# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

Gearbox for concentric butterfly valves TTV.
Worm wheel type to facilitate the handle of the valve.
Direct mounting pad ISO 5211.



| | |
|---|---|
| **Size :** | DN32 to DN1200 |
| **Connection :** | For concentric TTV Butterfly Valves |
| **Min Temperature :** | -20°C |
| **Max Temperature :** | +80°C |
| **Ingress Protection Grading :** | IP65 |
| **Specifications :** | Worm wheel type<br>Direct mounting pad ISO 5211<br>Carbon steel handwheel<br>Carbon steel shaft |
| **Materials :** | Aluminium body |



Information provided as an indication and subject to possible modification

# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***SPECIFICATIONS :***

- For concentric TTV butterfly valves
- Ingress protection grading IP65
- Worm wheel type
- Direct mouting on ISO 5211 mounting pad
- Carbon steel handwheel
- Carbon steel shaft
- Aluminium body

***RANGE :***

- Gearbox IP65 **Ref. 1197** from DN 32 to DN 1400 for TTV concentric butterfly valves
- Min and max Temperature Ts : -20°C to +80°C

***DATASHEETS :***

| DN | 32/50 | 65 | 80/100 | 125/150 | 200 | 250 | 300 | 350 |
|---|---|---|---|---|---|---|---|---|
| Ref. | 1197050 | 1197065 | 1197100 | 1197150 | 1197200 | 1197250 | 1197300 | 1197350 |
| Ratio factor | 37 : 1 | 37 : 1 | 37 : 1 | 37 : 1 | 37 : 1 | 36 : 1 | 36 : 1 | 50 : 1 |
| Number of turns for opening / closing | 9.25 | 9.25 | 9.25 | 9.25 | 9.25 | 9 | 9 | 12.5 |
| Input torque (Nm) | 9 | 9 | 9 | 9 | 9 | 18.5 | 18.5 | 32 |
| Output torque (Nm) | 250 | 250 | 250 | 250 | 250 | 500 | 500 | 1200 |

| DN | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
|---|---|---|---|---|---|---|---|---|
| Ref. | 1197400 | 1197451 | 1197501 | 1197601 | 1197700 | 1197800 | - | - |
| Ratio factor | 50 : 1 | 38 : 1 | 55 : 1 | 52 : 1 | 208 : 1 | 208 : 1 | 312 : 1 | 312 : 1 |
| Number of turns for opening / closing | 12.5 | 9.5 | 13.75 | 13 | 52 | 52 | 78 | 78 |
| Input torque (Nm) | 32 | 56.8 | 64 | 115.4 | 43.6 | 43.6 | 53.4 | 53.4 |
| Output torque (Nm) | 1200 | 1620 | 2640 | 4500 | 6800 | 6800 | 12500 | 12500 |

