

TANKEN

ISO Standard Seal

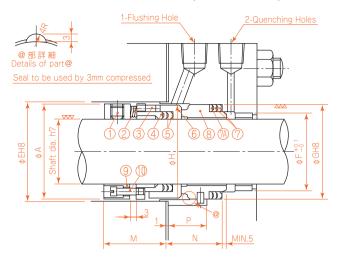


ISO Standard Unbalance Seal

TYPE **UV11-R1** (T3-04000)

Seal to be used by 3mm compressed Seal to be used by 3mm compressed N MIN.5

TYPE **UV11-R3** (T3-04004)



〈注〉インサートパッキンの "O" リング型もあります。(T3-04003) 尚インサート部詳細寸法は UV31-R3、T3-04012 と同一寸法です。

| No. | Parts Name | Q'ty | No. | Parts Name | Q'ty |
|-----|----------------|------|---------|-----------------|------|
| 1 | Set screws | List | (R1) 7 | Insert packings | 2 |
| 2 | Springs | List | 8 | Insert | 1 |
| 3 | Drive pins | List | 9 | Coller | 1 |
| 4 | Comp ring | 1 | 10 | Spring pins | List |
| 5 | Shaft packings | 2 | (R3) 7 | Insert Packings | 2 |
| 6 | Seal ring | 1 | (R3) 7A | Adapter | 1 |

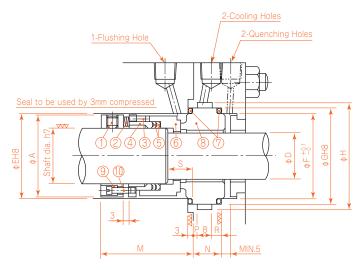
PTFE used for shaft packing.

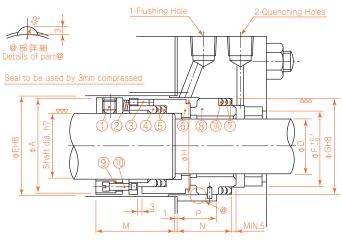
| | | | | | 寸 | 法 | 表 | | Dime | nsion | | | | | | 部 | 品数量 | 表 Q | !'ty |
|-------|-----|-----|-----|-----|-----|------|------|---|------|-------|-----|--------|-------|----|----|---|-----|-----|------|
| SHAFT | | _ | | | UV1 | 1-R1 | Туре | | | | l | IV11-R | 3 Typ | е | | | | | |
| DIA | A | Е | F | G | Н | M | N | P | R | F | G | Н | M | N | P | 1 | 2 | 3 | 10 |
| 20 | 34 | 36 | 36 | 42 | 48 | 43 | 15 | 2 | 5 | 27.3 | 34 | 34.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 22 | 36 | 38 | 38 | 44 | 50 | 43 | 15 | 2 | 5 | 29.3 | 36 | 36.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 24 | 38 | 40 | 40 | 46 | 52 | 43 | 15 | 2 | 5 | 31.3 | 38 | 38.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 25 | 39 | 41 | 41 | 47 | 53 | 43 | 15 | 2 | 5 | 32.3 | 39 | 39.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 26 | 40 | 42 | 42 | 48 | 54 | 43 | 15 | 2 | 5 | 33.3 | 40 | 40.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 28 | 42 | 44 | 44 | 50 | 56 | 43 | 15 | 2 | 5 | 35.3 | 42 | 42.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 30 | 44 | 46 | 46 | 52 | 58 | 43 | 15 | 2 | 5 | 37.3 | 44 | 44.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 32 | 46 | 48 | 48 | 54 | 60 | 43 | 15 | 2 | 5 | 39.3 | 46 | 46.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 33 | 47 | 49 | 49 | 55 | 61 | 43 | 15 | 2 | 5 | 40.3 | 47 | 47.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 35 | 49 | 51 | 51 | 57 | 63 | 43 | 15 | 2 | 5 | 42.3 | 49 | 49.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 38 | 54 | 58 | 58 | 64 | 70 | 47 | 15 | 2 | 5 | 49.3 | 56 | 56.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 40 | 56 | 60 | 60 | 66 | 72 | 47 | 15 | 2 | 5 | 51.3 | 58 | 58.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 43 | 59 | 63 | 63 | 69 | 75 | 47 | 15 | 2 | 5 | 54.3 | 61 | 61.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 45 | 61 | 65 | 65 | 71 | 77 | 47 | 15 | 2 | 5 | 56.3 | 63 | 63.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 48 | 64 | 68 | 68 | 74 | 80 | 47 | 15 | 2 | 5 | 59.3 | 66 | 66.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 50 | 68 | 70 | 70 | 76 | 82 | 48 | 17 | 3 | 6 | 61.3 | 68 | 68.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 53 | 71 | 73 | 73 | 79 | 85 | 48 | 17 | 3 | 6 | 64.3 | 71 | 71.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 55 | 73 | 75 | 75 | 81 | 87 | 48 | 17 | 3 | 6 | 66.3 | 73 | 73.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 58 | 76 | 83 | 83 | 89 | 95 | 48 | 17 | 3 | 6 | 71.3 | 78 | 80 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 60 | 78 | 85 | 85 | 91 | 97 | 48 | 17 | 3 | 6 | 73.3 | 80 | 82 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 63 | 81 | 88 | 88 | 94 | 100 | 48 | 17 | 3 | 6 | 76.3 | 83 | 85 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 65 | 83 | 90 | 90 | 96 | 102 | 48 | 17 | 3 | 6 | 78.3 | 85 | 87 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 68 | 88 | 93 | 93 | 99 | 105 | 48 | 17 | 3 | 6 | 83.3 | 90 | 91 | 38 | 34 | 24 | 2 | 12 | 4 | 4 |
| 70 | 90 | 95 | 95 | 101 | 107 | 48 | 17 | 3 | 6 | 85.3 | 92 | 93 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 75 | 95 | 104 | 104 | 110 | 116 | 48 | 17 | 3 | 6 | 90.3 | 97 | 100 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 80 | 100 | 109 | 109 | 115 | 121 | 48 | 17 | 3 | 6 | 98.3 | 105 | 106 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 85 | 105 | 114 | 114 | 120 | 126 | 50 | 19 | 4 | 7 | 103.3 | 110 | 111 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 90 | 110 | 119 | 119 | 125 | 131 | 50 | 19 | 4 | 7 | 108.3 | 115 | 116 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 95 | 115 | 124 | 124 | 130 | 136 | 50 | 19 | 4 | 7 | 113.3 | 120 | 121 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 100 | 122 | 129 | 129 | 135 | 141 | 51 | 19 | 4 | 7 | 118.3 | 125 | 126 | 39 | 36 | 26 | 3 | 20 | 4 | 4 |
| | | | | | | | | | | | | | | | | | | | |

