RFS HYDRAULICS
CREATING OPPORTUNITIES

# SQUARE FLANGES

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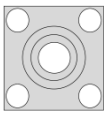
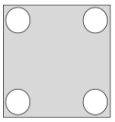
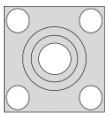
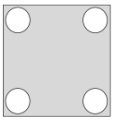
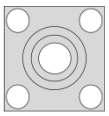
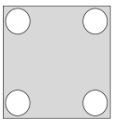
Weld in Square Flange (210 kgf/cm² SHA/SHB)  Page 3

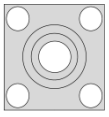
Blind Square Flange (210 kgf/cm² SHA/SHB)  Page 4

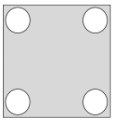
Weld in Square Flange (210 kgf/cm² SSA/SSB)  Page 5

Blind Square Flange (210 kgf/cm² SSA/SSB)  Page 6

Weld in Square Flange (280 kgf/cm² KA/KB)  Page 7

Blind Square Flange (280 kgf/cm² KA/KB)  Page 8

Weld in Square Flange (350 kgf/cm² KA/KB)  Page 9

Blind Square Flange (350 kgf/cm² KA/KB)  Page 10

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**Square Flanges**

**Specifications:**
JIS B2291 - Socket Welding Pipe Flanges to be used for Pressures of 210 kgf/cm²

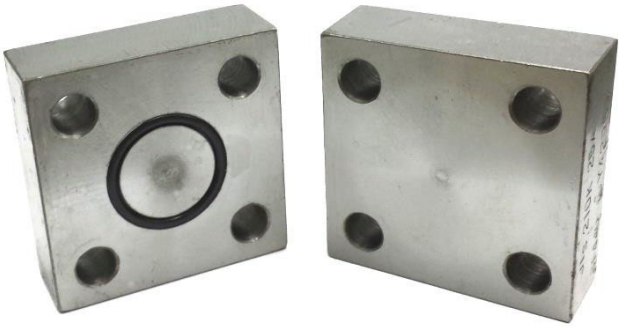
JIS F7806 - Socket Welding Pipe Flanges to be used for Pressures of 280 kgf/cm² and 350 kgf/cm²

SHAB

SSAB

**Material Specifications:**
SF440A Hydraulic Steel
SS316 Stainless Steel

**Size Range:**
SF440A Hydraulic Steel : 1/4" – 6"NB
SS316 Stainless Steel : 3/8" – 3"NB



Oring and Flat Square Blind Flange

**Working Pressure:**

| | |
|---|---|
| SHA/SHB | 210kgf/cm² |
| SSA/SSB | 210kgf/cm² |
| KA/KB | 280kgf/cm², 350kgf/cm² |
| LSA | 210kgf/cm² |

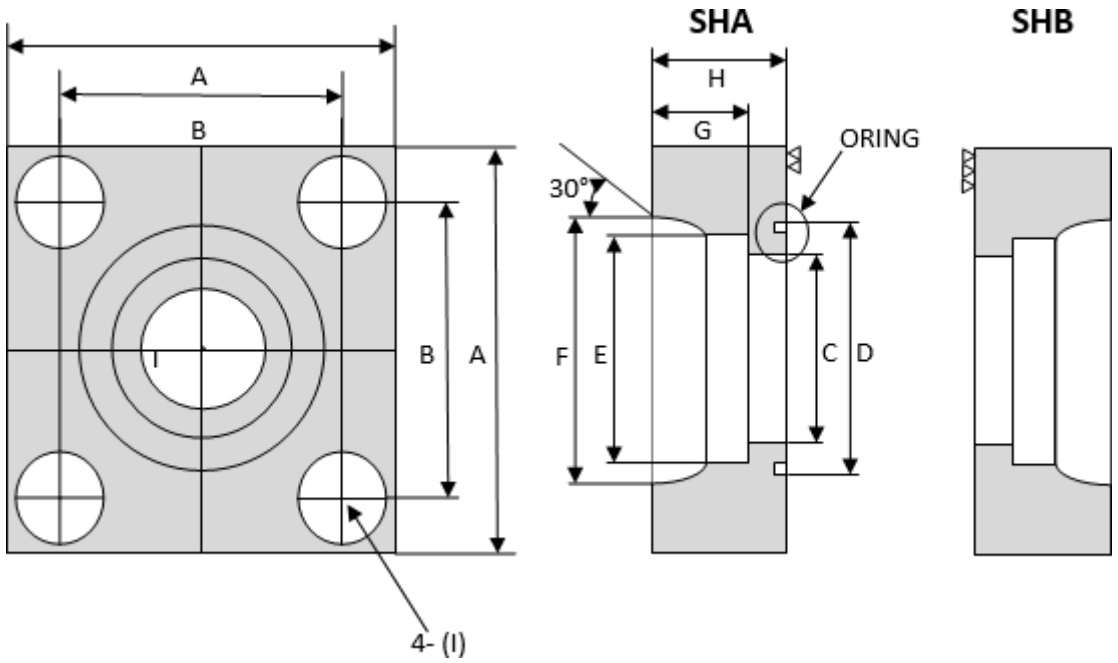
**Flange Series:**

| | |
|---|---|
| SHA/SHB | Square Flange using Hexagon Hex Bolts (Larger Flange Body) |
| SSA/SSB | Square Flange using Socket Cap Screws (Smaller Flange Body) |
| KA/KB | Square Flange using Hexagon Hex Bolts |
| LSA | Square Flange using Socket Cap Screws |

LSA Square Flange

**Flange Screws:**
Metric screws according to DIN 912-8.8 (Standard)

## WELD IN SQUARE FLANGES (210 KGF/CM² SHA/SHB)




### SHA/SHB (210 KGF/CM²)

| SIZE | ORING | PART NUMBER | DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 8 | G25 | FL-SQ-H-SHAB-04 | 63 | 40 | 8.0 | 30 | 14.3 | 24 | 11 | 22 | 11 | M10 x 55 | 1.30 KGS |
| 10 | G25 | FL-SQ-H-SHAB-06 | 63 | 40 | 11.5 | 30 | 17.8 | 28 | 11 | 22 | 11 | M10 x 55 | 1.30 KGS |
| 15 | G25 | FL-SQ-H-SHAB-08 | 63 | 40 | 16.0 | 30 | 22.2 | 32 | 11 | 22 | 11 | M10 x 55 | 1.40 KGS |
| 20 | G30 | FL-SQ-H-SHAB-12 | 68 | 45 | 20.0 | 35 | 27.7 | 38 | 12 | 22 | 11 | M10 x 55 | 1.50 KGS |
| 25 | G35 | FL-SQ-H-SHAB-16 | 80 | 53 | 25.0 | 40 | 34.5 | 45 | 14 | 28 | 13 | M12 x 70 | 2.60 KGS |
| 32 | G40 | FL-SQ-H-SHAB-20 | 90 | 63 | 31.5 | 45 | 43.2 | 56 | 16 | 28 | 13 | M12 x 70 | 3.15 KGS |
| 40 | G50 | FL-SQ-H-SHAB-24 | 100 | 70 | 37.5 | 55 | 49.1 | 63 | 18 | 36 | 18 | M16 x 90 | 5.10 KGS |
| 50 | G60 | FL-SQ-H-SHAB-32 | 112 | 80 | 47.5 | 65 | 61.1 | 75 | 20 | 36 | 18 | M16 x 90 | 5.90 KGS |
| 65 | G75 | FL-SQ-H-SHAB-40 | 140 | 100 | 60.0 | 80 | 77.1 | 95 | 22 | 45 | 22 | M20 x 110 | 11.40 KGS |
| 80 | G85 | FL-SQ-H-SHAB-48 | 155 | 112 | 71.0 | 90 | 90.0 | 108 | 25 | 45 | 24 | M22 x 120 | 14.10 KGS |
| 100 | G105 | FL-SQ-H-SHAB-64 | 190 | 140 | 87.3 | 110 | 115.4 | 135 | 28 | 60 | 27 | M24 x 140 | 25.50 KGS |
| 125 | G130 | FL-SQ-H-SHAB-80 | 230 | 168 | 120.8 | 135 | 141.2 | 164 | 30 | 65 | 32 | M30 x 170 | 41.00 KGS |
| 150 | G155 | FL-SQ-H-SHAB-96 | 270 | 195 | 128.8 | 165 | 166.9 | 193 | 35 | 80 | 39 | M36 x 190 | 68.50 KGS |

