |
| P0334.35-45-020 | 35 | 45 | 2.0 | - | - |
| P0334.36-42-020 | 36 | 42 | 2.0 | M36 x 2,0 | G1-1/8" |
| P0334.38-44-020 | 38 | 44 | 2.0 | M38 x 2,0 | - |
| P0334.40-47-020 | 40 | 47 | 2.0 | - | - |
| P0334.42-49-020 | 42 | 49 | 2.0 | M42 x 2 | G1-1/4" |
| P0334.45-52-020 | 45 | 52 | 2.0 | - | - |
| P0334.48-55-020 | 48 | 55 | 2.0 | M48 x 2 | G1-1/2" |
| P0334.50-57-020 | 50 | 57 | 2.0 | - | - |

FLAT WASHERS



P0339



Material
Polyamide.

diameter).
Type 2 - to DIN 125, without chamfer.

Technical Notes

Type 1 - to DIN 9021, ISO 7093 (3x thread

| Order No. | For thread | Type | d ₁ | d ₂ | h ₁ min. |
|---------------|------------|----------|----------------|----------------|------------------------|
| P0339.030-009 | M 3 | Standard | 3.2 | 9 | 0.8 |
| P0339.040-012 | M 4 | Standard | 4.3 | 12 | 0.8 |
| P0339.050-015 | M 5 | Standard | 5.3 | 15 | 1.0 |
| P0339.060-018 | M 6 | Standard | 6.4 | 18 | 1.5 |
| P0339.080-024 | M 8 | Standard | 8.4 | 24 | 2.0 |
| P0339.100-030 | M10 | Standard | 10.5 | 30 | 2.5 |
| P0339.120-037 | M12 | Standard | 13.0 | 37 | 3.0 |
| P0339.160-050 | M16 | Standard | 17.0 | 50 | 3.0 |
| P0339.180-056 | M18 | Standard | 20.0 | 56 | 4.0 |
| P0339.200-060 | M20 | Standard | 22.0 | 60 | 4.0 |
| P0339.240-072 | M24 | Standard | 26.0 | 72 | 5.0 |
| P0339.300-092 | M30 | Standard | 33.0 | 92 | 6.0 |
| P0339.360-110 | M36 | Standard | 39.0 | 110 | 8.0 |
| P0339.020-005 | M 2 | Small | 2.2 | 5 | 0.3 |
| P0339.025-006 | M2,5 | Small | 2.7 | 6 | 0.5 |
| P0339.030-007 | M 3 | Small | 3.2 | 7 | 0.5 |
| P0339.040-009 | M 4 | Small | 4.3 | 9 | 0.8 |
| P0339.050-010 | M 5 | Small | 5.3 | 10 | 1.0 |
| P0339.060-012 | M 6 | Small | 6.4 | 12 | 1.6 |
| P0339.080-016 | M 8 | Small | 8.4 | 16 | 1.6 |
| P0339.100-020 | M10 | Small | 10.5 | 20 | 2.0 |
| P0339.120-024 | M12 | Small | 13.0 | 24 | 2.5 |
| P0339.140-028 | M14 | Small | 15.0 | 28 | 2.5 |
| P0339.160-030 | M16 | Small | 17.0 | 30 | 3.0 |
| P0339.180-034 | M18 | Small | 19.0 | 34 | 3.0 |
| P0339.200-037 | M20 | Small | 21.0 | 37 | 3.0 |
| P0339.240-044 | M24 | Small | 25.0 | 44 | 4.0 |
| P0339.270-050 | M27 | Small | 28.0 | 50 | 4.0 |
| P0339.300-086 | M30 | Small | 31.0 | 56 | 4.0 |