ISO Standard balance Seal

TYPE **BV11-R1** (T3-04001)

TYPE **BV11-R3** (T3-04006)





〈注〉インサートパッキンの "O" リング型もあります。(T3-04005) 尚インサート部詳細寸法は BV31-R3、T3-04014と同一寸法です。

| No. | Parts Name | Q'ty | No. | Parts Name | Q'ty |
|-----|----------------|------|---------|-----------------|------|
| 1 | Set screws | List | (R1) 7 | Insert packings | 2 |
| 2 | Springs | List | 8 | Insert | 1 |
| 3 | Drive pins | List | 9 | Coller | 1 |
| 4 | Comp ring | 1 | 10 | Spring pins | List |
| 5 | Shaft packings | 2 | (R3) 7 | Insert Packings | 2 |
| 6 | Seal ring | 1 | (R3) 7A | Adapter | 1 |

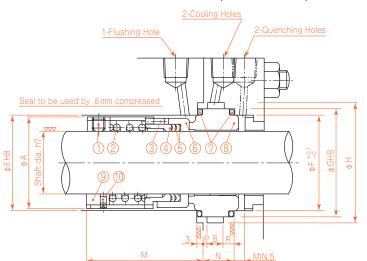
Used for higt pressure. Pressure $-0.05\sim2.5 MPa$ (Special designing for above 2.5MPa) Temp. Water and so on Up to 90% (for above 90%, cooler must be used) Oil and so on Up to 140% (for above 140%, cooler must be used)

PTFE used for shaft packing.

