

700E Wafer with support lugs

700K Wafer with support lugs

700S Wafer with support lugs



Features and Benefits

Simple structure and low cost. Many years of proven reliable performance in various industries.

Concentric design raised centre seat

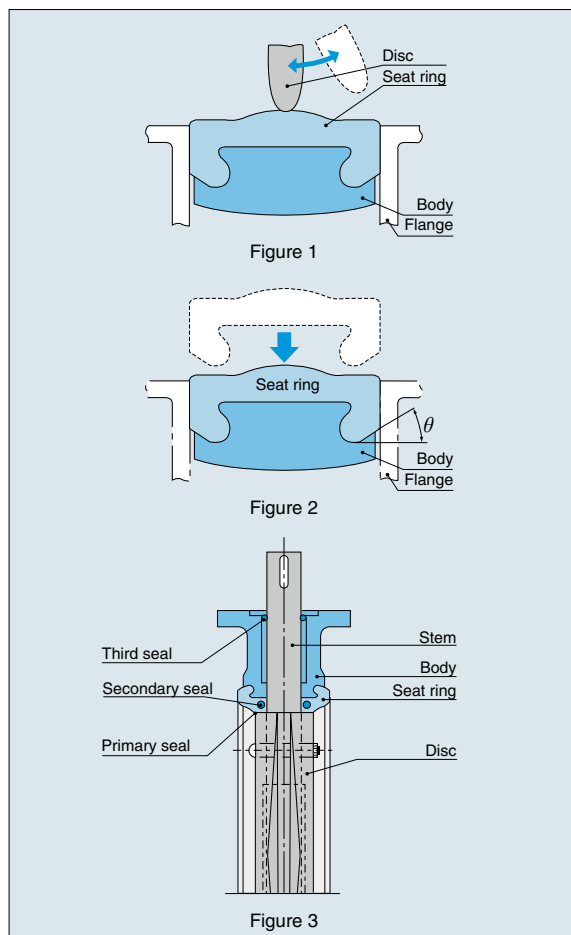
Figure 1 shows the TOMOE sealing design between the disc and seat. The raised section of the seat reduces and minimises the operating torque while ensuring a tight seal between disc and seat.

Rounded dove-tail design

Figure 2 shows the self-gripping seat ring design firmly in place inside the body. This design ensures the seat cannot be displaced during the bolting up of the adjoining flange. The seat also acts as the gasket between the valve and the pipe flange.

Triple-sealing system

Figure 3 shows the triple stem seal. The primary seal is created from the initial compression between the flat surface of the seat and the flat hub of the disc. When the valve is subject to normal operating conditions this seals the shaft and body from any contact with the flowing medium. The secondary seal is accomplished by an O-ring fitted into a stainless steel cartridge which is moulded into the seat ring. There is a secondary seal at each end of the stem where it penetrates the seat. The third seal is to prevent dirt and other foreign materials within the environment from getting into any of the working valve parts.



Discs and seats come in various materials to meet a wide range of needs. These are the ultimate general purpose valves and they provide excellent cost performance.

General Description

TOMOE butterfly valves are used worldwide for various applications in water treatment, shipbuilding, air conditioning, petrochemical, power generation and other industries. Among the various types of TOMOE rubber seated butterfly valves, there are three types – 700E, 700K and 700S – that are particularly suitable for large diameter applications.

Standard Specifications

| Type | 700E | | 700K | | 700S | | |
|--|---|---|---|--|--|--|--|
| Size | 650mm – 1350mm | | | | | | |
| Max. Working Pressure MPa (kgf/cm ²) | 0.98 MPa | | | | | | |
| Flange standard ※1 | JIS 5K/10K | | ASME B16.1 Class 125 ISO PN 10 ASME B 16.47 Series A Class 150lb | | ASME B16.47 Series B Class 150lb API 605 Class 150 | | |
| Working temperature range | NBR : -10 to 80 degrees C, *EPDM : -20 to 120 degrees C | | | | | | |
| Working temperature in continuous use ※3 | NBR : 0 to 60 degrees C, *EPDM : 0 to 70 degrees C | | | | | | |
| Standard materials | Body | Cast iron | | Cast iron, Ductile iron, Carbon steel | | Cast iron, Ductile iron, Carbon steel | |
| | Disc | Stainless steel Ductile iron with hard Cr plated stainless steel casting Aluminium bronze | | | | | |
| | Stem | Stainless steel, K-MONEL | | | | | |
| | Seat ring ※2 | NBR, *EPDM | | | | | |
| Coating | Lacquer Primer (Munsell N7) | | | | | | |
| Test Standard | API 598, AWWA C504 | | | | | | |
| Material Certification | EN 10204 3.1B for body disc and stem | | | | | | |
| Marking | MSS SP-25 | | | | | | |

※1 Other flange standards may be available on request. Consult us.

※2 The seat ring of 1000mm and over for 700E/S/K and 720F are vulcanized to the body.

※3 'Working temperature in continuous use' stands for the temperature continuously kept exceeding one hour.

※ Clean face disc (2 shaft design) is available for 700E/S/K and 720F.

