

# HIGH PRESSURE - adapters

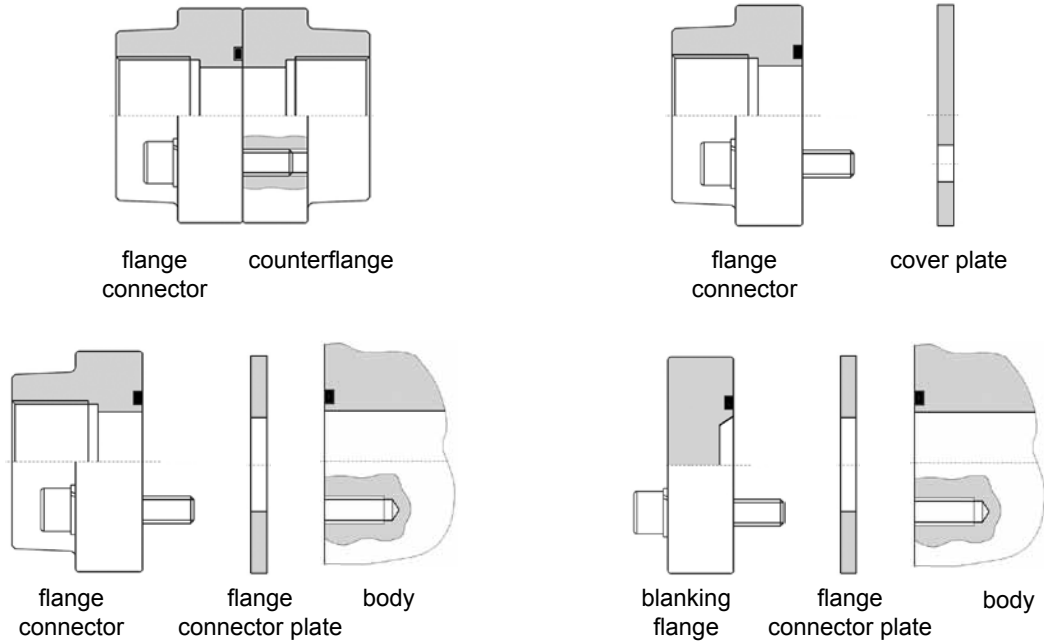
## SAE flange connectors

**Material:** Zinc-plated steel (standard), AISI 316L steel (option)

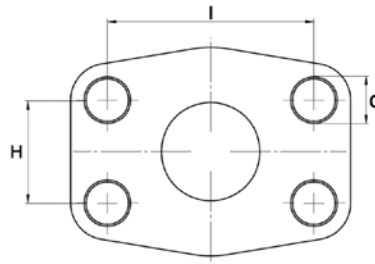
**Working temp.:** From -20°C up to +100°C (NBR seal), from -20°C up to +200°C (Viton seal)

Compact SAE flange connectors, available in two types - threaded (metric or imperial BSP) or butt weld. Equipped with a set of bolts and O-ring seal (not applicable to counterflanges).

### Examples of flange connections



### Basic dimensions of SAE flange

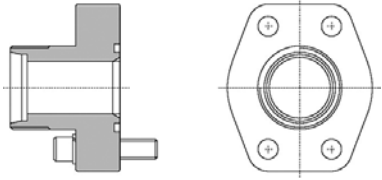


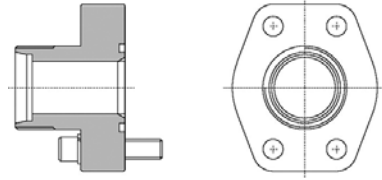
| SAE 3000                |                  |                  |                        |                |
|-------------------------|------------------|------------------|------------------------|----------------|
| flange dimension [inch] | dimension I [mm] | dimension H [mm] | bolt hole diam. C [mm] | bolt size [mm] |
| 1/2                     | 38.1             | 17.5             | 9                      | M8             |
| 3/4                     | 47.6             | 22.3             | 11                     | M10            |
| 1                       | 52.4             | 26.2             |                        |                |
| 1.1/4                   | 58.7             | 30.2             | 11.5                   | M12            |
| 1.1/2                   | 69.9             | 35.7             |                        |                |
| 2                       | 77.8             | 42.9             | 13.5                   | M12            |
| 2.1/2                   | 88.9             | 50.8             |                        |                |
| 3                       | 106.4            | 61.9             | 17                     | M16            |
| 3.1/2                   | 120.7            | 69.9             |                        |                |
| 4                       | 130.2            | 77.8             |                        |                |
| 5                       | 152.4            | 92.1             |                        |                |

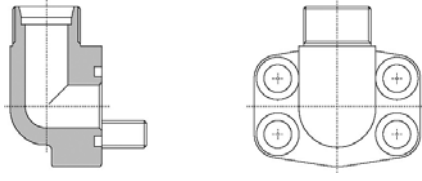
| SAE 6000                |                  |                  |                        |                |
|-------------------------|------------------|------------------|------------------------|----------------|
| flange dimension [inch] | dimension I [mm] | dimension H [mm] | bolt hole diam. C [mm] | bolt size [mm] |
| 1/2                     | 40.5             | 18.2             | 9                      | M8             |
| 3/4                     | 50.8             | 23.8             | 11                     | M10            |
| 1                       | 57.2             | 27.8             | 13                     | M12            |
| 1.1/4                   | 66.6             | 31.8             | 15                     | M14            |
| 1.1/2                   | 79.3             | 36.5             | 17                     | M16            |
| 2                       | 96.8             | 44.5             | 21                     | M20            |
| 2.1/2                   | 123.8            | 58.7             | 25                     | M24            |
| 3                       | 152.4            | 71.4             | 32                     | M30            |

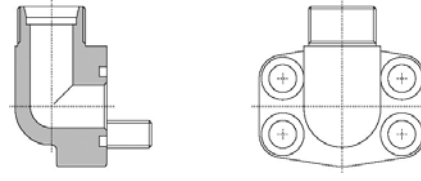
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE flange connector 3000 / DIN 2353  |                |                         |                |                  |                |       |
|---|----------------|-------------------------|----------------|------------------|----------------|-------|
|  |                |                         |                |                  |                |       |
| press. [bar]  | code           | flange dimension [inch] | pipe O.D. [mm] | thread size [mm] | bolt size [mm] |       |
| 348   | HK-C3-M-08-12S | 1/2                     | 12             | 20x1.5           | 4xM8           |       |
|   | HK-C3-M-08-15L |                         | 15             | 22x1.5           |                |       |
|   | HK-C3-M-08-16S |                         | 16             | 24x1.5           |                |       |
|   | 348            | HK-C3-M-12-16S          | 3/4            | 16               | 24x1.5         | 4xM10 |
|   |                | HK-C3-M-12-20S          |                | 20               | 30x2           |       |
|   |                | HK-C3-M-12-22L          | 22             | 30x2             |                |       |
|   |                | HK-C3-M-16-20S          | 1              | 20               | 30x2           |       |
|   | HK-C3-M-16-25S | 25                      |                | 36x2             |                |       |
| 278   | HK-C3-M-16-28L | 1.1/4                   | 28             | 36x2             | 4xM12          |       |
|   | HK-C3-M-20-25S |                         | 25             | 36x2             |                |       |
|   | HK-C3-M-20-30S |                         | 30             | 42x2             |                |       |
| 210   | HK-C3-M-20-35L | 1.1/2                   | 35             | 45x2             | 4xM12          |       |
|   | HK-C3-M-24-35L |                         | 35             | 45x2             |                |       |
|   | HK-C3-M-24-38S | 38                      | 52x2           |                  |                |       |
|   | HK-C3-M-24-42L | 2                       | 42             | 52x2             |                |       |
|   | HK-C3-M-32-38S |                         | 38             | 52x2             |                |       |
|   | HK-C3-M-32-42L | 42                      | 52x2           |                  |                |       |