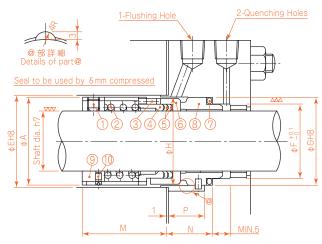
| | | | | | | 寸 | 法 | 表 | | D | imens | sion | | | | | | 部」 | 品数量 | 表 Q | 'ty |
|-------|-----|----|-----|-----|-----|-----|-------|--------------|------|---|-------|-------|-----|-------|-------|------|----|----|-----|-----|-----|
| SHAFT | Δ. | D | Б | | | В | V11-R | 1 Typ | oe . | | | | В | V11-R | 3 Тур | oe . | | 1 | | | 100 |
| DIA | A | D | Е | F | G | Н | M | N | P | R | S | F | G | Н | M | N | P | 1 | 2 | 3 | 10 |
| 20 | 34 | 16 | 36 | 36 | 42 | 48 | 50 | 15 | 2 | 5 | 14 | 27.3 | 34 | 34.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 22 | 36 | 18 | 38 | 38 | 44 | 50 | 50 | 15 | 2 | 5 | 14 | 29.3 | 36 | 36.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 24 | 38 | 20 | 40 | 40 | 46 | 52 | 50 | 15 | 2 | 5 | 14 | 31.3 | 38 | 38.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 25 | 39 | 21 | 41 | 41 | 47 | 53 | 50 | 15 | 2 | 5 | 14 | 32.3 | 39 | 39.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 26 | 40 | 22 | 42 | 42 | 48 | 54 | 50 | 15 | 2 | 5 | 14 | 33.3 | 40 | 40.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 28 | 42 | 24 | 44 | 44 | 50 | 56 | 50 | 15 | 2 | 5 | 14 | 35.3 | 42 | 42.5 | 36 | 26 | 18 | 2 | 4 | 2 | 2 |
| 30 | 44 | 25 | 46 | 46 | 52 | 58 | 50 | 15 | 2 | 5 | 14 | 37.3 | 44 | 44.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 32 | 46 | 27 | 48 | 48 | 54 | 60 | 50 | 15 | 2 | 5 | 14 | 39.3 | 46 | 46.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 33 | 47 | 28 | 49 | 49 | 55 | 61 | 50 | 15 | 2 | 5 | 14 | 40.3 | 47 | 47.5 | 36 | 26 | 18 | 2 | 6 | 2 | 2 |
| 35 | 49 | 30 | 51 | 51 | 57 | 63 | 50 | 15 | 2 | 5 | 14 | 42.3 | 49 | 49.5 | 36 | 26 | 18 | 2 | 8 | 2 | 4 |
| 38 | 54 | 32 | 58 | 58 | 64 | 70 | 54 | 15 | 2 | 5 | 17 | 49.3 | 56 | 56.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 40 | 56 | 35 | 60 | 60 | 66 | 73 | 54 | 15 | 2 | 5 | 17 | 51.3 | 58 | 58.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 43 | 59 | 38 | 63 | 63 | 69 | 75 | 54 | 15 | 2 | 5 | 17 | 54.3 | 61 | 61.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 45 | 61 | 40 | 65 | 65 | 71 | 77 | 54 | 15 | 2 | 5 | 17 | 56.3 | 63 | 63.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 48 | 64 | 43 | 68 | 68 | 74 | 80 | 54 | 15 | 2 | 5 | 17 | 59.3 | 66 | 66.5 | 37 | 31 | 22 | 2 | 8 | 2 | 4 |
| 50 | 68 | 45 | 70 | 70 | 76 | 82 | 55 | 17 | 3 | 6 | 17 | 61.3 | 68 | 68.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 53 | 71 | 48 | 73 | 73 | 79 | 85 | 55 | 17 | 3 | 6 | 17 | 64.3 | 71 | 71.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 55 | 73 | 50 | 75 | 75 | 81 | 87 | 55 | 17 | 3 | 6 | 17 | 66.3 | 73 | 73.5 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 58 | 76 | 53 | 83 | 83 | 89 | 95 | 55 | 17 | 3 | 6 | 17 | 71.3 | 78 | 80 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 60 | 78 | 55 | 85 | 85 | 91 | 97 | 55 | 17 | 3 | 6 | 17 | 73.3 | 80 | 82 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 63 | 81 | 58 | 88 | 88 | 94 | 100 | 55 | 17 | 3 | 6 | 17 | 76.3 | 83 | 85 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 65 | 83 | 60 | 90 | 90 | 96 | 102 | 55 | 17 | 3 | 6 | 17 | 78.3 | 85 | 87 | 38 | 31 | 22 | 2 | 12 | 4 | 4 |
| 68 | 88 | 63 | 93 | 93 | 99 | 105 | 55 | 17 | 3 | 6 | 17 | 83.3 | 90 | 91 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 70 | 90 | 65 | 95 | 95 | 101 | 107 | 55 | 17 | 3 | 6 | 17 | 85.3 | 92 | 93 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 75 | 95 | 70 | 104 | 104 | 110 | 116 | 55 | 17 | 3 | 6 | 17 | 90.3 | 97 | 100 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 80 | 100 | 75 | 109 | 109 | 115 | 121 | 55 | 17 | 3 | 6 | 17 | 98.3 | 105 | 106 | 38 | 34 | 24 | 2 | 16 | 4 | 4 |
| 85 | 105 | 80 | 114 | 114 | 120 | 126 | 57 | 19 | 4 | 7 | 19 | 103.3 | 110 | 111 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 90 | 110 | 85 | 119 | 119 | 125 | 131 | 57 | 19 | 4 | 7 | 19 | 108.3 | 115 | 116 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 95 | 115 | 90 | 124 | 124 | 130 | 136 | 57 | 19 | 4 | 7 | 19 | 113.3 | 120 | 121 | 38 | 36 | 26 | 2 | 16 | 4 | 4 |
| 100 | 122 | 95 | 129 | 129 | 135 | 141 | 58 | 19 | 4 | 7 | 19 | 118.3 | 125 | 126 | 39 | 36 | 26 | 3 | 20 | 4 | 4 |
| | | | | | | | | | | | | | | | | | | | | | |

ISO Standard Unbalance Seal

TYPE **UV31-R1** (T3-04009)



TYPE **UV31-R3** (T3-04012)



〈注〉インサートパッキンの "V" リング型もあります。(T3-04013) 尚インサート部詳細寸法は UV11-R3、T3-04004と同一寸法です。

Q'ty No. Parts Name Q'ty No. Parts Name 3 6 1 Set screws Seal ring 1 2 Springs 1 7 Insert packings $1 \ or \ 2$ 3 Drive pins List 8 Insert 1 Comp ring 1 9 Coller 1 5 Shaft packings 2 2 10 Spring pins

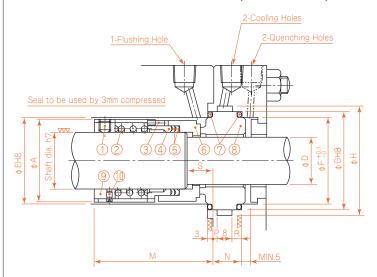
 $\begin{array}{lll} Pressure & -0.03{\sim}0.5MPa \\ Temp. & Same as UV11 \\ Viscosity & Up to 10,000 cp \\ Speed & Up to 35m/sec \end{array}$