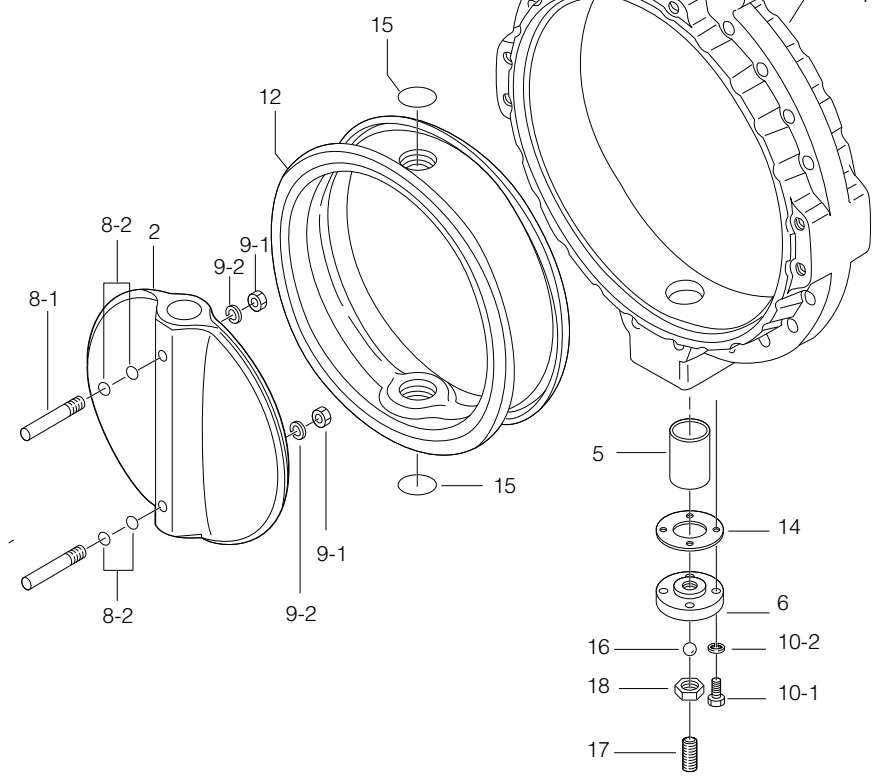
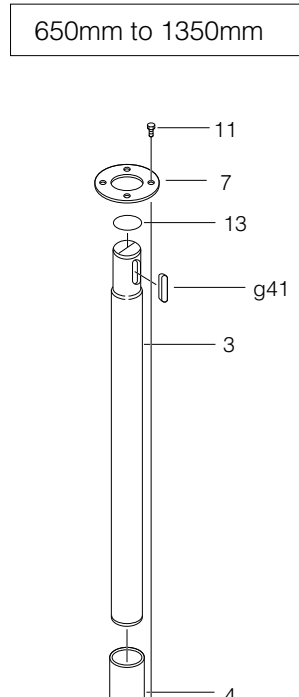
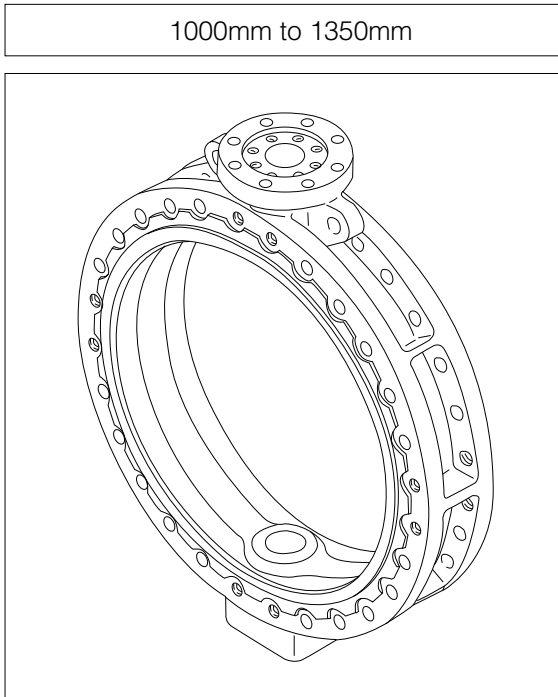
※ Please refer to 700G, 704G, 705G in case of 600mm or below.

* Never use an EPDM rubber seat ring if the valve is being used for oil or for a fluid containing even a slight amount of oil.

| |
|----------------------------|
| Butterfly Valve |
| TRITEC |
| TT2 |
| 334A |
| 302A/303Q |
| 304A/304Q |
| 302Y/304Y |
| 304M (HLV) |
| 507V/508V |
| DTM |
| 846T/847T/847Q |
| 841T/842T |
| 700Z |
| 700G/704G/705G |
| 700GB |
| 731P/732P/732Q/752W |
| 71LG |
| 700E/700K/700S |
| 704G/722F/720F |
| KRV |
| 227P |
| 907H/908H (MKT) |
| 903C |

700E/700K/700S

700E / 700K / 700S Expanded View of Component



700E / 700K / 700S Parts List

■ 700E / 700K / 700S Parts List (650mm to 1350mm)

| No. | Description | Q'ty | Remarks |
|-------|----------------|------|---|
| 1 | Body | 1 | |
| 2 | Disc | 1 | |
| 3 | Stem | 1 | |
| 4 | Bushing | 1 | |
| 5 | Bushing | 1 | |
| 6 | Bottom cover | 1 | |
| 7 | Retainer plate | 1 | |
| ★ 8-1 | Taper bolt | 2 | 650mm to 900mm |
| | | 4 | 1000mm to 1350mm |
| ★ 8-2 | O-ring | 4 | 650mm to 900mm |
| | | 8 | 1000mm to 1350mm |
| ★ 9-1 | Hexagon nut | 2 | 650mm to 900mm |
| | | 4 | 1000mm to 1350mm |
| ★ 9-2 | Spring washer | 2 | 650mm to 900mm |
| | | 4 | 1000mm to 1350mm |
| 10-1 | Hexagon bolt | 4 | 650mm to 850mm |
| | | 8 | 900mm to 1350mm |
| 10-2 | Spring washer | 4 | 650mm to 850mm |
| | | 8 | 900mm to 1350mm |
| 11 | Hexagon bolt | 4 | 650mm to 850mm |
| | | 8 | 900mm to 1350mm |
| ★ 12 | Seat ring | 1 | 1000mm to 1350mm:Vulcanized to the body |
| ★ 13 | O-ring | 1 | See Remark 2. |
| 14 | Gasket | 1 | |
| ★ 15 | O-ring | 2 | See Remark 2. |
| 16 | Ball | 1 | |
| 17 | Hollow bolt | 1 | |
| 18 | Lock nut | 1 | |
| g41 | Key | 1 | |

Remark 1: The ★ indicates recommended spare parts. They are supplied as "Seat ring set" with a small hexagonal spanner to remove hollow bolt (P.17).