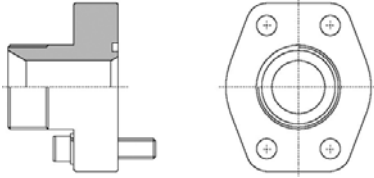
| SAE flange connector 6000 / DIN 2353   |                |                         |                |                  |                |       |       |
|--|----------------|-------------------------|----------------|------------------|----------------|-------|-------|
|  |                |                         |                |                  |                |       |       |
| press. [bar]   | code           | flange dimension [inch] | pipe O.D. [mm] | thread size [mm] | bolt size [mm] |       |       |
| 420  | HK-C6-M-08-12S | 1/2                     | 12             | 20x1.5           | 4xM8           |       |       |
|  | HK-C6-M-08-14S |                         | 14             | 22x1.5           |                |       |       |
|  | HK-C6-M-08-16S |                         | 16             | 24x1.5           |                |       |       |
|  | 420            | HK-C6-M-12-16S          | 3/4            | 16               | 24x1.5         | 4xM10 |       |
|  |                | HK-C6-M-12-20S          |                | 20               | 30x2           |       |       |
|  |                | HK-C6-M-12-22L          | 22             | 30x2             |                |       |       |
| HK-C6-M-16-20S   |                | 1                       | 20             | 30x2             |                |       |       |
| HK-C6-M-16-25S   | 25             |                         | 36x2           |                  |                |       |       |
| 420  | HK-C6-M-16-28L | 1.1/4                   | 28             | 36x2             | 4xM14          |       |       |
|  | HK-C6-M-20-25S |                         | 25             | 36x2             |                |       |       |
|  | HK-C6-M-20-30S |                         | 30             | 42x2             |                |       |       |
|  | 420            | HK-C6-M-20-35L          | 1.1/2          | 35               |                | 45x2  | 4xM16 |
|  |                | HK-C6-M-24-30S          |                | 30               |                | 45x2  |       |
|  |                | HK-C6-M-24-38S          |                | 38               |                | 52x2  |       |
| HK-C6-M-24-42L   | 42             | 52x2                    |                |                  |                |       |       |

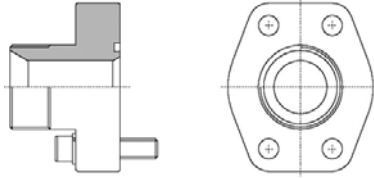
| SAE 3000 90° flange connector / DIN 2353  |                   |                         |                |                  |                |       |
|---|-------------------|-------------------------|----------------|------------------|----------------|-------|
|  |                   |                         |                |                  |                |       |
| press. [bar]  | code              | flange dimension [inch] | pipe O.D. [mm] | thread size [mm] | bolt size [mm] |       |
| 348   | HK-C3-M-90-08-12S | 1/2                     | 12             | 20x1.5           | 4xM8           |       |
|   | HK-C3-M-90-08-15L |                         | 15             | 22x1.5           |                |       |
|   | HK-C3-M-90-08-16S |                         | 16             | 24x1.5           |                |       |
|   | 348               | HK-C3-M-90-12-16S       | 3/4            | 16               | 24x1.5         | 4xM10 |
|   |                   | HK-C3-M-90-12-20S       |                | 20               | 30x2           |       |
|   |                   | HK-C3-M-90-12-22L       | 22             | 30x2             |                |       |
|   |                   | HK-C3-M-90-16-20S       | 1              | 20               | 30x2           |       |
|   | HK-C3-M-90-16-25S | 25                      |                | 36x2             |                |       |
| 278   | HK-C3-M-90-16-28L | 1.1/4                   | 28             | 36x2             | 4xM12          |       |
|   | HK-C3-M-90-20-25S |                         | 25             | 36x2             |                |       |
|   | HK-C3-M-90-20-30S |                         | 30             | 42x2             |                |       |
| 210   | HK-C3-M-90-20-35L | 1.1/2                   | 35             | 45x2             | 4xM12          |       |
|   | HK-C3-M-90-24-35L |                         | 35             | 45x2             |                |       |
|   | HK-C3-M-90-24-38S |                         | 38             | 52x2             |                |       |
| HK-C3-M-90-24-42L   | 42                | 52x2                    |                |                  |                |       |

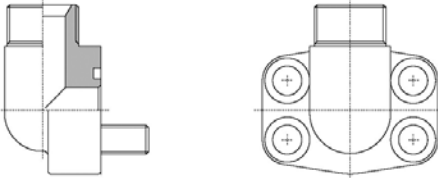
| SAE 6000 90° flange connector / DIN 2353   |                   |                         |                |                  |                |       |       |
|--|-------------------|-------------------------|----------------|------------------|----------------|-------|-------|
|  |                   |                         |                |                  |                |       |       |
| press. [bar]   | code              | flange dimension [inch] | pipe O.D. [mm] | thread size [mm] | bolt size [mm] |       |       |
| 420  | HK-C6-M-90-08-12S | 1/2                     | 12             | 20x1.5           | 4xM8           |       |       |
|  | HK-C6-M-90-08-14S |                         | 14             | 22x1.5           |                |       |       |
|  | HK-C6-M-90-08-16S |                         | 16             | 24x1.5           |                |       |       |
|  | 420               | HK-C6-M-90-12-16S       | 3/4            | 16               | 24x1.5         | 4xM10 |       |
|  |                   | HK-C6-M-90-12-20S       |                | 20               | 30x2           |       |       |
|  |                   | HK-C6-M-90-12-22L       | 22             | 30x2             |                |       |       |
| HK-C6-M-90-16-20S  |                   | 1                       | 20             | 30x2             |                |       |       |
| HK-C6-M-90-16-25S  | 25                |                         | 36x2           |                  |                |       |       |
| 420  | HK-C6-M-90-16-28L | 1.1/4                   | 28             | 36x2             | 4xM14          |       |       |
|  | HK-C6-M-90-20-25S |                         | 25             | 36x2             |                |       |       |
|  | HK-C6-M-90-20-30S |                         | 30             | 42x2             |                |       |       |
|  | 420               | HK-C6-M-90-20-35L       | 1.1/2          | 35               |                | 45x2  | 4xM16 |
|  |                   | HK-C6-M-90-24-30S       |                | 30               |                | 42x2  |       |
|  |                   | HK-C6-M-90-24-38S       |                | 38               |                | 52x2  |       |
| HK-C6-M-90-24-42L  | 42                | 52x2                    |                |                  |                |       |       |

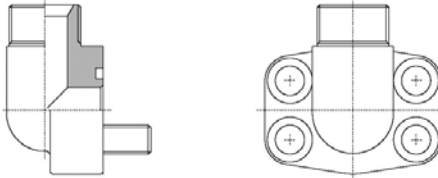
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 flange connector / BSP male thread 60°                                   |               |                         |                    |                |
|---|---------------|-------------------------|--------------------|----------------|
|  |               |                         |                    |                |
| press. [bar]  | code          | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 348   | HK-C3-B-08-06 | 1/2                     | 3/8                | 4xM8           |
|   | HK-C3-B-08-08 |                         | 1/2                |                |
|   | HK-C3-B-08-12 |                         | 3/4                |                |
|   | HK-C3-B-12-08 | 3/4                     | 1/2                | 4xM10          |
|   | HK-C3-B-12-12 |                         | 3/4                |                |
|   | HK-C3-B-12-16 |                         | 1                  |                |
|   | HK-C3-B-16-12 | 1                       | 3/4                | 4xM10          |
|   | HK-C3-B-16-16 |                         | 1                  |                |
| HK-C3-B-16-20   | 1.1/4         |                         |                    |                |
| 278   | HK-C3-B-20-16 | 1.1/4                   | 1                  | 4xM12          |
|   | HK-C3-B-20-20 |                         | 1.1/4              |                |
|   | HK-C3-B-20-24 |                         | 1.1/2              |                |
| 210   | HK-C3-B-24-20 | 1.1/2                   | 1.1/4              | 4xM12          |
|   | HK-C3-B-24-24 |                         | 1.1/2              |                |
|   | HK-C3-B-24-32 | 2                       | 2                  |                |
|   | HK-C3-B-32-24 |                         | 1.1/2              |                |
|   | HK-C3-B-32-32 |                         | 2                  |                |