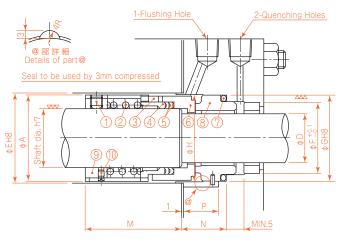
| | | | | | 4 | 法 | 表 | | Di | mensio | n | | | | | | 部品数量表 (| Q'ty |
|-------|-----|-----|-----|-----|-----|----------|------|---|----|--------|-----|--------|-------|------|----|-----|---------|------|
| SHAFT | Δ. | Б | | | UV3 | 1-R1 | Туре | | | | U | IV31-R | З Тур | oe . | | | | |
| DIA | A | Е | F | G | Н | M | N | P | R | F | G | Н | M | N | P | δ | 3 | |
| 20 | 34 | 36 | 36 | 42 | 48 | 53 | 15 | 2 | 5 | 27.3 | 34 | 34.5 | 39 | 23 | 18 | 4.5 | 2 | |
| 22 | 36 | 38 | 38 | 44 | 50 | 53 | 15 | 2 | 5 | 29.3 | 36 | 36.5 | 39 | 23 | 18 | 4.5 | 2 | |
| 24 | 38 | 40 | 40 | 46 | 52 | 53 | 15 | 2 | 5 | 31.3 | 38 | 38.5 | 39 | 23 | 18 | 4.5 | 2 | |
| 25 | 39 | 41 | 41 | 47 | 53 | 55 | 15 | 2 | 5 | 32.3 | 39 | 39.5 | 41 | 23 | 18 | 4.5 | 2 | |
| 26 | 40 | 42 | 42 | 48 | 54 | 55 | 15 | 2 | 5 | 33.3 | 40 | 40.5 | 41 | 23 | 18 | 4.5 | 2 | |
| 28 | 42 | 44 | 44 | 50 | 56 | 55 | 15 | 2 | 5 | 35.3 | 42 | 42.5 | 41 | 23 | 18 | 4.5 | 2 | |
| 30 | 44 | 46 | 46 | 52 | 58 | 56 | 15 | 2 | 5 | 37.3 | 44 | 44.5 | 42 | 23 | 18 | 4.5 | 2 | |
| 32 | 46 | 48 | 48 | 54 | 60 | 56 | 15 | 2 | 5 | 39.3 | 46 | 46.5 | 42 | 23 | 18 | 4.5 | 2 | |
| 33 | 47 | 49 | 49 | 55 | 61 | 56 | 15 | 2 | 5 | 40.3 | 47 | 47.5 | 42 | 23 | 18 | 4.5 | 2 | |
| 35 | 49 | 51 | 51 | 57 | 63 | 57 | 15 | 2 | 5 | 42.3 | 49 | 49.5 | 43 | 23 | 18 | 4.5 | 2 | |
| 38 | 54 | 58 | 58 | 64 | 70 | 64 | 15 | 2 | 5 | 49.3 | 56 | 56.5 | 47 | 28 | 22 | 4 | 2 | |
| 40 | 56 | 60 | 60 | 66 | 73 | 64 | 15 | 2 | 5 | 51.3 | 58 | 58.5 | 47 | 28 | 22 | 4 | 2 | |
| 43 | 59 | 63 | 63 | 69 | 75 | 66 | 15 | 2 | 5 | 54.3 | 61 | 61.5 | 49 | 28 | 22 | 4 | 2 | |
| 45 | 61 | 65 | 65 | 71 | 77 | 66 | 15 | 2 | 5 | 56.3 | 63 | 63.5 | 49 | 28 | 22 | 4 | 2 | |
| 48 | 64 | 68 | 68 | 74 | 80 | 66 | 15 | 2 | 5 | 59.3 | 66 | 66.5 | 49 | 28 | 22 | 4 | 2 | |
| 50 | 68 | 70 | 70 | 76 | 82 | 68 | 17 | 3 | 6 | 61.3 | 68 | 68.5 | 51 | 28 | 22 | 4 | 4 | |
| 53 | 71 | 73 | 73 | 79 | 85 | 68 | 17 | 3 | 6 | 64.3 | 71 | 71.5 | 51 | 28 | 22 | 4 | 4 | |
| 55 | 73 | 75 | 75 | 81 | 87 | 72 | 17 | 3 | 6 | 66.3 | 73 | 73.5 | 55 | 28 | 22 | 4 | 4 | |
| 58 | 76 | 83 | 83 | 89 | 95 | 72 | 17 | 3 | 6 | 71.3 | 78 | 80 | 55 | 28 | 22 | 4 | 4 | |
| 60 | 78 | 85 | 85 | 91 | 97 | 72 | 17 | 3 | 6 | 73.3 | 80 | 82 | 55 | 28 | 22 | 4 | 4 | |
| 63 | 81 | 88 | 88 | 94 | 100 | 72 | 17 | 3 | 6 | 76.3 | 83 | 85 | 55 | 28 | 22 | 4 | 4 | |
| 65 | 83 | 90 | 90 | 96 | 102 | 75 | 17 | 3 | 6 | 78.3 | 85 | 87 | 58 | 28 | 22 | 4 | 4 | |
| 68 | 88 | 93 | 93 | 99 | 105 | 75 | 17 | 3 | 6 | 83.3 | 90 | 91 | 58 | 31 | 24 | 4 | 4 | |
| 70 | 90 | 95 | 95 | 101 | 107 | 77 | 17 | 3 | 6 | 85.3 | 92 | 93 | 60 | 31 | 24 | 4 | 4 | |
| 75 | 95 | 104 | 104 | 110 | 116 | 77 | 17 | 3 | 6 | 90.3 | 97 | 100 | 60 | 31 | 24 | 4 | 4 | |
| 80 | 100 | 109 | 109 | 115 | 121 | 79 | 17 | 3 | 6 | 98.3 | 105 | 106 | 62 | 31 | 24 | 4 | 4 | |
| 85 | 105 | 114 | 114 | 120 | 126 | 81 | 19 | 4 | 7 | 103.3 | 110 | 111 | 62 | 33 | 26 | 4 | 4 | |
| 90 | 112 | 119 | 119 | 125 | 131 | 84 | 19 | 4 | 7 | 108.3 | 115 | 116 | 65 | 33 | 26 | 4 | 4 | |
| 95 | 117 | 124 | 124 | 130 | 136 | 84 | 19 | 4 | 7 | 113.3 | 120 | 121 | 65 | 33 | 26 | 4 | 4 | |
| 100 | 124 | 129 | 129 | 135 | 141 | 102 | 19 | 4 | 7 | 118.3 | 125 | 126 | 83 | 33 | 26 | 4.5 | 4 | |
| | | | | | | | | | | | | | | | | | | _ |