**Designation for Order:**

Double Flanges, SHAB
(Flat side & Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SHAB.. |
| SS316 | FL-SQ-S…SHAB.. |

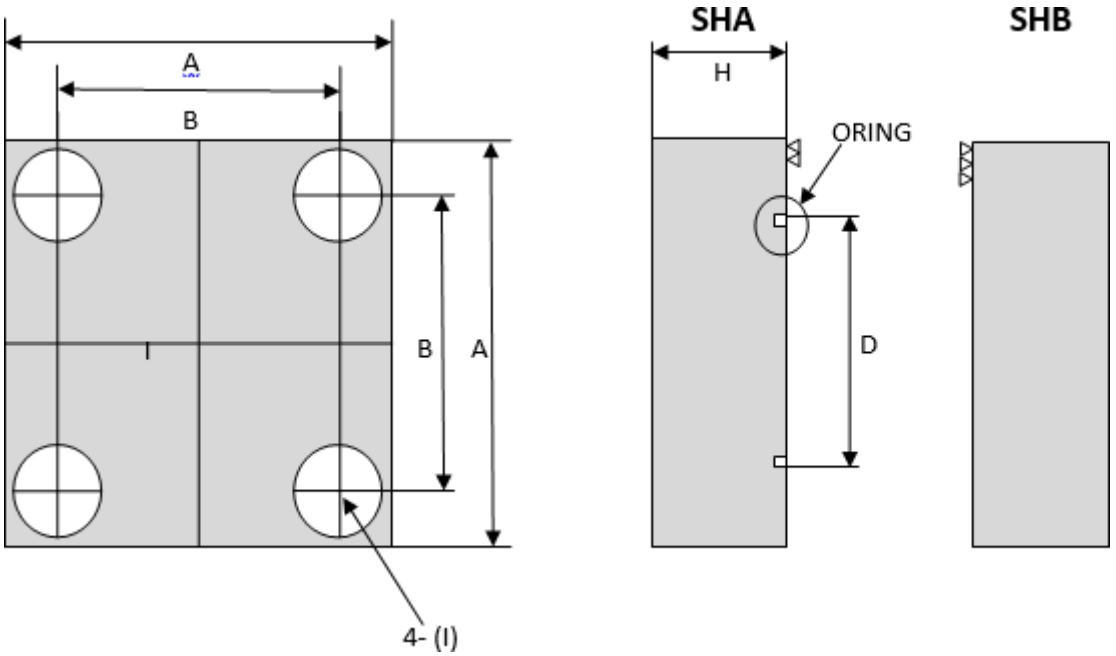
Counter-Flanges, SHA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SHA.. |
| SS316 | FL-SQ-S…SHA.. |

Flanges, SHB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…SHB.. |
| SS316 | FL-SQ-S…SHB.. |

## BLIND SQUARE FLANGES (210 KGF/CM² SHA/SHB)




### SHA/SHB (210 KGF/CM²)

| SIZE | ORING | PART NUMBER (ORING SIDE) | PART NUMBER (FLAT SIDE) | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | D | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 8 | G25 | FL-SQ-H-SHA-BL-04 | FL-SQ-H-SHB-BL-04 | 63 | 40 | 30 | 22 | 11 | M10 x 55 | 1.30 KGS |
| 10 | G25 | FL-SQ-H-SHA-BL-06 | FL-SQ-H-SHB-BL-06 | 63 | 40 | 30 | 22 | 11 | M10 x 55 | 1.30 KGS |
| 15 | G25 | FL-SQ-H-SHA-BL-08 | FL-SQ-H-SHB-BL-08 | 63 | 40 | 30 | 22 | 11 | M10 x 55 | 1.40 KGS |
| 20 | G30 | FL-SQ-H-SHA-BL-12 | FL-SQ-H-SHB-BL-12 | 68 | 45 | 35 | 22 | 11 | M10 x 55 | 1.50 KGS |
| 25 | G35 | FL-SQ-H-SHA-BL-16 | FL-SQ-H-SHB-BL-16 | 80 | 53 | 40 | 28 | 13 | M12 x 70 | 2.60 KGS |
| 32 | G40 | FL-SQ-H-SHA-BL-20 | FL-SQ-H-SHB-BL-20 | 90 | 63 | 45 | 28 | 13 | M12 x 70 | 3.15 KGS |
| 40 | G50 | FL-SQ-H-SHA-BL-24 | FL-SQ-H-SHB-BL-24 | 100 | 70 | 55 | 36 | 18 | M16 x 90 | 5.10 KGS |
| 50 | G60 | FL-SQ-H-SHA-BL-32 | FL-SQ-H-SHB-BL-32 | 112 | 80 | 65 | 36 | 18 | M16 x 90 | 5.90 KGS |
| 65 | G75 | FL-SQ-H-SHA-BL-40 | FL-SQ-H-SHB-BL-40 | 140 | 100 | 80 | 45 | 22 | M20 x 110 | 11.40 KGS |
| 80 | G85 | FL-SQ-H-SHA-BL-48 | FL-SQ-H-SHB-BL-48 | 155 | 112 | 90 | 45 | 24 | M22 x 120 | 14.10 KGS |
| 100 | G105 | FL-SQ-H-SHA-BL-64 | FL-SQ-H-SHB-BL-64 | 190 | 140 | 110 | 60 | 27 | M24 x 140 | 25.50 KGS |
| 125 | G130 | FL-SQ-H-SHA-BL-80 | FL-SQ-H-SHB-BL-80 | 230 | 168 | 135 | 65 | 32 | M30 x 170 | 41.00 KGS |
| 150 | G155 | FL-SQ-H-SHA-BL-96 | FL-SQ-H-SHB-BL-96 | 270 | 195 | 165 | 80 | 39 | M36 x 190 | 68.50 KGS |