Consult us when repairing the seating on 1000 to 1350mm types as it is vulcanized to the body.

Remark 2: The O-ring material (item numbers 13 and 15) should be the same as the seating (item number 12).

| |
|----------------------------|
| Butterfly Valve |
| TRITEC |
| TT2 |
| 334A |
| 302A/303Q |
| 304A/304Q |
| 302Y/304Y |
| 304M (HLV) |
| 507V/508V |
| DTM |
| 846T/847T/847Q |
| 841T/842T |
| 700Z |
| 700G/704G/705G |
| 700GB |
| 731P/732P/732Q/752W |
| 71LG |
| 700E/700K/700S |
| 704G/722F/720F |
| KRV |
| 227P |
| 907H/908H (MKT) |
| 903C |

700E/700K/700S

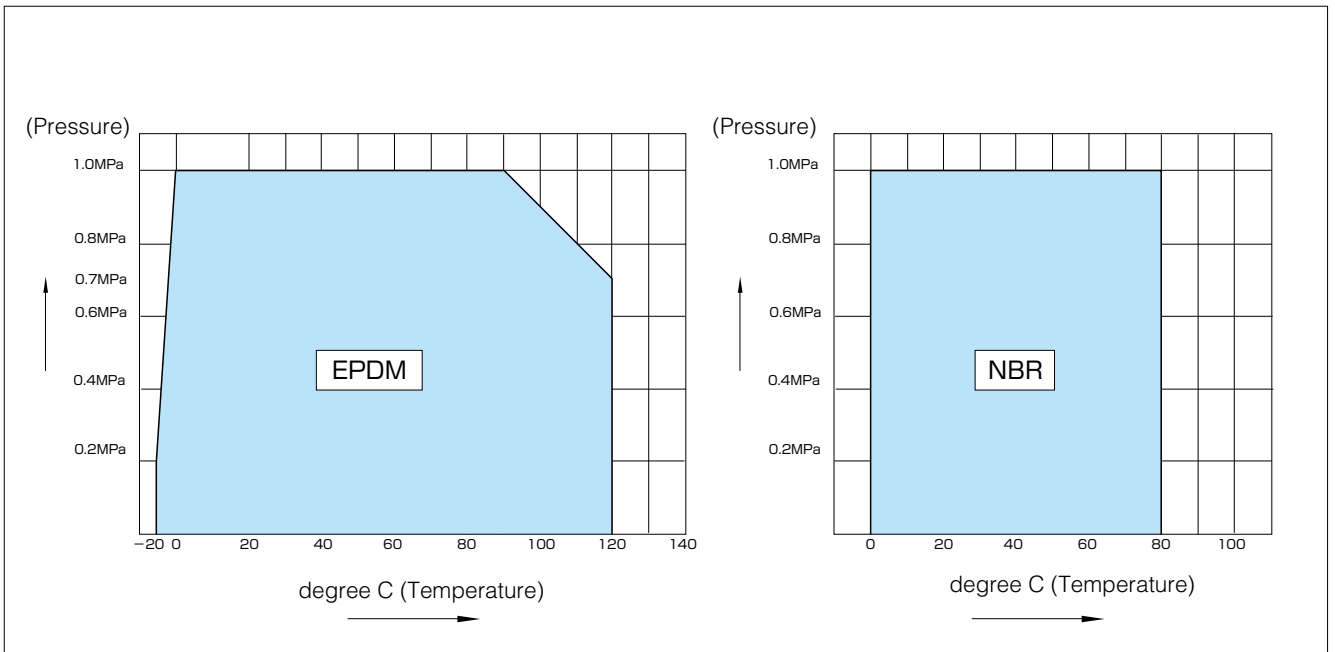
700E / 700K / 700S Actuator Selection Chart