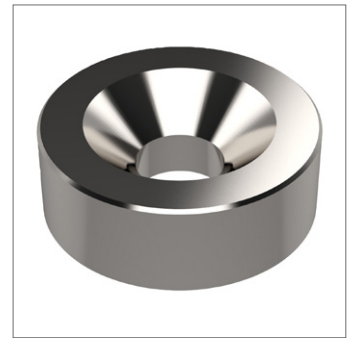
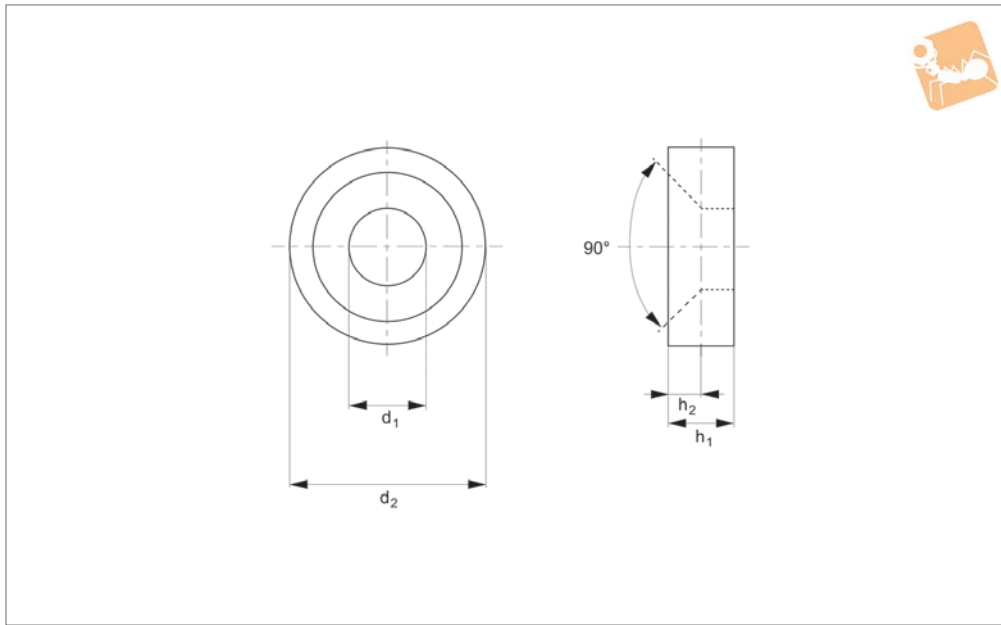


Solid Countersunk Washers

303 stainless



Flat Washers



P0341.A2

FLAT WASHERS

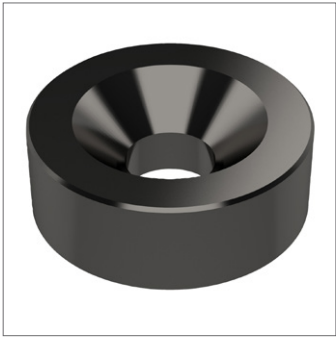
Material

Stainless steel (AISI 303, 1.4305).