**Designation for Order:**

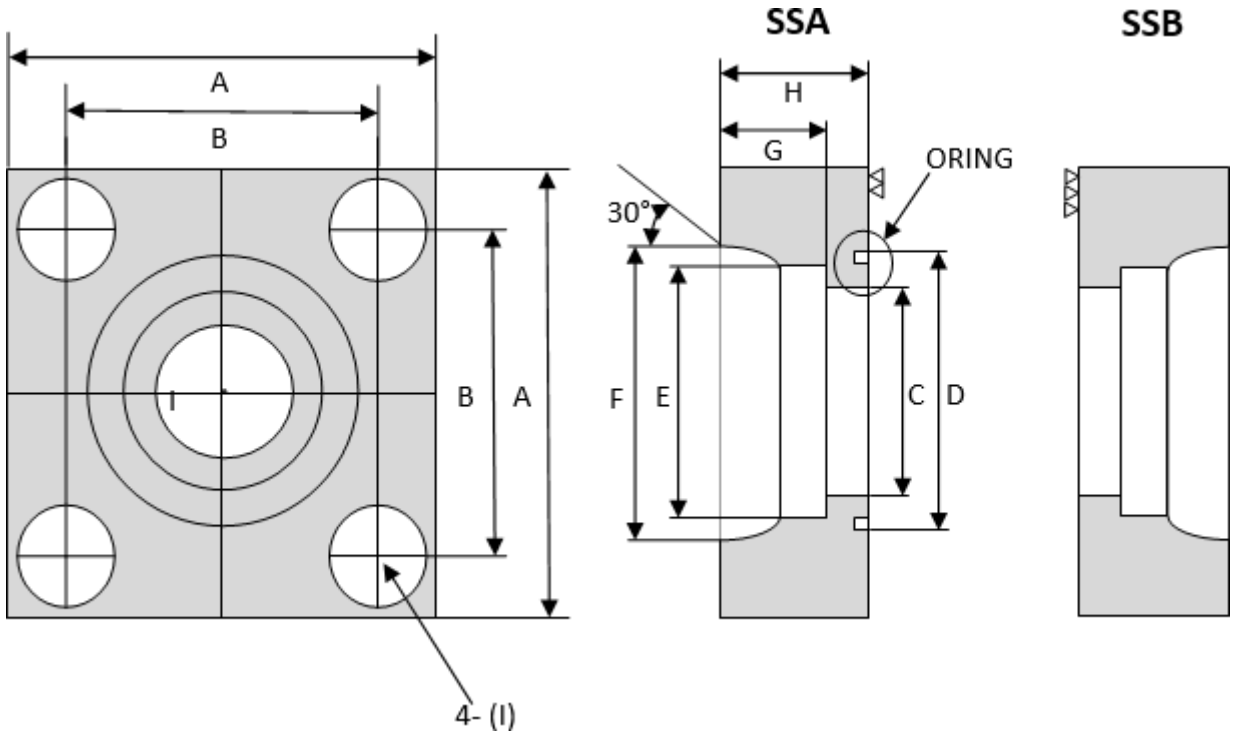
Counter-Flanges, SHA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SHA-BL.. |
| SS316 | FL-SQ-S…SHA-BL.. |

Flanges, SHB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…SHB-BL.. |
| SS316 | FL-SQ-S…SHB-BL.. |

## WELD IN SQUARE FLANGES (210 KGF/CM² SSA/SSB)




### SSA/SSB (210 KGF/CM²)

| SIZE | ORING | PART NUMBER | DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 10 | G25 | FL-SQ-H-SSAB-06 | 54 | 36 | 11.5 | 30 | 17.8 | 28 | 11 | 22 | 11 | M10 x 40 | 1.00 KGS |
| 15 | G25 | FL-SQ-H-SSAB-08 | 54 | 36 | 16.0 | 30 | 22.2 | 32 | 11 | 22 | 11 | M10 x 40 | 1.00 KGS |
| 20 | G30 | FL-SQ-H-SSAB-12 | 58 | 40 | 20.0 | 35 | 27.7 | 38 | 12 | 22 | 11 | M10 x 40 | 1.20 KGS |
| 25 | G35 | FL-SQ-H-SSAB-16 | 68 | 48 | 25.0 | 40 | 34.5 | 45 | 14 | 28 | 13 | M12 x 50 | 1.60 KGS |
| 32 | G40 | FL-SQ-H-SSAB-20 | 76 | 56 | 31.5 | 45 | 43.2 | 56 | 16 | 28 | 13 | M12 x 50 | 2.00 KGS |
| 40 | G50 | FL-SQ-H-SSAB-24 | 92 | 65 | 37.5 | 55 | 49.1 | 63 | 18 | 36 | 18 | M16 x 65 | 3.80 KGS |
| 50 | G60 | FL-SQ-H-SSAB-32 | 100 | 73 | 47.5 | 65 | 61.1 | 75 | 20 | 36 | 18 | M16 x 65 | 4.00 KGS |
| 65 | G75 | FL-SQ-H-SSAB-40 | 128 | 92 | 60.0 | 80 | 77.1 | 95 | 22 | 45 | 22 | M20 x 85 | 8.20 KGS |
| 80 | G85 | FL-SQ-H-SSAB-48 | 140 | 103 | 71.0 | 90 | 90.0 | 108 | 25 | 45 | 24 | M22 x 85 | 9.40 KGS |

**Designation for Order:**

Double Flanges, SSAB
(Flat side & Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SSAB.. |
| SS316 | FL-SQ-S…SSAB.. |

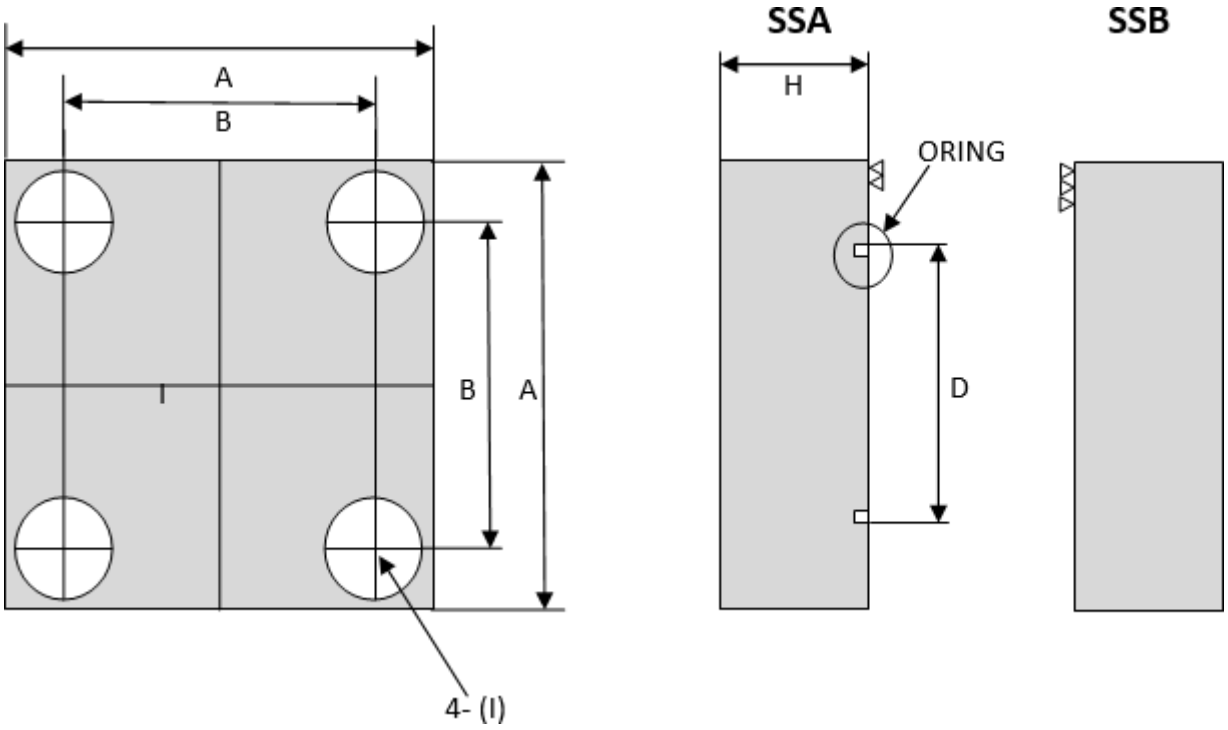
Counter-Flanges, SSA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SSA.. |
| SS316 | FL-SQ-S…SSA.. |