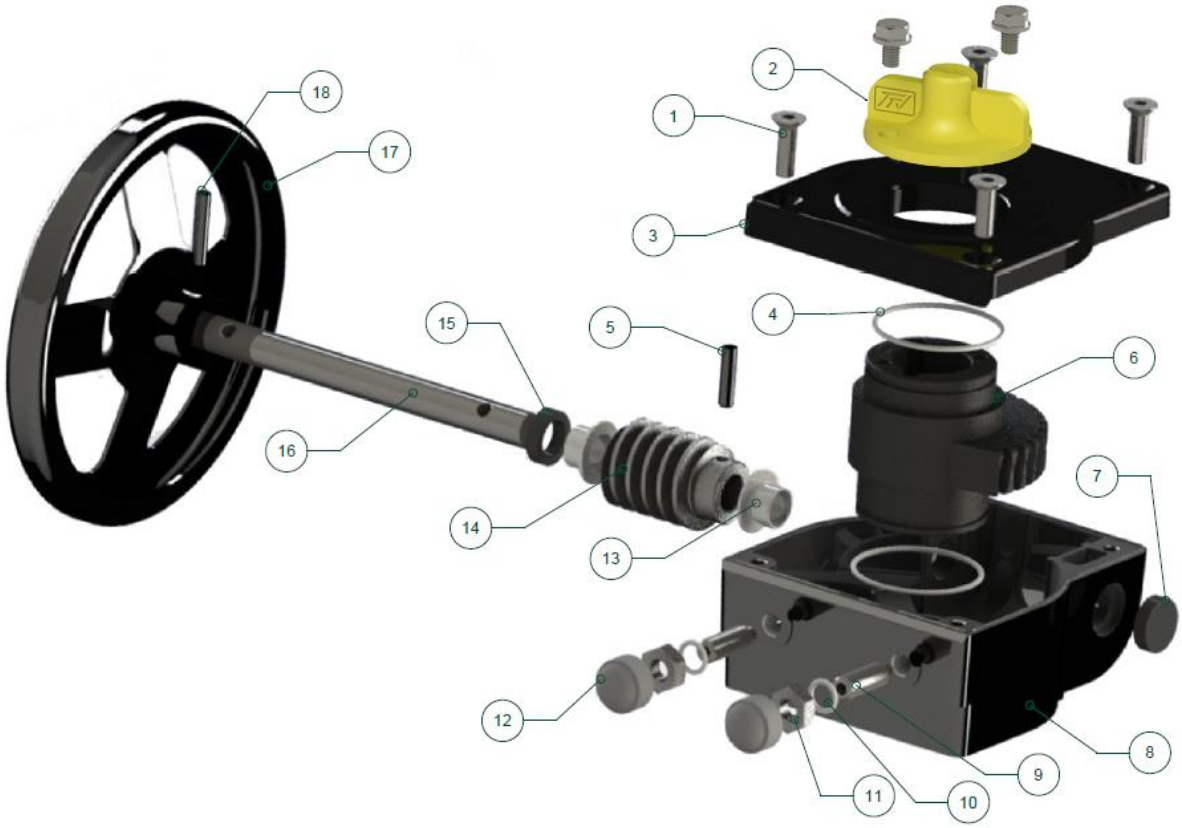
| DN | 1200 |
|---|---|
| Ratio factor | 702 : 1 |
| Number of turns for opening / closing | 175.5 |
| Input torque (Nm) | 32.3 |
| Output torque (Nm) | 17000 |



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# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***MATERIALS :***