ISO Standard balance Seal

TYPE **BV31-R1** (T3-04010)

TYPE **BV31-R3** (T3-04014)





〈注〉インサートパッキンの "V" リング型もあります。(T3-04015) 尚インサート部詳細寸法は BV11-R3、T3-04006と同一寸法です。

Speed Up to 35m/sec

No. Q'ty Parts Name Q'ty 3 6 Set screws Seal ring 1 1 2 Springs 1 7 Insert packings $1 \ or \ 2$ 8 3 Drive pins List Insert Comp ring 9 Coller 1 Shaft packings 2 2 5 10 Spring pins

Pressure -0.05~2.5MPa
(Special designing for above 2.5MPa)

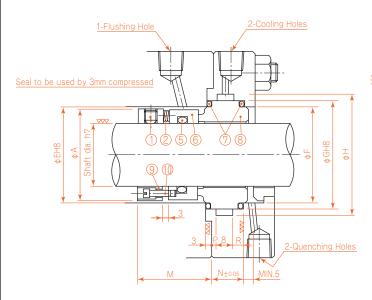
Temp. Same as BV11
Viscosity Up to 10,000 cp

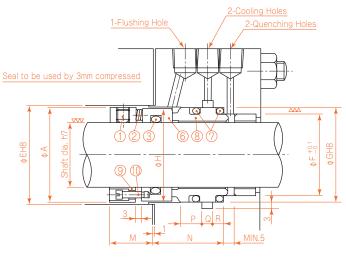
| | | | | | | 4 | 法 | 表 | | D | imens | sion | | | | | | 部品数量 | 表 Q'ty |
|-------|-----|----|-----|---------------------------|-----|-----|-----|----|---|---|-------|-------|-----|------|----|----|----|------|--------|
| SHAFT | A | D | E | BV31-R1 Type BV31-R3 Type | | | | | | | | | | | | δ | 3 | | |
| DIA | 11 | D | E | F | G | Н | M | N | P | R | S | F | G | Н | M | N | P | O | 9 |
| 20 | 34 | 16 | 36 | 36 | 42 | 48 | 60 | 15 | 2 | 5 | 14 | 27.3 | 34 | 34.5 | 46 | 23 | 18 | 4.5 | 2 |
| 22 | 36 | 18 | 38 | 38 | 44 | 50 | 60 | 15 | 2 | 5 | 14 | 29.3 | 36 | 36.5 | 46 | 23 | 18 | 4.5 | 2 |
| 24 | 38 | 20 | 40 | 40 | 46 | 52 | 60 | 15 | 2 | 5 | 14 | 31.3 | 38 | 38.5 | 46 | 23 | 18 | 4.5 | 2 |
| 25 | 39 | 21 | 41 | 41 | 47 | 53 | 62 | 15 | 2 | 5 | 14 | 32.3 | 39 | 39.5 | 48 | 23 | 18 | 4.5 | 2 |
| 26 | 40 | 22 | 42 | 42 | 48 | 54 | 62 | 15 | 2 | 5 | 14 | 33.3 | 40 | 40.5 | 48 | 23 | 18 | 4.5 | 2 |
| 28 | 42 | 24 | 44 | 44 | 50 | 56 | 62 | 15 | 2 | 5 | 14 | 35.3 | 42 | 42.5 | 48 | 23 | 18 | 4.5 | 2 |
| 30 | 44 | 25 | 46 | 46 | 52 | 58 | 63 | 15 | 2 | 5 | 14 | 37.3 | 44 | 44.5 | 49 | 23 | 18 | 4.5 | 2 |
| 32 | 46 | 27 | 48 | 48 | 54 | 60 | 63 | 15 | 2 | 5 | 14 | 39.3 | 46 | 46.5 | 49 | 23 | 18 | 4.5 | 2 |
| 33 | 47 | 28 | 49 | 49 | 55 | 61 | 63 | 15 | 2 | 5 | 14 | 40.3 | 47 | 47.5 | 49 | 23 | 18 | 4.5 | 2 |
| 35 | 49 | 30 | 51 | 51 | 57 | 63 | 64 | 15 | 2 | 5 | 14 | 42.3 | 49 | 49.5 | 50 | 23 | 18 | 4.5 | 2 |
| 38 | 54 | 32 | 58 | 58 | 64 | 70 | 71 | 15 | 2 | 5 | 17 | 49.3 | 56 | 56.5 | 54 | 28 | 22 | 4 | 2 |
