

# Mirai 未来

## Marine Valves

### Product Catalogue





**ClassNK**



**KEYSTONE**  
VALVE (KOREA) LTD.

**ACE VALVE**



**HAN YANG VALVE**

HAN YANG VALVE IND. Co., Ltd.

**TOMOE**



**Genesis**  
Solutions

Worldwide Ship Spares in Transit Provided by

**LOGWIN** Ship Parts Logistics

## Headquarters

- Mirai Marine Valves Pte Ltd**  
63D Tuas Bay Drive, West Spring Singapore 636812
- +65 6360 1780
- singapore@miraimarine.com



TradeNet  
ID#301655

## Branch

- Mirai Marine Istanbul Co. Ltd.**  
Icmeler Mah. Seyitönbaşı Cad.  
No.1/5 34947 Tuzla Istanbul Turkey
- +90 216 493 43 55
- istanbul@miraimarine.com



TradeNet  
ID#79591

## Branch

- Mirai Marine Greece**  
Filonos 41, 185 31  
Piraeus, Greece
- +30 211 418 90 98
- greece@miraimarine.com



[www.miraimarine.com](http://www.miraimarine.com)



**Cemil Eyupoglu**  
Chairman

Greetings from Mirai Team,

Mirai Marine Valves is formed by marine valves specialist team with the motto of representing the future of marine valves supply.

Mirai's dedicated team is committed to provide quick response with detailed quotations, correct supply and strong after sales service.

Our products are manufactured by well known valve manufacturers in Korea, Japan and Turkey under JIS & DIN Standards.

This user friendly catalogue is reflecting the product range and valve sizes of our standard stock.

We will be happy to be your one stop supplier and solution partner for your Drydocking projects and daily valve enquiries with our wide range stock warehouses in Singapore, Busan, and Istanbul.

Sincerely.



**JIS****» GLOBE VALVES, BRONZE BODY & TRIM, JIS 5K****F-7301 STOP (FIXED DISC)**

| DN | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|----|--------|-----------|-----|-------------|----|--------------|
| 15 | 750121 | 80        | 60  | 4           | 12 | 100          |
| 20 | 750122 | 85        | 65  | 4           | 12 | 110          |
| 25 | 750123 | 95        | 75  | 4           | 12 | 120          |
| 32 | 750124 | 115       | 90  | 4           | 15 | 140          |
| 40 | 750125 | 120       | 95  | 4           | 15 | 160          |
| 50 | 750126 | 130       | 105 | 4           | 15 | 210          |
| 65 | 750127 | 155       | 130 | 4           | 15 | 250          |

**F-7351 SCREW DOWN NON RETURN (SDNR)**

| DN | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|----|--------|-----------|-----|-------------|----|--------------|
| 15 | 751051 | 80        | 60  | 4           | 12 | 100          |
| 20 | 751052 | 85        | 65  | 4           | 12 | 110          |
| 25 | 751053 | 95        | 75  | 4           | 12 | 120          |
| 32 | 751054 | 115       | 90  | 4           | 15 | 140          |
| 40 | 751055 | 120       | 95  | 4           | 15 | 160          |
| 50 | 751056 | 130       | 105 | 4           | 15 | 210          |
| 65 | 751057 | 155       | 130 | 4           | 15 | 250          |

**» ANGLE VALVES, BRONZE BODY & TRIM, JIS 5K****F-7302 STOP (FIXED DISC)**

| DN | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|----|--------|-----------|-----|-------------|----|----------------|
| 15 | 750131 | 80        | 60  | 4           | 12 | 55             |
| 20 | 750132 | 85        | 65  | 4           | 12 | 60             |
| 25 | 750133 | 95        | 75  | 4           | 12 | 65             |
| 32 | 750134 | 115       | 90  | 4           | 15 | 80             |
| 40 | 750135 | 120       | 95  | 4           | 15 | 85             |
| 50 | 750136 | 130       | 105 | 4           | 15 | 100            |
| 65 | 750137 | 155       | 130 | 4           | 15 | 115            |

**F-7352 SCREW DOWN NON RETURN (SDNR)**

| DN | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|----|--------|-----------|-----|-------------|----|----------------|
| 15 | 751061 | 80        | 60  | 4           | 12 | 55             |
| 20 | 751062 | 85        | 65  | 4           | 12 | 60             |
| 25 | 751063 | 95        | 75  | 4           | 12 | 65             |
| 32 | 751064 | 115       | 90  | 4           | 15 | 80             |
| 40 | 751065 | 120       | 95  | 4           | 15 | 85             |
| 50 | 751066 | 130       | 105 | 4           | 15 | 100            |
| 65 | 751067 | 155       | 130 | 4           | 15 | 115            |





» GLOBE VALVES, BRONZE BODY & TRIM, JIS 16K

F-7303 STOP (FIXED DISC)



| DN | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|----|--------|-----------|-----|-------------|----|--------------|
| 15 | 750141 | 95        | 70  | 4           | 15 | 110          |
| 20 | 750142 | 100       | 75  | 4           | 15 | 120          |
| 25 | 750143 | 125       | 90  | 4           | 19 | 130          |
| 32 | 750144 | 135       | 100 | 4           | 19 | 160          |
| 40 | 750145 | 140       | 105 | 4           | 19 | 180          |
| 50 | 750146 | 155       | 120 | 8           | 19 | 220          |

F-7409 SCREW DOWN NON RETURN (SDNR)



| DN | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|----|--------|-----------|-----|-------------|----|--------------|
| 15 | 751071 | 95        | 70  | 4           | 15 | 110          |
| 20 | 751072 | 100       | 75  | 4           | 15 | 120          |
| 25 | 751073 | 125       | 90  | 4           | 19 | 130          |
| 32 | 751074 | 135       | 100 | 4           | 19 | 160          |
| 40 | 751075 | 140       | 105 | 4           | 19 | 180          |
| 50 | 751076 | 155       | 120 | 8           | 19 | 220          |

» ANGLE VALVES, BRONZE BODY & TRIM, JIS 16K

F-7304 STOP (FIXED DISC)



| DN | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|----|--------|-----------|-----|-------------|----|----------------|
| 15 | 750151 | 95        | 70  | 4           | 15 | 70             |
| 20 | 750152 | 100       | 75  | 4           | 15 | 75             |
| 25 | 750153 | 125       | 90  | 4           | 19 | 85             |
| 32 | 750154 | 135       | 100 | 4           | 19 | 95             |
| 40 | 750155 | 140       | 105 | 4           | 19 | 100            |
| 50 | 750156 | 155       | 120 | 8           | 19 | 120            |

F-7410 SCREW DOWN NON RETURN (SDNR)



| DN | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|----|--------|-----------|-----|-------------|----|----------------|
| 15 | 751081 | 95        | 70  | 4           | 15 | 70             |
| 20 | 751082 | 100       | 75  | 4           | 15 | 75             |
| 25 | 751083 | 125       | 90  | 4           | 19 | 85             |
| 32 | 751084 | 135       | 100 | 4           | 19 | 95             |
| 40 | 751085 | 140       | 105 | 4           | 19 | 100            |
| 50 | 751086 | 155       | 120 | 8           | 19 | 120            |

**JIS****» GLOBE VALVES, JIS 5K - WITH CLASS CERTIFICATE****BRONZ BODY & TRIM, F-7301 STOP (FIXED DISC) TYPE**

| DN | Code     | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|----------|-----------|-----|-----------------|----|--------------|
| 15 | 750121CC | 80        | 60  | 4               | 12 | 100          |
| 20 | 750122CC | 85        | 65  | 4               | 12 | 110          |
| 25 | 750123CC | 95        | 75  | 4               | 12 | 120          |
| 32 | 750124CC | 115       | 90  | 4               | 15 | 140          |
| 40 | 750125CC | 120       | 95  | 4               | 15 | 160          |
| 50 | 750126CC | 130       | 105 | 4               | 15 | 210          |

\*\*\* Above can be converted to Screw Down Non Return Disc upon request

**F-7351 SCREW DOWN NON RETURN (SDNR)**

| DN | Code     | Flange OD | PCD | Holes x Dia |    | Face to Face |
|----|----------|-----------|-----|-------------|----|--------------|
| 15 | 751051CC | 80        | 60  | 4           | 12 | 100          |
| 20 | 751052CC | 85        | 65  | 4           | 12 | 110          |
| 25 | 751053CC | 95        | 75  | 4           | 12 | 120          |
| 32 | 751054CC | 115       | 90  | 4           | 15 | 140          |
| 40 | 751055CC | 120       | 95  | 4           | 15 | 160          |
| 50 | 751056CC | 130       | 105 | 4           | 15 | 210          |
| 65 | 751057CC | 155       | 130 | 4           | 15 | 250          |

**» ANGLE VALVES, JIS 5K - WITH CLASS CERTIFICATE****BRONZ BODY & TRIM, F-7302 STOP (FIXED DISC) TYPE**

| DN | Code     | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|----------|-----------|-----|-----------------|----|----------------|
| 15 | 750131CC | 80        | 60  | 4               | 12 | 55             |
| 20 | 750132CC | 85        | 65  | 4               | 12 | 60             |
| 25 | 750133CC | 95        | 75  | 4               | 12 | 65             |
| 32 | 750134CC | 115       | 90  | 4               | 15 | 80             |
| 40 | 750135CC | 120       | 95  | 4               | 15 | 85             |
| 50 | 750136CC | 130       | 105 | 4               | 15 | 100            |
| 65 | 750137CC | 155       | 130 | 4               | 15 | 115            |

\*\*\* Above can be converted to Screw Down Non Return Disc upon request

**F-7352 SCREW DOWN NON RETURN (SDNR)**

| DN | Code     | Flange OD | PCD | Holes x Dia |    | Center to Face |
|----|----------|-----------|-----|-------------|----|----------------|
| 15 | 751061CC | 80        | 60  | 4           | 12 | 55             |
| 20 | 751062CC | 85        | 65  | 4           | 12 | 60             |
| 25 | 751063CC | 95        | 75  | 4           | 12 | 65             |
| 32 | 751064CC | 115       | 90  | 4           | 15 | 80             |
| 40 | 751065CC | 120       | 95  | 4           | 15 | 85             |
| 50 | 751066CC | 130       | 105 | 4           | 15 | 100            |
| 65 | 751067CC | 155       | 130 | 4           | 15 | 115            |





### » GLOBE VALVES, JIS 16K - WITH CLASS CERTIFICATE

BRONZE BODY & TRIM, F-7303 STOP (FIXED DISC)

| DN | Code     | Flange OD | PCD | Holes x Dia | Face to Face |
|----|----------|-----------|-----|-------------|--------------|
| 15 | 750141CC | 95        | 70  | 4   15      | 110          |
| 20 | 750142CC | 100       | 75  | 4   15      | 120          |
| 25 | 750143CC | 125       | 90  | 4   19      | 130          |
| 32 | 750144CC | 135       | 100 | 4   19      | 160          |
| 40 | 750145CC | 140       | 105 | 4   19      | 180          |
| 50 | 750146CC | 155       | 120 | 8   19      | 220          |



### » GLOBE VALVES, JIS 16K - WITH CLASS CERTIFICATE

BRONZE BODY & TRIM, F-7409 SCREW DOWN NON RETURN (SDNR)

| DN | Code     | Flange OD | PCD | Holes x Dia | Face to Face |
|----|----------|-----------|-----|-------------|--------------|
| 15 | 751071CC | 95        | 70  | 4   15      | 110          |
| 20 | 751072CC | 100       | 75  | 4   15      | 120          |
| 25 | 751073CC | 125       | 90  | 4   19      | 130          |
| 32 | 751074CC | 135       | 100 | 4   19      | 160          |
| 40 | 751075CC | 140       | 105 | 4   19      | 180          |
| 50 | 751076CC | 155       | 120 | 8   19      | 220          |

### » ANGLE VALVES, JIS 16K - WITH CLASS CERTIFICATE

BRONZE BODY & TRIM, F-7304 STOP (FIXED DISC)

| DN | Code     | Flange OD | PCD | Holes x Dia | Center to Face |
|----|----------|-----------|-----|-------------|----------------|
| 15 | 750151CC | 95        | 70  | 4   15      | 70             |
| 20 | 750152CC | 100       | 75  | 4   15      | 75             |
| 25 | 750153CC | 125       | 90  | 4   19      | 85             |
| 32 | 750154CC | 135       | 100 | 4   19      | 95             |
| 40 | 750155CC | 140       | 105 | 4   19      | 100            |
| 50 | 750156CC | 155       | 120 | 8   19      | 120            |



### » ANGLE VALVES, JIS 16K - WITH CLASS CERTIFICATE

BRONZE BODY & TRIM, F-7409 SCREW DOWN NON RETURN (SDNR)

| DN | Code     | Flange OD | PCD | Holes x Dia | Center to Face |
|----|----------|-----------|-----|-------------|----------------|
| 15 | 751081CC | 95        | 70  | 4   15      | 70             |
| 20 | 751082CC | 100       | 75  | 4   15      | 75             |
| 25 | 751083CC | 125       | 90  | 4   19      | 85             |
| 32 | 751084CC | 135       | 100 | 4   19      | 95             |
| 40 | 751085CC | 140       | 105 | 4   19      | 100            |
| 50 | 751086CC | 155       | 120 | 8   19      | 120            |



## JIS

## » GLOBE VALVES, TYPE - S, JIS 20K

BRONZE BODY &amp; TRIM, F-7388

| DN | Code   | Inlet     | Outlet                              |
|----|--------|-----------|-------------------------------------|
| 6  | 750551 | M20 X 1.5 | Union Brazing Copper Pipe 8 & 10 MM |
| 10 | 750552 | M24 X 2.0 | Union Brazing Copper Pipe 15 MM     |

## » ANGLE VALVES, TYPE - S, JIS 20K

BRONZE BODY &amp; TRIM, F-7389

| DN | Code   | Inlet     | Outlet                              |
|----|--------|-----------|-------------------------------------|
| 6  | 750561 | M20 X 1.5 | Union Brazing Copper Pipe 8 & 10 MM |
| 10 | 750562 | M24 X 2.0 | Union Brazing Copper Pipe 15 MM     |



## » GLOBE VALVES, JIS 10K / 16K - SCS14 STAINLESS STEEL BODY &amp; TRIM

F-7303 STOP (FIXED DISC) TYPE - SUITABLE FOR LOW TEMPERATURE APPLICATIONS

| DN | Code     | Flange OD | PCD | Holes no. x Dia | Face to Face |
|----|----------|-----------|-----|-----------------|--------------|
| 15 | 750141SS | 95        | 70  | 4   15          | 110          |
| 20 | 750142SS | 100       | 75  | 4   15          | 120          |
| 25 | 750143SS | 125       | 90  | 4   19          | 130          |
| 32 | 750144SS | 135       | 100 | 4   19          | 160          |
| 40 | 750145SS | 140       | 105 | 4   19          | 180          |
| 50 | 750146SS | 155       | 120 | 8   19          | 220          |



## » ANGLE VALVES, JIS 10K / 16K - SCS14 STAINLESS STEEL BODY &amp; TRIM

F-7304 STOP (FIXED DISC) TYPE - SUITABLE FOR LOW TEMPERATURE APPLICATIONS

| DN | Code     | Flange OD | PCD | Holes no. x Dia | Center to Face |
|----|----------|-----------|-----|-----------------|----------------|
| 15 | 750151SS | 95        | 70  | 4   15          | 70             |
| 20 | 750152SS | 100       | 75  | 4   15          | 75             |
| 25 | 750153SS | 125       | 90  | 4   19          | 85             |
| 32 | 750154SS | 135       | 100 | 4   19          | 95             |
| 40 | 750155SS | 140       | 105 | 4   19          | 100            |
| 50 | 750156SS | 155       | 120 | 8   19          | 120            |



## » GATE VALVES, JIS 5K

BRONZE BODY &amp; TRIM - F-7367

| DN | Code   | Flange OD | PCD | Holes no. x Dia | Face to Face |
|----|--------|-----------|-----|-----------------|--------------|
| 15 | 750951 | 80        | 60  | 4   12          | 90           |
| 20 | 750952 | 85        | 65  | 4   12          | 100          |
| 25 | 750953 | 95        | 75  | 4   12          | 110          |
| 32 | 750954 | 115       | 90  | 4   15          | 130          |
| 40 | 750955 | 120       | 95  | 4   15          | 140          |



## » GATE VALVES, JIS 10K

BRONZE BODY &amp; TRIM - F-7368

| DN | Code   | Flange OD | PCD | Holes no. x Dia | Face to Face |
|----|--------|-----------|-----|-----------------|--------------|
| 15 | 750961 | 95        | 70  | 4   15          | 100          |
| 20 | 750962 | 100       | 75  | 4   15          | 110          |
| 25 | 750963 | 125       | 90  | 4   19          | 120          |
| 32 | 750964 | 135       | 100 | 4   19          | 140          |
| 40 | 750965 | 140       | 105 | 4   19          | 150          |



## » SELF CLOSING VALVES - F TYPE &amp; U TYPE

BRONZE BODY &amp; TRIM - F-7398

| DN | Code   | Flange OD                                                              | PCD | Holes no. x Dia |
|----|--------|------------------------------------------------------------------------|-----|-----------------|
| 15 | 758501 | UNDRILLED FLANGES<br>CAN BE DRILLED AS PER<br>JIS 5K / 10K OR DIN PN16 |     |                 |
| 20 | 758502 |                                                                        |     |                 |
| 25 | 758503 |                                                                        |     |                 |
| 32 | 758504 |                                                                        |     |                 |
| 40 | 758505 |                                                                        |     |                 |



**JIS**

## » GLOBE AIR VALVES, JIS 20K F7421

FORGED STEEL BODY - STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 750611 | 95        | 70  | 4               | 15 | 140          |
| 20 | 750612 | 100       | 75  | 4               | 15 | 160          |
| 25 | 750613 | 125       | 90  | 4               | 19 | 180          |



## » ANGLE AIR VALVES, JIS 20K F7422

FORGED STEEL BODY - STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|--------|-----------|-----|-----------------|----|----------------|
| 15 | 750626 | 95        | 70  | 4               | 15 | 75             |
| 20 | 750627 | 100       | 75  | 4               | 15 | 80             |
| 25 | 750628 | 125       | 90  | 4               | 19 | 95             |