700E / 700K / 700S

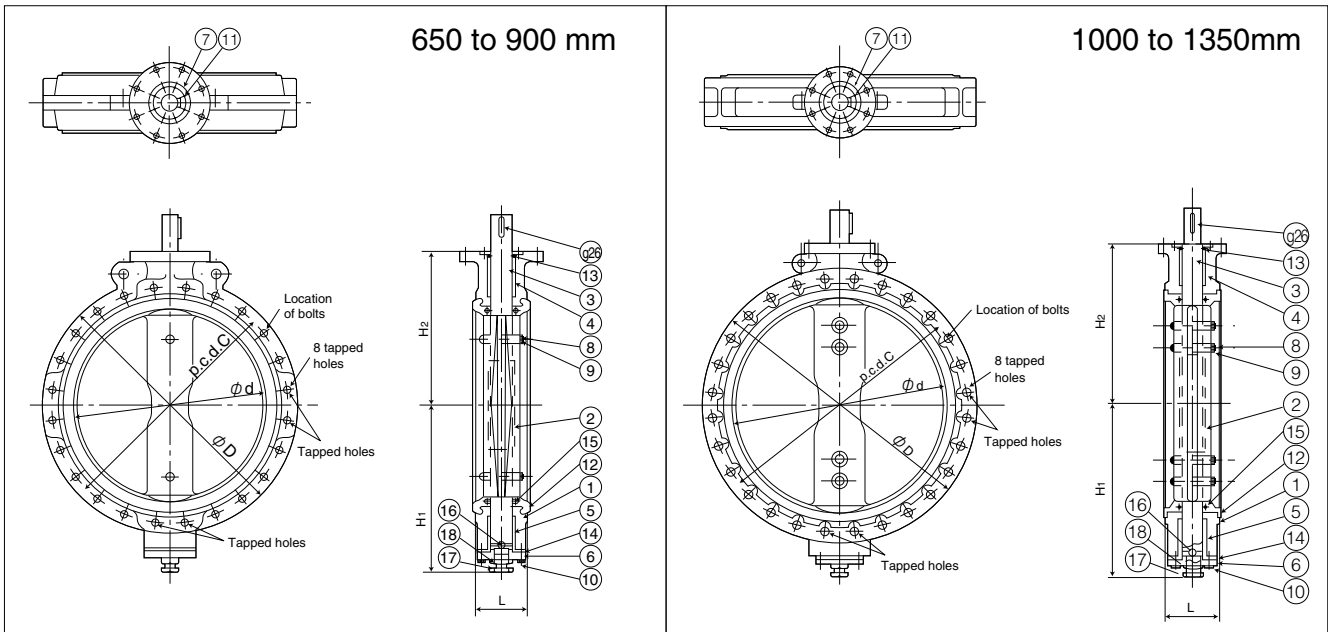
| Model | Category | Size ($\frac{mm}{inch}$) | | | | | | | | | |
|-------|------------|-----------------------------|-----------------------------|----------------------------|----------------------------|---------|-----|----------------------------|------|---------------------------|-------|
| | | 650 | 700 | 750 | 800 | 850 | 900 | 1000 | 1100 | 1200 | 1350 |
| | | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 44 | 48 | 54 |
| 2S | Standard | MGH-4 | MGH-4 1/2 | | | MGH-5 | | MGH-6 | | | MGH-7 |
| | Heavy duty | | | | | | | | | | |
| 3A | Standard | TGA-180 | TGA-200 | TGA-220 | | TGA-250 | | | | | |
| | Heavy duty | TGA-220 | | TGA-250 | | | | | | | |
| 4L | Standard | LTKD-05 0.75kW /MGH-4 | LTKD-05 0.75kW /MGH-5 | LTKD-05 1.5kW /MGH-5 | LTKD-01 1.5kW /MGH-5 | | | LTKD-01 1.5kW /MGH-6 | | LTKD-1 2.2kW /MGH-7 | |
| | Heavy duty | | | | | | | | | | |

| | | |
|--------------------|------------|---|
| Selection criteria | Standard | Select when none of the following heavy duty items apply. |
| | Heavy duty | Select when any of the following items apply. ① Powder or high viscosity fluid (crude oil, etc.) ② Control specification (with positioner) ③ Emergency open valve or pipe dead end valve ④ Air or Gas |

700E / 700K / 700S Pressure-Temperature Rating



Wafer with Support Lugs



■ Dimensions (700E / 700K / 700S)

| Nominal size | | Dimension (mm) | | | | | Weight (kg) | Flange Rating*1 | | | | | | | |
|--------------|------|----------------|------|-----|----------------|----------------|-------------------|-----------------|-------------------|---------------|-------------------|-----------------------|-------------------|------------------------|---------------|
| | | | | | | | | JIS 5K*2 | | JIS 10K*2 | | ASME B 16.47 Series A | | BS 4504 NP10, DIN PN10 | |
| mm | inch | φd | φD*1 | L | H ₁ | H ₂ | Long bolts & Nuts | Hex. bolts | Long bolts & Nuts | Hex. bolts | Long bolts & Nuts | Hex. bolts | Long bolts & Nuts | Hex. bolts | |
| 650 | 26 | 627 | 845 | 170 | 558 | 510 | 360 | 16-M24×285×50 | 16-M24×65×54 | 16-M30×310×60 | 16-M30×80×66 | 16-U1 1/4×390×70 | 16-U1 1/4×110×70 | 16-M20×200×45 | — |
| 700 | 28 | 670 | 905 | 180 | 629 | 560 | 490 | 16-M24×295×50 | 16-M24×65×54 | 16-M30×320×60 | 16-M30×80×66 | 20-U1 1/4×410×70 | 16-U1 1/4×110×70 | 16-M24×210×50 | — |
| 750 | 30 | 723 | 970 | 190 | 659 | 590 | 540 | 16-M30×320×60 | 16-M30×75×66 | 16-M30×335×60 | 16-M30×80×66 | 20-U1 1/4×425×70 | 16-U1 1/4×125×70 | 20-M24×250×50 | — |
| 800 | 32 | 772 | 1020 | 200 | 679 | 620 | 710 | 16-M30×335×60 | 16-M30×75×66 | 20-M30×345×60 | 16-M30×80×66 | 20-U1 1/2×460×80 | 16-U1 1/4×125×70 | 16-M27×280×60 | 8-M27×60×50 |
| 850 | 34 | 822 | 1070 | 210 | 709 | 650 | 800 | 16-M30×345×60 | 16-M30×75×66 | 20-M30×360×60 | 16-M30×80×66 | 24-U1 1/2×475×80 | 16-U1 1/4×135×80 | 16-M27×305×60 | 16-M27×65×54 |
| 900 | 36 | 858 | 1120 | 230 | 759 | 685 | 870 | 16-M30×360×60 | 16-M30×75×66 | 20-M30×385×65 | 16-M30×85×66 | 24-U1 1/2×510×80 | 16-U1 1/4×145×80 | 16-M30×335×60 | 16-M30×65×54 |
| 1000 | 40 | 975 | 1235 | 250 | 819 | 745 | 1200 | 20-M30×385×65 | 16-M30×85×66 | 20-M36×420×75 | 16-M36×100×78 | 28-U1 1/2×530×80 | 16-U1 1/4×145×80 | 20-M30×370×65 | 16-M30×75×66 |
| 1100 | 44 | 1070 | 1345 | 280 | 874 | 820 | 1350 | 20-M30×420×65 | 16-M30×85×66 | 20-M36×450×80 | 16-M36×100×78 | 32-U1 1/2×580×80 | 16-U1 1/4×155×80 | 20-M33×400×65 | 16-M33×90×72 |
| 1200 | 48 | 1168 | 1465 | 300 | 949 | 880 | 1700 | 24-M30×445×65 | 16-M30×85×66 | 24-M36×475×80 | 16-M36×100×78 | 36-U1 1/2×615×80 | 16-U1 1/4×160×80 | 24-M36×475×80 | 16-M36×100×78 |
| 1350 | 54 | 1314 | 1630 | 330 | 1030 | 960 | 2300 | 24-M30×475×65 | 16-M30×85×66 | 28-M42×525×80 | 16-M42×100×90 | — | — | — | — |

*700S dimensions for ASME B16-47, series B class finish are available upon request.