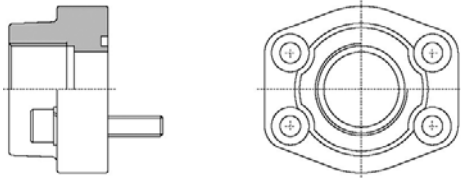
| SAE 6000 flange connector / BSP male thread 60°                                    |               |                         |                    |                |
|--|---------------|-------------------------|--------------------|----------------|
|  |               |                         |                    |                |
| press. [bar]   | code          | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 420  | HK-C6-B-08-06 | 1/2                     | 3/8                | 4xM8           |
|  | HK-C6-B-08-08 |                         | 1/2                |                |
|  | HK-C6-B-08-12 |                         | 3/4                |                |
|  | HK-C6-B-12-08 | 3/4                     | 1/2                | 4xM10          |
|  | HK-C6-B-12-12 |                         | 3/4                |                |
|  | HK-C6-B-12-16 |                         | 1                  |                |
| HK-C6-B-16-12  | 1             | 3/4                     | 4xM12              |                |
| HK-C6-B-16-16  |               | 1                       |                    |                |
| HK-C6-B-16-20  |               | 1.1/4                   |                    |                |
| 420  | HK-C6-B-20-16 | 1.1/4                   | 1                  | 4xM14          |
|  | HK-C6-B-20-20 |                         | 1.1/4              |                |
|  | HK-C6-B-20-24 |                         | 1.1/2              |                |
|  | HK-C6-B-24-20 |                         | 1.1/4              |                |
| 420  | HK-C6-B-24-24 | 1.1/2                   | 1.1/4              | 4xM16          |
|  | HK-C6-B-24-24 |                         | 1.1/2              |                |

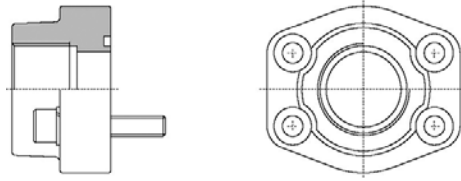
| SAE 3000 90° flange connector / BSP male thread 60°                                 |                  |                         |                    |                |
|---|------------------|-------------------------|--------------------|----------------|
|  |                  |                         |                    |                |
| press. [bar]  | code             | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 348   | HK-C3-B-90-08-06 | 1/2                     | 3/8                | 4xM8           |
|   | HK-C3-B-90-08-08 |                         | 1/2                |                |
|   | HK-C3-B-90-08-12 |                         | 3/4                |                |
|   | HK-C3-B-90-12-08 | 3/4                     | 1/2                | 4xM10          |
|   | HK-C3-B-90-12-12 |                         | 3/4                |                |
|   | HK-C3-B-90-12-16 |                         | 1                  |                |
|   | HK-C3-B-90-16-12 | 1                       | 3/4                | 4xM10          |
|   | HK-C3-B-90-16-16 |                         | 1                  |                |
| HK-C3-B-90-16-20  | 1.1/4            |                         |                    |                |
| 278   | HK-C3-B-90-20-16 | 1.1/4                   | 1                  | 4xM12          |
|   | HK-C3-B-90-20-20 |                         | 1.1/4              |                |
|   | HK-C3-B-90-20-24 |                         | 1.1/2              |                |
| 210   | HK-C3-B-90-24-20 | 1.1/2                   | 1.1/4              | 4xM12          |
|   | HK-C3-B-90-24-24 |                         | 1.1/2              |                |

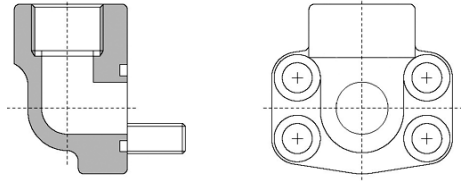
| SAE 6000 90° flange connector / BSP male thread 60°                                  |                  |                         |                    |                |
|--|------------------|-------------------------|--------------------|----------------|
|  |                  |                         |                    |                |
| press. [bar]   | code             | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 420  | HK-C6-B-90-08-06 | 1/2                     | 3/8                | 4xM8           |
|  | HK-C6-B-90-08-08 |                         | 1/2                |                |
|  | HK-C6-B-90-08-12 |                         | 3/4                |                |
|  | HK-C6-B-90-12-08 | 3/4                     | 1/2                | 4xM10          |
|  | HK-C6-B-90-12-12 |                         | 3/4                |                |
|  | HK-C6-B-90-12-16 |                         | 1                  |                |
| HK-C6-B-90-16-12   | 1                | 3/4                     | 4xM12              |                |
| HK-C6-B-90-16-16   |                  | 1                       |                    |                |
| HK-C6-B-90-16-20   |                  | 1.1/4                   |                    |                |
| 420  | HK-C6-B-90-20-16 | 1.1/4                   | 1                  | 4xM14          |
|  | HK-C6-B-90-20-20 |                         | 1.1/4              |                |
|  | HK-C6-B-90-20-24 |                         | 1.1/2              |                |
|  | HK-C6-B-90-24-20 |                         | 1.1/4              |                |
| 420  | HK-C6-B-90-24-24 | 1.1/2                   | 1.1/4              | 4xM16          |
|  | HK-C6-B-90-24-24 |                         | 1.1/2              |                |

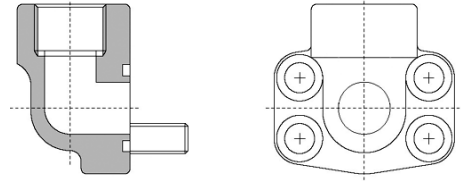
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 flange connector / BSP female thread                                     |               |                         |                    |                |
|---|---------------|-------------------------|--------------------|----------------|
|  |               |                         |                    |                |
| press. [bar]  | code          | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 348   | HK-D3-B-08-06 | 1/2                     | 3/8                | 4xM8           |
|   | HK-D3-B-08-08 |                         | 1/2                |                |
|   | HK-D3-B-12-12 | 3/4                     | 3/4                | 4xM10          |
|   | HK-D3-B-16-16 | 1                       | 1                  |                |
| 278   | HK-D3-B-20-20 | 1.1/4                   | 1.1/4              | 4xM12          |
| 210   | HK-D3-B-24-24 | 1.1/2                   | 1.1/2              |                |
|   |               | HK-D3-B-32-32           | 2                  | 2              |
| 175   | HK-D3-B-40-40 | 2.1/2                   | 2.1/2              | 4xM16          |
| 138   | HK-D3-B-48-48 | 3                       | 3                  |                |
| 35  | HK-D3-B-56-56 | 3.1/2                   | 3.1/2              | 4xM16          |
|   | HK-D3-B-64-64 | 4                       | 4                  |                |
|   | HK-D3-B-80-80 | 5                       | 5                  |                |