| 40 | 56 | 35 | 60 | 60 | 66 | 73 | 71 | 15 | 2 | 5 | 17 | 51.3 | 58 | 58.5 | 54 | 28 | 22 | 4 | 2 |
| 43 | 59 | 38 | 63 | 63 | 69 | 75 | 73 | 15 | 2 | 5 | 17 | 54.3 | 61 | 61.5 | 56 | 28 | 22 | 4 | 2 |
| 45 | 61 | 40 | 65 | 65 | 71 | 77 | 73 | 15 | 2 | 5 | 17 | 56.3 | 63 | 63.5 | 56 | 28 | 22 | 4 | 2 |
| 48 | 64 | 43 | 68 | 68 | 74 | 80 | 73 | 15 | 2 | 5 | 17 | 59.3 | 66 | 66.5 | 56 | 28 | 22 | 4 | 2 |
| 50 | 68 | 45 | 70 | 70 | 76 | 82 | 75 | 17 | 3 | 6 | 17 | 61.3 | 68 | 68.5 | 58 | 28 | 22 | 4 | 4 |
| 53 | 71 | 48 | 73 | 73 | 79 | 85 | 75 | 17 | 3 | 6 | 17 | 64.3 | 71 | 71.5 | 58 | 28 | 22 | 4 | 4 |
| 55 | 73 | 50 | 75 | 75 | 81 | 87 | 79 | 17 | 3 | 6 | 17 | 66.3 | 73 | 73.5 | 62 | 28 | 22 | 4 | 4 |
| 58 | 76 | 53 | 83 | 83 | 89 | 95 | 79 | 17 | 3 | 6 | 17 | 71.3 | 78 | 80 | 62 | 28 | 22 | 4 | 4 |
| 60 | 78 | 55 | 85 | 85 | 91 | 97 | 79 | 17 | 3 | 6 | 17 | 73.3 | 80 | 82 | 62 | 28 | 22 | 4 | 4 |
| 63 | 81 | 58 | 88 | 88 | 94 | 100 | 79 | 17 | 3 | 6 | 17 | 76.3 | 83 | 85 | 62 | 28 | 22 | 4 | 4 |
| 65 | 83 | 60 | 90 | 90 | 96 | 102 | 82 | 17 | 3 | 6 | 17 | 78.3 | 85 | 87 | 65 | 28 | 22 | 4 | 4 |
| 68 | 88 | 63 | 93 | 93 | 99 | 105 | 82 | 17 | 3 | 6 | 17 | 83.3 | 90 | 91 | 65 | 31 | 24 | 4 | 4 |
| 70 | 90 | 65 | 95 | 95 | 101 | 107 | 84 | 17 | 3 | 6 | 17 | 85.3 | 92 | 93 | 67 | 31 | 24 | 4 | 4 |
| 75 | 95 | 70 | 104 | 104 | 110 | 116 | 84 | 17 | 3 | 6 | 17 | 90.3 | 97 | 100 | 67 | 31 | 24 | 4 | 4 |
| 80 | 100 | 75 | 109 | 109 | 115 | 121 | 86 | 17 | 3 | 6 | 17 | 98.3 | 105 | 106 | 69 | 31 | 24 | 4 | 4 |
| 85 | 105 | 80 | 114 | 114 | 120 | 126 | 88 | 19 | 4 | 7 | 19 | 103.3 | 110 | 111 | 69 | 33 | 26 | 4 | 4 |
| 90 | 110 | 85 | 119 | 119 | 125 | 131 | 91 | 19 | 4 | 7 | 19 | 108.3 | 115 | 116 | 72 | 33 | 26 | 4 | 4 |
| 95 | 115 | 90 | 124 | 124 | 130 | 136 | 91 | 19 | 4 | 7 | 19 | 113.3 | 120 | 121 | 72 | 33 | 26 | 4 | 4 |
| 100 | 122 | 95 | 129 | 129 | 135 | 141 | 109 | 19 | 4 | 7 | 19 | 118.3 | 125 | 126 | 90 | 33 | 26 | 4.5 | 4 |

ISO Standard Unbalance Seal

TYPE **UO12-R1** (T3-04023)

TYPE UO12-R2 (T3-07649)