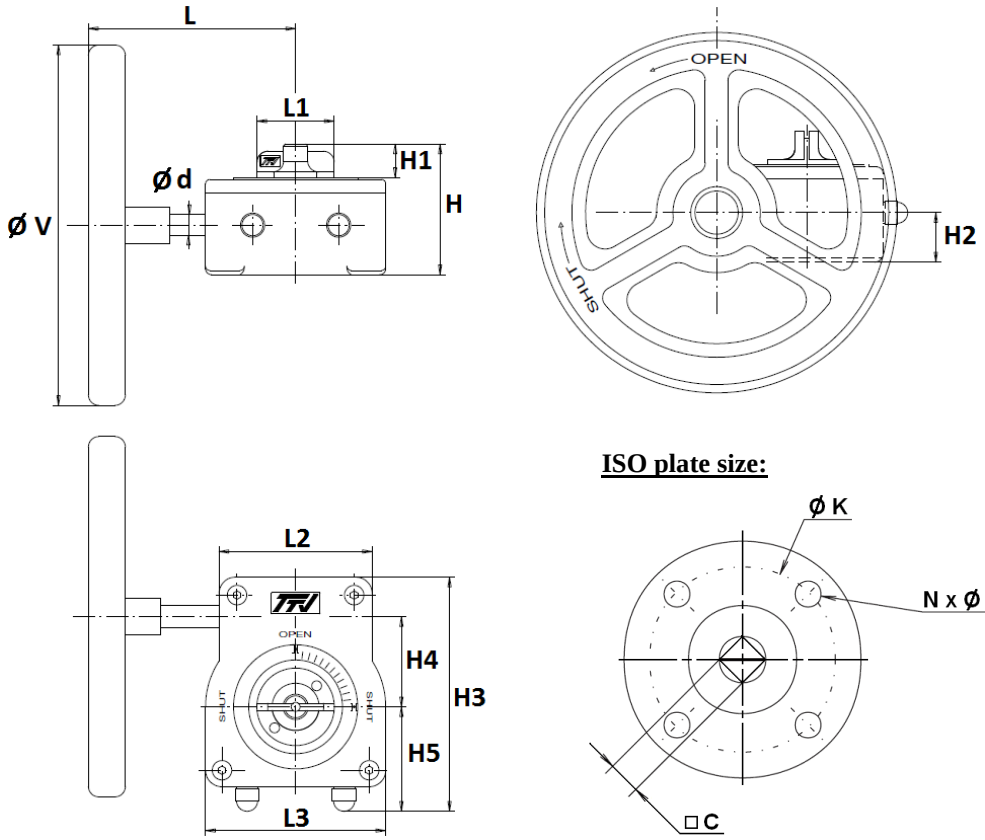

| Item | Designation | Materials |
|---|---|---|
| 1 | Bolt | AISI 304 |
| 2 | Pointer | PVC |
| 3 | Cover | Aluminium |
| 4 | O ring | NBR |
| 5 | Pin | Steel |
| 6 | Quadrant | Ductile iron EN GJS-400-15 |
| 7 | Gasket | NBR |
| 8 | Body | Aluminium |
| 9 | Adjusting bolt | Steel |
| 10 | Washer | Galvanized steel |
| 11 | Nut | Galvanized steel |
| 12 | Cap | NBR 70 |
| 13 | Bushing | Bronze |
| 14 | Worm | Carbon steel 45 |
| 15 | Gasket | NBR |
| 16 | Shaft | Carbon steel 45 |
| 17 | Handwheel | Carbon steel |
| 18 | Pin | Steel |



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# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***SIZE DN32-300 ( in mm ) :***



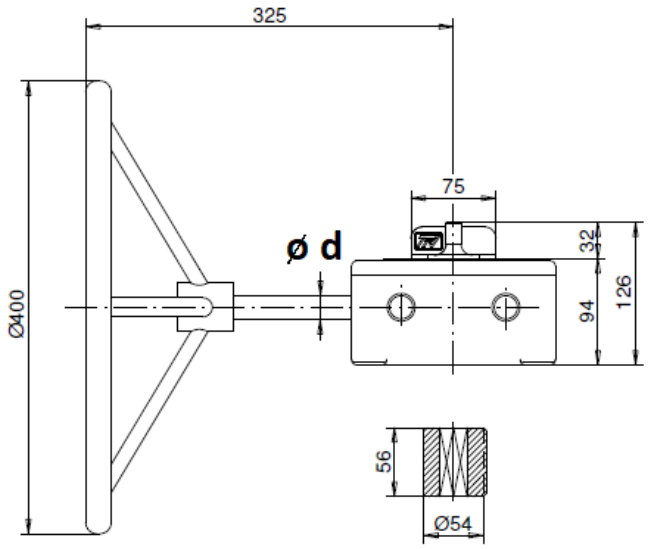

| DN | 32/50 | 65 | 80/100 | 125/150 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|---|
| Ø d | 12 | | | | | 16 | |
| L | 115 | 115 | 115 | 115 | 115 | 223.5 | 223.5 |
| L1 | 43 | 43 | 43 | 43 | 43 | 55 | 55 |
| L2 | 85 | 85 | 85 | 85 | 85 | 110 | 110 |
| L3 | 100 | 100 | 100 | 100 | 100 | 142 | 142 |
| H | 73 | 73 | 73 | 73 | 73 | 103 | 103 |
| H1 | 19 | 19 | 19 | 19 | 19 | 33 | 33 |
| H2 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 42 | 42 |
| H3 | 130 | 130 | 130 | 130 | 130 | 176 | 176 |
| H4 | 50 | 50 | 50 | 50 | 50 | 60 | 60 |
| H5 | 58 | 58 | 58 | 58 | 58 | 82 | 82 |
| Ø V | 140 | 140 | 140 | 200 | 200 | 300 | 300 |
| C | 8 | 9 | 11 | 14 | 17 | 19 | 22 |
| Ø K | 70 | 70 | 70 | 70 | 70 | 102 | 102 |
| ISO | F07 | F07 | F07 | F07 | F07 | F10 | F10 |
| N x Ø Z | 4 x M8 | 4 x M8 | 4 x M8 | 4 x M8 | 4 x M8 | 4 x M10 | 4 x M10 |
| Weight (Kg) | 1.35 | 1.35 | 1.35 | 1.75 | 1.75 | 4 | 4 |
| Ref. | 1197050 | 1197065 | 1197100 | 1197150 | 1197200 | 1197250 | 1197300 |