*1 "D" dimension shows for 700E, JIS 10 K.

*2 Nut is 80% of bolt diameter.

| |
|----------------------------|
| Butterfly Valve |
| TRITEC |
| TT2 |
| 334A |
| 302A/303Q |
| 304A/304Q |
| 302Y/304Y |
| 304M (HLV) |
| 507V/508V |
| DTM |
| 846T/847T/847Q |
| 841T/842T |
| 700Z |
| 700G/704G/705G |
| 700GB |
| 731P/732P/732Q/752W |
| 71LG |
| 700E/700K/700S |
| 704G/722F/720F |
| KRV |
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| 903C |

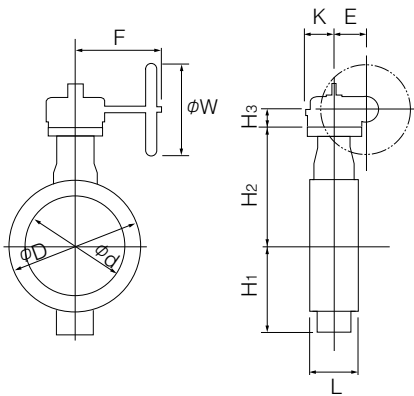
700E/700K/700S

Worm Gear Type 700E / 700K / 700S-2S (650mm to 1350mm)

700E / 700K / 700S-2S

| Nominal size | | Dimension (mm) | | | | | | | | | | Gear type | Approx. Weight (kg) |
|--------------|------|----------------|----------|-----|----------------|----------------|----------------|-----|-----|-----|-----|-----------|---------------------|
| mm | inch | ϕd | ϕD | L | H ₁ | H ₂ | H ₃ | E | K | F | W | | |
| 650 | 26 | 627 | 845 | 170 | 558 | 510 | 65 | 140 | 198 | 400 | 450 | MGH-4 | 363 |
| 700 | 28 | 670 | 905 | 180 | 629 | 560 | 75 | 185 | 267 | 457 | 500 | MGH-41/2 | 487 |
| 750 | 30 | 723 | 970 | 190 | 659 | 590 | 75 | 185 | 267 | 457 | 500 | MGH-41/2 | 547 |
| 800 | 32 | 772 | 1020 | 200 | 679 | 620 | 75 | 185 | 267 | 457 | 500 | MGH-41/2 | 617 |
| 850 | 34 | 822 | 1070 | 210 | 709 | 650 | 100 | 210 | 293 | 490 | 500 | MGH-5 | 780 |
| 900 | 36 | 858 | 1120 | 230 | 759 | 685 | 100 | 210 | 293 | 490 | 500 | MGH-5 | 855 |
| 1000 | 40 | 975 | 1235 | 250 | 819 | 745 | 100 | 210 | 293 | 490 | 500 | MGH-6 | 1384 |
| 1100 | 44 | 1070 | 1345 | 280 | 874 | 820 | 100 | 210 | 293 | 490 | 500 | MGH-6 | 1584 |
| 1200 | 48 | 1170 | 1465 | 300 | 948 | 880 | 100 | 210 | 293 | 490 | 500 | MGH-6 | 1984 |
| 1350 | 54 | 1314 | 1630 | 330 | 1030 | 960 | 151 | 280 | 293 | 675 | 600 | MGH-7 | 2330 |

700E / 700K / 700S-2S



2S Installation Direction

| | |
|----------------|------|
| | |
| 2SA (standard) | 2SAR |
| | |
| 2SB | 2SBR |

Double-acting Pneumatic Cylinder Type 700E / 700K / 700S-3A (650mm to 900mm)

Standard

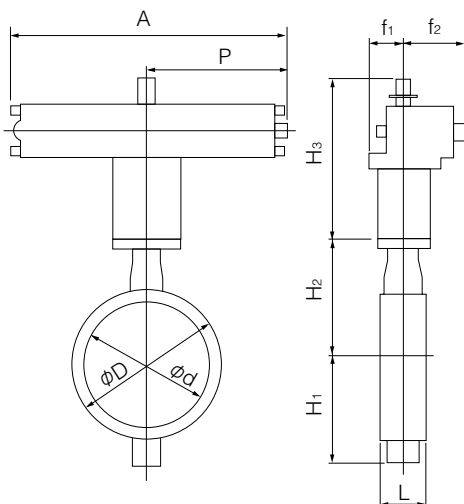
| Nominal size | | Dimension (mm) | | | | | | | | | | Cylinder type | Approx. Weight (kg) |
|--------------|------|----------------|----------|-----|----------------|----------------|----------------|------|-----|----------------|----------------|---------------|---------------------|
| mm | inch | ϕd | ϕD | L | H ₁ | H ₂ | H ₃ | A | P | f ₁ | f ₂ | | |
| 650 | 26 | 627 | 845 | 170 | 558 | 510 | 478 | 1053 | 543 | 130 | 218 | TGA-180 | 456 |
| 700 | 28 | 670 | 905 | 180 | 629 | 560 | 570 | 1163 | 599 | 160 | 253 | TGA-200 | 607 |
| 750 | 30 | 723 | 970 | 190 | 659 | 590 | 570 | 1163 | 599 | 160 | 253 | TGA-200 | 667 |
| 800 | 32 | 772 | 1020 | 200 | 679 | 620 | 600 | 1248 | 642 | 160 | 270 | TGA-220 | 761 |
| 850 | 34 | 822 | 1070 | 210 | 709 | 650 | 600 | 1248 | 642 | 160 | 270 | TGA-220 | 881 |
| 900 | 36 | 858 | 1120 | 230 | 759 | 685 | 633 | 1381 | 707 | 160 | 299 | TGA-250 | 1022 |