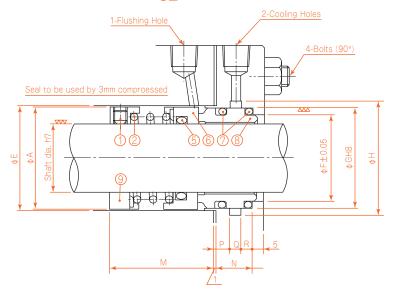
Parts Name No. Parts Name Q'ty No. Q'ty Set screws List 7 Insert packings 2 2 List 8 Insert 1 Springs5 Shaft packings 1 9 Coller 1 6 Seal ring 1 10 Spring pins List $\begin{array}{ll} \mbox{Pressure} & -0.03{\sim}0.5\mbox{MPa} \\ \mbox{Temp.} & \mbox{Water and so on} \\ & \mbox{Up to } 90\mbox{\ensuremath{$^{\circ}$}\ensuremath{$$

Synthetic rubber Oring used for shaft packing.

| | | | | | | 寸 | 法 | 表 | | Dime | ensior | ı | | | | | | 部品 | 数量表 | Q'ty |
|------|-----|-----|-----|-----|-----|-------|--------------|----|---|------|--------|-------|-------------------|----|----|---|---|-----|-----|------|
| HAFT | A | Е | | | U | 012-R | 1 Typ | рe | | | U | 012-R | 2 Ty ₁ | pe | | | | (I) | 2 | 3 |
| DIA | A | E | F | G | Н | M | N | P | R | F | G | Н | M | N | P | Q | R | T) | | |
| 20 | 34 | 36 | 36 | 42 | 48 | 34 | 15 | 2 | 5 | 28 | 34 | 34.5 | 18 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 22 | 36 | 38 | 38 | 44 | 50 | 36 | 15 | 2 | 5 | 30 | 36 | 36.5 | 20 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 24 | 39 | 40 | 40 | 46 | 52 | 36 | 15 | 2 | 5 | 32 | 38 | 38.5 | 20 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 25 | 40 | 41 | 41 | 47 | 53 | 36 | 15 | 2 | 5 | 33 | 39 | 39.5 | 20 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 26 | 41 | 42 | 42 | 48 | 54 | 36 | 15 | 2 | 5 | 34 | 40 | 40.5 | 20 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 28 | 43 | 44 | 44 | 50 | 56 | 36 | 15 | 2 | 5 | 36 | 42 | 42.5 | 20 | 33 | 10 | 5 | 5 | 2 | 4 | 2 |
| 30 | 45 | 46 | 46 | 52 | 58 | 36 | 15 | 2 | 5 | 38 | 44 | 44.5 | 20 | 33 | 10 | 5 | 5 | 2 | 6 | 2 |
| 32 | 47 | 48 | 48 | 54 | 60 | 36 | 15 | 2 | 5 | 40 | 46 | 46.5 | 20 | 33 | 10 | 5 | 5 | 2 | 6 | 2 |
| 33 | 48 | 49 | 49 | 55 | 61 | 36 | 15 | 2 | 5 | 41 | 47 | 47.5 | 20 | 33 | 10 | 5 | 5 | 2 | 6 | 2 |
| 35 | 50 | 51 | 51 | 57 | 63 | 36 | 15 | 2 | 5 | 43 | 49 | 49.5 | 20 | 33 | 10 | 5 | 5 | 2 | 6 | 2 |
| 38 | 55 | 58 | 58 | 64 | 70 | 39 | 15 | 2 | 5 | 50 | 56 | 56.5 | 20 | 38 | 10 | 6 | 6 | 2 | 8 | 4 |
| 40 | 57 | 60 | 60 | 66 | 72 | 39 | 15 | 2 | 5 | 52 | 58 | 58.5 | 20 | 38 | 10 | 6 | 6 | 2 | 8 | 4 |
| 43 | 60 | 63 | 63 | 69 | 75 | 39 | 15 | 2 | 5 | 55 | 61 | 61.5 | 20 | 38 | 10 | 6 | 6 | 2 | 8 | 4 |
| 45 | 62 | 65 | 65 | 71 | 77 | 39 | 15 | 2 | 5 | 57 | 63 | 63.5 | 20 | 38 | 10 | 6 | 6 | 2 | 8 | 4 |
| 48 | 65 | 68 | 68 | 74 | 80 | 39 | 15 | 2 | 5 | 60 | 66 | 66.5 | 20 | 38 | 10 | 6 | 6 | 2 | 8 | 4 |
| 50 | 68 | 70 | 70 | 76 | 82 | 43 | 17 | 3 | 6 | 62 | 68 | 68.5 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 53 | 71 | 73 | 73 | 79 | 85 | 43 | 17 | 3 | 6 | 65 | 71 | 72.5 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 55 | 73 | 75 | 75 | 81 | 87 | 43 | 17 | 3 | 6 | 67 | 73 | 73.5 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 58 | 76 | 83 | 83 | 89 | 95 | 43 | 17 | 3 | 6 | 72 | 78 | 80 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 60 | 78 | 85 | 85 | 91 | 97 | 43 | 17 | 3 | 6 | 74 | 80 | 82 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 63 | 81 | 88 | 88 | 94 | 100 | 43 | 17 | 3 | 6 | 77 | 83 | 85 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 65 | 83 | 90 | 90 | 96 | 102 | 43 | 17 | 3 | 6 | 79 | 85 | 87 | 24 | 38 | 10 | 6 | 6 | 2 | 12 | 4 |
| 68 | 88 | 93 | 93 | 99 | 105 | 44 | 17 | 3 | 6 | 84 | 90 | 91 | 25 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 70 | 90 | 95 | 95 | 101 | 107 | 44 | 17 | 3 | 6 | 86 | 92 | 93 | 25 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 75 | 95 | 104 | 104 | 110 | 116 | 44 | 17 | 3 | 6 | 91 | 97 | 100 | 25 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 80 | 100 | 109 | 109 | 115 | 121 | 44 | 17 | 3 | 6 | 99 | 105 | 106 | 25 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 85 | 105 | 114 | 114 | 120 | 126 | 46 | 19 | 4 | 7 | 104 | 110 | 111 | 27 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 90 | 110 | 119 | 119 | 125 | 131 | 46 | 19 | 4 | 7 | 109 | 115 | 116 | 27 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 95 | 115 | 124 | 124 | 130 | 136 | 46 | 19 | 4 | 7 | 114 | 120 | 121 | 27 | 41 | 11 | 8 | 6 | 2 | 16 | 4 |
| 100 | 122 | 129 | 129 | 135 | 141 | 47 | 19 | 4 | 7 | 119 | 125 | 126 | 28 | 41 | 11 | 8 | 6 | 3 | 20 | 4 |