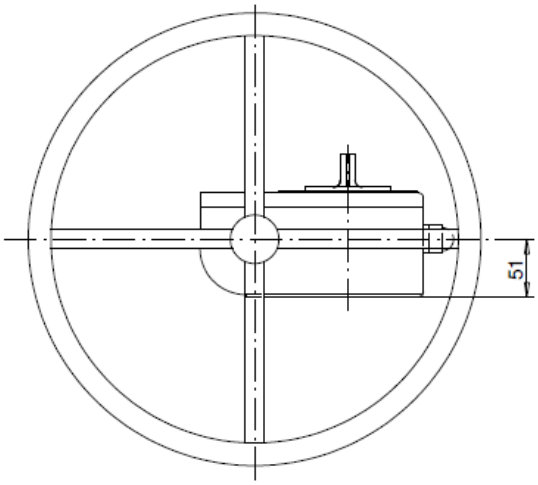


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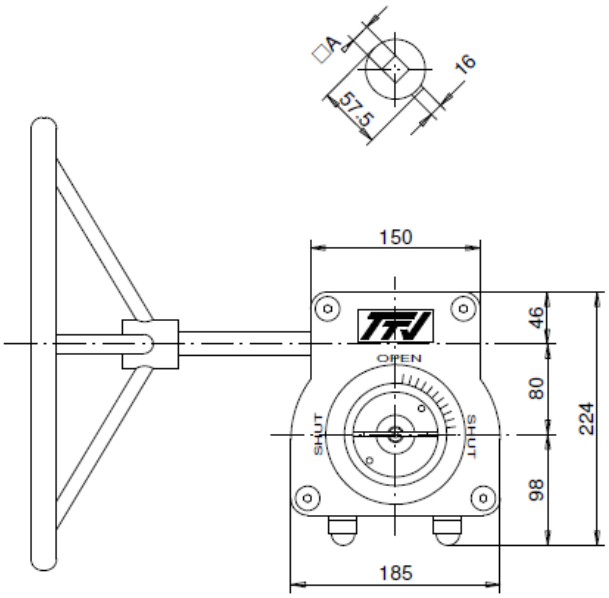
# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