## » GLOBE AIR VALVES, JIS 46K F7336

FORGED STEEL BODY - STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 750741 | 115       | 80  | 4               | 19 | 150          |
| 20 | 750742 | 120       | 85  | 4               | 19 | 170          |
| 25 | 750743 | 130       | 95  | 4               | 19 | 200          |

\*\*\* SUITABLE FOR JIS 30K / 40K AND 46K FLANGE CONNECTIONS



## » ANGLE AIR VALVES, JIS 46K F7337

FORGED STEEL BODY - STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|--------|-----------|-----|-----------------|----|----------------|
| 15 | 750756 | 115       | 80  | 4               | 19 | 90             |
| 20 | 750757 | 120       | 85  | 4               | 19 | 95             |
| 25 | 750758 | 130       | 95  | 4               | 19 | 100            |

\*\*\* SUITABLE FOR JIS 30K / 40K AND 46K FLANGE CONNECTIONS



## » GLOBE AIR VALVES, JIS 46K F7340

CAST STEEL BODY - STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 32 | 750701 | 140       | 105 | 4               | 19 | 220          |
| 40 | 750702 | 160       | 120 | 4               | 23 | 240          |

\*\*\* SUITABLE FOR JIS 30K / 40K AND 46K FLANGE CONNECTIONS



## » ANGLE AIR VALVES, JIS 46K F7475

CAST STEEL BODY - STAINLESS STEEL TRIM F7475 - WITH CLASS CERTIFICATE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|--------|-----------|-----|-----------------|----|----------------|
| 32 | 750716 | 140       | 105 | 4               | 19 | 114            |
| 40 | 750717 | 160       | 120 | 4               | 23 | 121            |

\*\*\* SUITABLE FOR JIS 30K / 40K AND 46K FLANGE CONNECTIONS

## JIS

## » GLOBE VALVES, JIS 5K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7311 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 750301 | 130       | 105 | 4           | 15 | 210          |
| 65  | 750302 | 155       | 130 | 4           | 15 | 250          |
| 80  | 750303 | 180       | 145 | 4           | 19 | 280          |
| 100 | 750304 | 200       | 165 | 8           | 19 | 340          |
| 125 | 750305 | 235       | 200 | 8           | 19 | 410          |
| 150 | 750306 | 265       | 230 | 8           | 19 | 480          |
| 200 | 750307 | 320       | 280 | 8           | 23 | 570          |



## » GLOBE VALVES, JIS 5K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, SCREW DOWN NON RETURN (SDNR)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 750310 | 130       | 105 | 4           | 15 | 210          |
| 65  | 750311 | 155       | 130 | 4           | 15 | 250          |
| 80  | 750312 | 180       | 145 | 4           | 19 | 280          |
| 100 | 750313 | 200       | 165 | 8           | 19 | 340          |
| 125 | 750314 | 235       | 200 | 8           | 19 | 410          |
| 150 | 750315 | 265       | 230 | 8           | 19 | 480          |
| 200 | 750316 | 320       | 280 | 8           | 23 | 570          |



## » ANGLE VALVES, JIS 5K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7312 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 750320 | 130       | 105 | 4           | 15 | 100            |
| 65  | 750321 | 155       | 130 | 4           | 15 | 115            |
| 80  | 750322 | 180       | 145 | 4           | 19 | 130            |
| 100 | 750323 | 200       | 165 | 8           | 19 | 150            |
| 125 | 750324 | 235       | 200 | 8           | 19 | 170            |
| 150 | 750325 | 265       | 230 | 8           | 19 | 190            |
| 200 | 750326 | 320       | 280 | 8           | 23 | 220            |
| 250 | 750406 | 385       | 345 | 12          | 23 | 275            |
| 300 | 750407 | 430       | 390 | 12          | 23 | 310            |
| 350 | 750408 | 480       | 435 | 12          | 25 | 360            |



## » ANGLE VALVES, JIS 5K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, SCREW DOWN NON RETURN (SDNR)

| DN  | Code       | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|------------|-----------|-----|-------------|----|----------------|
| 50  | 750330     | 130       | 105 | 4           | 15 | 100            |
| 65  | 750331     | 155       | 130 | 4           | 15 | 115            |
| 80  | 750332     | 180       | 145 | 4           | 19 | 130            |
| 100 | 750333     | 200       | 165 | 8           | 19 | 150            |
| 125 | 750334     | 235       | 200 | 8           | 19 | 170            |
| 150 | 750335     | 265       | 230 | 8           | 19 | 190            |
| 200 | 750336     | 320       | 280 | 8           | 23 | 220            |
| 250 | 750406SDNR | 385       | 345 | 12          | 23 | 275            |
| 300 | 750407SDNR | 430       | 390 | 12          | 23 | 310            |
| 350 | 750408SDNR | 480       | 435 | 12          | 25 | 360            |



## » GLOBE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 5K

## F-7305 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 750201 | 130       | 105 | 4           | 15 | 210          |
| 65  | 750202 | 155       | 130 | 4           | 15 | 250          |
| 80  | 750203 | 180       | 145 | 4           | 19 | 280          |
| 100 | 750204 | 200       | 165 | 8           | 19 | 340          |
| 125 | 750205 | 235       | 200 | 8           | 19 | 410          |
| 150 | 750206 | 265       | 230 | 8           | 19 | 480          |
| 200 | 750207 | 320       | 280 | 8           | 23 | 570          |

## F-7353 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 751101 | 130       | 105 | 4           | 15 | 210          |
| 65  | 751102 | 155       | 130 | 4           | 15 | 250          |
| 80  | 751103 | 180       | 145 | 4           | 19 | 280          |
| 100 | 751104 | 200       | 165 | 8           | 19 | 340          |
| 125 | 751105 | 235       | 200 | 8           | 19 | 410          |
| 150 | 751106 | 265       | 230 | 8           | 19 | 480          |
| 200 | 751107 | 320       | 280 | 8           | 23 | 570          |

## » ANGLE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 5K

## F-7306 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 750216 | 130       | 105 | 4           | 15 | 100            |
| 65  | 750217 | 155       | 130 | 4           | 15 | 115            |
| 80  | 750218 | 180       | 145 | 4           | 19 | 130            |
| 100 | 750219 | 200       | 165 | 8           | 19 | 150            |
| 125 | 750220 | 235       | 200 | 8           | 19 | 170            |
| 150 | 750221 | 265       | 230 | 8           | 19 | 190            |
| 200 | 750222 | 320       | 280 | 8           | 23 | 220            |
| 250 | 750223 | 385       | 345 | 12          | 23 | 275            |
| 300 | 750224 | 430       | 390 | 12          | 23 | 310            |
| 350 | 750225 | 480       | 435 | 12          | 25 | 360            |
| 400 | 750226 | 540       | 495 | 16          | 25 | 395            |

## F-7354 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 751116 | 130       | 105 | 4           | 15 | 100            |
| 65  | 751117 | 155       | 130 | 4           | 15 | 115            |
| 80  | 751118 | 180       | 145 | 4           | 19 | 130            |
| 100 | 751119 | 200       | 165 | 8           | 19 | 150            |
| 125 | 751120 | 235       | 200 | 8           | 19 | 170            |
| 150 | 751121 | 265       | 230 | 8           | 19 | 190            |
| 200 | 751122 | 320       | 280 | 8           | 23 | 220            |
| 250 | 751123 | 385       | 345 | 12          | 23 | 275            |
| 300 | 751124 | 430       | 390 | 12          | 23 | 310            |
| 350 | 751125 | 480       | 435 | 12          | 25 | 360            |
| 400 | 751126 | 540       | 495 | 16          | 25 | 395            |

## JIS

## » GLOBE VALVES, JIS 10K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7319 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 750411 | 155       | 120 | 4           | 19 | 220          |
| 65  | 750412 | 175       | 140 | 4           | 19 | 270          |
| 80  | 750413 | 185       | 150 | 8           | 19 | 300          |
| 100 | 750414 | 210       | 175 | 8           | 19 | 350          |
| 125 | 750415 | 250       | 210 | 8           | 23 | 420          |
| 150 | 750416 | 280       | 240 | 8           | 23 | 490          |
| 200 | 750417 | 330       | 290 | 12          | 23 | 570          |
| 250 | 750418 | 400       | 355 | 12          | 25 | 740          |
| 300 | 750419 | 445       | 400 | 16          | 25 | 840          |



## » GLOBE VALVES, JIS 10K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7471 SCREW DOWN NON RETURN (SDNR)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 751201 | 155       | 120 | 4           | 19 | 220          |
| 65  | 751202 | 175       | 140 | 4           | 19 | 270          |
| 80  | 751203 | 185       | 150 | 8           | 19 | 300          |
| 100 | 751204 | 210       | 175 | 8           | 19 | 350          |
| 125 | 751205 | 250       | 210 | 8           | 23 | 420          |
| 150 | 751206 | 280       | 240 | 8           | 23 | 490          |
| 200 | 751207 | 330       | 290 | 12          | 23 | 570          |
| 250 | 751208 | 400       | 355 | 12          | 25 | 740          |
| 300 | 751209 | 445       | 400 | 16          | 25 | 840          |



## » ANGLE VALVES, JIS 10K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7320 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 750421 | 155       | 120 | 4           | 19 | 120            |
| 65  | 750422 | 175       | 140 | 4           | 19 | 130            |
| 80  | 750423 | 185       | 150 | 8           | 19 | 140            |
| 100 | 750424 | 210       | 175 | 8           | 19 | 160            |
| 125 | 750425 | 250       | 210 | 8           | 23 | 180            |
| 150 | 750426 | 280       | 240 | 8           | 23 | 205            |
| 200 | 750427 | 330       | 290 | 12          | 23 | 230            |
| 250 | 750428 | 400       | 355 | 12          | 25 | 290            |
| 300 | 750429 | 445       | 400 | 16          | 25 | 320            |
| 350 | 750430 | 490       | 445 | 16          | 25 | 360            |



## » ANGLE VALVES, JIS 10K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7472 SCREW DOWN NON RETURN (SDNR)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 751216 | 155       | 120 | 4           | 19 | 120            |
| 65  | 751217 | 175       | 140 | 4           | 19 | 130            |
| 80  | 751218 | 185       | 150 | 8           | 19 | 140            |
| 100 | 751219 | 210       | 175 | 8           | 19 | 160            |
| 125 | 751220 | 250       | 210 | 8           | 23 | 180            |
| 150 | 751221 | 280       | 240 | 8           | 23 | 205            |
| 200 | 751222 | 330       | 290 | 12          | 23 | 230            |
| 250 | 751223 | 400       | 355 | 12          | 25 | 290            |
| 300 | 751224 | 445       | 400 | 16          | 25 | 320            |
| 350 | 751225 | 490       | 445 | 16          | 25 | 360            |



## » GLOBE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 10K

## F-7307 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 750231 | 155       | 120 | 4           | 19 | 220          |
| 65  | 750232 | 175       | 140 | 4           | 19 | 270          |
| 80  | 750233 | 185       | 150 | 8           | 19 | 300          |
| 100 | 750234 | 210       | 175 | 8           | 19 | 350          |
| 125 | 750235 | 250       | 210 | 8           | 23 | 420          |
| 150 | 750236 | 280       | 240 | 8           | 23 | 490          |
| 200 | 750237 | 330       | 290 | 12          | 23 | 570          |

## F-7375 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 50  | 751131 | 155       | 120 | 4           | 19 | 220          |
| 65  | 751132 | 175       | 140 | 4           | 19 | 270          |
| 80  | 751133 | 185       | 150 | 8           | 19 | 300          |
| 100 | 751134 | 210       | 175 | 8           | 19 | 350          |
| 125 | 751135 | 250       | 210 | 8           | 23 | 420          |
| 150 | 751136 | 280       | 240 | 8           | 23 | 490          |
| 200 | 751137 | 330       | 290 | 12          | 23 | 570          |

## » ANGLE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 10K

## F-7308 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 750246 | 155       | 120 | 4           | 19 | 120            |
| 65  | 750247 | 175       | 140 | 4           | 19 | 130            |
| 80  | 750248 | 185       | 150 | 8           | 19 | 140            |
| 100 | 750249 | 210       | 175 | 8           | 19 | 160            |
| 125 | 750250 | 250       | 210 | 8           | 23 | 180            |
| 150 | 750251 | 280       | 240 | 8           | 23 | 205            |
| 200 | 750252 | 330       | 290 | 12          | 23 | 230            |

## F-7376 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 50  | 751141 | 155       | 120 | 4           | 19 | 120            |
| 65  | 751142 | 175       | 140 | 4           | 19 | 130            |
| 80  | 751143 | 185       | 150 | 8           | 19 | 140            |
| 100 | 751144 | 210       | 175 | 8           | 19 | 160            |
| 125 | 751145 | 250       | 210 | 8           | 23 | 180            |
| 150 | 751146 | 280       | 240 | 8           | 23 | 205            |
| 200 | 751147 | 330       | 290 | 12          | 23 | 230            |

## JIS

## » GLOBE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 16K

## F-7309 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 750261 | 155       | 120 | 8               | 19 | 220          |
| 65  | 750262 | 175       | 140 | 8               | 19 | 270          |
| 80  | 750263 | 200       | 160 | 8               | 23 | 300          |
| 100 | 750264 | 225       | 185 | 8               | 23 | 350          |
| 125 | 750265 | 270       | 225 | 8               | 25 | 430          |
| 150 | 750266 | 305       | 260 | 12              | 25 | 500          |
| 200 | 750267 | 350       | 305 | 12              | 25 | 570          |



## » ANGLE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 16K

## F-7310 STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|-----------|-----|-----------------|----|----------------|
| 50  | 750271 | 155       | 120 | 8               | 19 | 120            |
| 65  | 750272 | 175       | 140 | 8               | 19 | 130            |
| 80  | 750273 | 200       | 160 | 8               | 23 | 150            |
| 100 | 750274 | 225       | 185 | 8               | 23 | 170            |
| 125 | 750275 | 270       | 225 | 8               | 25 | 200            |
| 150 | 750276 | 305       | 260 | 12              | 25 | 225            |
| 200 | 750277 | 350       | 305 | 12              | 25 | 250            |



## » GLOBE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 16K

## F-7377 SCREW DOWN NON RETURN (SDNR)

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 751151 | 155       | 120 | 8               | 19 | 220          |
| 65  | 751152 | 175       | 140 | 8               | 19 | 270          |
| 80  | 751153 | 200       | 160 | 8               | 23 | 300          |
| 100 | 751154 | 225       | 185 | 8               | 23 | 350          |
| 125 | 751155 | 270       | 225 | 8               | 25 | 430          |
| 150 | 751156 | 305       | 260 | 12              | 25 | 500          |
| 200 | 751157 | 350       | 305 | 12              | 25 | 570          |



## » ANGLE VALVES, CAST IRON BODY, BRONZE TRIM, JIS 16K

## F-7378 SCREW DOWN NON RETURN (SDNR)

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|-----------|-----|-----------------|----|----------------|
| 50  | 751161 | 155       | 120 | 8               | 19 | 120            |
| 65  | 751162 | 175       | 140 | 8               | 19 | 130            |
| 80  | 751163 | 200       | 160 | 8               | 23 | 150            |
| 100 | 751164 | 225       | 185 | 8               | 23 | 170            |
| 125 | 751165 | 270       | 225 | 8               | 25 | 200            |
| 150 | 751166 | 305       | 260 | 12              | 25 | 225            |
| 200 | 751167 | 350       | 305 | 12              | 25 | 250            |



## » GLOBE VALVES, JIS 20K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7313 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 32  | 750431 | 135       | 100 | 4           | 19 | 190          |
| 40  | 750432 | 140       | 105 | 4           | 19 | 200          |
| 50  | 750433 | 155       | 120 | 8           | 19 | 230          |
| 65  | 750434 | 175       | 140 | 8           | 19 | 270          |
| 80  | 750435 | 200       | 160 | 8           | 23 | 300          |
| 100 | 750436 | 225       | 185 | 8           | 23 | 350          |
| 125 | 750437 | 270       | 225 | 8           | 25 | 430          |
| 150 | 750438 | 305       | 260 | 12          | 25 | 500          |
| 200 | 750439 | 350       | 305 | 12          | 25 | 560          |
| 250 | 750440 | 430       | 380 | 12          | 27 | 660          |

## » GLOBE VALVES, JIS 20K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7473 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 32  | 751231 | 135       | 100 | 4           | 19 | 190          |
| 40  | 751232 | 140       | 105 | 4           | 19 | 200          |
| 50  | 751233 | 155       | 120 | 8           | 19 | 230          |
| 65  | 751234 | 175       | 140 | 8           | 19 | 270          |
| 80  | 751235 | 200       | 160 | 8           | 23 | 300          |
| 100 | 751237 | 225       | 185 | 8           | 23 | 350          |
| 125 | 751238 | 270       | 225 | 8           | 25 | 430          |
| 150 | 751239 | 305       | 260 | 12          | 25 | 500          |
| 200 | 751240 | 350       | 305 | 12          | 25 | 560          |
| 250 | 751241 | 430       | 380 | 12          | 27 | 660          |

## » ANGLE VALVES, JIS 20K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7314 STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 32  | 750441 | 135       | 100 | 4           | 19 | 100            |
| 40  | 750442 | 140       | 105 | 4           | 19 | 110            |
| 50  | 750443 | 155       | 120 | 8           | 19 | 125            |
| 65  | 750444 | 175       | 140 | 8           | 19 | 135            |
| 80  | 750445 | 200       | 160 | 8           | 23 | 150            |
| 100 | 750446 | 225       | 185 | 8           | 23 | 170            |
| 125 | 750447 | 270       | 225 | 8           | 25 | 200            |
| 150 | 750448 | 305       | 260 | 12          | 25 | 225            |
| 200 | 750449 | 350       | 305 | 12          | 25 | 280            |
| 250 | 750450 | 430       | 380 | 12          | 27 | 310            |