Flanges, SSB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…SSB.. |
| SS316 | FL-SQ-S…SSB.. |

## BLIND SQUARE FLANGES (210 KGF/CM² SSA/SSB)




### SSA/SSB (210 KGF/CM²)

| SIZE | ORING | PART NUMBER (ORING SIDE) | PART NUMBER (FLAT SIDE) | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | D | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 10 | G25 | FL-SQ-H-SSA-BL-06 | FL-SQ-H-SSB-BL-06 | 54 | 36 | 30 | 22 | 11 | M10 x 40 | 1.00 KGS |
| 15 | G25 | FL-SQ-H-SSA-BL-08 | FL-SQ-H-SSB-BL-08 | 54 | 36 | 30 | 22 | 11 | M10 x 40 | 1.00 KGS |
| 20 | G30 | FL-SQ-H-SSA-BL-12 | FL-SQ-H-SSB-BL-12 | 58 | 40 | 35 | 22 | 11 | M10 x 40 | 1.20 KGS |
| 25 | G35 | FL-SQ-H-SSA-BL-16 | FL-SQ-H-SSB-BL-16 | 68 | 48 | 40 | 28 | 13 | M12 x 50 | 1.60 KGS |
| 32 | G40 | FL-SQ-H-SSA-BL-20 | FL-SQ-H-SSB-BL-20 | 76 | 56 | 45 | 28 | 13 | M12 x 50 | 2.00 KGS |
| 40 | G50 | FL-SQ-H-SSA-BL-24 | FL-SQ-H-SSB-BL-24 | 92 | 65 | 55 | 36 | 18 | M16 x 65 | 3.80 KGS |
| 50 | G60 | FL-SQ-H-SSA-BL-32 | FL-SQ-H-SSB-BL-32 | 100 | 73 | 65 | 36 | 18 | M16 x 65 | 4.00 KGS |
| 65 | G75 | FL-SQ-H-SSA-BL-40 | FL-SQ-H-SSB-BL-40 | 128 | 92 | 80 | 45 | 22 | M20 x 85 | 8.20 KGS |
| 80 | G85 | FL-SQ-H-SSA-BL-48 | FL-SQ-H-SSB-BL-48 | 140 | 103 | 90 | 45 | 24 | M22 x 85 | 9.40 KGS |

**Designation for Order:**

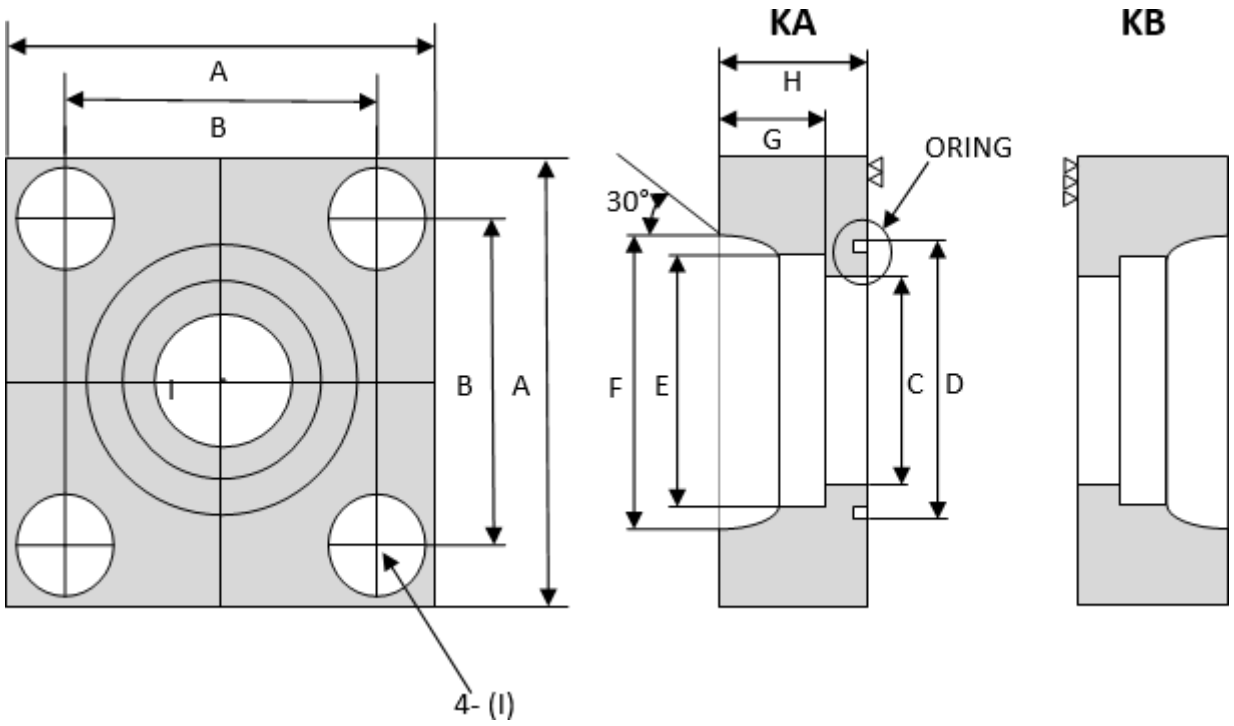
Counter-Flanges, SSA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…SSA-BL.. |
| SS316 | FL-SQ-S…SSA-BL.. |

Flanges, SSB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…SSB-BL.. |
| SS316 | FL-SQ-S…SSB-BL.. |

## WELD IN SQUARE FLANGES (280 KGF/CM² KA/KB)




### KA/KB (280 KGF/CM²)

| SIZE | ORING | PART NUMBER | DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 15 | P20 | FL-SQ-H-KAB-280-08 | 66 | 43 | 12.3 | 24 | 22.2 | 34 | 12 | 22 | 11.0 | M10 x 55 | 1.26 KGS |
| 20 | G25 | FL-SQ-H-KAB-280-12 | 72 | 48 | 16.2 | 30 | 27.7 | 40 | 12 | 25 | 11.0 | M10 x 70 | 1.70 KGS |
| 25 | G30 | FL-SQ-H-KAB-280-16 | 85 | 58 | 21.2 | 35 | 34.5 | 48 | 14 | 35 | 13.5 | M12 x 90 | 3.28 KGS |
| 32 | G40 | FL-SQ-H-KAB-280-20 | 98 | 68 | 29.9 | 45 | 43.2 | 60 | 18 | 35 | 17.5 | M16 x 90 | 4.06 KGS |
| 40 | G45 | FL-SQ-H-KAB-280-24 | 105 | 74 | 34.4 | 50 | 49.1 | 66 | 20 | 40 | 17.5 | M16 x 100 | 5.32 KGS |
| 50 | G55 | FL-SQ-H-KAB-280-32 | 130 | 90 | 43.1 | 60 | 61.1 | 79 | 20 | 50 | 22.0 | M20 x 120 | 10.28 KGS |
| 65 | G70 | FL-SQ-H-KAB-280-40 | 150 | 108 | 57.3 | 75 | 77.1 | 100 | 25 | 60 | 24.0 | M22 x 140 | 15.90 KGS |
| 80 | G80 | FL-SQ-H-KAB-280-48 | 170 | 120 | 66.9 | 85 | 90.0 | 114 | 25 | 65 | 26.0 | M24 x 160 | 22.00 KGS |