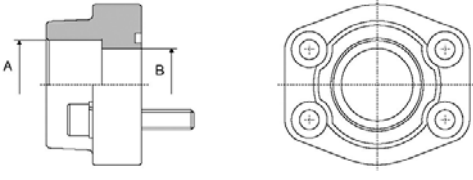
| SAE 6000 flange connector / BSP female thread                                      |               |                         |                    |                |
|--|---------------|-------------------------|--------------------|----------------|
|  |               |                         |                    |                |
| press. [bar]   | code          | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 420  | HK-D6-B-08-06 | 1/2                     | 3/8                | 4xM8           |
|  | HK-D6-B-08-08 |                         | 1/2                |                |
|  |               | HK-D6-B-12-12           | 3/4                | 3/4            |
|  | HK-D6-B-16-16 | 1                       | 1                  | 4xM12          |
|  | HK-D6-B-20-20 | 1.1/4                   | 1.1/4              | 4xM14          |
|  | HK-D6-B-24-24 | 1.1/2                   | 1.1/2              | 4xM16          |
|  | HK-D6-B-32-32 | 2                       | 2                  | 4xM20          |
|  | HK-D6-B-40-40 | 2.1/2                   | 2.1/2              | 4xM24          |
|  | HK-D6-B-48-48 | 3                       | 3                  | 4xM30          |

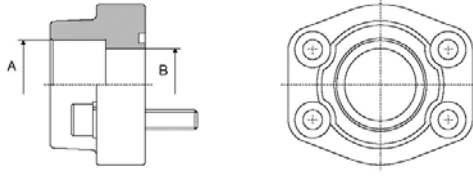
| SAE 3000 90° flange connector / BSP female thread                                   |                  |                         |                    |                |
|---|------------------|-------------------------|--------------------|----------------|
|  |                  |                         |                    |                |
| press. [bar]  | code             | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 348   | HK-D3-B-90-08-08 | 1/2                     | 1/2                | 4xM8           |
|   | HK-D3-B-90-12-12 |                         | 3/4                |                |
|   |                  | HK-D3-B-90-16-16        | 1                  | 1              |
| 278   | HK-D3-B-90-20-20 | 1.1/4                   | 1.1/4              | 4xM12          |
| 210   | HK-D3-B-90-24-24 | 1.1/2                   | 1.1/2              |                |
|   |                  | HK-D3-B-90-32-32        | 2                  | 2              |
| 175   | HK-D3-B-90-40-40 | 2.1/2                   | 2.1/2              |                |

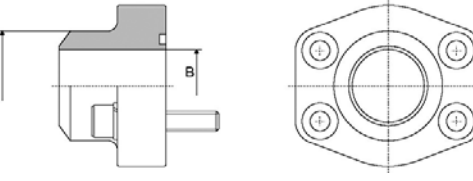
| SAE 6000 90° flange connector / BSP female thread                                    |                  |                         |                    |                |
|--|------------------|-------------------------|--------------------|----------------|
|  |                  |                         |                    |                |
| press. [bar]   | code             | flange dimension [inch] | thread size [inch] | bolt size [mm] |
| 420  | HK-D6-B-90-08-08 | 1/2                     | 1/2                | 4xM8           |
|  | HK-D6-B-90-12-12 |                         | 3/4                |                |
|  |                  | HK-D6-B-90-16-16        | 1                  | 1              |
|  | HK-D6-B-90-20-20 | 1.1/4                   | 1.1/4              | 4xM12          |
|  | HK-D6-B-90-24-24 | 1.1/2                   | 1.1/2              | 4xM14          |
|  | HK-D6-B-90-32-32 | 2                       | 2                  | 4xM16          |
|  | HK-D6-B-90-40-40 | 2.1/2                   | 2.1/2              | 4xM20          |

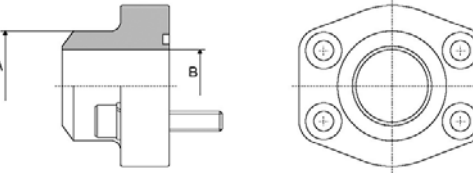
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 flange with butt weld connection   |                 |                         |                  |                  |                |
|---|-----------------|-------------------------|------------------|------------------|----------------|
|  |                 |                         |                  |                  |                |
| press. [bar]  | code            | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 348   | HK-D3-SA-06-17  | 3/8                     | 17.5             | 13               | 4xM8           |
|   | HK-D3-SA-08-21  | 1/2                     | 21.6             | 13               |                |
|   | HK-D3-SA-12-27  | 3/4                     | 27.2             | 19               |                |
| 278   | HK-D3-SA-16-34  | 1                       | 34.1             | 25               | 4xM10          |
|   | HK-D3-SA-20-42  | 1.1/4                   | 42.8             | 31               |                |
| 210   | HK-D3-SA-24-48  | 1.1/2                   | 48.6             | 38               | 4xM12          |
|   | HK-D3-SA-32-61  | 2                       | 61               | 50               |                |
| 175   | HK-D3-SA-40-76  | 2.1/2                   | 76.6             | 63               | 4xM16          |
| 138   | HK-D3-SA-48-90  | 3                       | 90.5             | 73               |                |
| 35  | HK-D3-SA-56-103 | 3.1/2                   | 103              | 89               |                |
|   | HK-D3-SA-64-115 | 4                       | 115.3            | 99               |                |
|   | HK-D3-SA-80-142 | 5                       | 142              | 120              |                |

| SAE 6000 flange with butt weld connection  |                 |                         |                  |                  |                |
|--|-----------------|-------------------------|------------------|------------------|----------------|
|  |                 |                         |                  |                  |                |
| press. [bar]   | code            | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 348  | HK-D6-SA-06-17  | 3/8                     | 17.5             | 13               | 4xM8           |
|  | HK-D6-SA-08-21  | 1/2                     | 21.6             | 13               |                |
|  | HK-D6-SA-12-27  | 3/4                     | 27.2             | 19               |                |
| 278  | HK-D6-SA-16-34  | 1                       | 34.5             | 25               | 4xM12          |
|  | HK-D6-SA-20-42  | 1.1/4                   | 42.8             | 31               |                |
| 210  | HK-D6-SA-24-48  | 1.1/2                   | 48.6             | 38               | 4xM16          |
|  | HK-D6-SA-32-61  | 2                       | 61               | 50               |                |
| 175  | HK-D6-SA-40-76  | 2.1/2                   | 76.6             | 63               | 4xM24          |
| 138  | HK-D6-SA-48-90  | 3                       | 90.5             | 75               |                |
| 35   | HK-D6-SA-56-103 | 3.1/2                   | 103              | 89               |                |
|  | HK-D6-SA-64-115 | 4                       | 115.3            | 99               |                |
|  | HK-D6-SA-80-142 | 5                       | 142              | 120              |                |

| SAE 3000 flange with butt weld connection   |                 |                         |                  |                  |                |
|---|-----------------|-------------------------|------------------|------------------|----------------|
|  |                 |                         |                  |                  |                |
| press. [bar]  | code            | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 348   | HK-D3-SB-06-17  | 3/8                     | 17.5             | 10               | 4xM8           |
|   | HK-D3-SB-08-21  | 1/2                     | 21.6             | 13               |                |
|   | HK-D3-SB-12-27  | 3/4                     | 27.2             | 19               |                |
| 278   | HK-D3-SB-16-34  | 1                       | 34.5             | 25               | 4xM10          |
|   | HK-D3-SB-20-42  | 1.1/4                   | 42.8             | 31               |                |
| 210   | HK-D3-SB-24-48  | 1.1/2                   | 48.6             | 38               | 4xM12          |
|   | HK-D3-SB-32-61  | 2                       | 61               | 50               |                |
| 175   | HK-D3-SB-40-76  | 2.1/2                   | 76.6             | 63               | 4xM16          |
| 138   | HK-D3-SB-48-89  | 3                       | 89               | 73               |                |
| 35  | HK-D3-SB-56-103 | 3.1/2                   | 103              | 89               |                |
|   | HK-D3-SB-64-115 | 4                       | 115              | 99               |                |
|   | HK-D3-SB-80-142 | 5                       | 142              | 120              |                |