## » ANGLE VALVES, JIS 20K - WITH CLASS CERTIFICATE

CAST STEEL BODY, STAINLESS STEEL TRIM, F-7474 SCREW DOWN NON RETURN (SDNR)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 32  | 751246 | 135       | 100 | 4           | 19 | 100            |
| 40  | 751247 | 140       | 105 | 4           | 19 | 110            |
| 50  | 751248 | 155       | 120 | 8           | 19 | 125            |
| 65  | 751249 | 175       | 140 | 8           | 19 | 135            |
| 80  | 751250 | 200       | 160 | 8           | 23 | 150            |
| 100 | 751252 | 225       | 185 | 8           | 23 | 170            |
| 125 | 751253 | 270       | 225 | 8           | 25 | 200            |
| 150 | 751254 | 305       | 260 | 12          | 25 | 225            |
| 200 | 751255 | 350       | 305 | 12          | 25 | 280            |
| 250 | 751256 | 430       | 380 | 12          | 27 | 310            |

## DIN

## » GLOBE VALVES, DIN PN10 / PN16

NODULAR CAST IRON BODY &amp; BRONZE TRIM, WITH CLASS CERTIFICATE

STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 15  | 755401 | 95        | 65  | 4           | 14 | 130          |
| 20  | 755402 | 105       | 75  | 4           | 14 | 150          |
| 25  | 755403 | 115       | 85  | 4           | 14 | 160          |
| 32  | 755404 | 140       | 100 | 4           | 18 | 180          |
| 40  | 755405 | 150       | 110 | 4           | 18 | 200          |
| 50  | 755406 | 165       | 125 | 4           | 18 | 230          |
| 65  | 755407 | 185       | 145 | 4           | 18 | 290          |
| 80  | 755408 | 200       | 160 | 8           | 18 | 310          |
| 100 | 755409 | 220       | 180 | 8           | 18 | 350          |
| 125 | 755410 | 250       | 210 | 8           | 18 | 400          |
| 150 | 755411 | 285       | 240 | 8           | 22 | 480          |
| 200 | 755412 | 340       | 295 | 8           | 22 | 600          |
| 250 | 755413 | 395       | 350 | 12          | 22 | 730          |
| 300 | 755414 | 445       | 400 | 12          | 22 | 850          |



## SCREW DOWN NON RETURN (SDNR)

| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|----------|-----------|-----|-------------|----|--------------|
| 15  | 755401NR | 95        | 65  | 4           | 14 | 130          |
| 20  | 755402NR | 105       | 75  | 4           | 14 | 150          |
| 25  | 755403NR | 115       | 85  | 4           | 14 | 160          |
| 32  | 755404NR | 140       | 100 | 4           | 18 | 180          |
| 40  | 755405NR | 150       | 110 | 4           | 18 | 200          |
| 50  | 755406NR | 165       | 125 | 4           | 18 | 230          |
| 65  | 755407NR | 185       | 145 | 4           | 18 | 290          |
| 80  | 755408NR | 200       | 160 | 8           | 18 | 310          |
| 100 | 755409NR | 220       | 180 | 8           | 18 | 350          |
| 125 | 755410NR | 250       | 210 | 8           | 18 | 400          |
| 150 | 755411NR | 285       | 240 | 8           | 22 | 480          |
| 200 | 755412NR | 340       | 295 | 8           | 22 | 600          |
| 250 | 755413NR | 395       | 350 | 12          | 22 | 730          |
| 300 | 755414NR | 445       | 400 | 12          | 22 | 850          |



» ANGLE VALVES, DIN PN10 / PN16

NODULAR CAST IRON BODY & BRONZE TRIM, WITH CLASS CERTIFICATE

STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 15  | 755416 | 95        | 65  | 4           | 14 | 90             |
| 20  | 755417 | 105       | 75  | 4           | 14 | 95             |
| 25  | 755418 | 115       | 85  | 4           | 14 | 100            |
| 32  | 755419 | 140       | 100 | 4           | 18 | 105            |
| 40  | 755420 | 150       | 110 | 4           | 18 | 115            |
| 50  | 755421 | 165       | 125 | 4           | 18 | 125            |
| 65  | 755422 | 185       | 145 | 4           | 18 | 145            |
| 80  | 755423 | 200       | 160 | 8           | 18 | 155            |
| 100 | 755424 | 220       | 180 | 8           | 18 | 175            |
| 125 | 755425 | 250       | 210 | 8           | 18 | 200            |
| 150 | 755426 | 285       | 240 | 8           | 22 | 225            |
| 200 | 755428 | 340       | 295 | 8           | 22 | 275            |
| 250 | 755429 | 395       | 350 | 12          | 22 | 325            |
| 300 | 755430 | 445       | 400 | 12          | 22 | 375            |

SCREW DOWN NON RETURN (SDNR)



| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|----------|-----------|-----|-------------|----|----------------|
| 15  | 755416NR | 95        | 65  | 4           | 14 | 90             |
| 20  | 755417NR | 105       | 75  | 4           | 14 | 95             |
| 25  | 755418NR | 115       | 85  | 4           | 14 | 100            |
| 32  | 755419NR | 140       | 100 | 4           | 18 | 105            |
| 40  | 755420NR | 150       | 110 | 4           | 18 | 115            |
| 50  | 755421NR | 165       | 125 | 4           | 18 | 125            |
| 65  | 755422NR | 185       | 145 | 4           | 18 | 145            |
| 80  | 755423NR | 200       | 160 | 8           | 18 | 155            |
| 100 | 755424NR | 220       | 180 | 8           | 18 | 175            |
| 125 | 755425NR | 250       | 210 | 8           | 18 | 200            |
| 150 | 755426NR | 285       | 240 | 8           | 22 | 225            |
| 200 | 755428NR | 340       | 295 | 8           | 22 | 275            |
| 250 | 755429NR | 395       | 350 | 12          | 22 | 325            |
| 300 | 755430NR | 445       | 400 | 12          | 22 | 375            |

## DIN

## » GLOBE VALVES, DIN PN10 / PN16

CAST IRON BODY &amp; BRONZE TRIM

STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 15  | 755261 | 95        | 65  | 4           | 14 | 130          |
| 20  | 755262 | 105       | 75  | 4           | 14 | 150          |
| 25  | 755263 | 115       | 85  | 4           | 14 | 160          |
| 32  | 755264 | 140       | 100 | 4           | 18 | 180          |
| 40  | 755265 | 150       | 110 | 4           | 18 | 200          |
| 50  | 755266 | 165       | 125 | 4           | 18 | 230          |
| 65  | 755267 | 185       | 145 | 4           | 18 | 290          |
| 80  | 755268 | 200       | 160 | 8           | 18 | 310          |
| 100 | 755269 | 220       | 180 | 8           | 18 | 350          |
| 125 | 755270 | 250       | 210 | 8           | 18 | 400          |
| 150 | 755271 | 285       | 240 | 8           | 22 | 480          |
| 200 | 755272 | 340       | 295 | 8           | 22 | 600          |
| 250 | 755273 | 395       | 350 | 12          | 22 | 730          |



## SCREW DOWN NON RETURN (SDNR)

| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|----------|-----------|-----|-------------|----|--------------|
| 15  | 755261NR | 95        | 65  | 4           | 14 | 130          |
| 20  | 755262NR | 105       | 75  | 4           | 14 | 150          |
| 25  | 755263NR | 115       | 85  | 4           | 14 | 160          |
| 32  | 755264NR | 140       | 100 | 4           | 18 | 180          |
| 40  | 755265NR | 150       | 110 | 4           | 18 | 200          |
| 50  | 755266NR | 165       | 125 | 4           | 18 | 230          |
| 65  | 755267NR | 185       | 145 | 4           | 18 | 290          |
| 80  | 755268NR | 200       | 160 | 8           | 18 | 310          |
| 100 | 755269NR | 220       | 180 | 8           | 18 | 350          |
| 125 | 755270NR | 250       | 210 | 8           | 18 | 400          |
| 150 | 755271NR | 285       | 240 | 8           | 22 | 480          |
| 200 | 755272NR | 340       | 295 | 8           | 22 | 600          |
| 250 | 755273NR | 395       | 350 | 12          | 22 | 730          |



» ANGLE VALVES, DIN PN10 / PN16

CAST IRON BODY & BRONZE TRIM

STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 15  | 755276 | 95        | 65  | 4           | 14 | 90             |
| 20  | 755277 | 105       | 75  | 4           | 14 | 95             |
| 25  | 755278 | 115       | 85  | 4           | 14 | 100            |
| 32  | 755279 | 140       | 100 | 4           | 18 | 105            |
| 40  | 755280 | 150       | 110 | 4           | 18 | 115            |
| 50  | 755281 | 165       | 125 | 4           | 18 | 125            |
| 65  | 755282 | 185       | 145 | 4           | 18 | 145            |
| 80  | 755283 | 200       | 160 | 8           | 18 | 155            |
| 100 | 755284 | 220       | 180 | 8           | 18 | 175            |
| 125 | 755285 | 250       | 210 | 8           | 18 | 200            |
| 150 | 755286 | 285       | 240 | 8           | 22 | 225            |
| 200 | 755288 | 340       | 295 | 8           | 22 | 275            |
| 250 | 755289 | 395       | 350 | 12          | 22 | 325            |

SCREW DOWN NON RETURN (SDNR)



| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|----------|-----------|-----|-------------|----|----------------|
| 15  | 755276NR | 95        | 65  | 4           | 14 | 90             |
| 20  | 755277NR | 105       | 75  | 4           | 14 | 95             |
| 25  | 755278NR | 115       | 85  | 4           | 14 | 100            |
| 32  | 755279NR | 140       | 100 | 4           | 18 | 105            |
| 40  | 755280NR | 150       | 110 | 4           | 18 | 115            |
| 50  | 755281NR | 165       | 125 | 4           | 18 | 125            |
| 65  | 755282NR | 185       | 145 | 4           | 18 | 145            |
| 80  | 755283NR | 200       | 160 | 8           | 18 | 155            |
| 100 | 755284NR | 220       | 180 | 8           | 18 | 175            |
| 125 | 755285NR | 250       | 210 | 8           | 18 | 200            |
| 150 | 755286NR | 285       | 240 | 8           | 22 | 225            |
| 200 | 755288NR | 340       | 295 | 8           | 22 | 275            |
| 250 | 755289NR | 395       | 350 | 12          | 22 | 325            |

## DIN

## » GLOBE VALVES, DIN PN16 / PN25 / PN40

CAST STEEL BODY, STAINLESS STEEL TRIM, WITH CLASS CERTIFICATE

STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 15  | 755326 | 95        | 65  | 4           | 14 | 130          |
| 20  | 755327 | 105       | 75  | 4           | 14 | 150          |
| 25  | 755328 | 115       | 85  | 4           | 14 | 160          |
| 32  | 755329 | 140       | 100 | 4           | 18 | 180          |
| 40  | 755330 | 150       | 110 | 4           | 18 | 200          |
| 50  | 755331 | 165       | 125 | 4           | 18 | 230          |
| 65  | 755332 | 185       | 145 | 8           | 18 | 290          |
| 80  | 755333 | 200       | 160 | 8           | 18 | 310          |
| 100 | 755334 | 235       | 190 | 8           | 22 | 350          |
| 125 | 755335 | 270       | 220 | 8           | 26 | 400          |
| 150 | 755336 | 300       | 250 | 8           | 26 | 480          |



## SCREW DOWN NON RETURN (SDNR)

| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|----------|-----------|-----|-------------|----|--------------|
| 15  | 755326NR | 95        | 65  | 4           | 14 | 130          |
| 20  | 755327NR | 105       | 75  | 4           | 14 | 150          |
| 25  | 755328NR | 115       | 85  | 4           | 14 | 160          |
| 32  | 755329NR | 140       | 100 | 4           | 18 | 180          |
| 40  | 755330NR | 150       | 110 | 4           | 18 | 200          |
| 50  | 755331NR | 165       | 125 | 4           | 18 | 230          |
| 65  | 755332NR | 185       | 145 | 8           | 18 | 290          |
| 80  | 755333NR | 200       | 160 | 8           | 18 | 310          |
| 100 | 755334NR | 235       | 190 | 8           | 22 | 350          |
| 125 | 755335NR | 270       | 220 | 8           | 26 | 400          |
| 150 | 755336NR | 300       | 250 | 8           | 26 | 480          |



» ANGLE VALVES, DIN PN16 / PN25 / PN40

CAST STEEL BODY & STAINLESS STEEL TRIM, WITH CLASS CERTIFICATE

STOP (FIXED DISC)



| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|--------|-----------|-----|-------------|----|----------------|
| 15  | 755341 | 95        | 65  | 4           | 14 | 90             |
| 20  | 755342 | 105       | 75  | 4           | 14 | 95             |
| 25  | 755343 | 115       | 85  | 4           | 14 | 100            |
| 32  | 755344 | 140       | 100 | 4           | 18 | 105            |
| 40  | 755345 | 150       | 110 | 4           | 18 | 115            |
| 50  | 755346 | 165       | 125 | 4           | 18 | 125            |
| 65  | 755347 | 185       | 145 | 8           | 18 | 145            |
| 80  | 755348 | 200       | 160 | 8           | 18 | 155            |
| 100 | 755349 | 235       | 190 | 8           | 22 | 175            |
| 125 | 755350 | 270       | 220 | 8           | 26 | 200            |
| 150 | 755351 | 300       | 250 | 8           | 26 | 225            |

SCREW DOWN NON RETURN (SDNR)



| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Center to Face |
|-----|----------|-----------|-----|-------------|----|----------------|
| 15  | 755341NR | 95        | 65  | 4           | 14 | 90             |
| 20  | 755342NR | 105       | 75  | 4           | 14 | 95             |
| 25  | 755343NR | 115       | 85  | 4           | 14 | 100            |
| 32  | 755344NR | 140       | 100 | 4           | 18 | 105            |
| 40  | 755345NR | 150       | 110 | 4           | 18 | 115            |
| 50  | 755346NR | 165       | 125 | 4           | 18 | 125            |
| 65  | 755347NR | 185       | 145 | 8           | 18 | 145            |
| 80  | 755348NR | 200       | 160 | 8           | 18 | 155            |
| 100 | 755349NR | 235       | 190 | 8           | 22 | 175            |
| 125 | 755350NR | 270       | 220 | 8           | 26 | 200            |
| 150 | 755351NR | 300       | 250 | 8           | 26 | 225            |

## DIN

## » GLOBE VALVES, BELLOW SEALED TYPE FOR THERMO OIL APPLICATION

MODULAR CAST IRON BODY &amp; STAINLESS STEEL TRIM, DIN PN16

STOP (FIXED DISC)

| DN  | Code   | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|--------|-----------|-----|-------------|----|--------------|
| 15  | 755378 | 95        | 65  | 4           | 14 | 130          |
| 20  | 755379 | 105       | 75  | 4           | 14 | 150          |
| 25  | 755380 | 115       | 85  | 4           | 14 | 160          |
| 32  | 755381 | 140       | 100 | 4           | 18 | 180          |
| 40  | 755382 | 150       | 110 | 4           | 18 | 200          |
| 50  | 755383 | 165       | 125 | 4           | 18 | 230          |
| 65  | 755384 | 185       | 145 | 4           | 18 | 290          |
| 80  | 755385 | 200       | 160 | 8           | 18 | 310          |
| 100 | 755386 | 220       | 180 | 8           | 18 | 350          |
| 125 | 755387 | 250       | 210 | 8           | 18 | 400          |
| 150 | 755388 | 285       | 240 | 8           | 22 | 480          |
| 200 | 755389 | 340       | 295 | 12          | 22 | 600          |



## SCREW DOWN NON RETURN (SDNR)

| DN  | Code     | Flange OD | PCD | Holes x Dia |    | Face to Face |
|-----|----------|-----------|-----|-------------|----|--------------|
| 15  | 755378NR | 95        | 65  | 4           | 14 | 130          |
| 20  | 755379NR | 105       | 75  | 4           | 14 | 150          |
| 25  | 755380NR | 115       | 85  | 4           | 14 | 160          |
| 32  | 755381NR | 140       | 100 | 4           | 18 | 180          |
| 40  | 755382NR | 150       | 110 | 4           | 18 | 200          |
| 50  | 755383NR | 165       | 125 | 4           | 18 | 230          |
| 65  | 755384NR | 185       | 145 | 4           | 18 | 290          |
| 80  | 755385NR | 200       | 160 | 8           | 18 | 310          |
| 100 | 755386NR | 220       | 180 | 8           | 18 | 350          |
| 125 | 755387NR | 250       | 210 | 8           | 18 | 400          |
| 150 | 755388NR | 285       | 240 | 8           | 22 | 480          |
| 200 | 755389NR | 340       | 295 | 12          | 22 | 600          |





## » GLOBE VALVES, DIN PN16

BRONZE BODY &amp; TRIM, UNION BONNET, STOP (FIXED DISC) SHORT PATTERN

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 755121 | 95        | 65  | 4               | 14 | 70           |
| 20 | 755122 | 105       | 75  | 4               | 14 | 80           |
| 25 | 755123 | 115       | 85  | 4               | 14 | 90           |
| 32 | 755124 | 140       | 100 | 4               | 18 | 105          |
| 40 | 755125 | 150       | 110 | 4               | 18 | 120          |
| 50 | 755126 | 165       | 125 | 4               | 18 | 140          |



## » GLOBE VALVES, DIN PN16

BRONZE BODY &amp; TRIM, BOLTED BONNET, STOP (FIXED DISC)

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 755201 | 95        | 65  | 4               | 14 | 130          |
| 20 | 755202 | 105       | 75  | 4               | 14 | 150          |
| 25 | 755203 | 115       | 85  | 4               | 14 | 160          |
| 32 | 755204 | 140       | 100 | 4               | 18 | 180          |
| 40 | 755205 | 150       | 110 | 4               | 18 | 200          |
| 50 | 755206 | 165       | 125 | 4               | 18 | 230          |



## » ANGLE VALVES, DIN PN16

BRONZE BODY &amp; TRIM, BOLTED BONNET, STOP (FIXED DISC)

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|--------|-----------|-----|-----------------|----|----------------|
| 15 | 755216 | 95        | 65  | 4               | 14 | 90             |
| 20 | 755217 | 105       | 75  | 4               | 14 | 95             |
| 25 | 755218 | 115       | 85  | 4               | 14 | 100            |
| 32 | 755219 | 140       | 100 | 4               | 18 | 105            |
| 40 | 755220 | 150       | 110 | 4               | 18 | 115            |
| 50 | 755221 | 165       | 125 | 4               | 18 | 125            |