**Designation for Order:**

Double Flanges, KAB
(Flat side & Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…KAB.. |
| SS316 | FL-SQ-S…KAB.. |

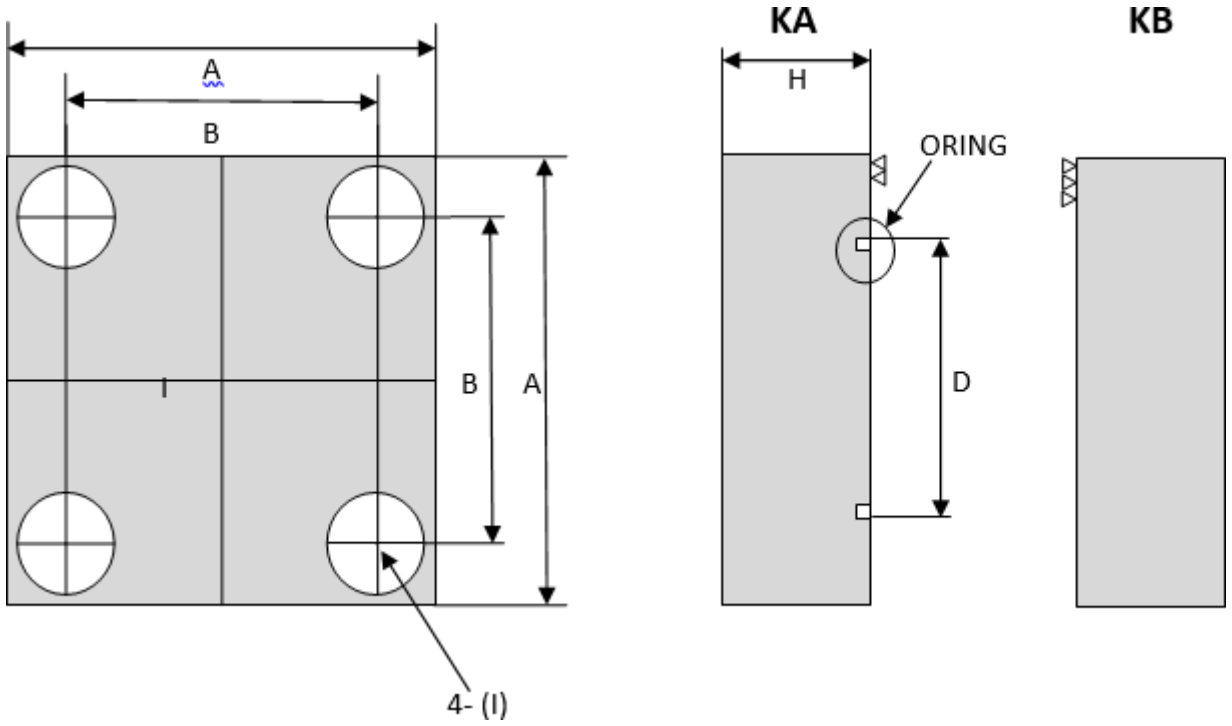
Counter-Flanges, KA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…KA.. |
| SS316 | FL-SQ-S…KA.. |

Flanges, KB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…KB.. |
| SS316 | FL-SQ-S…KB.. |

## BLIND SQUARE FLANGES (280 KGF/CM² KA/KB)




### KA/KB (280 KGF/CM²)

| SIZE | ORING | PART NUMBER (ORING SIDE) | PART NUMBER (FLAT SIDE) | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | D | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 15 | P20 | FL-SQ-H-KA-BL-280-08 | FL-SQ-H-KB-BL-280-08 | 66 | 43 | 24 | 22 | 11.0 | M10 x 55 | 1.26 KGS |
| 20 | G25 | FL-SQ-H-KA-BL-280-12 | FL-SQ-H-KB-BL-280-12 | 72 | 48 | 30 | 25 | 11.0 | M10 x 70 | 1.70 KGS |
| 25 | G30 | FL-SQ-H-KA-BL-280-16 | FL-SQ-H-KB-BL-280-16 | 85 | 58 | 35 | 35 | 13.5 | M12 x 90 | 3.28 KGS |
| 32 | G40 | FL-SQ-H-KA-BL-280-20 | FL-SQ-H-KB-BL-280-20 | 98 | 68 | 45 | 35 | 17.5 | M16 x 90 | 4.06 KGS |
| 40 | G45 | FL-SQ-H-KA-BL-280-24 | FL-SQ-H-KB-BL-280-24 | 105 | 74 | 50 | 40 | 17.5 | M16 x 100 | 5.32 KGS |
| 50 | G55 | FL-SQ-H-KA-BL-280-32 | FL-SQ-H-KB-BL-280-32 | 130 | 90 | 60 | 50 | 22.0 | M20 x 120 | 10.28 KGS |
| 65 | G70 | FL-SQ-H-KA-BL-280-40 | FL-SQ-H-KB-BL-280-40 | 150 | 108 | 75 | 60 | 24.0 | M22 x 140 | 15.90 KGS |
| 80 | G80 | FL-SQ-H-KA-BL-280-48 | FL-SQ-H-KB-BL-280-48 | 170 | 120 | 85 | 65 | 26.0 | M24 x 160 | 22.00 KGS |

**Designation for Order:**

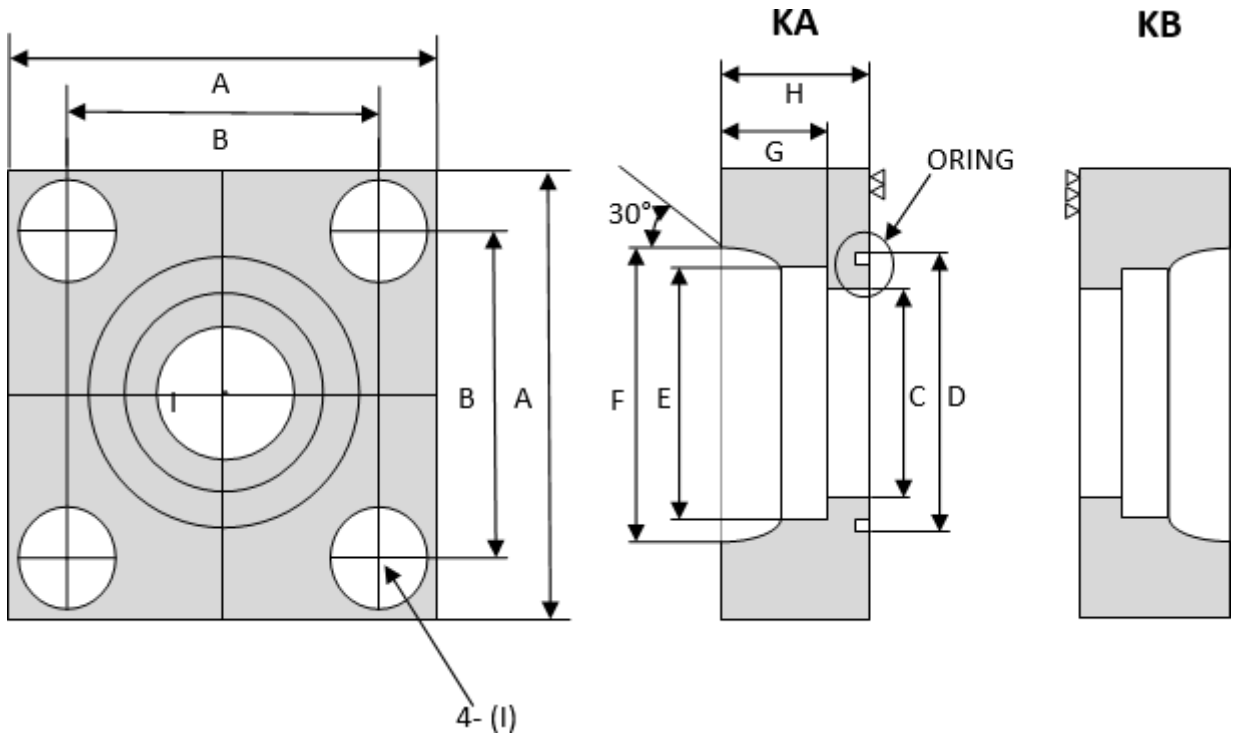
Counter-Flanges, KA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…KA-BL.. |
| SS316 | FL-SQ-S…KA-BL.. |