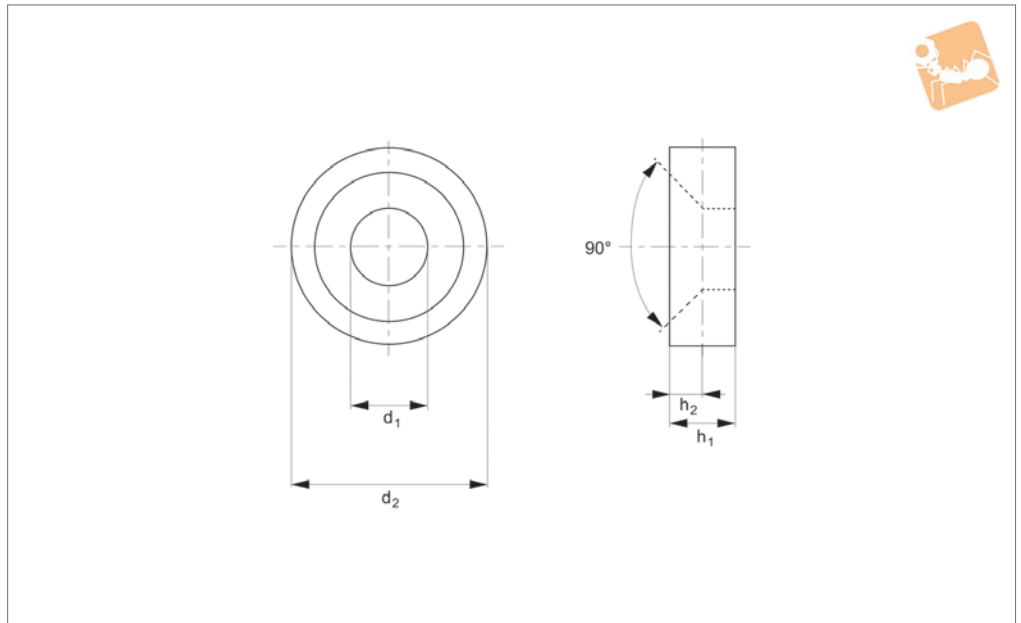
Technical Notes

Machined washers made from stainless steel to fit countersunk screws.

| Order No. | For thread | d_1 $+0.3 +0.1$ | d_2 $+0 -0.2$ | h_1 ± 0.1 | h_2 ± 0.1 |
|------------------|------------|----------------------|--------------------|--------------------|--------------------|
| P0341.025-025-A2 | M 2,5 | 2.8 | 8 | 2.5 | 1.8 |
| P0341.025-030-A2 | M 2,5 | 2.8 | 8 | 3.0 | 1.8 |
| P0341.025-040-A2 | M 2,5 | 2.8 | 8 | 4.0 | 1.8 |
| P0341.030-025-A2 | M 3 | 3.5 | 10 | 2.5 | 2.0 |
| P0341.030-030-A2 | M 3 | 3.5 | 10 | 3.0 | 2.0 |
| P0341.030-040-A2 | M 3 | 3.5 | 10 | 4.0 | 2.0 |
| P0341.030-050-A2 | M 3 | 3.5 | 10 | 5.0 | 2.0 |
| P0341.040-025-A2 | M 4 | 4.5 | 14 | 2.5 | 2.7 |
| P0341.040-030-A2 | M 4 | 4.5 | 14 | 3.0 | 2.7 |
| P0341.040-040-A2 | M 4 | 4.5 | 14 | 4.0 | 2.7 |
| P0341.040-050-A2 | M 4 | 4.5 | 14 | 5.0 | 2.7 |
| P0341.050-030-A2 | M 5 | 5.5 | 16 | 3.0 | 3.5 |
| P0341.050-040-A2 | M 5 | 5.5 | 16 | 4.0 | 3.5 |
| P0341.050-050-A2 | M 5 | 5.5 | 16 | 5.0 | 3.5 |
| P0341.050-060-A2 | M 5 | 5.5 | 16 | 6.0 | 3.5 |
| P0341.050-080-A2 | M 5 | 5.5 | 16 | 8.0 | 3.5 |
| P0341.060-035-A2 | M 6 | 6.6 | 20 | 3.5 | 4.0 |
| P0341.060-040-A2 | M 6 | 6.6 | 20 | 4.0 | 4.0 |
| P0341.060-050-A2 | M 6 | 6.6 | 20 | 5.0 | 4.0 |
| P0341.060-060-A2 | M 6 | 6.6 | 20 | 6.0 | 4.0 |
| P0341.060-080-A2 | M 6 | 6.6 | 20 | 8.0 | 4.0 |
| P0341.080-035-A2 | M 8 | 8.4 | 20 | 3.5 | 5.2 |
| P0341.080-040-A2 | M 8 | 8.4 | 20 | 4.0 | 5.2 |
| P0341.080-050-A2 | M 8 | 8.4 | 20 | 5.0 | 5.2 |
| P0341.080-060-A2 | M 8 | 8.4 | 20 | 6.0 | 5.2 |
| P0341.080-080-A2 | M 8 | 8.4 | 20 | 8.0 | 5.2 |



P0341.B2



Material

Stainless steel (AISI 303 series, 1.4305), black oxide finish.