## JIS

## » STORM VALVES, VERTICAL PATTERN, JIS 5K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 754241 | 130       | 105 | 4               | 15 | 210          |
| 65  | 754242 | 155       | 130 | 4               | 15 | 240          |
| 80  | 754243 | 180       | 145 | 4               | 19 | 260          |
| 100 | 754244 | 200       | 165 | 8               | 19 | 280          |
| 125 | 754245 | 235       | 200 | 8               | 19 | 330          |
| 150 | 754246 | 265       | 230 | 8               | 19 | 360          |



## » STORM VALVES, ANGLE PATTERN, JIS 5K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|-----------|-----|-----------------|----|----------------|
| 50  | 754251 | 130       | 105 | 4               | 15 | 170            |
| 65  | 754252 | 155       | 130 | 4               | 15 | 200            |
| 80  | 754253 | 180       | 145 | 4               | 19 | 220            |
| 100 | 754254 | 200       | 165 | 8               | 19 | 250            |
| 125 | 754255 | 235       | 200 | 8               | 19 | 270            |
| 150 | 754256 | 265       | 230 | 8               | 19 | 310            |



## » STORM VALVES, VERTICAL PATTERN, JIS 10K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD                             | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|---------------------------------------|-----|-----------------|----|--------------|
| 50  | 754229 | 155                                   | 120 | 4               | 19 | 210          |
| 65  | 754230 | 175                                   | 140 | 4               | 19 | 240          |
| 80  | 754240 | 185                                   | 150 | 8               | 19 | 260          |
| 100 | 754248 | 210                                   | 175 | 8               | 19 | 280          |
| 125 | 754249 | 250                                   | 210 | 8               | 23 | 330          |
| 150 | 754250 | 280                                   | 240 | 8               | 23 | 360          |
| 200 | 754258 | UNDRILLED, TO BE DRILLED AS 5K OR 10K |     |                 |    | 500          |



## » STORM VALVES, ANGLE PATTERN, JIS 10K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD                             | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|---------------------------------------|-----|-----------------|----|----------------|
| 50  | 754259 | 155                                   | 120 | 4               | 19 | 170            |
| 65  | 754260 | 175                                   | 140 | 4               | 19 | 200            |
| 80  | 754283 | 185                                   | 150 | 8               | 19 | 220            |
| 100 | 754284 | 210                                   | 175 | 8               | 19 | 250            |
| 125 | 754297 | 250                                   | 210 | 8               | 23 | 270            |
| 150 | 754298 | 280                                   | 240 | 8               | 23 | 310            |
| 200 | 754299 | UNDRILLED, TO BE DRILLED AS 5K OR 10K |     |                 |    | 400            |



## » STORM VALVES, VERTICAL PATTERN, JIS 5K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE  
INTERNAL RUBBER COATED



| DN  | Code     | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|----------|-----------|-----|-----------------|----|--------------|
| 50  | 754241RC | 130       | 105 | 4               | 15 | 210          |
| 65  | 754242RC | 155       | 130 | 4               | 15 | 240          |
| 80  | 754243RC | 180       | 145 | 4               | 19 | 260          |
| 100 | 754244RC | 200       | 165 | 8               | 19 | 280          |
| 125 | 754245RC | 235       | 200 | 8               | 19 | 330          |
| 150 | 754246RC | 265       | 230 | 8               | 19 | 360          |

## » STORM VALVES, ANGLE PATTERN, JIS 5K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE  
INTERNAL RUBBER COATED



| DN  | Code     | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|----------|-----------|-----|-----------------|----|----------------|
| 50  | 754251RC | 130       | 105 | 4               | 15 | 170            |
| 65  | 754252RC | 155       | 130 | 4               | 15 | 200            |
| 80  | 754253RC | 180       | 145 | 4               | 19 | 220            |
| 100 | 754254RC | 200       | 165 | 8               | 19 | 250            |
| 125 | 754255RC | 235       | 200 | 8               | 19 | 270            |
| 150 | 754256RC | 265       | 230 | 8               | 19 | 310            |

## » STORM VALVES, VERTICAL PATTERN, JIS 10K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE  
INTERNAL RUBBER COATED



| DN  | Code     | Flange OD                             | PCD | Holes no. x Dia |    | Face to Face |
|-----|----------|---------------------------------------|-----|-----------------|----|--------------|
| 50  | 754229RC | 155                                   | 120 | 4               | 19 | 210          |
| 65  | 754230RC | 175                                   | 140 | 4               | 19 | 240          |
| 80  | 754240RC | 185                                   | 150 | 8               | 19 | 260          |
| 100 | 754248RC | 210                                   | 175 | 8               | 19 | 280          |
| 125 | 754249RC | 250                                   | 210 | 8               | 23 | 330          |
| 150 | 754250RC | 280                                   | 240 | 8               | 23 | 360          |
| 200 | 754258RC | UNDRILLED, TO BE DRILLED AS 5K OR 10K |     |                 |    | 500          |

## » STORM VALVES, ANGLE PATTERN, JIS 10K F3060

CAST STEEL BODY, STAINLESS STEEL 316 STEM; BRONZE DISC & SEAT  
WITH CLOSING DEVICE, WITH CLASS CERTIFICATE  
INTERNAL RUBBER COATED



| DN  | Code     | Flange OD                             | PCD | Holes no. x Dia |    | Center to Face |
|-----|----------|---------------------------------------|-----|-----------------|----|----------------|
| 50  | 754259RC | 155                                   | 120 | 4               | 19 | 170            |
| 65  | 754260RC | 175                                   | 140 | 4               | 19 | 200            |
| 80  | 754283RC | 185                                   | 150 | 8               | 19 | 220            |
| 100 | 754284RC | 210                                   | 175 | 8               | 19 | 250            |
| 125 | 754297RC | 250                                   | 210 | 8               | 23 | 270            |
| 150 | 754298RC | 280                                   | 240 | 8               | 23 | 310            |
| 200 | 754299RC | UNDRILLED, TO BE DRILLED AS 5K OR 10K |     |                 |    | 400            |

## DIN

### » GATE VALVES - DIN PN10 / PN16 FLANGED

MODULAR CAST IRON BODY, BRONZE TRIM, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 40  | 755661 | 150       | 110 | 4               | 18 | 140          |
| 50  | 755662 | 165       | 125 | 4               | 18 | 150          |
| 65  | 755663 | 185       | 145 | 4               | 18 | 170          |
| 80  | 755664 | 200       | 160 | 8               | 18 | 180          |
| 100 | 755665 | 220       | 180 | 8               | 18 | 190          |
| 125 | 755666 | 250       | 210 | 8               | 22 | 200          |
| 150 | 755667 | 285       | 240 | 8               | 22 | 210          |
| 200 | 755668 | 340       | 295 | 8               | 22 | 230          |
| 250 | 755669 | 395       | 350 | 12              | 22 | 250          |
| 300 | 755670 | 445       | 400 | 12              | 22 | 270          |



### » GATE VALVES - DIN PN10 / PN16 FLANGED

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 40  | 755571 | 150       | 110 | 4               | 18 | 140          |
| 50  | 755572 | 165       | 125 | 4               | 18 | 150          |
| 65  | 755573 | 185       | 145 | 4               | 18 | 170          |
| 80  | 755574 | 200       | 160 | 8               | 18 | 180          |
| 100 | 755575 | 220       | 180 | 8               | 18 | 190          |
| 125 | 755576 | 250       | 210 | 8               | 22 | 200          |
| 150 | 755577 | 285       | 240 | 8               | 22 | 210          |
| 200 | 755578 | 340       | 295 | 8               | 22 | 230          |
| 250 | 755579 | 395       | 350 | 12              | 22 | 250          |
| 300 | 755580 | 445       | 400 | 12              | 22 | 270          |



### » STORM VALVES, VERTICAL PATTERN, DIN PN10 / PN16 FLANGED

MODULAR CAST IRON BODY / BRONZE TRIM, WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 754291 | 165       | 125 | 4               | 18 | 200          |
| 65  | 754292 | 185       | 145 | 4               | 18 | 240          |
| 80  | 754293 | 200       | 160 | 8               | 18 | 260          |
| 100 | 754294 | 220       | 180 | 8               | 18 | 300          |
| 125 | 754295 | 250       | 210 | 8               | 22 | 350          |
| 150 | 754296 | 285       | 240 | 8               | 22 | 400          |



### » STORM VALVES, ANGLE PATTERN, DIN PN10 / PN16 FLANGED

MODULAR CAST IRON BODY / BRONZE TRIM, WITH CLASS CERTIFICATE

| SIZE                        | 50     | 65     | 80     | 100    | 125    | 150    |
|-----------------------------|--------|--------|--------|--------|--------|--------|
| CODE                        | 754277 | 754278 | 754279 | 754280 | 754281 | 754282 |
| INLET FLANGE O.D.           | 165    | 185    | 200    | 220    | 250    | 285    |
| INLET FLANGE PCD            | 125    | 145    | 160    | 180    | 210    | 240    |
| INLET FLANGE HOLES x DIA    | 4      | 4   18 | 8   18 | 8   18 | 8   18 | 8   22 |
| OUTLET FLANGE O.D.          | 200    | 220    | 250    | 285    | 315    | 340    |
| OUTLET FLANGE PCD           | 160    | 180    | 210    | 240    | 270    | 295    |
| OUTLET FLANGE HOLES x DIA   | 8      | 8   18 | 8   18 | 8   22 | 8   22 | 8   22 |
| FACE OUTLET TO INLET CENTER | 180    | 200    | 215    | 250    | 290    | 330    |
| FACE INLET TO CENTER OUTLET | 90     | 100    | 108    | 130    | 152    | 176    |





## » GATE VALVES, JIS 5K

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code       | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|------------|-----------|-----|-----------------|----|--------------|
| 50  | 750801CS5K | 130       | 105 | 4               | 15 | 180          |
| 65  | 750802CS5K | 155       | 130 | 4               | 15 | 190          |
| 80  | 750803CS5K | 180       | 145 | 4               | 19 | 200          |
| 100 | 750804CS5K | 200       | 165 | 8               | 19 | 230          |
| 125 | 750805CS5K | 235       | 200 | 8               | 19 | 250          |
| 150 | 750806CS5K | 265       | 230 | 8               | 19 | 270          |
| 200 | 750807CS5K | 320       | 280 | 8               | 23 | 290          |



## » GATE VALVES, JIS 10K F7366

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 750901 | 155       | 120 | 4               | 19 | 200          |
| 65  | 750902 | 175       | 140 | 4               | 19 | 220          |
| 80  | 750903 | 185       | 150 | 8               | 19 | 230          |
| 100 | 750904 | 210       | 175 | 8               | 19 | 250          |
| 125 | 750905 | 250       | 210 | 8               | 23 | 270          |
| 150 | 750906 | 280       | 240 | 8               | 23 | 290          |
| 200 | 750907 | 330       | 290 | 12              | 23 | 310          |



## » GATE VALVES, JIS 5K F7363

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 750801 | 130       | 105 | 4               | 15 | 180          |
| 65  | 750802 | 155       | 130 | 4               | 15 | 190          |
| 80  | 750803 | 180       | 145 | 4               | 19 | 200          |
| 100 | 750804 | 200       | 165 | 8               | 19 | 230          |
| 125 | 750805 | 235       | 200 | 8               | 19 | 250          |
| 150 | 750806 | 265       | 230 | 8               | 19 | 270          |



## » GATE VALVES, JIS 10K F7364

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 750821 | 155       | 120 | 4               | 19 | 200          |
| 65  | 750822 | 175       | 140 | 4               | 19 | 220          |
| 80  | 750823 | 185       | 150 | 8               | 19 | 230          |
| 100 | 750824 | 210       | 175 | 8               | 19 | 250          |
| 125 | 750825 | 250       | 210 | 8               | 23 | 270          |
| 150 | 750826 | 280       | 240 | 8               | 23 | 290          |



## » GATE VALVES, JIS 16K F7369 - SHORT PATTERN

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 750832 | 155       | 120 | 8               | 19 | 200          |
| 65  | 750833 | 175       | 140 | 8               | 19 | 220          |
| 80  | 750834 | 200       | 160 | 8               | 23 | 230          |
| 100 | 750835 | 225       | 185 | 8               | 23 | 250          |
| 125 | 750836 | 270       | 225 | 8               | 25 | 270          |
| 150 | 750837 | 305       | 260 | 12              | 25 | 290          |



## » GATE VALVES, JIS 16K F7369 - LONG PATTERN

CAST IRON BODY, BRONZE TRIM

| DN  | Code      | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|-----------|-----------|-----|-----------------|----|--------------|
| 50  | 750832K16 | 155       | 120 | 8               | 19 | 210          |
| 65  | 750833K16 | 175       | 140 | 8               | 19 | 240          |
| 80  | 750834K16 | 200       | 160 | 8               | 23 | 260          |
| 100 | 750835K16 | 225       | 185 | 8               | 23 | 290          |
| 125 | 750836K16 | 270       | 225 | 8               | 25 | 310          |
| 150 | 750837K16 | 305       | 260 | 12              | 25 | 330          |

## JIS

## » STEAM TRAPS, JIS 16K

FLANGED TYPE, FCD450 BODY, STAINLESS STEEL TRIM, WITH DRAIN VALVE

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 752491 | 95        | 70  | 4               | 15 | 136          |
| 20 | 752492 | 100       | 75  | 4               | 15 | 140          |
| 25 | 752493 | 125       | 90  | 4               | 19 | 150          |
| 32 | 752494 | 135       | 100 | 4               | 19 | 190          |
| 40 | 752495 | 140       | 105 | 4               | 19 | 260          |
| 50 | 752496 | 155       | 120 | 4               | 19 | 260          |



## » Y - STRAINERS, JIS 10K

FLANGED TYPE, FCD450 BODY, STAINLESS STEEL TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 752462 | 155       | 120 | 4               | 19 | 220          |
| 65  | 752463 | 175       | 140 | 4               | 19 | 270          |
| 80  | 752464 | 185       | 150 | 8               | 19 | 290          |
| 100 | 752465 | 210       | 175 | 8               | 19 | 350          |
| 125 | 752466 | 250       | 210 | 8               | 23 | 390          |



## » SWING CHECK VALVES, F-7372, JIS 5K

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 751421 | 130       | 105 | 4               | 15 | 190          |
| 65  | 751422 | 155       | 130 | 4               | 15 | 220          |
| 80  | 751423 | 180       | 145 | 4               | 19 | 250          |
| 100 | 751424 | 200       | 165 | 8               | 19 | 280          |
| 125 | 751425 | 235       | 200 | 8               | 19 | 330          |
| 150 | 751426 | 265       | 230 | 8               | 19 | 380          |



## » SWING CHECK VALVES, F-7373, JIS 10K

CAST IRON BODY, BRONZE TRIM

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 751431 | 155       | 120 | 4               | 19 | 210          |
| 65  | 751432 | 175       | 140 | 4               | 19 | 240          |
| 80  | 751433 | 185       | 150 | 8               | 19 | 270          |
| 100 | 751434 | 210       | 175 | 8               | 19 | 300          |
| 125 | 751435 | 250       | 210 | 8               | 23 | 350          |
| 150 | 751436 | 280       | 240 | 8               | 23 | 400          |



# DIN

## » SWING CHECK VALVES

CAST IRON BODY, BRONZE TRIM, METAL SEATED DIN PN10/16 FLANGED



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 40  | 755901 | 150       | 110 | 4               | 18 | 180          |
| 50  | 755902 | 165       | 125 | 4               | 18 | 200          |
| 65  | 755903 | 185       | 145 | 4               | 18 | 240          |
| 80  | 755904 | 200       | 160 | 8               | 18 | 260          |
| 100 | 755905 | 220       | 180 | 8               | 18 | 300          |
| 125 | 755906 | 250       | 210 | 8               | 18 | 350          |
| 150 | 755907 | 285       | 240 | 8               | 22 | 400          |

## » MUD BOXES WITH STAINLESS STEEL BASKET

BRONZE DRAIN PLUG, DIN PN16 FLANGED



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 40  | 872065 | 150       | 110 | 4               | 18 | 200          |
| 50  | 872066 | 165       | 125 | 4               | 18 | 230          |
| 65  | 872067 | 185       | 145 | 4               | 18 | 290          |
| 80  | 872068 | 200       | 160 | 8               | 18 | 310          |
| 100 | 872069 | 220       | 180 | 8               | 18 | 350          |
| 125 | 872070 | 250       | 210 | 8               | 18 | 400          |
| 150 | 872071 | 285       | 240 | 8               | 22 | 480          |

## » QUICK CLOSING GLOBE VALVES, DIN PN10 / PN16 FLANGED

NODULAR CAST IRON BODY, STAINLESS STEEL TRIM, WITH CLASS CERTIFICATE



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 15  | 874621 | 95        | 65  | 4               | 14 | 130          |
| 20  | 874622 | 105       | 75  | 4               | 14 | 150          |
| 25  | 874623 | 115       | 85  | 4               | 14 | 160          |
| 32  | 874624 | 140       | 100 | 4               | 18 | 180          |
| 40  | 874625 | 150       | 110 | 4               | 18 | 200          |
| 50  | 874626 | 165       | 125 | 4               | 18 | 230          |
| 65  | 874627 | 185       | 145 | 4               | 18 | 290          |
| 80  | 874628 | 200       | 160 | 8               | 18 | 310          |
| 100 | 874629 | 220       | 180 | 8               | 18 | 350          |
| 125 | 874630 | 250       | 210 | 8               | 18 | 400          |
| 150 | 874649 | 285       | 240 | 8               | 22 | 480          |

## » QUICK CLOSING ANGLE VALVES, DIN PN10 / PN16 FLANGED

NODULAR CAST IRON BODY, STAINLESS STEEL TRIM, WITH CLASS CERTIFICATE



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|-----------|-----|-----------------|----|----------------|
| 15  | 874631 | 95        | 65  | 4               | 14 | 90             |
| 20  | 874632 | 105       | 75  | 4               | 14 | 95             |
| 25  | 874633 | 115       | 85  | 4               | 14 | 100            |
| 32  | 874634 | 140       | 100 | 4               | 18 | 105            |
| 40  | 874635 | 150       | 110 | 4               | 18 | 115            |
| 50  | 874636 | 165       | 125 | 4               | 18 | 125            |
| 65  | 874637 | 185       | 145 | 4               | 18 | 145            |
| 80  | 874638 | 200       | 160 | 8               | 18 | 155            |
| 100 | 874639 | 220       | 180 | 8               | 18 | 175            |
| 125 | 874640 | 250       | 210 | 8               | 18 | 200            |
| 150 | 874651 | 285       | 240 | 8               | 22 | 225            |