| SAE 6000 flange with butt weld connection  |                 |                         |                  |                  |                |
|--|-----------------|-------------------------|------------------|------------------|----------------|
|  |                 |                         |                  |                  |                |
| press. [bar]   | code            | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 348  | HK-D6-SB-06-17  | 3/8                     | 17.5             | 10               | 4xM8           |
|  | HK-D6-SB-08-21  | 1/2                     | 21.6             | 13               |                |
|  | HK-D6-SB-12-27  | 3/4                     | 27.2             | 18               |                |
| 278  | HK-D6-SB-16-34  | 1                       | 34.5             | 22               | 4xM12          |
|  | HK-D6-SB-20-42  | 1.1/4                   | 42.8             | 28               |                |
| 210  | HK-D6-SB-24-48  | 1.1/2                   | 48.6             | 32               | 4xM16          |
|  | HK-D6-SB-32-61  | 2                       | 61               | 41               |                |
| 175  | HK-D6-SB-40-76  | 2.1/2                   | 76.6             | 50               | 4xM24          |
| 138  | HK-D6-SB-48-90  | 3                       | 90               | 58               |                |
| 35   | HK-D6-SB-56-103 | 3.1/2                   | 103              | 89               |                |
|  | HK-D6-SB-64-115 | 4                       | 115              | 99               |                |
|  | HK-D6-SB-80-142 | 5                       | 142              | 120              |                |

# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 90° flange with butt weld connection |                   |                         |                  |                  |                |
|---|-------------------|-------------------------|------------------|------------------|----------------|
|   |                   |                         |                  |                  |                |
| press. [bar]                                  | code              | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 348   | HK-D3-SA-90-08-21 | 1/2                     | 21.6             | 13               | 4xM8           |
|   | HK-D3-SA-90-12-27 | 3/4                     | 27.2             | 19               |                |
|   | HK-D3-SA-90-16-34 | 1                       | 34.1             | 25               |                |
| 278   | HK-D3-SA-90-20-42 | 1.1/4                   | 42.8             | 31               | 4xM10          |
| 210   | HK-D3-SA-90-24-48 | 1.1/2                   | 48.6             | 38               |                |
|   | HK-D3-SA-90-32-61 | 2                       | 61               | 50               |                |
| 175   | HK-D3-SA-90-40-76 | 2.1/2                   | 76.6             | 60               | 4xM12          |

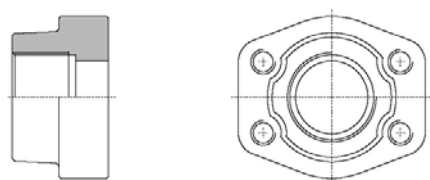
| SAE 6000 90° flange with butt weld connection |                   |                         |                  |                  |                |
|---|-------------------|-------------------------|------------------|------------------|----------------|
|   |                   |                         |                  |                  |                |
| press. [bar]                                  | code              | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |
| 420   | HK-D6-SA-90-08-21 | 1/2                     | 21.6             | 13               | 4xM8           |
|   | HK-D6-SA-90-12-27 | 3/4                     | 27.2             | 19               | 4xM10          |
|   | HK-D6-SA-90-16-34 | 1                       | 34.1             | 25               | 4xM12          |
| 278   | HK-D6-SA-90-20-42 | 1.1/4                   | 42.8             | 31               | 4xM14          |
|   | HK-D6-SA-90-24-48 | 1.1/2                   | 48.6             | 38               | 4xM16          |
| 175   | HK-D6-SA-90-32-61 | 2                       | 61               | 50               | 4xM20          |

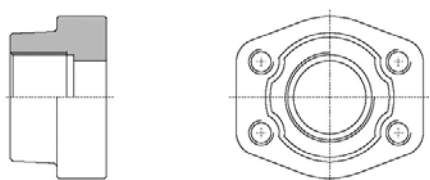
| SAE 3000 90° flange with butt weld connection |                 |                         |                  |                  |                |    |
|---|-----------------|-------------------------|------------------|------------------|----------------|----|
|   |                 |                         |                  |                  |                |    |
| press. [bar]                                  | code            | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |    |
| 348   | HK-E3-SA-08-17  | 1/2                     | 17.5             | 13               | 4xM8           |    |
|   | HK-E3-SA-08-21  |                         | 21.6             |                  |                |    |
|   | HK-E3-SA-12-21  | 3/4                     | 21.6             | 19               |                |    |
|   | HK-E3-SA-12-27  |                         | 27.2             |                  |                |    |
|   | 278             | HK-E3-SA-16-27          | 1                | 27.2             |                | 25 |
|   |                 | HK-E3-SA-16-34          |                  | 34.5             |                |    |
| 210   | HK-E3-SA-20-34  | 1.1/4                   | 34.5             | 31               |                |    |
|   | HK-E3-SA-20-42  |                         | 42.8             |                  |                |    |
| 175   | HK-E3-SA-24-42  | 1.1/2                   | 42.8             | 38               |                |    |
|   | HK-E3-SA-24-48  |                         | 48.6             |                  |                |    |
|   | HK-E3-SA-32-48  | 2                       | 48.6             |                  | 50             |    |
|   | HK-E3-SA-32-61  |                         | 61               |                  |                |    |
| 138   | HK-E3-SA-40-61  | 2.1/2                   | 61               | 63               |                |    |
|   | HK-E3-SA-40-76  |                         | 76.6             |                  |                |    |
| 35  | HK-E3-SA-48-76  | 3                       | 76.6             | 73               |                |    |
|   | HK-E3-SA-48-90  |                         | 90.5             |                  |                |    |
|   | HK-E3-SA-56-90  | 3.1/2                   | 90.5             | 89               |                |    |
|   | HK-E3-SA-56-103 |                         | 103              |                  |                |    |
|   | HK-E3-SA-64-103 | 4                       | 103              |                  | 99             |    |
|   | HK-E3-SA-64-115 |                         | 115.5            |                  |                |    |
| HK-E3-SA-72-115                               | 5               | 115.5                   | 120              |                  |                |    |
| HK-E3-SA-72-142                               |                 | 142.5                   |                  |                  |                |    |

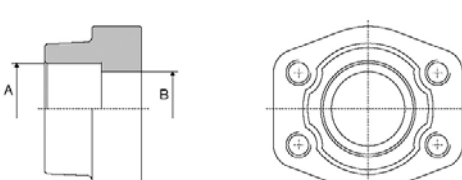
| SAE 6000 90° flange with butt weld connection |                |                         |                  |                  |                |      |    |
|---|----------------|-------------------------|------------------|------------------|----------------|------|----|
|   |                |                         |                  |                  |                |      |    |
| press. [bar]                                  | code           | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt size [mm] |      |    |
| 420   | HK-E6-SA-08-17 | 1/2                     | 17.5             | 13               | 4xM8           |      |    |
|   | HK-E6-SA-08-21 |                         | 21.6             |                  |                |      |    |
|   | HK-E6-SA-12-21 | 3/4                     | 21.6             |                  |                | 19   |    |
|   | HK-E6-SA-12-27 |                         | 27.2             |                  |                |      |    |
|   | 278            | HK-E6-SA-16-27          | 1                |                  |                | 27.2 | 25 |
|   |                | HK-E6-SA-16-34          |                  |                  |                | 34.5 |    |
| 210   | HK-E6-SA-20-34 | 1.1/4                   | 34.5             | 31               |                |      |    |
|   | HK-E6-SA-20-42 |                         | 42.8             |                  |                |      |    |
| 175   | HK-E6-SA-24-42 | 1.1/2                   | 42.8             | 38               |                |      |    |
|   | HK-E6-SA-24-48 |                         | 48.6             |                  |                |      |    |
|   | HK-E6-SA-32-48 | 2                       | 48.6             |                  | 50             |      |    |
|   | HK-E6-SA-32-61 |                         | 61               |                  |                |      |    |