Flanges, KB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…KB-BL.. |
| SS316 | FL-SQ-S…KB-BL.. |

## WELD IN SQUARE FLANGES (350 KGF/CM² KA/KB)




### KAB (350 KGF/CM²)

| SIZE | ORING | PART NUMBER | DIMENSIONS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | E | F | G | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 15 | P20 | FL-SQ-H-KAB-350-08 | 68 | 45 | 12.3 | 24 | 22.2 | 37.5 | 12 | 28 | 11.0 | M10 x 70 | 1.76 KGS |
| 20 | G25 | FL-SQ-H-KAB-350-12 | 82 | 55 | 16.2 | 30 | 27.7 | 43.5 | 12 | 30 | 13.5 | M12 x 80 | 2.68 KGS |
| 25 | G30 | FL-SQ-H-KAB-350-16 | 95 | 65 | 21.2 | 35 | 34.5 | 53.0 | 14 | 35 | 17.5 | M16 x 90 | 4.04 KGS |
| 32 | G35 | FL-SQ-H-KAB-350-20 | 100 | 70 | 23.3 | 40 | 43.2 | 63.0 | 18 | 35 | 17.5 | M16 x 90 | 4.32 KGS |
| 40 | G40 | FL-SQ-H-KAB-350-24 | 105 | 75 | 28.2 | 45 | 49.1 | 70.0 | 20 | 42 | 17.5 | M16 x 100 | 5.68 KGS |
| 50 | G50 | FL-SQ-H-KAB-350-32 | 132 | 92 | 38.3 | 55 | 61.1 | 84.0 | 25 | 50 | 22.0 | M20 x 120 | 10.60 KGS |
| 65 | G60 | FL-SQ-H-KAB-350-40 | 160 | 112 | 48.3 | 65 | 77.1 | 105.0 | 30 | 60 | 26.0 | M24 x 160 | 19.84 KGS |
| 80 | G70 | FL-SQ-H-KAB-350-48 | 190 | 130 | 58.7 | 75 | 90.0 | 120.0 | 30 | 68 | 33.0 | M30 x 170 | 29.60 KGS |

**Designation for Order:**

Double Flanges, KAB
(Flat side & Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…KAB.. |
| SS316 | FL-SQ-S…KAB.. |

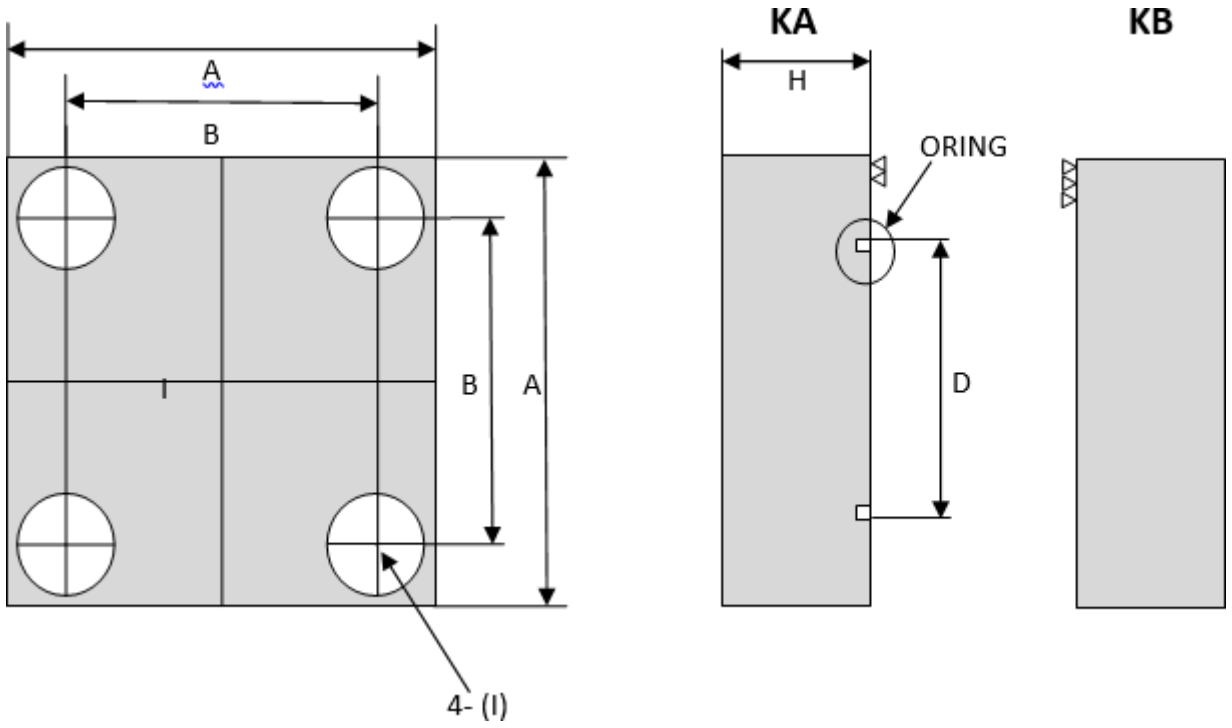
Counter-Flanges, KA
(Oring side)

| | |
|---|---|
| SF440A | FL-SQ-H…KA.. |
| SS316 | FL-SQ-S…KA.. |

Flanges, KB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…KB.. |
| SS316 | FL-SQ-S…KB.. |

## BLIND SQUARE FLANGES (350 KGF/CM² KA/KB)




### KA/KB (350 KGF/CM²)

| SIZE | ORING | PART NUMBER (ORING SIDE) | PART NUMBER (FLAT SIDE) | DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | D | H | I | BOLT LENGTH (MINIMUM) | WEIGHT |
| 15 | P20 | FL-SQ-H-KA-BL-350-08 | FL-SQ-H-KB-BL-350-08 | 68 | 45 | 24 | 28 | 11.0 | M10 x 70 | 1.76 KGS |
| 20 | G25 | FL-SQ-H-KA-BL-350-12 | FL-SQ-H-KB-BL-350-12 | 82 | 55 | 30 | 30 | 13.5 | M12 x 80 | 2.68 KGS |
| 25 | G30 | FL-SQ-H-KA-BL-350-16 | FL-SQ-H-KB-BL-350-16 | 95 | 65 | 35 | 35 | 17.5 | M16 x 90 | 4.04 KGS |
| 32 | G35 | FL-SQ-H-KA-BL-350-20 | FL-SQ-H-KB-BL-350-20 | 100 | 70 | 40 | 35 | 17.5 | M16 x 90 | 4.32 KGS |
| 40 | G40 | FL-SQ-H-KA-BL-350-24 | FL-SQ-H-KB-BL-350-24 | 105 | 75 | 45 | 42 | 17.5 | M16 x 100 | 5.68 KGS |
| 50 | G50 | FL-SQ-H-KA-BL-350-32 | FL-SQ-H-KB-BL-350-32 | 132 | 92 | 55 | 50 | 22.0 | M20 x 120 | 10.60 KGS |
| 65 | G60 | FL-SQ-H-KA-BL-350-40 | FL-SQ-H-KB-BL-350-40 | 160 | 112 | 65 | 60 | 26.0 | M24 x 160 | 19.84 KGS |
| 80 | G70 | FL-SQ-H-KA-BL-350-48 | FL-SQ-H-KB-BL-350-48 | 190 | 130 | 75 | 68 | 33.0 | M30 x 170 | 29.60 KGS |