# JIS

## » QUICK CLOSING GLOBE VALVES, F7399 JIS 5K

BRONZE BODY & TRIM - WITH CLASS CERTIFICATE

| DN | Code     | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|----------|-----------|-----|-----------------|----|--------------|
| 15 | 87450115 | 80        | 60  | 4               | 12 | 110          |
| 20 | 87450120 | 85        | 65  | 4               | 12 | 120          |
| 25 | 874501   | 95        | 75  | 4               | 12 | 120          |
| 32 | 87450132 | 115       | 90  | 4               | 15 | 160          |
| 40 | 874502   | 120       | 95  | 4               | 15 | 160          |



## » QUICK CLOSING ANGLE VALVES, F7399-A JIS 5K

BRONZE BODY & TRIM - WITH CLASS CERTIFICATE

| DN | Code     | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|----------|-----------|-----|-----------------|----|----------------|
| 15 | 87452115 | 80        | 60  | 4               | 12 | 70             |
| 20 | 87452120 | 85        | 65  | 4               | 12 | 85             |
| 25 | 874521   | 95        | 75  | 4               | 12 | 85             |
| 32 | 87452132 | 115       | 90  | 4               | 15 | 100            |
| 40 | 874522   | 120       | 95  | 4               | 15 | 100            |



## » QUICK CLOSING GLOBE VALVES, F7399 JIS 5K

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|--------|-----------|-----|-----------------|----|--------------|
| 50  | 874503 | 130       | 105 | 4               | 15 | 210          |
| 65  | 874504 | 155       | 130 | 4               | 15 | 250          |
| 80  | 874505 | 180       | 145 | 4               | 19 | 280          |
| 100 | 874506 | 200       | 165 | 8               | 19 | 340          |
| 125 | 874507 | 235       | 200 | 8               | 19 | 410          |
| 150 | 874508 | 265       | 230 | 8               | 19 | 480          |
| 200 | 874509 | 320       | 280 | 8               | 23 | 570          |



## » QUICK CLOSING ANGLE VALVES, F7399-A JIS 5K

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|--------|-----------|-----|-----------------|----|----------------|
| 50  | 874523 | 130       | 105 | 4               | 15 | 100            |
| 65  | 874524 | 155       | 130 | 4               | 15 | 115            |
| 80  | 874525 | 180       | 145 | 4               | 19 | 130            |
| 100 | 874526 | 200       | 165 | 8               | 19 | 150            |
| 125 | 874527 | 235       | 200 | 8               | 19 | 170            |
| 150 | 874528 | 265       | 230 | 8               | 19 | 190            |
| 200 | 874529 | 320       | 280 | 8               | 23 | 220            |



**JIS**



» QUICK CLOSING GLOBE VALVES, F7399 JIS 16K

BRONZE BODY & TRIM - WITH CLASS CERTIFICATE

| DN | Code        | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|-------------|-----------|-----|-----------------|----|--------------|
| 15 | 87450115K16 | 95        | 70  | 4               | 15 | 110          |
| 20 | 87450120K16 | 100       | 75  | 4               | 15 | 130          |
| 25 | 874501K16   | 125       | 90  | 4               | 19 | 130          |
| 32 | 87450132K16 | 135       | 100 | 4               | 19 | 170          |
| 40 | 874502K16   | 140       | 105 | 4               | 19 | 170          |



» QUICK CLOSING ANGLE VALVES, F7399-A JIS 16K

BRONZE BODY & TRIM - WITH CLASS CERTIFICATE

| DN | Code        | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|----|-------------|-----------|-----|-----------------|----|----------------|
| 15 | 87452115K16 | 95        | 70  | 4               | 15 | 70             |
| 20 | 87452120K16 | 100       | 75  | 4               | 15 | 85             |
| 25 | 874521K16   | 125       | 90  | 4               | 19 | 85             |
| 32 | 87452132K16 | 135       | 100 | 4               | 19 | 100            |
| 40 | 874522K16   | 140       | 105 | 4               | 19 | 100            |



» QUICK CLOSING GLOBE VALVES, F7399 JIS 10K

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code      | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|-----|-----------|-----------|-----|-----------------|----|--------------|
| 50  | 874503K10 | 155       | 120 | 4               | 19 | 220          |
| 65  | 874504K10 | 175       | 140 | 4               | 19 | 270          |
| 80  | 874505K10 | 185       | 150 | 8               | 19 | 300          |
| 100 | 874506K10 | 210       | 175 | 8               | 19 | 350          |
| 125 | 874507K10 | 250       | 210 | 8               | 23 | 420          |
| 150 | 874508K10 | 280       | 240 | 8               | 23 | 490          |
| 200 | 874509K10 | 330       | 290 | 12              | 23 | 570          |



» QUICK CLOSING ANGLE VALVES, F7399-A JIS 10K

CAST STEEL BODY, STAINLESS STEEL TRIM - WITH CLASS CERTIFICATE

| DN  | Code      | Flange OD | PCD | Holes no. x Dia |    | Center to Face |
|-----|-----------|-----------|-----|-----------------|----|----------------|
| 50  | 874523K10 | 155       | 120 | 4               | 19 | 120            |
| 65  | 874524K10 | 175       | 140 | 4               | 19 | 130            |
| 80  | 874525K10 | 185       | 150 | 8               | 19 | 140            |
| 100 | 874526K10 | 210       | 175 | 8               | 19 | 160            |
| 125 | 874527K10 | 250       | 210 | 8               | 23 | 180            |
| 150 | 874528K10 | 280       | 240 | 8               | 23 | 205            |
| 200 | 874529K10 | 330       | 290 | 12              | 23 | 230            |

**JIS**

## » KEYSTONE VALVE KOREA, FIG 1 - JIS 5K

BUTTERFLY VALVES, WAFER TYPE, JIS 5K

| DN  | Code     | Body   | Stem   | Disc       | Seat | L   |
|-----|----------|--------|--------|------------|------|-----|
| 50  | 75KV2201 | FC 200 | SUS304 | Alu-Bronze | NBR  | 41  |
| 65  | 75KV2202 | FC 200 | SUS304 | Alu-Bronze | NBR  | 45  |
| 80  | 75KV2203 | FC 200 | SUS304 | Alu-Bronze | NBR  | 45  |
| 100 | 75KV2204 | FC 200 | SUS304 | Alu-Bronze | NBR  | 51  |
| 125 | 75KV2205 | FC 200 | SUS304 | Alu-Bronze | NBR  | 54  |
| 150 | 75KV2206 | FC 200 | SUS304 | Alu-Bronze | NBR  | 54  |
| 200 | 75KV2207 | FC 200 | SUS304 | Alu-Bronze | NBR  | 64  |
| 250 | 75KV2208 | FC 200 | SUS304 | Alu-Bronze | NBR  | 64  |
| 300 | 75KV2209 | FC 200 | SUS304 | Alu-Bronze | NBR  | 76  |
| 350 | 75KV2210 | FC 200 | SUS304 | Alu-Bronze | NBR  | 76  |
| 400 | 75KV2211 | FC 200 | SUS304 | Alu-Bronze | NBR  | 102 |
| 450 | 75KV2212 | FC 200 | SUS304 | Alu-Bronze | NBR  | 108 |

\* DN50 TO DN125 WITH LOCK LEVER OPERATOR  
 DN150 TO DN450 WITH WORM GEAR OPERATOR



## » KEYSTONE VALVE KOREA, FIG 2 - JIS 5K

BUTTERFLY VALVES, LUG TYPE, JIS 5K

| DN  | Code      | Body   | Stem   | Disc       | Seat | L   |
|-----|-----------|--------|--------|------------|------|-----|
| 50  | 75KV2312  | FC 200 | SUS304 | Alu-Bronze | NBR  | 41  |
| 65  | 75KV2313  | FC 200 | SUS304 | Alu-Bronze | NBR  | 45  |
| 80  | 75KV2314  | FC 200 | SUS304 | Alu-Bronze | NBR  | 45  |
| 100 | 75KV2315  | FC 200 | SUS304 | Alu-Bronze | NBR  | 51  |
| 125 | 75KV2316  | FC 200 | SUS304 | Alu-Bronze | NBR  | 54  |
| 150 | 75KV2317  | FC 200 | SUS304 | Alu-Bronze | NBR  | 54  |
| 200 | 75KV2318  | FC 200 | SUS304 | Alu-Bronze | NBR  | 64  |
| 250 | 75KV2319  | FC 200 | SUS304 | Alu-Bronze | NBR  | 64  |
| 300 | 75KV2320  | FC 200 | SUS304 | Alu-Bronze | NBR  | 76  |
| 350 | 75KV23350 | FC 200 | SUS304 | Alu-Bronze | NBR  | 76  |
| 400 | 75KV23400 | FC 200 | SUS304 | Alu-Bronze | NBR  | 102 |
| 450 | 75KV23450 | FC 200 | SUS304 | Alu-Bronze | NBR  | 108 |

\* DN50 TO DN125 WITH LOCK LEVER OPERATOR  
 DN150 TO DN450 WITH WORM GEAR OPERATOR



## » KEYSTONE VALVE KOREA, FIG V11 - JIS 5K

BUTTERFLY VALVES, FLANGED TYPE, WORM GEAR OPERATED

| DN  | Code      | Body   | Stem   | Disc       | Seat | L   |
|-----|-----------|--------|--------|------------|------|-----|
| 80  | 75KV11080 | FC 200 | SUS304 | Alu-Bronze | NBR  | 60  |
| 100 | 75KV11100 | FC 200 | SUS304 | Alu-Bronze | NBR  | 60  |
| 125 | 75KV11125 | FC 200 | SUS304 | Alu-Bronze | NBR  | 100 |
| 150 | 75KV11150 | FC 200 | SUS304 | Alu-Bronze | NBR  | 100 |
| 200 | 75KV11200 | FC 200 | SUS304 | Alu-Bronze | NBR  | 100 |
| 250 | 75KV11250 | FC 200 | SUS304 | Alu-Bronze | NBR  | 110 |
| 300 | 75KV11300 | FC 200 | SUS304 | Alu-Bronze | NBR  | 110 |
| 350 | 75KV11350 | FC 200 | SUS304 | Alu-Bronze | NBR  | 120 |
| 400 | 75KV11400 | FC 200 | SUS304 | Alu-Bronze | NBR  | 130 |
| 450 | 75KV11450 | FC 200 | SUS304 | Alu-Bronze | NBR  | 150 |



## » BUTTERFLY VALVES, DOUBLE ECCENTRIC HIGH PERFORMANCE WAFER TYPE

UNDRILLED - CAN BE DRILLED AS PER JIS 10K - 16K - 20K - PN10 - PN25 FLANGES



| DN  | Code       | Body   | Stem             | Disc   | Seat            | L   |
|-----|------------|--------|------------------|--------|-----------------|-----|
| 80  | 75HVHPW080 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 48  |
| 100 | 75HVHPW100 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 54  |
| 125 | 75HVHPW125 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 57  |
| 150 | 75HVHPW150 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 57  |
| 200 | 75HVHPW200 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 64  |
| 250 | 75HVHPW250 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 71  |
| 300 | 75HVHPW300 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 81  |
| 350 | 75HVHPW350 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 92  |
| 400 | 75HVHPW400 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 102 |
| 450 | 75HVHPW450 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 114 |
| 500 | 75HVHPW500 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 127 |
| 550 | 75HVHPW550 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 154 |
| 600 | 75HVHPW600 | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 154 |

## » BUTTERFLY VALVES, DOUBLE ECCENTRIC, HIGH PERFORMANCE SEMI LUG TYPE

UNDRILLED - CAN BE DRILLED AS PER JIS 5K - 10K - 16K - 20K - PN10 - PN25 FLANGES



| DN  | Code        | Body   | Stem             | Disc   | Seat            | L   |
|-----|-------------|--------|------------------|--------|-----------------|-----|
| 80  | 75HVNFS080  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 60  |
| 100 | 75HVNFS100  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 60  |
| 125 | 75HVNFS125  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 100 |
| 125 | 75HVNFS125S | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 70  |
| 150 | 75HVNFS150  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 100 |
| 150 | 75HVNFS150S | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 90  |
| 200 | 75HVNFS200  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 100 |
| 200 | 75HVNFS200S | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 90  |
| 250 | 75HVNFS250  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 110 |
| 250 | 75HVNFS250S | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 90  |
| 300 | 75HVNFS300  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 110 |
| 300 | 75HVNFS300S | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 90  |
| 350 | 75HVNFS350  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 120 |
| 400 | 75HVNFS400  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 130 |
| 450 | 75HVNFS450  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 150 |
| 500 | 75HVNFS500  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 160 |
| 550 | 75HVNFS550  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 170 |
| 600 | 75HVNFS600  | SC 480 | 17-4 PH (SUS630) | SCS 14 | VITON or TEFLON | 170 |

## JIS / DIN

## » BUTTERFLY VALVES, CONCENTRIC WAFER TYPE, LOCK LEVER OPERATED

SUITABLE FOR MOUNTING BETWEEN JIS 5K/10K, PN6-PN10-PN16 FLANGES

| DN  | Code   | Body   | Stem   | Disc   | Seat | L  |
|-----|--------|--------|--------|--------|------|----|
| 50  | 752201 | FC 200 | SUS410 | SCS 13 | NBR  | 43 |
| 65  | 752202 | FC 200 | SUS410 | SCS 13 | NBR  | 46 |
| 80  | 752203 | FC 200 | SUS410 | SCS 13 | NBR  | 46 |
| 100 | 752204 | FC 200 | SUS410 | SCS 13 | NBR  | 52 |
| 125 | 752205 | FC 200 | SUS410 | SCS 13 | NBR  | 56 |
| 150 | 752206 | FC 200 | SUS410 | SCS 13 | NBR  | 56 |



## » BUTTERFLY VALVES, CONCENTRIC WAFER TYPE, WORM GEAR OPERATED

SUITABLE FOR MOUNTING BETWEEN JIS 5K/10K, PN6-PN10-PN16 FLANGES

| DN  | Code   | Body   | Stem   | Disc   | Seat | L   |
|-----|--------|--------|--------|--------|------|-----|
| 65  | 752212 | FC 200 | SUS410 | SCS 13 | NBR  | 46  |
| 80  | 752213 | FC 200 | SUS410 | SCS 13 | NBR  | 46  |
| 100 | 752214 | FC 200 | SUS410 | SCS 13 | NBR  | 52  |
| 125 | 752215 | FC 200 | SUS410 | SCS 13 | NBR  | 56  |
| 150 | 752216 | FC 200 | SUS410 | SCS 13 | NBR  | 56  |
| 200 | 752217 | FC 200 | SUS410 | SCS 13 | NBR  | 60  |
| 250 | 752218 | FC 200 | SUS410 | SCS 13 | NBR  | 68  |
| 300 | 752219 | FC 200 | SUS410 | SCS 13 | NBR  | 78  |
| 350 | 752220 | FC 200 | SUS410 | SCS 13 | NBR  | 78  |
| 400 | 752221 | FC 200 | SUS410 | SCS 13 | NBR  | 102 |
| 450 | 752222 | FC 200 | SUS410 | SCS 13 | NBR  | 114 |
| 500 | 752223 | FC 200 | SUS410 | SCS 13 | NBR  | 127 |
| 550 | 752224 | FC 200 | SUS410 | SCS 13 | NBR  | 154 |
| 600 | 752225 | FC 200 | SUS410 | SCS 13 | NBR  | 154 |
| 650 | 752226 | FC 200 | SUS410 | SCS 13 | NBR  | 165 |
| 700 | 752227 | FC 200 | SUS410 | SCS 13 | NBR  | 165 |



## » BUTTERFLY VALVES, CONCENTRIC WAFER TYPE, BARESHAFT

SUITABLE FOR MOUNTING BETWEEN JIS 5K/10K, PN6-PN10-PN16 FLANGES

| DN  | Code      | Body   | Stem   | Disc       | Seat | L   |
|-----|-----------|--------|--------|------------|------|-----|
| 50  | 752201ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 43  |
| 65  | 752202ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 46  |
| 80  | 752203ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 46  |
| 100 | 752204ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 52  |
| 125 | 752205ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 56  |
| 150 | 752206ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 56  |
| 200 | 752217ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 60  |
| 250 | 752218ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 68  |
| 300 | 752219ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 78  |
| 350 | 752220ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 78  |
| 400 | 752221ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 102 |
| 450 | 752222ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 114 |
| 500 | 752223ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 127 |
| 550 | 752224ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 154 |
| 600 | 752225ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 154 |
| 650 | 752226ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 165 |
| 700 | 752227ALB | FC 200 | SUS410 | Alu-Bronze | NBR  | 165 |



\* WORM GEAR BOXES TO BE INSTALLED UPON REQUEST

\* TOP FLANGE &amp; SHAFT ADAPTOR TO BE PROVIDED FOR REMOTE CONTROL ACTUATOR INSTALLATIONS



» BUTTERFLY VALVES - SEMI LUG TYPE JIS 5K  
CONCENTRIC SEMI LUG WAFER TYPE, WORM GEAR OPERATED

| DN  | Code       | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|------------|--------|--------|------------|------|-----|-----------------|----|
| 65  | 752212SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 130 | 4 M12           | 46 |
| 80  | 752213SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 145 | 4 M16           | 46 |
| 100 | 752214SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 165 | 4 M16           | 52 |
| 125 | 752215SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 200 | 4 M16           | 56 |
| 150 | 752216SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 230 | 4 M16           | 56 |
| 200 | 752217SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 280 | 4 M20           | 60 |
| 250 | 752218SLK5 | FC 200 | SUS410 | Alu-Bronze | NBR  | 345 | 4 M20           | 68 |



» BUTTERFLY VALVES - LUG TYPE JIS 5K - WITH VITON SEAT  
CONCENTRIC LUG TYPE, LOCK LEVER OPERATED

| DN  | Code      | Body   | Stem   | Disc  | Seat  | PCD | Holes no. x Dia | L  |
|-----|-----------|--------|--------|-------|-------|-----|-----------------|----|
| 40  | 752311FCV | FCD450 | SUS410 | SCS13 | VITON | 95  | 4 M12           | 40 |
| 50  | 752312FCV | FCD450 | SUS410 | SCS13 | VITON | 105 | 4 M12           | 43 |
| 65  | 752313FCV | FCD450 | SUS410 | SCS13 | VITON | 130 | 4 M12           | 46 |
| 80  | 752314FCV | FCD450 | SUS410 | SCS13 | VITON | 145 | 4 M16           | 46 |
| 100 | 752315FCV | FCD450 | SUS410 | SCS13 | VITON | 165 | 8 M16           | 52 |
| 125 | 752316FCV | FCD450 | SUS410 | SCS13 | VITON | 200 | 8 M16           | 56 |
| 150 | 752317FCV | FCD450 | SUS410 | SCS13 | VITON | 230 | 8 M16           | 56 |
| 200 | 752318FCV | FCD450 | SUS410 | SCS13 | VITON | 280 | 8 M20           | 60 |
| 250 | 752319FCV | FCD450 | SUS410 | SCS13 | VITON | 345 | 12 M20          | 68 |

\*\*\* FOR HIGH TEMPERATURE ENGINE LINES UP TO 120 DEG C.