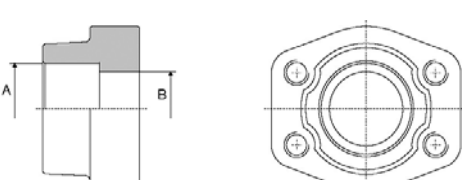
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 counterflange / BSP female thread  |                |                         |                    |                       |
|---|----------------|-------------------------|--------------------|-----------------------|
|  |                |                         |                    |                       |
| press. [bar]  | code           | flange dimension [inch] | thread size [inch] | bolt hole thread [mm] |
| 348   | HK-D3-BX-08-06 | 1/2                     | 3/8                | M8                    |
|   | HK-D3-BX-08-08 |                         | 1/2                |                       |
|   | HK-D3-BX-12-12 | 3/4                     | 3/4                | M10                   |
|   | HK-D3-BX-16-16 | 1                       | 1                  |                       |
| 278   | HK-D3-BX-20-20 | 1.1/4                   | 1.1/4              | M12                   |
| 210   | HK-D3-BX-24-24 | 1.1/2                   | 1.1/2              |                       |
|   | HK-D3-BX-32-32 | 2                       | 2                  |                       |
| 175   | HK-D3-BX-40-40 | 2.1/2                   | 2.1/2              | M16                   |
| 138   | HK-D3-BX-48-48 | 3                       | 3                  |                       |
| 35  | HK-D3-BX-56-56 | 3.1/2                   | 3.1/2              | M16                   |
|   | HK-D3-BX-64-64 | 4                       | 4                  |                       |
|   | HK-D3-BX-80-80 | 5                       | 5                  |                       |

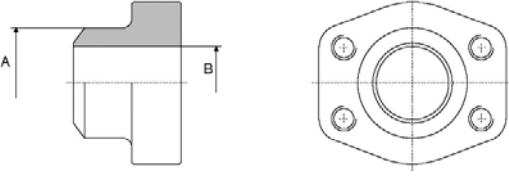
| SAE 6000 counterflange / BSP female thread   |                |                         |                    |                       |
|--|----------------|-------------------------|--------------------|-----------------------|
|  |                |                         |                    |                       |
| press. [bar]   | code           | flange dimension [inch] | thread size [inch] | bolt hole thread [mm] |
| 420  | HK-D6-BX-08-06 | 1/2                     | 3/8                | M8                    |
|  | HK-D6-BX-08-08 |                         | 1/2                |                       |
|  | HK-D6-BX-12-12 | 3/4                     | 3/4                | M10                   |
|  | HK-D6-BX-16-16 | 1                       | 1                  | M12                   |
| 420  | HK-D6-BX-20-20 | 1.1/4                   | 1.1/4              | M14                   |
|  | HK-D6-BX-24-24 | 1.1/2                   | 1.1/2              | M16                   |
| 420  | HK-D6-BX-32-32 | 2                       | 2                  | M20                   |
|  | HK-D6-BX-40-40 | 2.1/2                   | 2.1/2              | M24                   |
| 420  | HK-D6-BX-48-48 | 3                       | 3                  | M30                   |

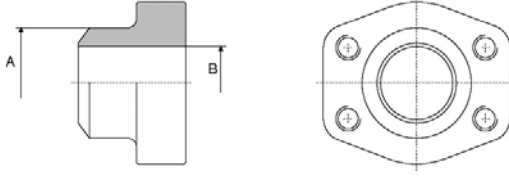
| SAE 3000 counterflange with butt weld connection                                    |              |                         |                  |                  |                       |
|---|--------------|-------------------------|------------------|------------------|-----------------------|
|  |              |                         |                  |                  |                       |
| press. [bar]  | code         | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt hole thread [mm] |
| 348   | HK-D3-SAX-06 | 3/8                     | 17.5             | 13               | M8                    |
|   | HK-D3-SAX-08 | 1/2                     | 21.6             | 13               |                       |
|   | HK-D3-SAX-12 | 3/4                     | 27.2             | 19               | M10                   |
|   | HK-D3-SAX-16 | 1                       | 34.1             | 25               |                       |
| 278   | HK-D3-SAX-20 | 1.1/4                   | 42.8             | 31               | M12                   |
| 210   | HK-D3-SAX-24 | 1.1/2                   | 48.6             | 38               |                       |
|   | HK-D3-SAX-32 | 2                       | 61               | 50               |                       |
| 175   | HK-D3-SAX-40 | 2.1/2                   | 76.6             | 63               | M16                   |
| 138   | HK-D3-SAX-48 | 3                       | 90.5             | 73               |                       |
| 35  | HK-D3-SAX-56 | 3.1/2                   | 103              | 89               | M16                   |
|   | HK-D3-SAX-64 | 4                       | 115.3            | 99               |                       |
|   | HK-D3-SAX-80 | 5                       | 142              | 120              |                       |

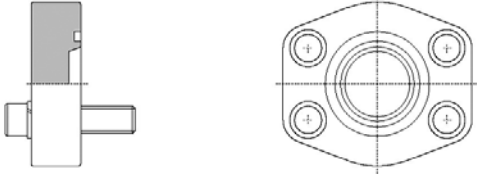
| SAE 6000 counterflange with butt weld connection                                     |              |                         |                  |                  |                       |
|--|--------------|-------------------------|------------------|------------------|-----------------------|
|  |              |                         |                  |                  |                       |
| press. [bar]   | code         | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt hole thread [mm] |
| 420  | HK-D6-SAX-06 | 3/8                     | 17.5             | 13               | M8                    |
|  | HK-D6-SAX-08 | 1/2                     | 21.6             | 13               |                       |
|  | HK-D6-SAX-12 | 3/4                     | 27.2             | 19               | M10                   |
|  | HK-D6-SAX-16 | 1                       | 34.1             | 25               | M12                   |
| 420  | HK-D6-SAX-20 | 1.1/4                   | 42.8             | 31               | M14                   |
|  | HK-D6-SAX-24 | 1.1/2                   | 48.6             | 38               | M16                   |
| 420  | HK-D6-SAX-32 | 2                       | 61               | 50               | M20                   |
|  | HK-D6-SAX-40 | 2.1/2                   | 76.6             | 63               | M24                   |
| 420  | HK-D6-SAX-48 | 3                       | 90.5             | 73               | M30                   |

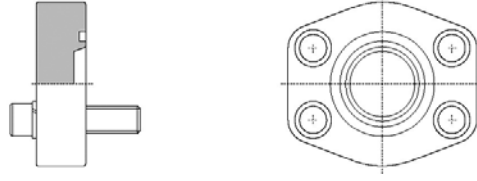
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 counterflange with butt weld connection                                  |              |                         |                  |                  |                       |
|---|--------------|-------------------------|------------------|------------------|-----------------------|
|  |              |                         |                  |                  |                       |
| press. [bar]  | code         | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt hole thread [mm] |
| 348   | HK-D3-SBX-06 | 3/8                     | 17.5             | 10               | M8                    |
|   | HK-D3-SBX-08 | 1/2                     | 21.6             | 13               |                       |
|   | HK-D3-SBX-12 | 3/4                     | 27.2             | 19               | M10                   |
|   | HK-D3-SBX-16 | 1                       | 34.1             | 25               |                       |
| 278   | HK-D3-SBX-20 | 1.1/4                   | 42.8             | 31               | M12                   |
| 210   | HK-D3-SBX-24 | 1.1/2                   | 48.6             | 38               |                       |
| 175   | HK-D3-SBX-32 | 2                       | 61               | 50               | M16                   |
| 138   | HK-D3-SBX-40 | 2.1/2                   | 76.6             | 63               |                       |
| 35  | HK-D3-SBX-48 | 3                       | 90.5             | 73               | M16                   |
|   | HK-D3-SBX-56 | 3.1/2                   | 103              | 89               |                       |
|   | HK-D3-SBX-64 | 4                       | 115              | 99               |                       |
|   | HK-D3-SBX-80 | 5                       | 142              | 120              |                       |