Heavy Duty

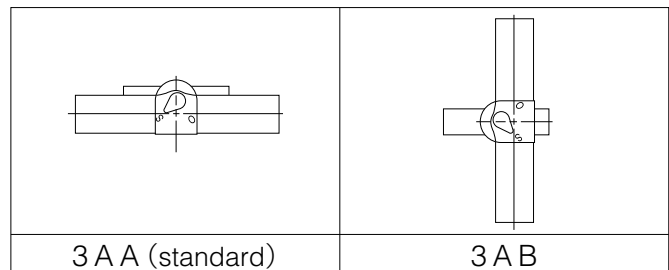
| Nominal size | | Dimension (mm) | | | | | | | | | | Cylinder type | Approx. Weight (kg) |
|--------------|------|----------------|----------|-----|----------------|----------------|----------------|------|-----|----------------|----------------|---------------|---------------------|
| mm | inch | ϕd | ϕD | L | H ₁ | H ₂ | H ₃ | A | P | f ₁ | f ₂ | | |
| 650 | 26 | 627 | 845 | 170 | 558 | 510 | 600 | 1248 | 642 | 160 | 270 | TGA-220 | 562 |
| 700 | 28 | 670 | 905 | 180 | 629 | 560 | 600 | 1248 | 642 | 160 | 270 | TGA-220 | 637 |
| 750 | 30 | 723 | 970 | 190 | 659 | 590 | 633 | 1381 | 707 | 160 | 299 | TGA-250 | 756 |
| 800 | 32 | 772 | 1020 | 200 | 679 | 620 | 633 | 1381 | 707 | 160 | 299 | TGA-250 | 826 |

| | | |
|--------------------|------------|---|
| Selection criteria | Standard | Select when none of the following heavy duty items apply. |
| | Heavy duty | Select when any of the following items apply. ① Powder or high viscosity fluid (crude oil, etc.) ② Control specification (with positioner) ③ Emergency open valve or pipe dead end valve ④ Air or Gas |

700E / 700K / 700S-3A



3A Installation Direction



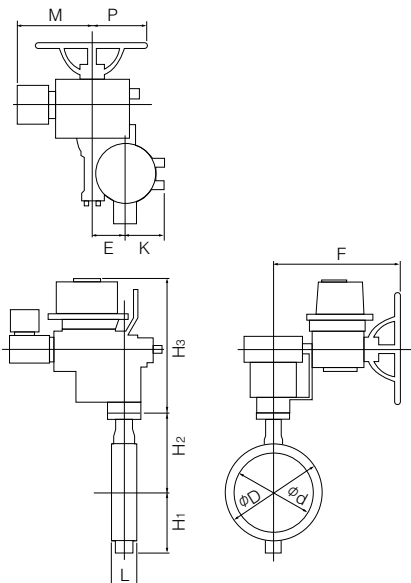
| |
|----------------------------|
| Butterfly Valve |
| TRITEC |
| TT2 |
| 334A |
| 302A/303Q |
| 304A/304Q |
| 302Y/304Y |
| 304M (HLV) |
| 507V/508V |
| DTM |
| 846T/847T/847Q |
| 841T/842T |
| 700Z |
| 700G/704G/705G |
| 700GB |
| 731P/732P/732Q/752W |
| 71LG |
| 700E/700K/700S |
| 704G/722F/720F |
| KRV |
| 227P |
| 907H/908H (MKT) |
| 903C |

700E/700K/700S

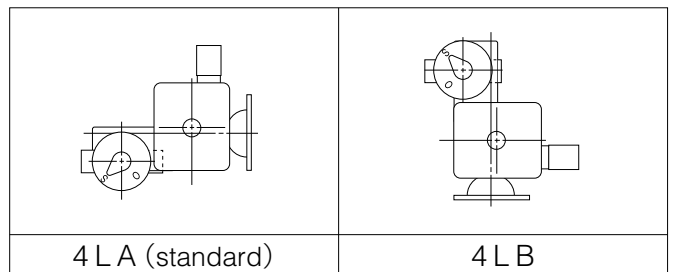
Three Phase Motor Actuator Type 700E / 700K / 700S-4L (650mm to 1350mm)