» BUTTERFLY VALVES - LUG TYPE JIS 5K - WITH HI-VITON SEAT  
CONCENTRIC LUG TYPE, LOCK LEVER OPERATED

| DN  | Code       | Body   | Stem   | Disc  | Seat     | PCD | Holes no. x Dia | L  |
|-----|------------|--------|--------|-------|----------|-----|-----------------|----|
| 40  | 752311FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 95  | 4 M12           | 40 |
| 50  | 752312FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 105 | 4 M12           | 43 |
| 65  | 752313FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 130 | 4 M12           | 46 |
| 80  | 752314FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 145 | 4 M16           | 46 |
| 100 | 752315FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 165 | 8 M16           | 52 |
| 125 | 752316FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 200 | 8 M16           | 56 |
| 150 | 752317FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 230 | 8 M16           | 56 |
| 200 | 752318FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 280 | 8 M20           | 60 |
| 250 | 752319FCHV | FCD450 | SUS410 | SCS13 | HI-VITON | 345 | 12 M20          | 68 |

\*\*\* FOR "LDCL" HIGH TEMPERATURE ENGINE LINES UP TO 250 DEG C.

## » BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 5K

LOCK LEVER OPERATED, WITH CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|----------|--------|--------|------------|------|-----|-----------------|----|
| 40  | 752311CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 95  | 4 M12           | 40 |
| 50  | 752312CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 105 | 4 M12           | 43 |
| 65  | 752313CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 130 | 4 M12           | 46 |
| 80  | 752314CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 145 | 4 M16           | 46 |
| 100 | 752315CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 165 | 8 M16           | 52 |
| 125 | 752316CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 200 | 8 M16           | 56 |



## » BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 5K

WORM GEAR OPERATED, WITH CLASS CERTIFICATE

| DN  | Code      | Body  | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L   |
|-----|-----------|-------|--------|------------|------|-----|-----------------|-----|
| 150 | 752317CS  | SC480 | SUS410 | Alu-Bronze | NBR  | 230 | 8 M16           | 56  |
| 200 | 752318CS  | SC480 | SUS410 | Alu-Bronze | NBR  | 280 | 8 M20           | 60  |
| 250 | 752319CS  | SC480 | SUS410 | Alu-Bronze | NBR  | 345 | 12 M20          | 68  |
| 300 | 752320CS  | SC480 | SUS410 | Alu-Bronze | NBR  | 390 | 12 M20          | 78  |
| 350 | 7523350CS | SC480 | SUS410 | Alu-Bronze | NBR  | 435 | 12 M22          | 78  |
| 400 | 7523400CS | SC480 | SUS410 | Alu-Bronze | NBR  | 495 | 16 M22          | 102 |
| 450 | 7523450CS | SC480 | SUS410 | Alu-Bronze | NBR  | 555 | 16 M22          | 114 |



## » BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 10K

LOCK LEVER OPERATED, WITH CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|----------|--------|--------|------------|------|-----|-----------------|----|
| 40  | 752321CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 105 | 4 M16           | 40 |
| 50  | 752322CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 120 | 4 M16           | 43 |
| 65  | 752323CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 140 | 4 M16           | 46 |
| 80  | 752324CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 150 | 8 M16           | 46 |
| 100 | 752325CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 175 | 8 M16           | 52 |
| 125 | 752326CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 210 | 8 M20           | 56 |



## » BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 10K

WORM GEAR OPERATED, WITH CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L   |
|-----|----------|--------|--------|------------|------|-----|-----------------|-----|
| 150 | 752327CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 240 | 8 M20           | 56  |
| 200 | 752328CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 290 | 12 M20          | 60  |
| 250 | 752329CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 355 | 12 M22          | 68  |
| 300 | 752330CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 400 | 16 M22          | 78  |
| 350 | 752331CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 445 | 16 M22          | 78  |
| 400 | 752332CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 510 | 16 M24          | 102 |
| 450 | 752333CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 565 | 20 M24          | 114 |
| 500 | 752334CS | SC 480 | SUS410 | Alu-Bronze | NBR  | 620 | 20 M24          | 127 |





» BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 5K  
LOCK LEVER OPERATED, WITHOUT CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|----------|--------|--------|------------|------|-----|-----------------|----|
| 40  | 752311FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 95  | 4 M12           | 40 |
| 50  | 752312FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 105 | 4 M12           | 43 |
| 65  | 752313FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 130 | 4 M12           | 46 |
| 80  | 752314FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 145 | 4 M16           | 46 |
| 100 | 752315FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 165 | 8 M16           | 52 |
| 125 | 752316FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 200 | 8 M16           | 56 |



» BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 5K  
WORM GEAR OPERATED, WITHOUT CLASS CERTIFICATE

| DN  | Code      | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L   |
|-----|-----------|--------|--------|------------|------|-----|-----------------|-----|
| 150 | 752317FC  | FC 200 | SUS410 | Alu-Bronze | NBR  | 230 | 8 M16           | 56  |
| 200 | 752318FC  | FC 200 | SUS410 | Alu-Bronze | NBR  | 280 | 8 M20           | 60  |
| 250 | 752319FC  | FC 200 | SUS410 | Alu-Bronze | NBR  | 345 | 12 M20          | 68  |
| 300 | 752320FC  | FC 200 | SUS410 | Alu-Bronze | NBR  | 390 | 12 M20          | 78  |
| 350 | 7523350FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 435 | 12 M22          | 78  |
| 400 | 7523400FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 495 | 16 M22          | 102 |
| 450 | 7523450FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 555 | 16 M22          | 114 |



» BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 10K  
LOCK LEVER OPERATED, WITHOUT CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|----------|--------|--------|------------|------|-----|-----------------|----|
| 40  | 752321FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 105 | 4 M16           | 40 |
| 50  | 752322FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 120 | 4 M16           | 43 |
| 65  | 752323FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 140 | 4 M16           | 46 |
| 80  | 752324FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 150 | 8 M16           | 46 |
| 100 | 752325FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 175 | 8 M16           | 52 |
| 125 | 752326FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 210 | 8 M20           | 56 |



» BUTTERFLY VALVES, CONCENTRIC LUG TYPE - JIS 10K  
WORM GEAR OPERATED, WITHOUT CLASS CERTIFICATE

| DN  | Code     | Body   | Stem   | Disc       | Seat | PCD | Holes no. x Dia | L   |
|-----|----------|--------|--------|------------|------|-----|-----------------|-----|
| 150 | 752327FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 240 | 8 M20           | 56  |
| 200 | 752328FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 290 | 12 M20          | 60  |
| 250 | 752329FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 355 | 12 M22          | 68  |
| 300 | 752330FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 400 | 16 M22          | 78  |
| 350 | 752331FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 445 | 16 M22          | 78  |
| 400 | 752332FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 510 | 16 M24          | 102 |
| 450 | 752333FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 565 | 20 M24          | 114 |
| 500 | 752334FC | FC 200 | SUS410 | Alu-Bronze | NBR  | 620 | 20 M24          | 127 |

**JIS****» BUTTERFLY VALVES, FLANGE TYPE, F7480 JIS 5K**

WORM GEAR OPERATED - WITH CLASS CERTIFICATE

| DN  | Code        | Body  | Stem   | Disc       | Seat | PCD | NO. OF TAPPED THROUGH |         |         | L   |
|-----|-------------|-------|--------|------------|------|-----|-----------------------|---------|---------|-----|
|     |             |       |        |            |      |     | HOLES                 | HOLES   | HOLES   |     |
| 80  | 752380CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 145 | 4                     | 4 x M16 | X       | 60  |
| 100 | 752360CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 165 | 8                     | 4 x M16 | 4 x 19  | 60  |
| 125 | 752361CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 200 | 8                     | 4 x M16 | 4 x 19  | 100 |
| 150 | 752362CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 230 | 8                     | 4 x M16 | 4 x 19  | 100 |
| 200 | 752363CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 280 | 8                     | 4 x M20 | 4 x 23  | 100 |
| 250 | 752364CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 345 | 12                    | 4 x M20 | 8 x 23  | 110 |
| 300 | 752365CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 390 | 12                    | 4 x M20 | 8 x 23  | 110 |
| 350 | 752366CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 435 | 12                    | 4 x M22 | 8 x 25  | 120 |
| 400 | 752367CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 495 | 16                    | 4 x M22 | 12 x 25 | 130 |
| 450 | 752368CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 555 | 16                    | 4 x M22 | 12 x 25 | 150 |
| 500 | 752369CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 605 | 20                    | 4 x M22 | 12 x 25 | 160 |
| 550 | 752369ACS5K | SC480 | SUS410 | Alu-Bronze | NBR  | 665 | 20                    | 4 x M24 | 16 x 27 | 170 |
| 600 | 752370CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 715 | 20                    | 4 x M24 | 16 x 27 | 170 |
| 650 | 752370ACS5K | SC480 | SUS410 | Alu-Bronze | NBR  | 770 | 24                    | 4 x M24 | 20 x 27 | 170 |
| 700 | 752371CS5K  | SC480 | SUS410 | Alu-Bronze | NBR  | 820 | 24                    | 4 x M24 | 20 x 27 | 180 |
| 750 | 752371ACS5K | SC480 | SUS410 | Alu-Bronze | NBR  | 880 | 24                    | 4 x M30 | 20 x 33 | 190 |

**» BUTTERFLY VALVES, FLANGE TYPE, F7480 JIS 10K**

WORM GEAR OPERATED - WITH CLASS CERTIFICATE

| DN  | Code         | Body  | Stem   | Disc       | Seat | PCD | NO. OF TAPPED THROUGH |         |         | L   |
|-----|--------------|-------|--------|------------|------|-----|-----------------------|---------|---------|-----|
|     |              |       |        |            |      |     | HOLES                 | HOLES   | HOLES   |     |
| 80  | 752380CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 150 | 8                     | 4 x M16 | 4 x 19  | 60  |
| 100 | 752360CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 175 | 8                     | 4 x M16 | 4 x 19  | 60  |
| 125 | 752361CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 210 | 8                     | 4 x M20 | 4 x 23  | 100 |
| 150 | 752362CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 240 | 8                     | 4 x M20 | 4 x 23  | 100 |
| 200 | 752363CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 290 | 12                    | 4 x M20 | 8 x 23  | 100 |
| 250 | 752364CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 355 | 12                    | 4 x M22 | 8 x 25  | 110 |
| 300 | 752365CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 400 | 16                    | 4 x M22 | 12 x 25 | 110 |
| 350 | 752366CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 445 | 16                    | 4 x M22 | 12 x 25 | 120 |
| 400 | 752367CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 510 | 16                    | 4 x M24 | 12 x 27 | 130 |
| 450 | 752368CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 565 | 20                    | 4 x M24 | 16 x 27 | 150 |
| 500 | 752369CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 620 | 20                    | 4 x M24 | 16 x 27 | 160 |
| 550 | 752369ACS10K | SC480 | SUS410 | Alu-Bronze | NBR  | 680 | 20                    | 4 x M30 | 16 x 33 | 170 |
| 600 | 752370CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 730 | 24                    | 4 x M30 | 20 x 33 | 170 |
| 650 | 752370ACS10K | SC480 | SUS410 | Alu-Bronze | NBR  | 780 | 24                    | 4 x M30 | 20 x 33 | 170 |
| 700 | 752371CS10K  | SC480 | SUS410 | Alu-Bronze | NBR  | 840 | 24                    | 4 x M30 | 20 x 33 | 180 |
| 750 | 752371ACS10K | SC480 | SUS410 | Alu-Bronze | NBR  | 900 | 24                    | 4 x M30 | 20 x 33 | 190 |

**» BUTTERFLY VALVES, DOUBLE FLANGE TYPE, JIS 10K, WORM GEAR OPERATED**

ISO FACE TO FACE SHORT PATTERN, UNDRILLED FLANGES - WITH CLASS CERTIFICATE

| DN  | Code      | Body  | Stem   | Disc       | Seat | Flanges   | L   |
|-----|-----------|-------|--------|------------|------|-----------|-----|
| 100 | 752340CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 52  |
| 125 | 752341CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 56  |
| 150 | 752342CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 56  |
| 200 | 752343CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 60  |
| 250 | 752344CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 68  |
| 300 | 752345CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 78  |
| 350 | 752346CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 78  |
| 400 | 752347CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 102 |
| 450 | 752348CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 114 |
| 500 | 752349CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 127 |
| 550 | 752349ACS | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 154 |
| 600 | 752350CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 154 |
| 650 | 752350ACS | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 165 |
| 700 | 752351CS  | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 165 |
| 750 | 752351ACS | SC480 | SUS410 | Alu-Bronze | NBR  | UNDRILLED | 190 |



\* THESE VALVES ARE WITH UNDRILLED FLANGES, CAN BE DRILLED AS PER JIS 5K - 10K OR DIN PN10



## » BUTTERFLY VALVES, LUG TYPE, DIN PN16

LOCK LEVER OPERATED, WITH CLASS CERTIFICATE

| DN  | Code   | Body    | Stem            | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|--------|---------|-----------------|------------|------|-----|-----------------|----|
| 50  | 754446 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 125 | 4   18          | 43 |
| 65  | 754447 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 145 | 4   18          | 46 |
| 80  | 754448 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 160 | 8   18          | 46 |
| 100 | 754449 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 180 | 8   18          | 52 |
| 125 | 754450 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 210 | 8   18          | 56 |
| 150 | 754451 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 240 | 8   22          | 56 |
| 200 | 754452 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 295 | 12   22         | 60 |



## » BUTTERFLY VALVES, LUG TYPE, DIN PN10

WORM GEAR OPERATED, WITH CLASS CERTIFICATE

| DN  | Code       | Body    | Stem            | Disc       | Seat | PCD | Holes no. x Dia | L  |
|-----|------------|---------|-----------------|------------|------|-----|-----------------|----|
| 200 | 754452PN10 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 295 | 8   22          | 60 |
| 250 | 754453     | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 350 | 12   22         | 68 |
| 300 | 754454     | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 400 | 12   22         | 78 |
| 350 | 754455     | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 460 | 16   22         | 78 |



## » BUTTERFLY VALVES, DOUBLE FLANGE TYPE, DIN SHORT PATTERN PN10

WORM GEAR OPERATED, WITH CLASS CERTIFICATE

| DN  | Code   | Body    | Stem            | Disc       | Seat | PCD | Holes no. x Dia | L   |
|-----|--------|---------|-----------------|------------|------|-----|-----------------|-----|
| 50  | 754581 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 125 | 4   18          | 108 |
| 65  | 754582 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 145 | 4   18          | 112 |
| 80  | 754583 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 160 | 8   18          | 114 |
| 100 | 754584 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 180 | 8   18          | 127 |
| 125 | 754585 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 210 | 8   18          | 140 |
| 150 | 754586 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 240 | 8   18          | 140 |
| 200 | 754587 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 295 | 8   22          | 152 |
| 250 | 754588 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 350 | 12   22         | 165 |
| 300 | 754589 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 400 | 12   22         | 178 |
| 350 | 754590 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 460 | 16   22         | 190 |
| 400 | 754591 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 515 | 16   26         | 216 |
| 450 | 754592 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 565 | 20   26         | 222 |
| 500 | 754593 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 620 | 20   26         | 229 |
| 600 | 754594 | GGG40.3 | Stainless Steel | Alu-Bronze | NBR  | 725 | 20   30         | 267 |

## JIS &amp; DIN

## » DUO CHECK VALVES, WAFER TYPE - JIS 5K

| DN  | Code   | Body    | Disc       | Seat | O.D. | L   |
|-----|--------|---------|------------|------|------|-----|
| 100 | 751471 | FCD 450 | Alu-Bronze | NBR  | 146  | 73  |
| 125 | 751472 | FCD 450 | Alu-Bronze | NBR  | 181  | 86  |
| 150 | 751473 | FCD 450 | Alu-Bronze | NBR  | 211  | 98  |
| 200 | 751474 | FCD 450 | Alu-Bronze | NBR  | 257  | 127 |
| 250 | 751475 | FCD 450 | Alu-Bronze | NBR  | 322  | 146 |
| 300 | 751476 | FCD 450 | Alu-Bronze | NBR  | 367  | 181 |
| 350 | 751477 | FCD 450 | Alu-Bronze | NBR  | 410  | 184 |
| 400 | 751478 | FCD 450 | Alu-Bronze | NBR  | 470  | 191 |
| 450 | 751479 | FCD 450 | Alu-Bronze | NBR  | 530  | 203 |
| 500 | 751480 | FCD 450 | Alu-Bronze | NBR  | 580  | 219 |
| 550 | 751481 | FCD 450 | Alu-Bronze | NBR  | 638  | 222 |
| 600 | 751482 | FCD 450 | Alu-Bronze | NBR  | 688  | 222 |