Technical Notes

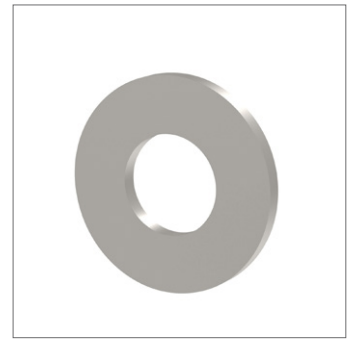
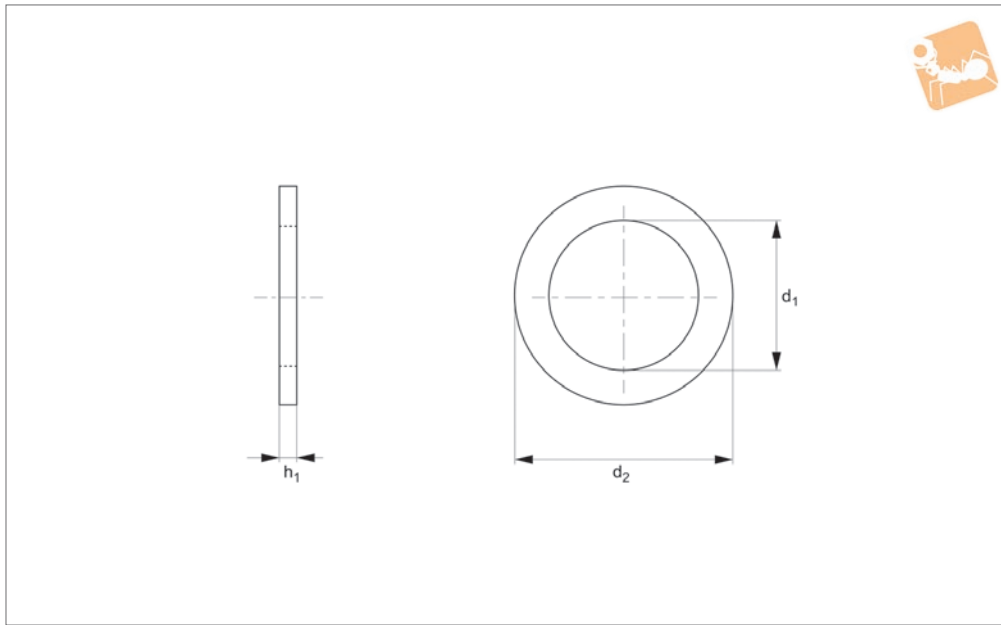
Machined washers made from stainless steel to fit countersunk screws.