| Nominal size | | Dimension (mm) | | | | | | | | | | | Motor type | Approx. Weight (kg) |
|--------------|------|----------------|----------|-----|----------------|----------------|----------------|-----|-----|-----|-----|-----|-----------------------|---------------------|
| mm | inch | ϕd | ϕD | L | H ₁ | H ₂ | H ₃ | E | K | F | M | P | | |
| 650 | 26 | 627 | 845 | 170 | 558 | 510 | 570 | 140 | 198 | 637 | 440 | 375 | LTKD-05 0.75kW /MGH-4 | 515 |
| 700 | 28 | 670 | 905 | 180 | 629 | 560 | 640 | 210 | 293 | 747 | 440 | 375 | LTKD-05 0.75kW /MGH-5 | 710 |
| 750 | 30 | 723 | 970 | 190 | 659 | 590 | 640 | 210 | 293 | 747 | 477 | 375 | LTKD-05 1.5kW /MGH-5 | 770 |
| 800 | 32 | 772 | 1020 | 200 | 679 | 620 | 680 | 210 | 293 | 797 | 537 | 425 | LTKD-1 1.5kW /MGH-5 | 905 |
| 850 | 34 | 822 | 1070 | 210 | 709 | 650 | 680 | 210 | 293 | 797 | 537 | 425 | LTKD-1 1.5kW /MGH-5 | 1025 |
| 900 | 36 | 858 | 1120 | 230 | 759 | 685 | 680 | 210 | 293 | 797 | 537 | 425 | LTKD-1 1.5kW /MGH-5 | 1100 |
| 1000 | 40 | 975 | 1235 | 250 | 819 | 745 | 700 | 210 | 293 | 762 | 537 | 425 | LTKD-1 1.5kW /MGH-6 | 1670 |
| 1100 | 44 | 1070 | 1345 | 280 | 874 | 820 | 700 | 210 | 293 | 762 | 537 | 425 | LTKD-1 1.5kW /MGH-6 | 1870 |
| 1200 | 48 | 1170 | 1465 | 300 | 948 | 880 | 700 | 210 | 293 | 762 | 537 | 425 | LTKD-1 1.5kW /MGH-6 | 2270 |
| 1350 | 54 | 1314 | 1630 | 330 | 1030 | 960 | 700 | 280 | 293 | 810 | 540 | 410 | LTKD-1 2.2kW /MGH-7 | 2650 |

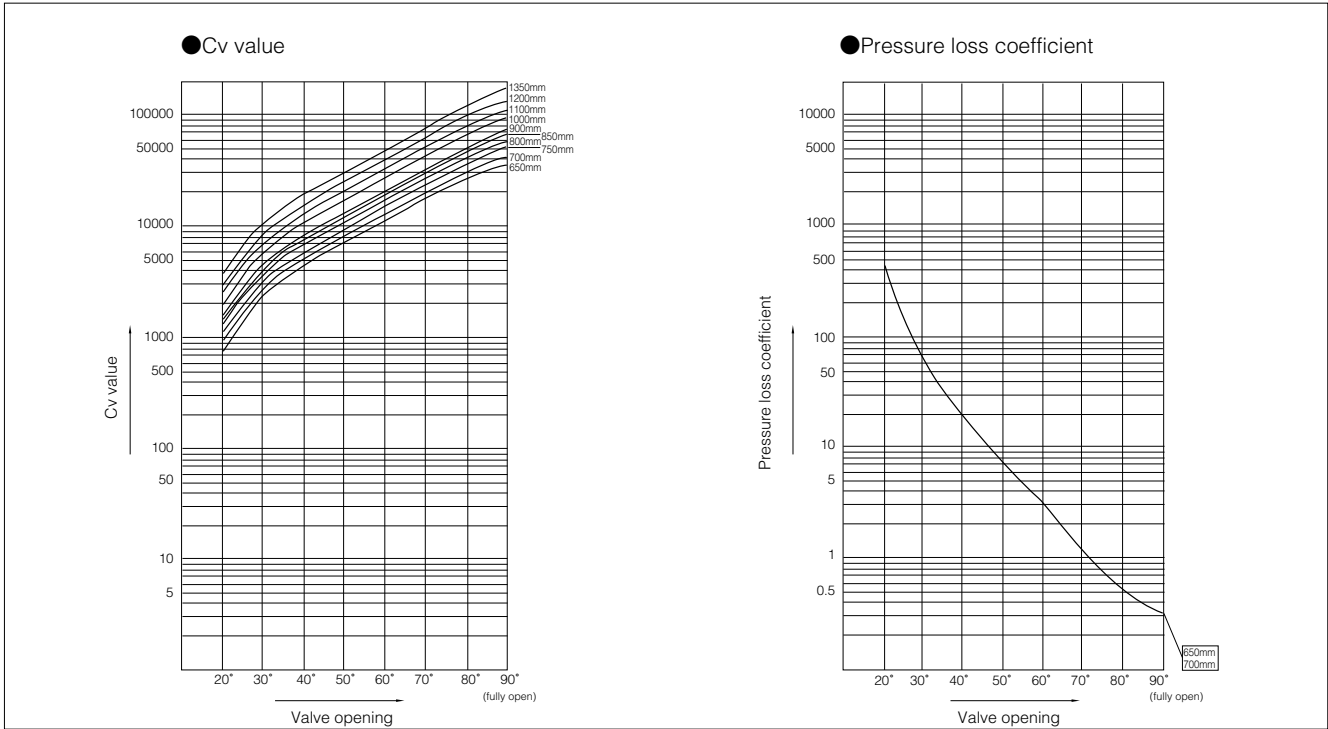
700E / 700K / 700S-4L



4L Installation Direction



700E / 700K / 700S Cv Value/Pressure Loss Coefficient



| |
|----------------------------|
| Butterfly Valve |
| TRITEC |
| TT2 |
| 334A |
| 302A/303Q |
| 304A/304Q |
| 302Y/304Y |
| 304M (HLV) |
| 507V/508V |
| DTM |
| 846T/847T/847Q |
| 841T/842T |
| 700Z |
| 700G/704G/705G |
| 700GB |
| 731P/732P/732Q/752W |
| 71LG |
| 700E/700K/700S |
| 704G/722F/720F |
| KRV |
| 227P |
| 907H/908H (MKT) |
| 903C |