ISO Standard Unbalance Seal

TYPE UO_{52}^{51} -R2 (T3-07650)



UO51···Clockwise Spring (CCW look at atm.) UO52···Counter-clockwise Spring (CW look at atm.)

| No. | Parts Name | Q'ty |
|-----|-----------------|------|
| 1 | Set screws | List |
| 2 | Springs | 1 |
| 5 | Shaft packings | 1 |
| 6 | Seal ring | 1 |
| 7 | Insert packings | 2 |
| 8 | Insert | 1 |
| 9 | Coller | 1 |

Pressure −0.03~0.5MPa Water and so on Temp.

Up to $90\,^{\circ}\!\mathrm{C}$ (for above $90\,^{\circ}\!\mathrm{C}$, cooler must be used)

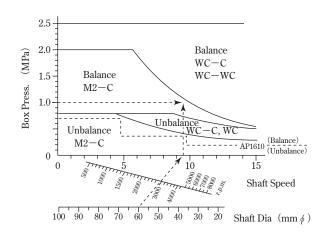
Oil and so on

Up to 140° C (for above 140° C, cooler must be used)

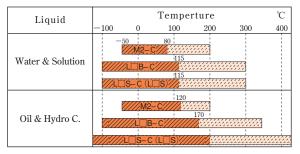
Synthetic rubber Oring used for shaft packing.

| | | | 寸 | 法 | 表 | Dim | ension | | | | 部品数量 | 表 Q'ty |
|------------|-----|-----|-----|-----|-----|-----|--------|---|---|---|------|--------|
| SHAFT DIA. | A | Е | F | G | Н | M | N | P | Q | R | 1) | |
| 20 | 34 | 36 | 28 | 34 | 40 | 43 | 16 | 6 | 5 | 5 | 2 | |
| 25 | 40 | 41 | 33 | 39 | 45 | 43 | 16 | 6 | 5 | 5 | 2 | |
| 30 | 45 | 46 | 38 | 44 | 50 | 46 | 16 | 6 | 5 | 5 | 2 | |
| 35 | 50 | 51 | 43 | 49 | 55 | 46 | 16 | 6 | 5 | 5 | 2 | |
| 40 | 57 | 60 | 52 | 58 | 64 | 52 | 18 | 6 | 6 | 6 | 2 | |
| 45 | 62 | 65 | 57 | 63 | 69 | 57 | 18 | 6 | 6 | 6 | 2 | |
| 50 | 68 | 70 | 62 | 68 | 74 | 62 | 18 | 6 | 6 | 6 | 2 | |
| 55 | 73 | 75 | 67 | 73 | 79 | 65 | 18 | 6 | 6 | 6 | 2 | |
| 60 | 78 | 85 | 74 | 80 | 86 | 67 | 18 | 6 | 6 | 6 | 2 | |
| 65 | 83 | 90 | 79 | 85 | 91 | 69 | 18 | 6 | 6 | 6 | 2 | |
| 70 | 90 | 95 | 86 | 92 | 98 | 72 | 21 | 7 | 8 | 6 | 2 | |
| 75 | 95 | 104 | 91 | 97 | 103 | 77 | 21 | 7 | 8 | 6 | 2 | |
| 80 | 100 | 109 | 99 | 105 | 111 | 77 | 21 | 7 | 8 | 6 | 2 | |
| 85 | 105 | 114 | 104 | 110 | 116 | 77 | 21 | 7 | 8 | 6 | 2 | |
| 90 | 110 | 119 | 109 | 115 | 121 | 77 | 21 | 7 | 8 | 6 | 2 | |
| 95 | 115 | 124 | 114 | 120 | 126 | 82 | 21 | 7 | 8 | 6 | 2 | |
| 100 | 122 | 129 | 119 | 125 | 131 | 82 | 21 | 7 | 8 | 6 | 3 | |
| | | | · | | | | | | | | | |

Speed-Pressure Limit



Temperture Limit



クーラー不要 NO COOLER クーラー要 COOLER USE

材質記号Material Code : カーボン CARBON

M2 : セラミックコーティング CERAMIC COATING L□B: 超硬合金 (焼嵌式) WC (SHRINKAGE) L□S: 超硬合金 (単体) WC (SOLID)



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