| Order No. | For thread | d_1 $+0.3 +0.1$ | d_2 $+0 -0.2$ | h_1 ± 0.1 | h_2 ± 0.1 |
|------------------|------------|----------------------|--------------------|--------------------|--------------------|
| P0341.025-025-B2 | M 2,5 | 2.8 | 8 | 2.5 | 1.8 |
| P0341.025-030-B2 | M 2,5 | 2.8 | 8 | 3.0 | 1.8 |
| P0341.025-040-B2 | M 2,5 | 2.8 | 8 | 4.0 | 1.8 |
| P0341.030-025-B2 | M 3 | 3.5 | 10 | 2.5 | 2.0 |
| P0341.030-030-B2 | M 3 | 3.5 | 10 | 3.0 | 2.0 |
| P0341.030-040-B2 | M 3 | 3.5 | 10 | 4.0 | 2.0 |
| P0341.030-050-B2 | M 3 | 3.5 | 10 | 5.0 | 2.0 |
| P0341.040-025-B2 | M 4 | 4.5 | 14 | 2.5 | 2.7 |
| P0341.040-030-B2 | M 4 | 4.5 | 14 | 3.0 | 2.7 |
| P0341.040-040-B2 | M 4 | 4.5 | 14 | 4.0 | 2.7 |
| P0341.040-050-B2 | M 4 | 4.5 | 14 | 5.0 | 2.7 |
| P0341.050-030-B2 | M 5 | 5.5 | 16 | 3.0 | 3.5 |
| P0341.050-040-B2 | M 5 | 5.5 | 16 | 4.0 | 3.5 |
| P0341.050-050-B2 | M 5 | 5.5 | 16 | 5.0 | 3.5 |
| P0341.050-060-B2 | M 5 | 5.5 | 16 | 6.0 | 3.5 |
| P0341.050-080-B2 | M 5 | 5.5 | 16 | 8.0 | 3.5 |
| P0341.060-035-B2 | M 6 | 6.6 | 20 | 3.5 | 4.0 |
| P0341.060-040-B2 | M 6 | 6.6 | 20 | 4.0 | 4.0 |
| P0341.060-050-B2 | M 6 | 6.6 | 20 | 5.0 | 4.0 |
| P0341.060-060-B2 | M 6 | 6.6 | 20 | 6.0 | 4.0 |
| P0341.060-080-B2 | M 6 | 6.6 | 20 | 8.0 | 4.0 |
| P0341.080-035-B2 | M 8 | 8.4 | 20 | 3.5 | 5.2 |
| P0341.080-040-B2 | M 8 | 8.4 | 20 | 4.0 | 5.2 |
| P0341.080-050-B2 | M 8 | 8.4 | 20 | 5.0 | 5.2 |
| P0341.080-060-B2 | M 8 | 8.4 | 20 | 6.0 | 5.2 |
| P0341.080-080-B2 | M 8 | 8.4 | 20 | 8.0 | 5.2 |



Shim Washers

304 stainless



P0342.A2

FLAT WASHERS

Material

Stainless steel (A2, AISI 304).

Technical Notes

To DIN 988.

| Order No. | d ₁ tol. D12 | d ₂ tol. d12 | h ₁ -0.05 |
|----------------|----------------------------|----------------------------|-------------------------|
| P0342.03-06-01 | 3.0 | 6.0 | 0.1 |
| P0342.03-06-02 | 3.0 | 6.0 | 0.2 |
| P0342.03-06-03 | 3.0 | 6.0 | 0.3 |
| P0342.03-06-04 | 3.0 | 6.0 | 0.4 |
| P0342.03-06-05 | 3.0 | 6.0 | 0.5 |
| P0342.04-08-01 | 4.0 | 8.0 | 0.1 |
| P0342.04-08-02 | 4.0 | 8.0 | 0.2 |
| P0342.04-08-03 | 4.0 | 8.0 | 0.3 |
| P0342.04-08-05 | 4.0 | 8.0 | 0.5 |
| P0342.04-08-10 | 4.0 | 8.0 | 1.0 |
| P0342.05-10-02 | 5.0 | 10.0 | 0.2 |
| P0342.05-10-03 | 5.0 | 10.0 | 0.3 |
| P0342.05-10-05 | 5.0 | 10.0 | 0.5 |
| P0342.05-10-10 | 5.0 | 10.0 | 1.0 |
| P0342.05-10-01 | 5.0 | 10.0 | 0.1 |
| P0342.06-12-01 | 6.0 | 12.0 | 0.1 |
| P0342.06-12-03 | 6.0 | 12.0 | 0.3 |
| P0342.06-12-02 | 6.0 | 12.0 | 0.2 |
| P0342.06-12-05 | 6.0 | 12.0 | 0.5 |
| P0342.06-12-10 | 6.0 | 12.0 | 1.0 |
| P0342.08-14-01 | 8.0 | 14.0 | 0.1 |
| P0342.08-14-02 | 8.0 | 14.0 | 0.2 |
| P0342.08-14-03 | 8.0 | 14.0 | 0.3 |
| P0342.08-14-05 | 8.0 | 14.0 | 0.5 |
| P0342.08-14-10 | 8.0 | 14.0 | 1.0 |
| P0342.10-16-02 | 10.0 | 16.0 | 0.2 |
| P0342.10-16-05 | 10.0 | 16.0 | 0.5 |
| P0342.10-16-10 | 10.0 | 16.0 | 1.0 |
| P0342.10-16-01 | 10.0 | 16.0 | 0.1 |
| P0342.10-16-03 | 10.0 | 16.0 | 0.3 |
| P0342.12-18-01 | 12.0 | 18.0 | 0.1 |
| P0342.12-18-02 | 12.0 | 18.0 | 0.2 |
| P0342.12-18-03 | 12.0 | 18.0 | 0.3 |
| P0342.12-18-05 | 12.0 | 18.0 | 0.5 |