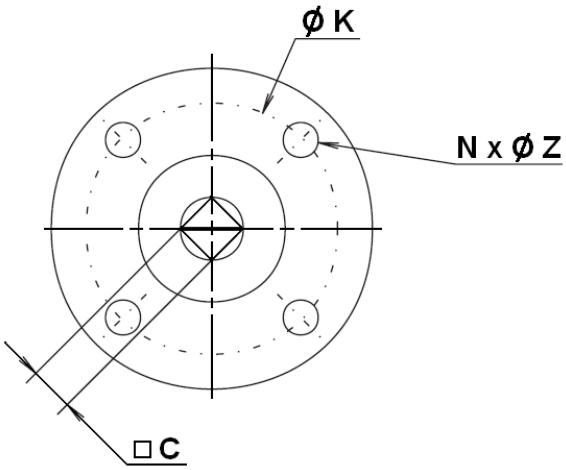
***SIZE DN350-400 (in mm) :***




**ISO plate size :**



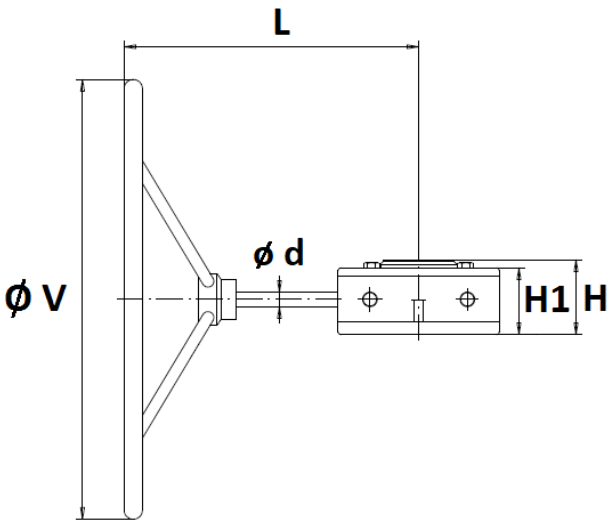

| DN | 350 | 400 |
|---|---|---|
| Weight (in Kg) | 9.5 | 9.5 |
| ø d | 20 | |
| C | 22 | 27 |
| ø K | 140 | |
| ISO | F14 | |
| N x ø Z | 4 x M16 | |
| Ref. | 1197350 | 1197400 |

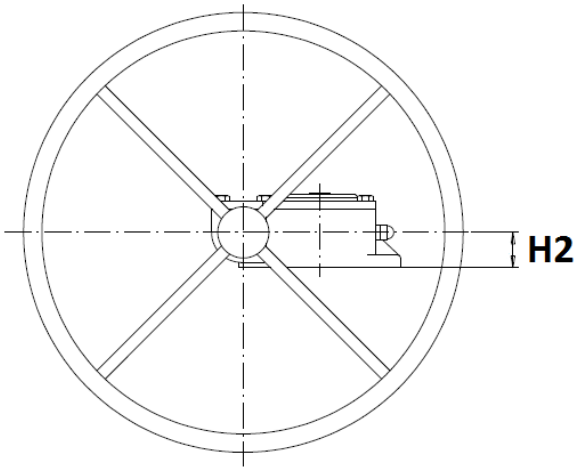


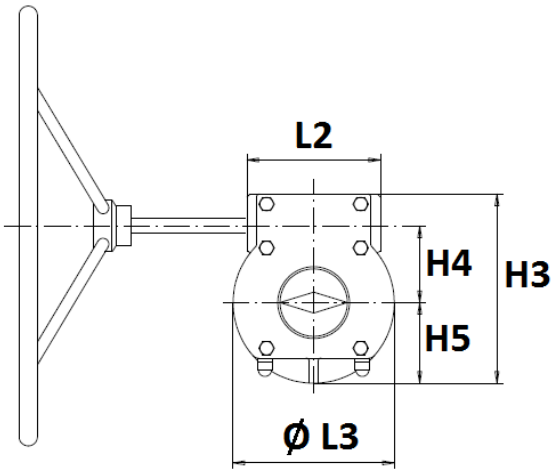
Information provided as an indication and subject to possible modification

# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***SIZE DN450-600 ( in mm ) :***

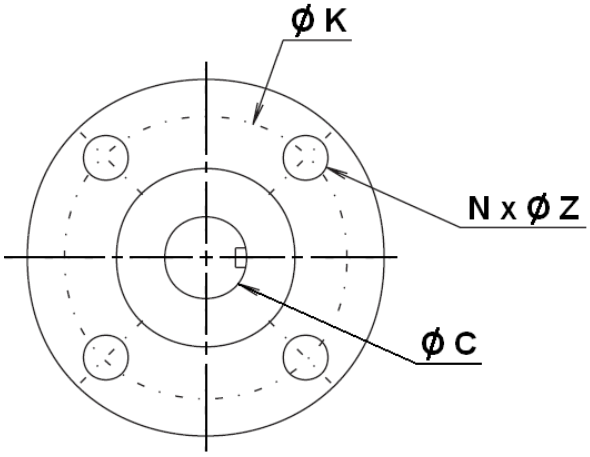



| DN | 450 | 500 | 600 |
|---|---|---|---|
| Ø d | 20 | | 25 |
| L | 381 | 402 | 447 |
| L2 | 150 | 182 | 194 |
| Ø L3 | 200 | 220 | 285 |
| H | 93 | 102 | 123.4 |
| H1 | 82 | 91 | 109.5 |
| H2 | 42 | 48 | 55 |
| H3 | 226 | 258 | 322.5 |
| H4 | 86 | 104.5 | 130 |
| H5 | 100 | 110 | 142.5 |
| Ø V | 600 | 600 | 700 |
| Ø C | 50 | | 60 |
| Ø K | 140 | | 165 |
| ISO | F14 | | F16 |
| N x Ø Z | 4 x M16 | | 4 x M20 |
| Weight (Kg) | 18.8 | 26.8 | 38.3 |
| Ref. | 1197451 | 1197501 | 1197601 |