**Designation for Order:**

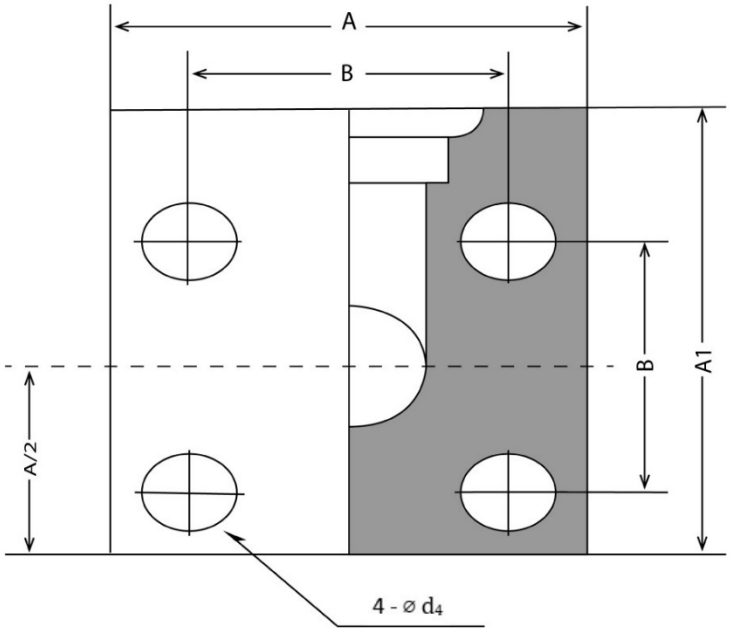
Counter-Flanges, KA
(Oring side)

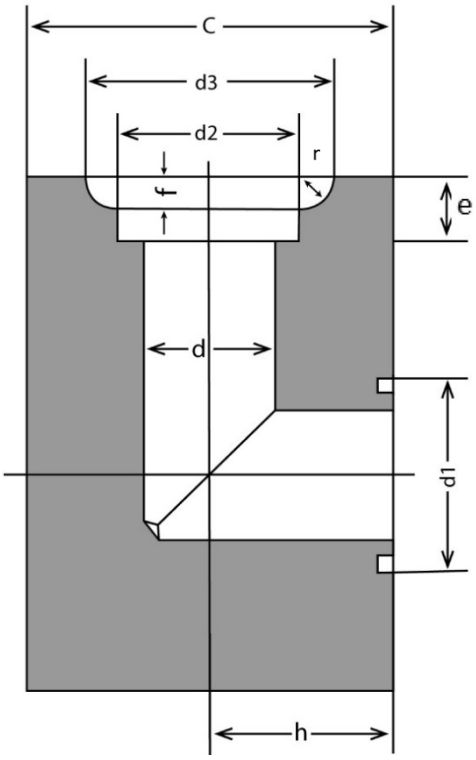
| | |
|---|---|
| SF440A | FL-SQ-H…KA-BL.. |
| SS316 | FL-SQ-S…KA-BL.. |

Flanges, KB
(Flat side)

| | |
|---|---|
| SF440A | FL-SQ-H…KB-BL.. |
| SS316 | FL-SQ-S…KB-BL.. |

## LSA SQUARE FLANGE 210KGF/CM²




## LSA (210KGF/CM²)

| SIZE | ORING | PART NUMBER | DIMENSIONS | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | A1 | B | C | h | d | d1 | d2 | e | d3 | d4 | f | r | BOLT LENGTH (MINIMUM) | WEIGHT |
| 15 | 15A | FL -SQ-H-LSA-0-08 | 54 | 63 | 36 | 40 | 20 | 16 | 30 | 22.2 | 11 | 32 | 11 | 3.5 | 5 | M10 x 55 | 0.85 KGS |
| 20 | 20A | FL -SQ-H-LSA-0-12 | 58 | 70 | 40 | 45 | 22.5 | 20 | 35 | 27.7 | 12 | 38 | 11 | 4 | 5 | M10 x 60 | 1.11 KGS |
| 25 | 25A | FL -SQ-H-LSA-0-16 | 68 | 82 | 48 | 50 | 25 | 25 | 40 | 34.5 | 14 | 45 | 13 | 4 | 5 | M12 x 70 | 1.64 KGS |
| 32 | 32A | FL -SQ-H-LSA-0-20 | 76 | 92 | 56 | 63 | 31.5 | 31.5 | 45 | 43.2 | 16 | 56 | 13 | 6 | 5 | M12 x 85 | 2.56 KGS |
| 40 | 40A | FL -SQ-H-LSA-0-24 | 92 | 110 | 65 | 71 | 35.5 | 37.5 | 55 | 49.1 | 18 | 63 | 18 | 7 | 5 | M16 x 100 | 4.11 KGS |
| 50 | 50A | FL -SQ-H-LSA-0-32 | 100 | 125 | 73 | 85 | 42.5 | 47.5 | 65 | 61.1 | 20 | 75 | 18 | 7 | 5 | M16 x 115 | 5.93 KGS |
| 65 | 65A | FL -SQ-H-LSA-0-40 | 128 | 150 | 92 | 106 | 53 | 60 | 80 | 77.1 | 22 | 95 | 22 | 9.5 | 6 | M20 x 145 | 11.42 KGS |
| 80 | 80A | FL -SQ-H-LSA-0-48 | 140 | 170 | 103 | 118 | 59 | 71 | 90 | 90 | 25 | 108 | 24 | 11 | 6 | M22 x 160 | 15.25 KGS |

**Designation for Order:**

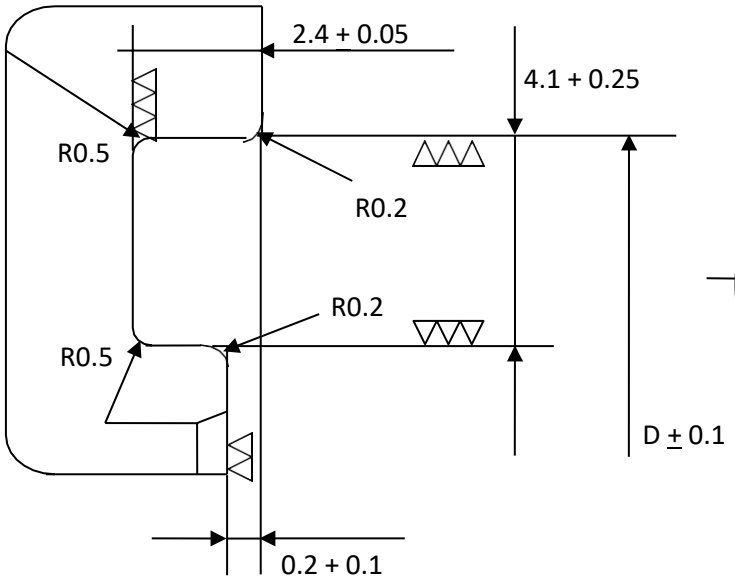
Flanges,

(Oring-side)