| SAE 6000 counterflange with butt weld connection                                   |              |                         |                  |                  |                       |
|--|--------------|-------------------------|------------------|------------------|-----------------------|
|  |              |                         |                  |                  |                       |
| press. [bar]   | code         | flange dimension [inch] | dimension A [mm] | dimension B [mm] | bolt hole thread [mm] |
| 420  | HK-D6-SBX-06 | 3/8                     | 17.5             | 10               | M8                    |
|  | HK-D6-SBX-08 | 1/2                     | 21.6             | 13               |                       |
|  | HK-D6-SBX-12 | 3/4                     | 27.2             | 18               | M10                   |
|  | HK-D6-SBX-16 | 1                       | 34.1             | 22               |                       |
| 420  | HK-D6-SBX-20 | 1.1/4                   | 42.8             | 28               | M12                   |
|  | HK-D6-SBX-24 | 1.1/2                   | 48.6             | 32               |                       |
|  | HK-D6-SBX-32 | 2                       | 61               | 41               | M16                   |
|  | HK-D6-SBX-40 | 2.1/2                   | 76.6             | 50               |                       |
|  | HK-D6-SBX-48 | 3                       | 90.5             | 58               | M24                   |
|  |              |                         |                  |                  | M30                   |

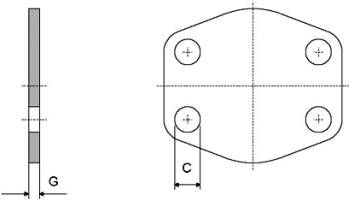
| SAE 3000 blanking flange  |          |                         |                       |                |
|---|----------|-------------------------|-----------------------|----------------|
|  |          |                         |                       |                |
| press. [bar]  | code     | flange dimension [inch] | cut-out diameter [mm] | bolt size [mm] |
| 348   | HK-E3-08 | 1/2                     | 13                    | 4xM8           |
|   | HK-E3-12 | 3/4                     | 16                    | 4xM10          |
|   | HK-E3-16 | 1                       | 25                    |                |
| 278   | HK-E3-20 | 1.1/4                   | 25                    | 4xM12          |
| 210   | HK-E3-24 | 1.1/2                   | 34                    |                |
| 175   | HK-E3-32 | 2                       | 43                    | 4xM16          |
| 138   | HK-E3-40 | 2.1/2                   | 61                    |                |
| 35  | HK-E3-48 | 3                       | 60                    | 4xM16          |
|   | HK-E3-56 | 3.1/2                   | 73                    |                |
|   | HK-E3-64 | 4                       | 87                    |                |
|   | HK-E3-80 | 5                       | 127                   |                |

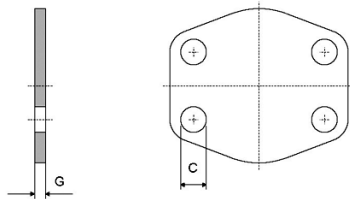
| SAE 6000 blanking flange   |          |                         |                       |                |
|--|----------|-------------------------|-----------------------|----------------|
|  |          |                         |                       |                |
| press. [bar]   | code     | flange dimension [inch] | cut-out diameter [mm] | bolt size [mm] |
| 420  | HK-E6-06 | 3/8                     | 13                    | 4xM8           |
|  | HK-E6-12 | 3/4                     | 20                    | 4xM10          |
|  | HK-E6-16 | 1                       | 25                    | 4xM12          |
|  | HK-E6-20 | 1.1/4                   | 25                    | 4xM14          |
| 420  | HK-E6-24 | 1.1/2                   | 34                    | 4xM16          |
|  | HK-E6-32 | 2                       | 46                    | 4xM20          |
|  | HK-E6-40 | 2.1/2                   | 56                    | 4xM24          |
|  | HK-E6-48 | 3                       | 71                    | 4xM30          |

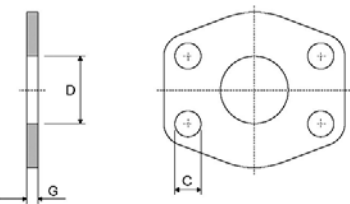


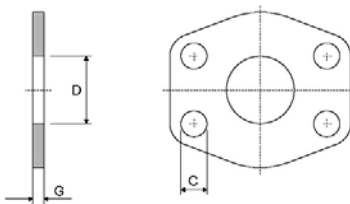
# HIGH PRESSURE - adapters

## SAE flange connectors

| SAE 3000 cover plate  |                         |                  |                        |
|---|-------------------------|------------------|------------------------|
|  |                         |                  |                        |
| code  | flange dimension [inch] | thickness G [mm] | bolt hole diam. C [mm] |
| HK-G3-08  | 1/2                     | 3                | 9                      |
| HK-G3-12  | 3/4                     |                  | 11                     |
| HK-G3-16  | 1                       |                  | 11.5                   |
| HK-G3-20  | 1.1/4                   |                  | 13.5                   |
| HK-G3-24  | 1.1/2                   |                  |                        |
| HK-G3-32  | 2                       |                  |                        |
| HK-G3-40  | 2.1/2                   |                  |                        |
| HK-G3-48  | 3                       | 4                | 17                     |
| HK-G3-56  | 3.1/2                   |                  |                        |
| HK-G3-64  | 4                       |                  |                        |
| HK-G3-80  | 5                       |                  |                        |

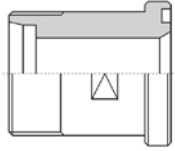
| SAE 6000 cover plate  |                         |                  |                        |
|---|-------------------------|------------------|------------------------|
|  |                         |                  |                        |
| code  | flange dimension [inch] | thickness G [mm] | bolt hole diam. C [mm] |
| HK-G6-08  | 1/2                     | 4                | 9                      |
| HK-G6-12  | 3/4                     |                  | 11                     |
| HK-G6-16  | 1                       |                  | 13                     |
| HK-G6-20  | 1.1/4                   |                  | 15                     |
| HK-G6-24  | 1.1/2                   |                  | 17                     |
| HK-G6-32  | 2                       |                  | 21                     |
| HK-G6-40  | 2.1/2                   |                  | 25                     |
| HK-G6-48  | 3                       |                  | 32                     |

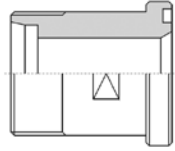
| SAE 3000 flange connector plate   |                         |                      |                  |                        |
|---|-------------------------|----------------------|------------------|------------------------|
|  |                         |                      |                  |                        |
| code  | flange dimension [inch] | opening diam. D [mm] | thickness G [mm] | bolt hole diam. C [mm] |
| HK-H3-08  | 1/2                     | 13                   | 3                | 9                      |
| HK-H3-12  | 3/4                     | 19                   |                  | 11                     |
| HK-H3-16  | 1                       | 25                   |                  | 11.5                   |
| HK-H3-20  | 1.1/4                   | 32                   |                  | 13.5                   |
| HK-H3-24  | 1.1/2                   | 38                   |                  |                        |
| HK-H3-32  | 2                       | 51                   |                  |                        |
| HK-H3-40  | 2.1/2                   | 63                   |                  |                        |
| HK-H3-48  | 3                       | 73                   | 4                | 17                     |
| HK-H3-56  | 3.1/2                   | 89                   |                  |                        |
| HK-H3-64  | 4                       | 99                   |                  |                        |
| HK-H3-80  | 5                       | 120                  |                  |                        |