**ISO plate size :**

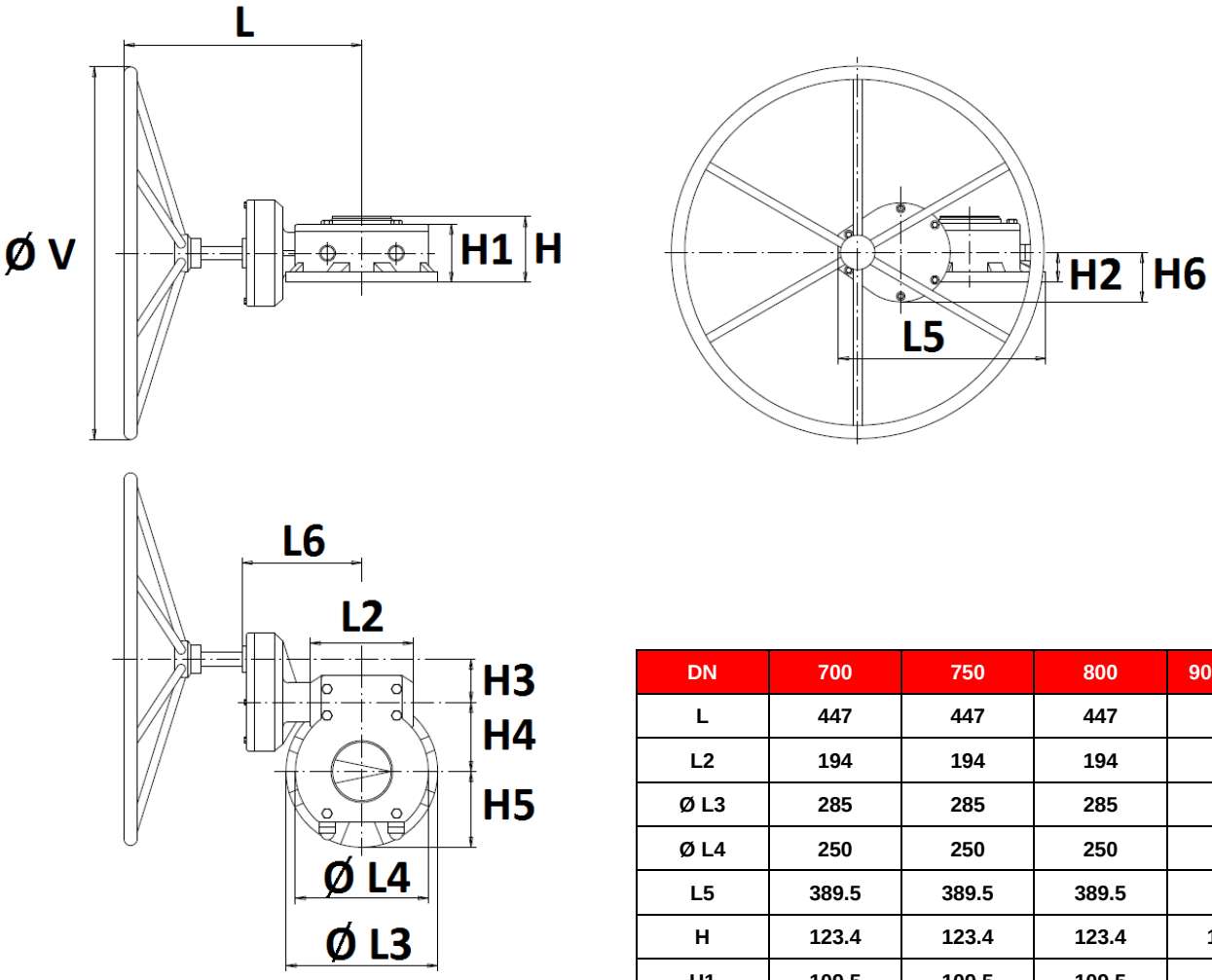





Information provided as an indication and subject to possible modification

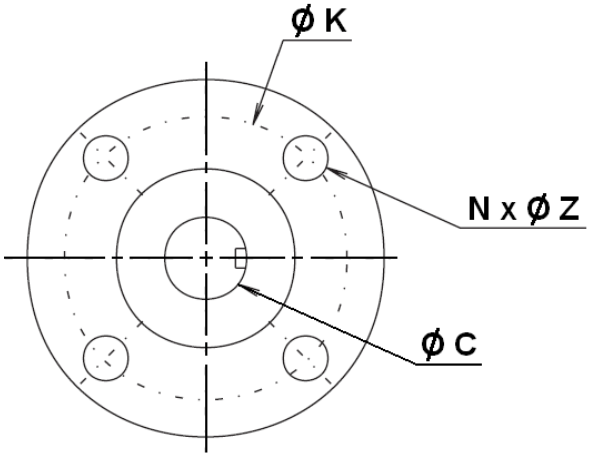
# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***SIZE DN700-1200 ( in mm ) :***




| DN | 700 | 750 | 800 | 900-1100 | 1200 |
|---|---|---|---|---|---|
| L | 447 | 447 | 447 | 500 | 556 |
| L2 | 194 | 194 | 194 | 300 | 324 |
| Ø L3 | 285 | 285 | 285 | 370 | 370 |
| Ø L4 | 250 | 250 | 250 | 370 | 370 |
| L5 | 389.5 | 389.5 | 389.5 | 469 | 574 |
| H | 123.4 | 123.4 | 123.4 | 138.9 | 139 |
| H1 | 109.5 | 109.5 | 109.5 | | |
| H2 | 55 | 55 | 55 | 59 | 59 |
| H3 | 81 | 81 | 81 | 81 | 175 |
| H4 | 130 | 130 | 130 | 182 | 182 |
| H5 | 142.5 | 142.5 | 142.5 | 170 | 170 |
| H6 | 93 | 93 | 93 | 93 | 90 |
| Ø V | 500 | 500 | 700 | 600 | 800 |
| Ø C | 60 | 65 | | 80 | 100 |
| Ø K | 254 | | | | |
| ISO | F25 | | | | |
| N x Ø Z | 8 x M16 | | | | |
| Weig. (Kg) | 49 | 49 | 49 | 75 | 87 |
| Ref. | 1197700 | | 1197800 | | |

**ISO plate size :**






Information provided as an indication and subject to possible modification