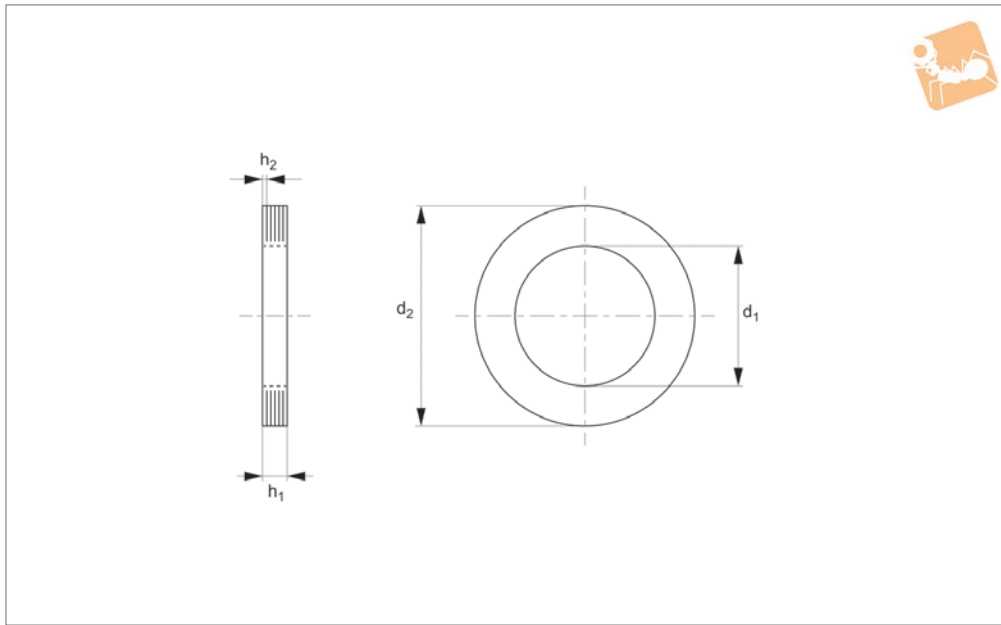
FLAT WASHERS

| Order No. | d ₁ tol. D12 | d ₂ tol. d12 | h ₁ -0.05 |
|----------------|----------------------------|----------------------------|-------------------------|
| P0342.12-18-10 | 12.0 | 18.0 | 1.0 |
| P0342.14-20-01 | 14.0 | 20.0 | 0.1 |
| P0342.14-20-02 | 14.0 | 20.0 | 0.2 |
| P0342.14-20-03 | 14.0 | 20.0 | 0.3 |
| P0342.14-20-05 | 14.0 | 20.0 | 0.5 |
| P0342.14-20-10 | 14.0 | 20.0 | 1.0 |
| P0342.15-21-01 | 15.0 | 21.0 | 0.1 |
| P0342.15-21-02 | 15.0 | 21.0 | 0.2 |
| P0342.15-21-03 | 15.0 | 21.0 | 0.3 |
| P0342.15-21-05 | 15.0 | 21.0 | 0.5 |
| P0342.15-21-10 | 15.0 | 21.0 | 1.0 |
| P0342.15-21-20 | 15.0 | 21.0 | 2.0 |
| P0342.15-22-05 | 15.0 | 22.0 | 0.5 |
| P0342.15-22-10 | 15.0 | 22.0 | 1.0 |
| P0342.16-22-01 | 16.0 | 22.0 | 0.1 |
| P0342.16-22-02 | 16.0 | 22.0 | 0.2 |
| P0342.16-22-03 | 16.0 | 22.0 | 0.3 |
| P0342.16-22-05 | 16.0 | 22.0 | 0.5 |
| P0342.16-22-10 | 16.0 | 22.0 | 1.0 |
| P0342.17-24-03 | 17.0 | 24.0 | 0.3 |
| P0342.17-24-05 | 17.0 | 24.0 | 0.5 |
| P0342.17-24-10 | 17.0 | 24.0 | 1.0 |
| P0342.17-24-15 | 17.0 | 24.0 | 1.5 |
| P0342.18-25-02 | 18.0 | 25.0 | 0.2 |
| P0342.18-25-03 | 18.0 | 25.0 | 0.3 |
| P0342.18-25-10 | 18.0 | 25.0 | 1.0 |
| P0342.20-28-01 | 20.0 | 28.0 | 0.1 |