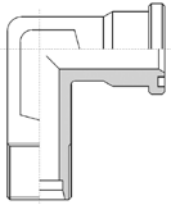
| SAE 6000 flange connector plate   |                         |                      |                  |                        |
|---|-------------------------|----------------------|------------------|------------------------|
|  |                         |                      |                  |                        |
| code  | flange dimension [inch] | opening diam. D [mm] | thickness G [mm] | bolt hole diam. C [mm] |
| HK-H6-08  | 1/2                     | 13                   | 4                | 9                      |
| HK-H6-12  | 3/4                     | 17                   |                  | 11                     |
| HK-H6-16  | 1                       | 24                   |                  | 13                     |
| HK-H6-20  | 1.1/4                   | 31                   |                  | 15                     |
| HK-H6-24  | 1.1/2                   | 38                   |                  | 17                     |
| HK-H6-32  | 2                       | 51                   |                  | 21                     |
| HK-H6-40  | 2.1/2                   | 63                   |                  | 25                     |
| HK-H6-48  | 3                       | 73                   |                  | 32                     |

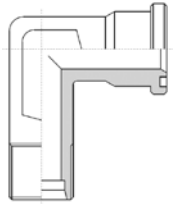
# HIGH PRESSURE - adapters

## SAE flange connectors

| Adapter SAE 3000 / DIN 2353   |                  |                         |                |                  |
|---|------------------|-------------------------|----------------|------------------|
|  |                  |                         |                |                  |
| press. [bar]  | code             | flange dimension [inch] | pipe I.D. [mm] | thread size [mm] |
| 210   | HK-ZSK111-08-12S | 1/2                     | 12             | 20x1.5           |
|   | HK-ZSK111-08-15L |                         | 15             | 22x1.5           |
|   | HK-ZSK111-08-16S |                         | 16             | 24x1.5           |
|   | HK-ZSK111-08-18L |                         | 18             | 26x1.5           |
|   | HK-ZSK111-12-16S | 3/4                     | 16             | 24x1.5           |
|   | HK-ZSK111-12-20S |                         | 20             | 30x2             |
|   | HK-ZSK111-12-22L |                         | 22             | 30x2             |
|   | HK-ZSK111-16-20S | 1                       | 20             | 30x2             |
|   | HK-ZSK111-16-25S |                         | 25             | 36x2             |
|   | HK-ZSK111-16-28L |                         | 28             | 36x2             |
|   | HK-ZSK111-20-25S | 1.1/4                   | 25             | 36x2             |
|   | HK-ZSK111-20-30S |                         | 30             | 42x2             |
|   | HK-ZSK111-20-35L |                         | 35             | 45x2             |
|   | HK-ZSK111-24-35L | 1.1/2                   | 35             | 45x2             |
|   | HK-ZSK111-24-38S |                         | 38             | 52x2             |
|   | HK-ZSK111-24-42L |                         | 42             | 52x2             |
|   | HK-ZSK111-32-35L | 2                       | 35             | 45x2             |

| Adapter SAE 6000 / DIN 2353   |                  |                         |                |                  |
|---|------------------|-------------------------|----------------|------------------|
|  |                  |                         |                |                  |
| press. [bar]  | code             | flange dimension [inch] | pipe I.D. [mm] | thread size [mm] |
| 420   | HK-ZSK112-08-12S | 1/2                     | 12             | 20x1.5           |
|   | HK-ZSK112-08-14S |                         | 14             | 22x1.5           |
|   | HK-ZSK112-08-16S |                         | 16             | 24x1.5           |
|   | HK-ZSK112-12-16S | 3/4                     | 16             | 24x1.5           |
|   | HK-ZSK112-12-20S |                         | 20             | 30x2             |
|   | HK-ZSK112-12-22L |                         | 22             | 30x2             |
|   | HK-ZSK112-16-20S | 1                       | 20             | 30x2             |
|   | HK-ZSK112-16-25S |                         | 25             | 36x2             |
|   | HK-ZSK112-16-28L |                         | 28             | 36x2             |
|   | HK-ZSK112-20-25S | 1.1/4                   | 25             | 36x2             |
|   | HK-ZSK112-20-30S |                         | 30             | 42x2             |
|   | HK-ZSK112-20-35L |                         | 35             | 45x2             |
|   | HK-ZSK112-24-30S | 1.1/2                   | 30             | 45x2             |
|   | HK-ZSK112-24-38S |                         | 38             | 52x2             |
|   | HK-ZSK112-24-42L |                         | 42             | 52x2             |

| Adapter 90° SAE 3000 / DIN 2353   |                  |                         |                |                  |
|---|------------------|-------------------------|----------------|------------------|
|  |                  |                         |                |                  |
| press. [bar]  | code             | flange dimension [inch] | pipe I.D. [mm] | thread size [mm] |
| 210   | HK-ZSK211-08-12S | 1/2                     | 12             | 20x1.5           |
|   | HK-ZSK211-08-15L |                         | 15             | 22x1.5           |
|   | HK-ZSK211-08-16S |                         | 16             | 24x1.5           |
|   | HK-ZSK211-08-18L |                         | 18             | 26x1.5           |
|   | HK-ZSK211-12-16S | 3/4                     | 16             | 24x1.5           |
|   | HK-ZSK211-12-20S |                         | 20             | 30x2             |
|   | HK-ZSK211-12-22L |                         | 22             | 30x2             |
|   | HK-ZSK211-16-20S | 1                       | 20             | 30x2             |
|   | HK-ZSK211-16-25S |                         | 25             | 36x2             |
|   | HK-ZSK211-16-28L |                         | 28             | 36x2             |
|   | HK-ZSK211-20-25S | 1.1/4                   | 25             | 36x2             |
|   | HK-ZSK211-20-30S |                         | 30             | 42x2             |
|   | HK-ZSK211-20-35L |                         | 35             | 45x2             |
|   | HK-ZSK211-24-35L | 1.1/2                   | 35             | 45x2             |
|   | HK-ZSK211-24-38S |                         | 38             | 52x2             |
|   | HK-ZSK211-24-42L |                         | 42             | 52x2             |

| Adapter 90° SAE 6000 / DIN 2353   |                  |                         |                |                  |
|---|------------------|-------------------------|----------------|------------------|
|  |                  |                         |                |                  |
| press. [bar]  | code             | flange dimension [inch] | pipe I.D. [mm] | thread size [mm] |
| 420   | HK-ZSK212-08-12S | 1/2                     | 12             | 20x1.5           |
|   | HK-ZSK212-08-14S |                         | 14             | 22x1.5           |
|   | HK-ZSK212-08-16S |                         | 16             | 24x1.5           |
|   | HK-ZSK212-12-16S | 3/4                     | 16             | 24x1.5           |
|   | HK-ZSK212-12-20S |                         | 20             | 30x2             |
|   | HK-ZSK212-12-22L |                         | 22             | 30x2             |
|   | HK-ZSK212-16-20S | 1                       | 20             | 30x2             |
|   | HK-ZSK212-16-25S |                         | 25             | 36x2             |
|   | HK-ZSK212-16-28L |                         | 28             | 36x2             |
|   | HK-ZSK212-20-25S | 1.1/4                   | 25             | 36x2             |
|   | HK-ZSK212-20-30S |                         | 30             | 42x2             |
|   | HK-ZSK212-20-35L |                         | 35             | 45x2             |
|   | HK-ZSK212-24-30S | 1.1/2                   | 30             | 42x2             |
|   | HK-ZSK212-24-38S |                         | 38             | 52x2             |
|   | HK-ZSK212-24-42L |                         | 42             | 52x2             |