## » DUO CHECK VALVES, WAFER TYPE - JIS 10K

| DN  | Code   | Body    | Disc       | Seat | O.D. | L   |
|-----|--------|---------|------------|------|------|-----|
| 100 | 751483 | FCD 450 | Alu-Bronze | NBR  | 156  | 73  |
| 125 | 751484 | FCD 450 | Alu-Bronze | NBR  | 187  | 86  |
| 150 | 751485 | FCD 450 | Alu-Bronze | NBR  | 217  | 98  |
| 200 | 751486 | FCD 450 | Alu-Bronze | NBR  | 267  | 127 |
| 250 | 751487 | FCD 450 | Alu-Bronze | NBR  | 330  | 146 |
| 300 | 751488 | FCD 450 | Alu-Bronze | NBR  | 375  | 181 |
| 350 | 751489 | FCD 450 | Alu-Bronze | NBR  | 420  | 184 |
| 400 | 751490 | FCD 450 | Alu-Bronze | NBR  | 483  | 191 |
| 450 | 751491 | FCD 450 | Alu-Bronze | NBR  | 538  | 203 |
| 500 | 751492 | FCD 450 | Alu-Bronze | NBR  | 593  | 219 |
| 550 | 751493 | FCD 450 | Alu-Bronze | NBR  | 647  | 222 |
| 600 | 751494 | FCD 450 | Alu-Bronze | NBR  | 697  | 222 |



## » DUO CHECK VALVES, WAFER TYPE - DIN PN10

| DN  | Code   | Body    | Disc       | Seat | O.D. | L   |
|-----|--------|---------|------------|------|------|-----|
| 100 | 756074 | FCD 450 | Alu-Bronze | NBR  | 162  | 64  |
| 125 | 756075 | FCD 450 | Alu-Bronze | NBR  | 192  | 70  |
| 150 | 756076 | FCD 450 | Alu-Bronze | NBR  | 218  | 76  |
| 200 | 756077 | FCD 450 | Alu-Bronze | NBR  | 273  | 89  |
| 250 | 756078 | FCD 450 | Alu-Bronze | NBR  | 328  | 114 |
| 300 | 756079 | FCD 450 | Alu-Bronze | NBR  | 378  | 114 |
| 350 | 756080 | FCD 450 | Alu-Bronze | NBR  | 438  | 127 |
| 400 | 756081 | FCD 450 | Alu-Bronze | NBR  | 489  | 140 |
| 450 | 756082 | FCD 450 | Alu-Bronze | NBR  | 539  | 152 |
| 500 | 756083 | FCD 450 | Alu-Bronze | NBR  | 594  | 153 |



## » DUO CHECK VALVES, FLANGED TYPE - JIS 5K

| DN  | Code      | Body    | Disc       | Seat | O.D. | L   |
|-----|-----------|---------|------------|------|------|-----|
| 100 | 751471FDI | FCD 450 | Alu-Bronze | NBR  | 200  | 73  |
| 125 | 751472FDI | FCD 450 | Alu-Bronze | NBR  | 235  | 86  |
| 150 | 751473FDI | FCD 450 | Alu-Bronze | NBR  | 265  | 98  |
| 200 | 751474FDI | FCD 450 | Alu-Bronze | NBR  | 320  | 127 |
| 250 | 751475FDI | FCD 450 | Alu-Bronze | NBR  | 385  | 146 |
| 300 | 751476FDI | FCD 450 | Alu-Bronze | NBR  | 430  | 181 |
| 350 | 751477FDI | FCD 450 | Alu-Bronze | NBR  | 480  | 184 |
| 400 | 751478FDI | FCD 450 | Alu-Bronze | NBR  | 540  | 191 |
| 450 | 751479FDI | FCD 450 | Alu-Bronze | NBR  | 605  | 203 |
| 500 | 751480FDI | FCD 450 | Alu-Bronze | NBR  | 655  | 219 |
| 550 | 751481FDI | FCD 450 | Alu-Bronze | NBR  | 720  | 222 |



## » AIR VENT HEADS, JIS 5K FLANGED, FLOAT DISC TYPE

FCD450 BODY, STAINLESS STEEL TRIM - WITH CLASS TYPE APPROVAL CERTIFICATE  
HOT DIP GALVANIZED, SUITABLE FOR USE AT BOTH OIL & WATER TANKS.



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Weight Kg |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 50  | 872301 | 130       | 105 | 4               | 15 | 8         |
| 65  | 872302 | 155       | 130 | 4               | 15 | 13        |
| 80  | 872303 | 180       | 145 | 4               | 19 | 17        |
| 100 | 872304 | 200       | 165 | 8               | 19 | 23        |
| 125 | 872305 | 235       | 200 | 8               | 19 | 34        |
| 150 | 872306 | 265       | 230 | 8               | 19 | 47        |
| 200 | 872307 | 320       | 280 | 8               | 23 | 72        |
| 250 | 872308 | 385       | 345 | 12              | 23 | 120       |
| 300 | 872309 | 430       | 390 | 12              | 23 | 178       |
| 350 | 872310 | 480       | 435 | 12              | 25 | 196       |
| 400 | 872311 | 540       | 495 | 16              | 25 | 235       |
| 450 | 872312 | 605       | 555 | 16              | 25 | 298       |

## » AIR VENT HEADS, DIN PN10 / PN16 FLANGED, BALL TYPE

FCD450 BODY, STAINLESS STEEL TRIM - WITH CLASS TYPE APPROVAL CERTIFICATE  
HOT DIP GALVANIZED, SUITABLE FOR USE AT BOTH OIL & WATER TANKS.



| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Weight Kg |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 50  | 872320 | 165       | 125 | 4               | 18 | 7         |
| 65  | 872321 | 185       | 145 | 4               | 18 | 9         |
| 80  | 872322 | 200       | 160 | 8               | 18 | 13        |
| 100 | 872323 | 220       | 180 | 8               | 18 | 18        |
| 125 | 872324 | 250       | 210 | 8               | 18 | 30        |
| 150 | 872325 | 285       | 240 | 8               | 22 | 40        |
| 200 | 872326 | 340       | 295 | 8               | 22 | 70        |
| 250 | 872327 | 405       | 355 | 12              | 26 | 110       |

## » GLOBE HOSE VALVES

BRONZE BODY & TRIM, DIN PN16 FLANGED



|    |        | Inlet PN16 |     |                 |    |     | Outlet      |                  |
|----|--------|------------|-----|-----------------|----|-----|-------------|------------------|
| DN | Code   | Flange OD  | PCD | Holes no. x Dia | L  |     |             |                  |
| 40 | 756051 | 150        | 110 | 4               | 18 | 165 | BSPP 1 1/2" | CAM DISTANCE: 52 |
| 50 | 756052 | 165        | 125 | 4               | 18 | 185 | BSPP 2"     | CAM DISTANCE: 66 |
| 65 | 756053 | 185        | 145 | 4               | 18 | 220 | BSPP 2 1/2" | CAM DISTANCE: 81 |

\* VARIOUS COUPLINGS & CAPS ARE AVAILABLE

## » ANGLE HOSE VALVES

BRONZE BODY & TRIM, DIN PN16 FLANGED



|    |        | Inlet PN16 |     |                 |    |     | Outlet      |                  |
|----|--------|------------|-----|-----------------|----|-----|-------------|------------------|
| DN | Code   | Flange OD  | PCD | Holes no. x Dia | L1 |     |             |                  |
| 40 | 756055 | 150        | 110 | 4               | 18 | 90  | BSPP 1 1/2" | CAM DISTANCE: 52 |
| 50 | 756056 | 165        | 125 | 4               | 18 | 107 | BSPP 2"     | CAM DISTANCE: 66 |
| 65 | 756057 | 185        | 145 | 4               | 18 | 112 | BSPP 2 1/2" | CAM DISTANCE: 81 |

\* VARIOUS COUPLINGS & CAPS ARE AVAILABLE

## » GLOBE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                       |
|----|--------|--------------------|-----|-----------------|------------------------------|
| 15 | 751701 | 80                 | 60  | 4   12          | Screwed End with Cap & Chain |
| 25 | 751703 | 95                 | 75  | 4   12          | Screwed End with Cap & Chain |



## » GLOBE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                         |
|----|--------|--------------------|-----|-----------------|--------------------------------|
| 40 | 751711 | 120                | 95  | 4   15          | Nakajima Coupling, Cap & Chain |
| 50 | 751716 | 130                | 105 | 4   15          | Nakajima Coupling, Cap & Chain |



## » ANGLE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                       |
|----|--------|--------------------|-----|-----------------|------------------------------|
| 15 | 751706 | 80                 | 60  | 4   12          | Screwed End with Cap & Chain |
| 25 | 751708 | 95                 | 75  | 4   12          | Screwed End with Cap & Chain |



## » ANGLE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                         |
|----|--------|--------------------|-----|-----------------|--------------------------------|
| 40 | 751713 | 120                | 95  | 4   15          | Nakajima Coupling, Cap & Chain |
| 50 | 751721 | 130                | 105 | 4   15          | Nakajima Coupling, Cap & Chain |



## » GLOBE HOSE VALVES

CAST IRON BODY &amp; BRONZE TRIM F-7333, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                         |
|----|--------|--------------------|-----|-----------------|--------------------------------|
| 50 | 751731 | 130                | 105 | 4   15          | Nakajima Coupling, Cap & Chain |



## » ANGLE HOSE VALVES

CAST IRON BODY &amp; BRONZE TRIM F-7333, JIS 5K FLANGED

| DN | Code   | Inlet 5K Flange OD | PCD | Holes no. x Dia | Outlet                         |
|----|--------|--------------------|-----|-----------------|--------------------------------|
| 50 | 751735 | 130                | 105 | 4   15          | Nakajima Coupling, Cap & Chain |





## » GLOBE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 16K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                       |
|----|--------|-----|-----|-----------------|----|------------------------------|
| 15 | 751702 | 95  | 70  | 4               | 15 | Screwed End with Cap & Chain |
| 25 | 751704 | 125 | 90  | 4               | 19 | Screwed End with Cap & Chain |



## » GLOBE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 16K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                         |
|----|--------|-----|-----|-----------------|----|--------------------------------|
| 40 | 751712 | 140 | 105 | 4               | 19 | Nakajima Coupling, Cap & Chain |
| 50 | 751717 | 155 | 120 | 8               | 19 | Nakajima Coupling, Cap & Chain |
| 65 | 751718 | 175 | 140 | 8               | 19 | Nakajima Coupling, Cap & Chain |



## » ANGLE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 16K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                       |
|----|--------|-----|-----|-----------------|----|------------------------------|
| 15 | 751707 | 95  | 70  | 4               | 15 | Screwed End with Cap & Chain |
| 25 | 751709 | 125 | 90  | 4               | 19 | Screwed End with Cap & Chain |



## » ANGLE HOSE VALVES

BRONZE BODY &amp; TRIM F-7334, JIS 16K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                         |
|----|--------|-----|-----|-----------------|----|--------------------------------|
| 40 | 751714 | 140 | 105 | 4               | 19 | Nakajima Coupling, Cap & Chain |
| 50 | 751722 | 155 | 120 | 8               | 19 | Nakajima Coupling, Cap & Chain |
| 65 | 751723 | 175 | 140 | 8               | 19 | Nakajima Coupling, Cap & Chain |



## » GLOBE HOSE VALVES

CAST IRON BODY &amp; BRONZE TRIM F-7333, JIS 10K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                         |
|----|--------|-----|-----|-----------------|----|--------------------------------|
| 50 | 751732 | 155 | 120 | 4               | 19 | Nakajima Coupling, Cap & Chain |
| 65 | 751733 | 175 | 140 | 4               | 19 | Nakajima Coupling, Cap & Chain |



## » ANGLE HOSE VALVES

CAST IRON BODY &amp; BRONZE TRIM F-7333, JIS 10K FLANGED

| DN | Code   | OD  | PCD | Holes no. x Dia |    | Outlet                         |
|----|--------|-----|-----|-----------------|----|--------------------------------|
| 50 | 751736 | 155 | 120 | 4               | 19 | Nakajima Coupling, Cap & Chain |
| 65 | 751737 | 175 | 140 | 4               | 19 | Nakajima Coupling, Cap & Chain |

**JIS / DIN****» BALL VALVES, FLANGED TYPE JIS 5K**

SS316 STAINLESS STEEL BODY &amp; TRIM

| DN | Code       | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|------------|-----------|-----|-----------------|----|--------------|
| 15 | 75BVK05A15 | 80        | 60  | 4               | 12 | 100          |
| 20 | 75BVK05A20 | 85        | 65  | 4               | 12 | 110          |
| 25 | 75BVK05A25 | 95        | 75  | 4               | 12 | 120          |
| 32 | 75BVK05A32 | 115       | 90  | 4               | 15 | 140          |
| 40 | 75BVK05A40 | 120       | 95  | 4               | 15 | 160          |
| 50 | 75BVK05A50 | 130       | 105 | 4               | 15 | 210          |

**» BALL VALVES, FLANGED TYPE JIS 10K / 16K**

SS316 STAINLESS STEEL BODY &amp; TRIM

| DN | Code       | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|------------|-----------|-----|-----------------|----|--------------|
| 15 | 75BVK16A15 | 95        | 70  | 4               | 15 | 110          |
| 20 | 75BVK16A20 | 100       | 75  | 4               | 15 | 120          |
| 25 | 75BVK16A25 | 125       | 90  | 4               | 19 | 130          |
| 32 | 75BVK16A32 | 135       | 100 | 4               | 19 | 160          |
| 40 | 75BVK16A40 | 140       | 105 | 4               | 19 | 180          |
| 50 | 75BVK16A50 | 155       | 120 | 8               | 19 | 220          |

**» BALL VALVES, FLANGED TYPE DIN PN16 / PN40**

SS316 STAINLESS STEEL BODY &amp; TRIM

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 756765 | 95        | 65  | 4               | 14 | 115          |
| 20 | 756766 | 105       | 75  | 4               | 14 | 120          |
| 25 | 756767 | 115       | 85  | 4               | 14 | 125          |
| 32 | 756768 | 140       | 100 | 4               | 18 | 130          |
| 40 | 756769 | 150       | 110 | 4               | 18 | 140          |
| 50 | 756770 | 165       | 125 | 4               | 18 | 150          |

\*\*\* FLANGE CONNECTIONS ARE SAME FOR BOTH PN16 &amp; PN40

**» BALL VALVES, WAFER TYPE DIN PN40**

SS316 STAINLESS STEEL BODY &amp; TRIM

| DN | Code   | Flange OD | PCD | Holes no. x Dia |    | Face to Face |
|----|--------|-----------|-----|-----------------|----|--------------|
| 15 | 756791 | 95        | 65  | 4               | 14 | 42           |
| 20 | 756792 | 105       | 75  | 4               | 14 | 44           |
| 25 | 756793 | 115       | 85  | 4               | 14 | 50           |
| 32 | 756794 | 140       | 100 | 4               | 18 | 60           |
| 40 | 756795 | 150       | 110 | 4               | 18 | 65           |
| 50 | 756796 | 165       | 125 | 4               | 18 | 80           |

\*\*\* FLANGE CONNECTIONS ARE SAME FOR PN16



## » SLIP ON FLANGES

JIS B2210, 5K, FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 15  | 734602 | 80        | 60  | 4               | 12 | 9         |
| 20  | 734603 | 85        | 65  | 4               | 12 | 10        |
| 25  | 734604 | 95        | 75  | 4               | 12 | 10        |
| 32  | 734605 | 115       | 90  | 4               | 15 | 12        |
| 40  | 734606 | 120       | 95  | 4               | 15 | 12        |
| 50  | 734607 | 130       | 105 | 4               | 15 | 14        |
| 65  | 734608 | 155       | 130 | 4               | 15 | 14        |
| 80  | 734609 | 180       | 145 | 4               | 19 | 14        |
| 100 | 734610 | 200       | 165 | 8               | 19 | 16        |
| 125 | 734611 | 235       | 200 | 8               | 19 | 16        |
| 150 | 734612 | 265       | 230 | 8               | 19 | 18        |
| 200 | 734613 | 320       | 280 | 8               | 23 | 20        |
| 250 | 734614 | 385       | 345 | 12              | 23 | 22        |
| 300 | 734615 | 430       | 390 | 12              | 23 | 22        |
| 350 | 734616 | 480       | 435 | 12              | 25 | 24        |
| 400 | 734617 | 540       | 495 | 16              | 25 | 24        |
| 450 | 734618 | 605       | 555 | 16              | 25 | 24        |
| 500 | 734619 | 655       | 605 | 20              | 25 | 24        |
| 550 | 734620 | 720       | 665 | 20              | 27 | 26        |
| 600 | 734621 | 770       | 715 | 20              | 27 | 26        |
| 650 | 734622 | 825       | 770 | 24              | 27 | 26        |
| 700 | 734623 | 875       | 820 | 24              | 27 | 26        |
| 750 | 734624 | 945       | 880 | 24              | 33 | 28        |



## » SLIP ON FLANGES

JIS B2210, 10K, FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 15  | 734622 | 95        | 70  | 4               | 15 | 12        |
| 20  | 734623 | 100       | 75  | 4               | 15 | 14        |
| 25  | 734624 | 125       | 90  | 4               | 19 | 14        |
| 32  | 734625 | 135       | 100 | 4               | 19 | 16        |
| 40  | 734626 | 140       | 105 | 4               | 19 | 16        |
| 50  | 734627 | 155       | 120 | 4               | 19 | 16        |
| 65  | 734628 | 175       | 140 | 4               | 19 | 18        |
| 80  | 734629 | 185       | 150 | 8               | 19 | 18        |
| 100 | 734630 | 210       | 175 | 8               | 19 | 18        |
| 125 | 734631 | 250       | 210 | 8               | 23 | 20        |
| 150 | 734632 | 280       | 240 | 8               | 23 | 22        |
| 200 | 734633 | 330       | 290 | 12              | 23 | 22        |
| 250 | 734634 | 400       | 355 | 12              | 25 | 24        |
| 300 | 734635 | 445       | 400 | 16              | 25 | 24        |
| 350 | 734636 | 490       | 445 | 16              | 25 | 26        |
| 400 | 734637 | 560       | 510 | 16              | 27 | 28        |
| 450 | 734638 | 620       | 565 | 20              | 27 | 30        |
| 500 | 734639 | 675       | 620 | 20              | 27 | 30        |
| 550 | 734640 | 745       | 680 | 20              | 33 | 32        |
| 600 | 734641 | 795       | 730 | 24              | 33 | 32        |
| 650 | 734642 | 845       | 780 | 24              | 33 | 34        |
| 700 | 734643 | 905       | 840 | 24              | 33 | 34        |
| 750 | 734644 | 970       | 900 | 24              | 33 | 36        |