| P0342.20-28-02 | 20.0 | 28.0 | 0.2 |
| P0342.20-28-03 | 20.0 | 28.0 | 0.3 |
| P0342.20-28-05 | 20.0 | 28.0 | 0.5 |
| P0342.20-28-10 | 20.0 | 28.0 | 1.0 |
| P0342.22-30-01 | 22.0 | 30.0 | 0.1 |
| P0342.22-30-05 | 22.0 | 30.0 | 0.5 |
| P0342.25-35-01 | 25.0 | 35.0 | 0.1 |
| P0342.25-35-02 | 25.0 | 35.0 | 0.2 |
| P0342.25-35-03 | 25.0 | 35.0 | 0.3 |
| P0342.25-35-05 | 25.0 | 35.0 | 0.5 |
| P0342.25-35-10 | 25.0 | 35.0 | 1.0 |
| P0342.25-35-15 | 25.0 | 35.0 | 1.5 |
| P0342.28-40-01 | 28.0 | 40.0 | 0.1 |
| P0342.28-40-05 | 28.0 | 40.0 | 0.5 |
| P0342.30-42-01 | 30.0 | 42.0 | 0.1 |
| P0342.30-42-05 | 30.0 | 42.0 | 0.5 |
| P0342.30-42-10 | 30.0 | 42.0 | 1.0 |
| P0342.35-45-03 | 35.0 | 45.0 | 0.3 |
| P0342.35-45-05 | 35.0 | 45.0 | 0.5 |
| P0342.35-45-10 | 35.0 | 45.0 | 1.0 |
| P0342.40-50-01 | 40.0 | 50.0 | 0.1 |
| P0342.40-50-05 | 40.0 | 50.0 | 0.5 |
| P0342.40-50-10 | 40.0 | 50.0 | 1.0 |
| P0342.50-62-02 | 50.0 | 62.0 | 0.2 |



Laminated Shim Spacers

brass



P0344.BR

FLAT WASHERS

Material

Brass, with 0,05mm laminations.

Technical Notes

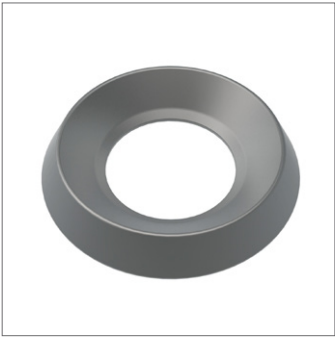
The inner race spacers fits onto shafts and

preloads inner race of ball bearing.
The outer race fits into the housing and
preloads outer race of ball bearing.