# GEARBOX FOR CONCENTRIC BUTTERFLY VALVES TTV

***STANDARDS :***

- Manufacturer certified ISO 9001:2015

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.

# TUBOTEK | Article references

1197 | Article mapping

Appendix 1

| Tubotek SKU | Sferaco / Sectoriel | Grouping ID | DN / PN |
|---|---|---|---|
| ROTGEAR-01 | 1197050 | ROTGEAR-XXX | DN32 |
| ROTGEAR-02 | 1197065 | ROTGEAR-XXX | DN65 |
| ROTGEAR-03 | 1197100 | ROTGEAR-XXX | DN80 |
| ROTGEAR-04 | 1197150 | ROTGEAR-XXX | DN125 |
| ROTGEAR-05 | 1197200 | ROTGEAR-XXX | DN200 |
| ROTGEAR-06 | 1197250 | ROTGEAR-XXX | DN250 |
| ROTGEAR-07 | 1197300 | ROTGEAR-XXX | DN300 |
| ROTGEAR-08 | 1197350 | ROTGEAR-XXX | DN350 |
| ROTGEAR-09 | 1197400 | ROTGEAR-XXX | DN400 |
| ROTGEAR-10 | 1197451 | ROTGEAR-XXX | DN450 |
| ROTGEAR-11 | 1197501 | ROTGEAR-XXX | DN500 |
| ROTGEAR-12 | 1197601 | ROTGEAR-XXX | DN600 |

Source: Tubotek import - test kopie syveco - C / D / H.

Technical data and certifications: original manufacturer documentation.

SKU and grouping identifiers reproduced from the import file.