700E / 700K / 700S Cv Value

| Nominal size | | Valve opening | | | | | | | |
|--------------|------|---------------|-------|-------|-------|-------|-------|--------|--------|
| mm | inch | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 650 | 26 | 817 | 2441 | 4473 | 7159 | 11013 | 17254 | 26972 | 32500 |
| 700 | 28 | 934 | 2807 | 5122 | 8152 | 12511 | 19728 | 30929 | 39000 |
| 750 | 30 | 935 | 3220 | 5965 | 9450 | 14328 | 22687 | 38260 | 52000 |
| 800 | 32 | 1200 | 3721 | 6791 | 10771 | 16553 | 26976 | 43316 | 59000 |
| 850 | 34 | 1164 | 4018 | 7516 | 12063 | 18567 | 29284 | 46350 | 66000 |
| 900 | 36 | 1358 | 4497 | 8298 | 13177 | 20139 | 32362 | 53126 | 73000 |
| 1000 | 40 | 1784 | 5835 | 10740 | 17060 | 26110 | 42070 | 68860 | 95000 |
| 1100 | 44 | 2075 | 7030 | 13020 | 20680 | 31530 | 50420 | 83340 | 114000 |
| 1200 | 48 | 2570 | 8520 | 15710 | 24900 | 37930 | 60280 | 98640 | 138000 |
| 1350 | 54 | 3385 | 10180 | 18810 | 30490 | 47840 | 75750 | 119000 | 173000 |

700E / 700K / 700S Pressure Loss Coefficient

| Nominal size | | Valve opening | | | | | | | |
|--------------|------|---------------|-----|-----|-----|-----|-----|-----|-----|
| mm | inch | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 650 | 26 | 553 | 62 | 18 | 7 | 3 | 1 | 1 | 0.4 |
| 700 | 28 | 573 | 63 | 19 | 8 | 3 | 1 | 1 | 0.3 |
| 750 | 30 | 758 | 64 | 19 | 7 | 3 | 1 | 0.5 | 0.3 |
| 800 | 32 | 599 | 62 | 19 | 7 | 3 | 1 | 0.5 | 0.3 |
| 850 | 34 | 815 | 68 | 20 | 8 | 3 | 1 | 0.5 | 0.3 |
| 900 | 36 | 756 | 69 | 20 | 8 | 3 | 1 | 0.5 | 0.3 |
| 1000 | 40 | 645 | 60 | 18 | 7 | 3 | 1 | 0.4 | 0.2 |
| 1100 | 44 | 701 | 61 | 18 | 7 | 3 | 1 | 0.4 | 0.2 |
| 1200 | 48 | 658 | 60 | 18 | 7 | 3 | 1 | 0.4 | 0.2 |
| 1350 | 54 | 611 | 68 | 20 | 8 | 3 | 1 | 0.5 | 0.2 |

700E/700K/700S

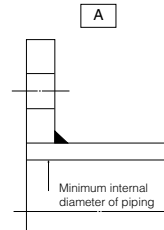
700E / 700K / 700S Applicable Flange Standard

| Nominal size | | JIS | | | ANSI | | BS4504 | DIN | BS10 |
|--------------|------|-----|-----|--|-------|-------|--------|------|---------|
| mm | inch | 5K | 10K | G5527 | 125Lb | 150Lb | PN10 | NP10 | Table E |
| 650 | 26 | T | T | Consult us if flange standard is not JIS 5K/10K. | | | | | |
| 700 | 28 | T | T | | | | | | |
| 750 | 30 | T | T | | | | | | |
| 800 | 32 | T | T | | | | | | |
| 850 | 34 | T | T | | | | | | |
| 900 | 36 | T | T | | | | | | |
| 1000 | 40 | T | T | | | | | | |
| 1100 | 44 | T | T | | | | | | |
| 1200 | 48 | T | T | | | | | | |
| 1350 | 54 | T | T | | | | | | |

○ : Can be used without flange drilling.
 D/T : With drill hole or tapping.
 T : With flange tapping.
 - : No nominal diameter.

700E / 700K / 700S Applicable Pipe List in Case of **A**

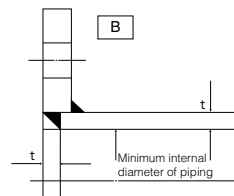
| Nominal size | | STPY | Sch20 | Sch40 | Minimum internal diameter of piping (mm) |
|--------------|------|------|-------|-------|--|
| mm | inch | | | | |
| 650 | 26 | ○ | ○ | ○ | 612 |
| 700 | 28 | ○ | - | - | 653 |
| 750 | 30 | ○ | - | - | 705 |
| 800 | 32 | ○ | - | - | 754 |
| 850 | 34 | ○ | - | - | 803 |
| 900 | 36 | ○ | - | - | 834 |
| 1000 | 40 | ○ | - | - | 950 |
| 1100 | 44 | ○ | - | - | 1040 |
| 1200 | 48 | ○ | - | - | 1138 |
| 1350 | 54 | ○ | - | - | 1277 |



Remark 1: ○=Applicable
 Remark 2: Butterfly valves are inserted into a pipe that was fitted with the disc when fully open.
 In cases where you are using a pipe or flange that is less than the minimum inner pipe diameter, use is still possible if means are taken such as inserting a spacer between the valve and flange.
 For details, please consult us.

700E / 700K / 700S Applicable Pipe List in Case of **B**

| Nominal size | | STPY | Sch20 | Sch40 |
|--------------|------|------|-------|-------|
| mm | inch | | | |
| 650 | 26 | ○ | ○ | ○ |
| 700 | 28 | ○ | - | - |
| 750 | 30 | ○ | - | - |
| 800 | 32 | ○ | - | - |
| 850 | 34 | ○ | - | - |
| 900 | 36 | ○ | - | - |
| 1000 | 40 | ○ | - | - |
| 1100 | 44 | ○ | - | - |
| 1200 | 48 | ○ | - | - |
| 1350 | 54 | ○ | - | - |



Remark 1: ○=Applicable
 Remark 2: Butterfly valves are inserted into a pipe that was fitted with the disc when fully open.
 In cases where you are using a pipe or flange that is less than the minimum inner pipe diameter, use is still possible if means are taken such as inserting a spacer between the valve and flange.
 For details, please consult us.