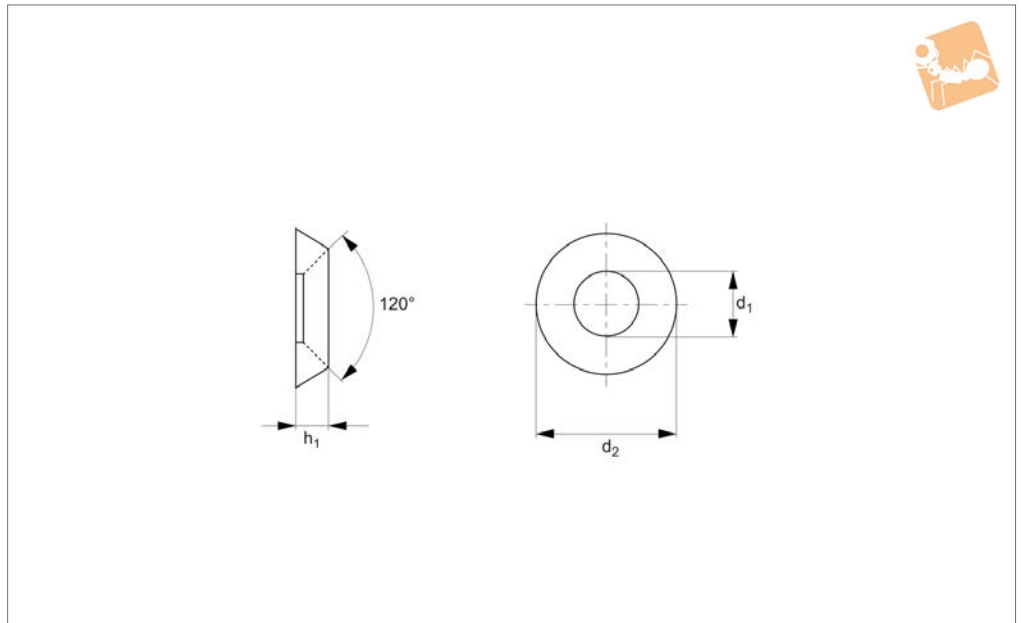
Tips

The laminations can be peeled off as
required.

| Order No. | For shaft | d_1 ± 0.1 | d_2 $+0.0 -0.1$ | h_1 ± 0.1 | h_2 |
|-------------|-----------|--------------------|----------------------|--------------------|-------|
| P0344.030-I | 3 | 3.2 | 5.9 | 0.8 | 0.05 |
| P0344.050-I | 5 | 5.2 | 9.5 | 0.8 | 0.05 |
| P0344.060-I | 6 | 6.2 | 12.7 | 0.8 | 0.05 |
| P0344.100-I | 10 | 10.2 | 15.9 | 0.8 | 0.05 |
| P0344.100-O | 10 | 7.9 | 10.0 | 0.8 | 0.05 |
| P0344.130-O | 13 | 9.5 | 13.0 | 0.8 | 0.05 |



P0346



Material

Stainless steel (A2 AISI 303 or A4 AISI 316).

| Order No. | For | d ₁ | d ₂ | h ₁ | Material |
|--------------|-----|----------------|----------------|----------------|----------|
| P0346.030-A2 | M 3 | 3 | 9 | 2.0 | A2 s/s |
| P0346.040-A2 | M 4 | 4 | 11 | 2.5 | A2 s/s |
| P0346.050-A2 | M 5 | 5 | 14 | 3.0 | A2 s/s |
| P0346.060-A2 | M 6 | 6 | 16 | 3.5 | A2 s/s |
| P0346.080-A2 | M 8 | 8 | 22 | 4.5 | A2 s/s |
| P0346.100-A2 | M10 | 10 | 28 | 5.5 | A2 s/s |
| P0346.030-A4 | M 3 | 3 | 9 | 2.0 | A4 s/s |
| P0346.040-A4 | M 4 | 4 | 11 | 2.5 | A4 s/s |
| P0346.050-A4 | M 5 | 5 | 14 | 3.0 | A4 s/s |
| P0346.060-A4 | M 6 | 6 | 16 | 3.5 | A4 s/s |
| P0346.080-A4 | M 8 | 8 | 22 | 4.5 | A4 s/s |
| P0346.100-A4 | M10 | 10 | 28 | 5.5 | A4 s/s |