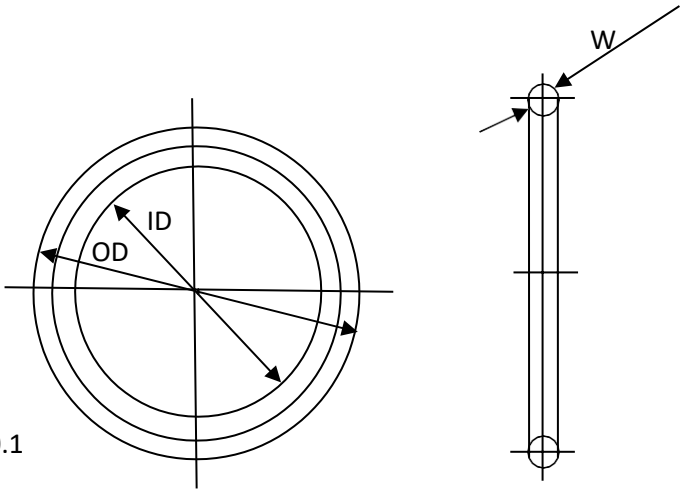
| | |
|---|---|
| SF440A | FL -SQ-H-LSA-0… |

## ORING GROOVE & ORING DIMENSION FOR 210 KGF/CM² SQUARE FLANGES

### ORING GROOVE




### ORING

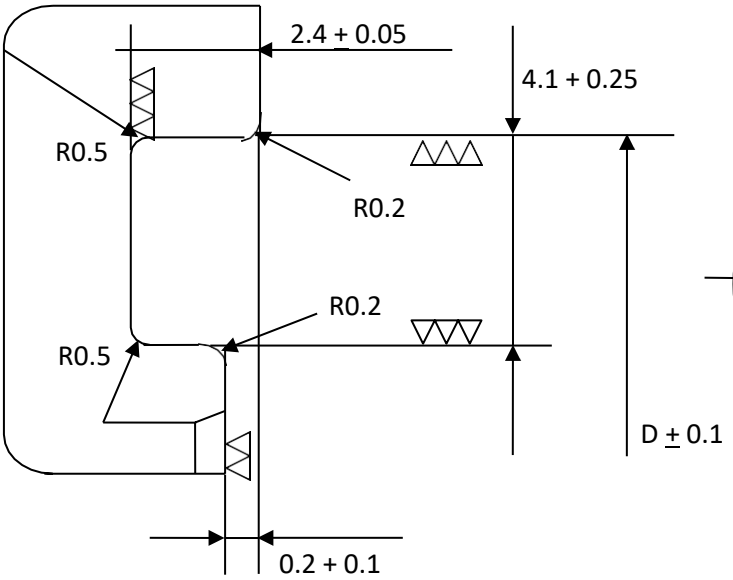



### SHAB & SSAB (210 KGF/CM²) ORING DIMENSION

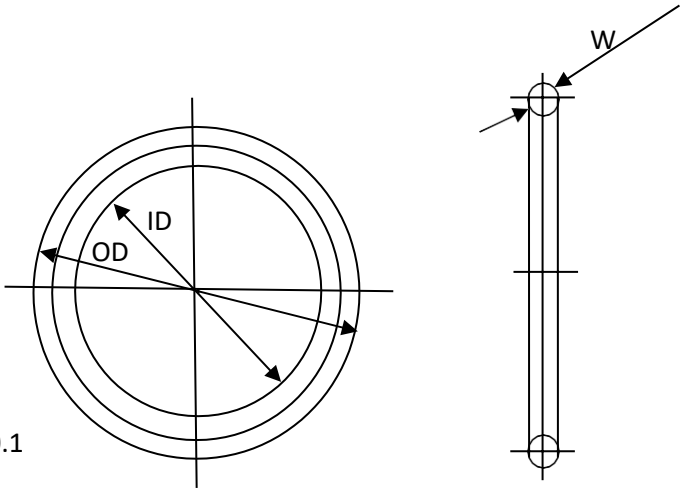
| SIZE | INCH | PART NUMBER | DIMENSIONS | | |
|---|---|---|---|---|---|
| | | | OD | ID | W |
| 8 | 1/4" | G25 | 30.60 | 24.40 | 3.1 |
| 10 | 3/8" | G25 | 30.60 | 24.40 | 3.1 |
| 15 | 1/2" | G25 | 30.60 | 24.40 | 3.1 |
| 20 | 3/4" | G30 | 35.60 | 29.40 | 3.1 |
| 25 | 1" | G35 | 40.60 | 34.40 | 3.1 |
| 32 | 1 1/4" | G40 | 45.60 | 39.40 | 3.1 |
| 40 | 1 1/2" | G50 | 55.60 | 49.40 | 3.1 |
| 50 | 2" | G60 | 65.60 | 59.40 | 3.1 |
| 65 | 2 1/2" | G75 | 80.60 | 74.40 | 3.1 |
| 80 | 3" | G85 | 90.60 | 84.40 | 3.1 |
| 100 | 4" | G105 | 110.60 | 104.40 | 3.1 |
| 125 | 5" | G130 | 135.60 | 129.40 | 3.1 |
| 150 | 6" | G155 | 165.70 | 154.30 | 5.7 |

## ORING GROOVE & ORING DIMENSION FOR 280 KGF/CM², 350 KGF/CM² SQUARE FLANGES

### ORING GROOVE




### ORING




### KAB (280 KGF/CM²) ORING DIMENSION

| SIZE | INCH | PART NUMBER | DIMENSIONS | | |
|---|---|---|---|---|---|
| | | | OD | ID | W |
| 15 | 1/2" | P20 | 24.60 | 19.80 | 2.40 |
| 20 | 3/4" | G25 | 30.60 | 24.40 | 3.10 |
| 25 | 1" | G30 | 35.60 | 29.40 | 3.10 |
| 32 | 1 1/4" | G40 | 45.60 | 39.40 | 3.10 |
| 40 | 1 1/2" | G45 | 50.60 | 44.40 | 3.10 |
| 50 | 2" | G55 | 60.60 | 54.40 | 3.10 |
| 65 | 2 1/2" | G70 | 75.60 | 69.40 | 3.10 |
| 80 | 3" | G80 | 85.60 | 79.40 | 3.10 |

### KAB (350 KGF/CM²) ORING DIMENSION

| SIZE | INCH | PART NUMBER | DIMENSIONS | | |
|---|---|---|---|---|---|
| | | | OD | ID | W |
| 15 | 1/2" | P20 | 24.60 | 19.80 | 2.40 |
| 20 | 3/4" | G25 | 30.60 | 24.40 | 3.10 |
| 25 | 1" | G30 | 35.60 | 29.40 | 3.10 |
| 32 | 1 1/4" | G35 | 40.60 | 34.40 | 3.10 |
| 40 | 1 1/2" | G40 | 45.60 | 39.40 | 3.10 |
| 50 | 2" | G50 | 55.60 | 49.40 | 3.10 |
| 65 | 2 1/2" | G60 | 65.60 | 59.40 | 3.10 |
| 80 | 3" | G70 | 75.60 | 69.40 | 3.10 |

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