## DIN

## » SLIP ON FLANGES

DIN PN10 FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 10  | 735521 | 90        | 60  | 4               | 14 | 14        |
| 15  | 735522 | 95        | 65  | 4               | 14 | 14        |
| 20  | 735523 | 105       | 75  | 4               | 14 | 16        |
| 25  | 735524 | 115       | 85  | 4               | 14 | 16        |
| 32  | 735525 | 140       | 100 | 4               | 18 | 16        |
| 40  | 735526 | 150       | 110 | 4               | 18 | 16        |
| 50  | 735527 | 165       | 125 | 4               | 18 | 18        |
| 65  | 735528 | 185       | 145 | 4               | 18 | 18        |
| 80  | 735529 | 200       | 160 | 8               | 18 | 20        |
| 100 | 735530 | 220       | 180 | 8               | 18 | 20        |
| 125 | 735531 | 250       | 210 | 8               | 18 | 22        |
| 150 | 735532 | 285       | 240 | 8               | 22 | 22        |
| 175 | 735533 | 315       | 270 | 8               | 22 | 24        |
| 200 | 735534 | 340       | 295 | 8               | 22 | 24        |
| 250 | 735535 | 395       | 350 | 12              | 22 | 26        |
| 300 | 735536 | 445       | 400 | 12              | 22 | 26        |
| 350 | 735537 | 505       | 460 | 16              | 22 | 28        |
| 400 | 735538 | 565       | 515 | 16              | 26 | 32        |
| 450 | 735539 | 615       | 565 | 20              | 26 | 34        |
| 500 | 735540 | 670       | 620 | 20              | 26 | 34        |



## » SLIP ON FLANGES

DIN PN16 FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 10  | 735551 | 90        | 60  | 4               | 14 | 14        |
| 15  | 735552 | 95        | 65  | 4               | 14 | 14        |
| 20  | 735553 | 105       | 75  | 4               | 14 | 16        |
| 25  | 735554 | 115       | 85  | 4               | 14 | 16        |
| 32  | 735555 | 140       | 100 | 4               | 18 | 16        |
| 40  | 735556 | 150       | 110 | 4               | 18 | 16        |
| 50  | 735557 | 165       | 125 | 4               | 18 | 18        |
| 65  | 735558 | 185       | 145 | 4               | 18 | 18        |
| 80  | 735559 | 200       | 160 | 8               | 18 | 20        |
| 100 | 735560 | 220       | 180 | 8               | 18 | 20        |
| 125 | 735561 | 250       | 210 | 8               | 18 | 22        |
| 150 | 735562 | 285       | 240 | 8               | 22 | 22        |
| 175 | 735563 | 315       | 270 | 8               | 22 | 24        |
| 200 | 735564 | 340       | 295 | 12              | 22 | 24        |
| 250 | 735565 | 405       | 355 | 12              | 26 | 26        |
| 300 | 735566 | 460       | 410 | 12              | 26 | 28        |
| 350 | 735567 | 520       | 470 | 16              | 26 | 30        |
| 400 | 735568 | 580       | 525 | 16              | 30 | 32        |
| 450 | 735569 | 640       | 585 | 20              | 30 | 38        |
| 500 | 735570 | 745       | 650 | 20              | 33 | 38        |



## » SLIP ON FLANGES

DIN PN25 FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 10  | 734560 | 90        | 60  | 4               | 14 | 16        |
| 15  | 734561 | 95        | 65  | 4               | 14 | 16        |
| 20  | 734562 | 105       | 75  | 4               | 14 | 18        |
| 25  | 734563 | 115       | 85  | 4               | 14 | 18        |
| 32  | 734564 | 140       | 100 | 4               | 18 | 18        |
| 40  | 734565 | 150       | 110 | 4               | 18 | 18        |
| 50  | 734566 | 165       | 125 | 4               | 18 | 20        |
| 65  | 734567 | 185       | 145 | 8               | 18 | 22        |
| 80  | 734568 | 200       | 160 | 8               | 18 | 24        |
| 100 | 734569 | 235       | 190 | 8               | 22 | 24        |
| 125 | 734570 | 270       | 220 | 8               | 26 | 26        |
| 150 | 734571 | 300       | 250 | 8               | 26 | 28        |
| 175 | 734572 | 330       | 280 | 12              | 26 | 28        |
| 200 | 734573 | 360       | 310 | 12              | 26 | 30        |
| 250 | 734574 | 425       | 370 | 12              | 30 | 32        |
| 300 | 734575 | 485       | 430 | 16              | 30 | 34        |
| 350 | 734576 | 555       | 490 | 16              | 33 | 38        |
| 400 | 734577 | 620       | 550 | 16              | 36 | 40        |



## » SLIP ON FLANGES

DIN PN40 FLAT FACED, SS400 MATERIAL

| DN  | Code   | Flange OD | PCD | Holes no. x Dia |    | Thickness |
|-----|--------|-----------|-----|-----------------|----|-----------|
| 10  | 735571 | 90        | 60  | 4               | 14 | 16        |
| 15  | 735572 | 95        | 65  | 4               | 14 | 16        |
| 20  | 735573 | 105       | 75  | 4               | 14 | 18        |
| 25  | 735574 | 115       | 85  | 4               | 14 | 18        |
| 32  | 735575 | 140       | 100 | 4               | 18 | 18        |
| 40  | 735576 | 150       | 110 | 4               | 18 | 18        |
| 50  | 735577 | 165       | 125 | 4               | 18 | 20        |
| 65  | 735578 | 185       | 145 | 8               | 18 | 22        |
| 80  | 735579 | 200       | 160 | 8               | 18 | 24        |
| 100 | 735580 | 235       | 190 | 8               | 22 | 24        |
| 125 | 735581 | 270       | 220 | 8               | 26 | 26        |
| 150 | 735582 | 300       | 250 | 8               | 26 | 28        |
| 175 | 735583 | 350       | 295 | 12              | 30 | 32        |
| 200 | 735584 | 375       | 34  | 12              | 30 | 34        |
| 250 | 735585 | 450       | 38  | 12              | 33 | 38        |
| 300 | 735586 | 515       | 42  | 16              | 33 | 42        |
| 350 | 735587 | 580       | 46  | 16              | 36 | 46        |
| 400 | 735588 | 660       | 50  | 16              | 39 | 50        |
| 450 | 735589 | 685       | 610 | 20              | 39 | 42        |
| 500 | 735590 | 755       | 670 | 20              | 42 | 44        |



## » JIS

\*FOD: FLANGE OUTER DIA \*PCD: PITCH CIRCLE DIA \*ALL DIMENSIONS ARE IN MM.

| DN  |       | 5K    | 10K   | 16K   | 20K   | 30K   | 40K   |
|-----|-------|-------|-------|-------|-------|-------|-------|
| 10  | FOD   | 75    | 90    | 90    | 90    | 110   | 110   |
|     | PCD   | 55    | 65    | 65    | 65    | 75    | 75    |
|     | HOLES | 4X12  | 4X15  | 4X15  | 4X15  | 4X19  | 4X19  |
| 15  | FOD   | 80    | 95    | 95    | 95    | 115   | 115   |
|     | PCD   | 60    | 70    | 70    | 70    | 80    | 80    |
|     | HOLES | 4X12  | 4X15  | 4X15  | 4X15  | 4X19  | 4X19  |
| 20  | FOD   | 85    | 100   | 100   | 100   | 120   | 120   |
|     | PCD   | 65    | 75    | 75    | 75    | 85    | 85    |
|     | HOLES | 4X12  | 4X15  | 4X15  | 4X15  | 4X19  | 4X19  |
| 25  | FOD   | 95    | 125   | 125   | 125   | 130   | 130   |
|     | PCD   | 75    | 90    | 90    | 90    | 95    | 95    |
|     | HOLES | 4X12  | 4X19  | 4X19  | 4X19  | 4X19  | 4X19  |
| 32  | FOD   | 115   | 135   | 135   | 135   | 140   | 140   |
|     | PCD   | 90    | 100   | 100   | 100   | 105   | 105   |
|     | HOLES | 4X15  | 4X19  | 4X19  | 4X19  | 4X19  | 4X19  |
| 40  | FOD   | 120   | 140   | 140   | 140   | 160   | 160   |
|     | PCD   | 95    | 105   | 105   | 105   | 120   | 120   |
|     | HOLES | 4X15  | 4X19  | 4X19  | 4X19  | 4X23  | 4X23  |
| 50  | FOD   | 130   | 155   | 155   | 155   | 165   | 165   |
|     | PCD   | 105   | 120   | 120   | 120   | 130   | 130   |
|     | HOLES | 4X15  | 4X19  | 8X19  | 8X19  | 8X19  | 8X19  |
| 65  | FOD   | 155   | 175   | 175   | 175   | 200   | 200   |
|     | PCD   | 130   | 140   | 140   | 140   | 160   | 160   |
|     | HOLES | 4X15  | 4X19  | 8X19  | 8X19  | 8X23  | 8X23  |
| 80  | FOD   | 180   | 185   | 200   | 200   | 210   | 210   |
|     | PCD   | 145   | 150   | 160   | 160   | 170   | 170   |
|     | HOLES | 4X19  | 8X19  | 8X23  | 8X23  | 8X23  | 8X23  |
| 100 | FOD   | 200   | 210   | 225   | 225   | 240   | 250   |
|     | PCD   | 165   | 175   | 185   | 185   | 195   | 205   |
|     | HOLES | 8X19  | 8X19  | 8X23  | 8X23  | 8X25  | 8X25  |
| 125 | FOD   | 235   | 250   | 270   | 270   | 275   | 300   |
|     | PCD   | 200   | 210   | 225   | 225   | 230   | 250   |
|     | HOLES | 8X19  | 8X23  | 8X25  | 8X25  | 8X25  | 8X27  |
| 150 | FOD   | 265   | 280   | 305   | 305   | 325   | 355   |
|     | PCD   | 230   | 240   | 260   | 260   | 275   | 295   |
|     | HOLES | 8X19  | 8X23  | 12X25 | 12X25 | 12X27 | 12X33 |
| 200 | FOD   | 320   | 330   | 350   | 350   | 370   | 405   |
|     | PCD   | 280   | 290   | 305   | 305   | 320   | 345   |
|     | HOLES | 8X23  | 12X23 | 12X25 | 12X25 | 12X27 | 12X33 |
| 250 | FOD   | 385   | 400   | 430   | 430   | 450   | 475   |
|     | PCD   | 345   | 355   | 380   | 380   | 390   | 410   |
|     | HOLES | 12X23 | 12X25 | 12X27 | 12X27 | 12X33 | 12X33 |
| 300 | FOD   | 430   | 445   | 480   | 480   | 515   | 540   |
|     | PCD   | 390   | 400   | 430   | 430   | 450   | 470   |
|     | HOLES | 12X23 | 16X25 | 16X27 | 16X27 | 16X33 | 16X39 |
| 350 | FOD   | 480   | 490   | 540   | 540   | N/A   | N/A   |
|     | PCD   | 435   | 445   | 480   | 480   |       |       |
|     | HOLES | 12X25 | 16X25 | 16X33 | 16X33 |       |       |
| 400 | FOD   | 540   | 560   | 605   | 605   | N/A   | N/A   |
|     | PCD   | 495   | 510   | 540   | 540   |       |       |
|     | HOLES | 16X25 | 16X27 | 16X33 | 16X33 |       |       |
| 450 | FOD   | 605   | 620   | 675   | 675   | N/A   | N/A   |
|     | PCD   | 555   | 565   | 605   | 605   |       |       |
|     | HOLES | 16X25 | 20X27 | 20X33 | 20X33 |       |       |
| 500 | FOD   | 655   | 675   | 730   | 730   | N/A   | N/A   |
|     | PCD   | 605   | 620   | 660   | 660   |       |       |
|     | HOLES | 20X25 | 20X27 | 20X33 | 20X33 |       |       |
| 550 | FOD   | 720   | 745   | 795   | 795   | N/A   | N/A   |
|     | PCD   | 665   | 680   | 720   | 720   |       |       |
|     | HOLES | 20X27 | 20X33 | 20X39 | 20X39 |       |       |
| 600 | FOD   | 770   | 795   | 845   | 845   | N/A   | N/A   |
|     | PCD   | 715   | 730   | 770   | 770   |       |       |
|     | HOLES | 20X27 | 24X33 | 24X39 | 24X39 |       |       |
| 650 | FOD   | 825   | 845   | 895   | 945   | N/A   | N/A   |
|     | PCD   | 770   | 780   | 820   | 850   |       |       |
|     | HOLES | 24X27 | 24X33 | 24X39 | 24X48 |       |       |
| 700 | FOD   | 875   | 905   | 960   | 995   | N/A   | N/A   |
|     | PCD   | 820   | 840   | 875   | 900   |       |       |
|     | HOLES | 24X27 | 24X33 | 24X42 | 24X48 |       |       |

## » DIN

\*FOD: FLANGE OUTER DIA \*PCD: PITCH CIRCLE DIA \*ALL DIMENSIONS ARE IN MM.

| DN  |       | PN6   | PN10  | PN16  | PN25  | PN40  |
|-----|-------|-------|-------|-------|-------|-------|
| 15  | FOD   | 80    | 95    | 95    | 95    | 95    |
|     | PCD   | 55    | 65    | 65    | 65    | 65    |
|     | HOLES | 4X14  | 4X14  | 4X14  | 4X14  | 4X14  |
| 20  | FOD   | 90    | 105   | 105   | 105   | 105   |
|     | PCD   | 65    | 75    | 75    | 75    | 75    |
|     | HOLES | 4X14  | 4X14  | 4X14  | 4X14  | 4X14  |
| 25  | FOD   | 100   | 115   | 115   | 115   | 115   |
|     | PCD   | 75    | 85    | 85    | 85    | 85    |
|     | HOLES | 4X14  | 4X14  | 4X14  | 4X14  | 4X14  |
| 32  | FOD   | 120   | 140   | 140   | 140   | 140   |
|     | PCD   | 90    | 100   | 100   | 100   | 100   |
|     | HOLES | 4X14  | 4X18  | 4X18  | 4X18  | 4X18  |
| 40  | FOD   | 130   | 150   | 150   | 150   | 150   |
|     | PCD   | 100   | 110   | 110   | 110   | 110   |
|     | HOLES | 4X14  | 4X18  | 4X18  | 4X18  | 4X18  |
| 50  | FOD   | 140   | 165   | 165   | 165   | 165   |
|     | PCD   | 110   | 125   | 125   | 125   | 125   |
|     | HOLES | 4X14  | 4X18  | 4X18  | 4X18  | 4X18  |
| 65  | FOD   | 160   | 185   | 185   | 185   | 185   |
|     | PCD   | 130   | 145   | 145   | 145   | 145   |
|     | HOLES | 4X14  | 4X18  | 4X18  | 8X18  | 8X18  |
| 80  | FOD   | 190   | 200   | 200   | 200   | 200   |
|     | PCD   | 150   | 160   | 160   | 160   | 160   |
|     | HOLES | 4X18  | 8X18  | 8X18  | 8X18  | 8X18  |
| 100 | FOD   | 210   | 220   | 220   | 235   | 235   |
|     | PCD   | 170   | 180   | 180   | 190   | 190   |
|     | HOLES | 4X18  | 8X18  | 8X18  | 8X22  | 8X22  |
| 125 | FOD   | 240   | 250   | 250   | 270   | 270   |
|     | PCD   | 200   | 210   | 210   | 220   | 220   |
|     | HOLES | 8X18  | 8X18  | 8X18  | 8X26  | 8X26  |
| 150 | FOD   | 265   | 285   | 285   | 300   | 300   |
|     | PCD   | 225   | 240   | 240   | 250   | 250   |
|     | HOLES | 8X18  | 8X22  | 8X22  | 8X26  | 8X26  |
| 200 | FOD   | 320   | 340   | 340   | 360   | 375   |
|     | PCD   | 280   | 295   | 295   | 310   | 320   |
|     | HOLES | 8X18  | 8X22  | 12X22 | 12X26 | 12X30 |
| 250 | FOD   | 375   | 395   | 405   | 425   | 450   |
|     | PCD   | 335   | 350   | 355   | 370   | 385   |
|     | HOLES | 12X18 | 12X22 | 12X26 | 12X30 | 12X33 |
| 300 | FOD   | 440   | 445   | 460   | 485   | 515   |
|     | PCD   | 395   | 400   | 410   | 430   | 450   |
|     | HOLES | 12X22 | 12X22 | 12X26 | 16X30 | 16X33 |
| 350 | FOD   | 490   | 505   | 520   | 555   | 580   |
|     | PCD   | 445   | 460   | 470   | 490   | 510   |
|     | HOLES | 12X22 | 16X22 | 16X26 | 16X33 | 16X36 |
| 400 | FOD   | 540   | 565   | 580   | 620   | 660   |
|     | PCD   | 495   | 515   | 525   | 550   | 585   |
|     | HOLES | 16X22 | 16X26 | 16X30 | 16X36 | 16X39 |
| 450 | FOD   | 595   | 615   | 640   | 670   | 685   |
|     | PCD   | 550   | 565   | 585   | 600   | 610   |
|     | HOLES | 16X22 | 20X26 | 20X30 | 20X36 | 20X39 |
| 500 | FOD   | 645   | 670   | 715   | 730   | 755   |
|     | PCD   | 600   | 620   | 650   | 660   | 670   |
|     | HOLES | 20X22 | 20X26 | 20X33 | 20X36 | 20X42 |
| 600 | FOD   | 755   | 780   | 840   | 845   | 890   |
|     | PCD   | 705   | 725   | 770   | 770   | 795   |
|     | HOLES | 20X26 | 20X30 | 20X36 | 20X39 | 20X48 |
| 700 | FOD   | 860   | 895   | 910   | 960   | 995   |
|     | PCD   | 810   | 840   | 840   | 875   | 900   |
|     | HOLES | 24X26 | 24X30 | 24X36 | 24X42 | 24X48 |