

# C SERIES

## UNIDIRECTIONAL SQUARE KNIFE GATE VALVE

### DESCRIPTION

- Square or rectangular section uni-directional knife gate valve.
- Body is mechanically welded.
- Various construction materials and seal and stuffing materials available.
- Stainless steel gate.
- Face-to-face distance in accordance with **CMO Valves** standards.
- We also manufacture face-to-face inserts and dimensions to suit the customer.

### GENERAL APPLICATIONS

This knife gate valve is suitable for solids. It is also recommended in gravity discharge applications for highly solid-laden fluids.

Designed for a wide range of applications such as:

- Storage, silos.
- Mining.
- Chemical plants.
- Food industry.

### SIZES

From DN125 x 125 to DN1400 x 1400.

*Other DN's on request.*

*Custom-made valves for each project are available.*

### WORKING PRESSURE ( $\Delta P$ )

| STANDARD                           | 0.6 bar |
|------------------------------------|---------|
| <i>Other pressures on request.</i> |         |

This knife gate valve is specially designed to work with solids and dust. When the valve is open it provides full, continuous flow without any type of obstruction enabling the product to be freely discharged.

### FLANGE DRILLING

- Standard **CMO Valves**.

### RESILIENT SEALS

- EPDM.
- NITRILE.
- FKM.
- SILICONE.
- PTFE.

*Various materials are available for the reinforced socket and the deflector (S275JR, AISI 304, AISI 316...).*

### DIRECTIVES

See document of directives applicable to **CMO Valves**.



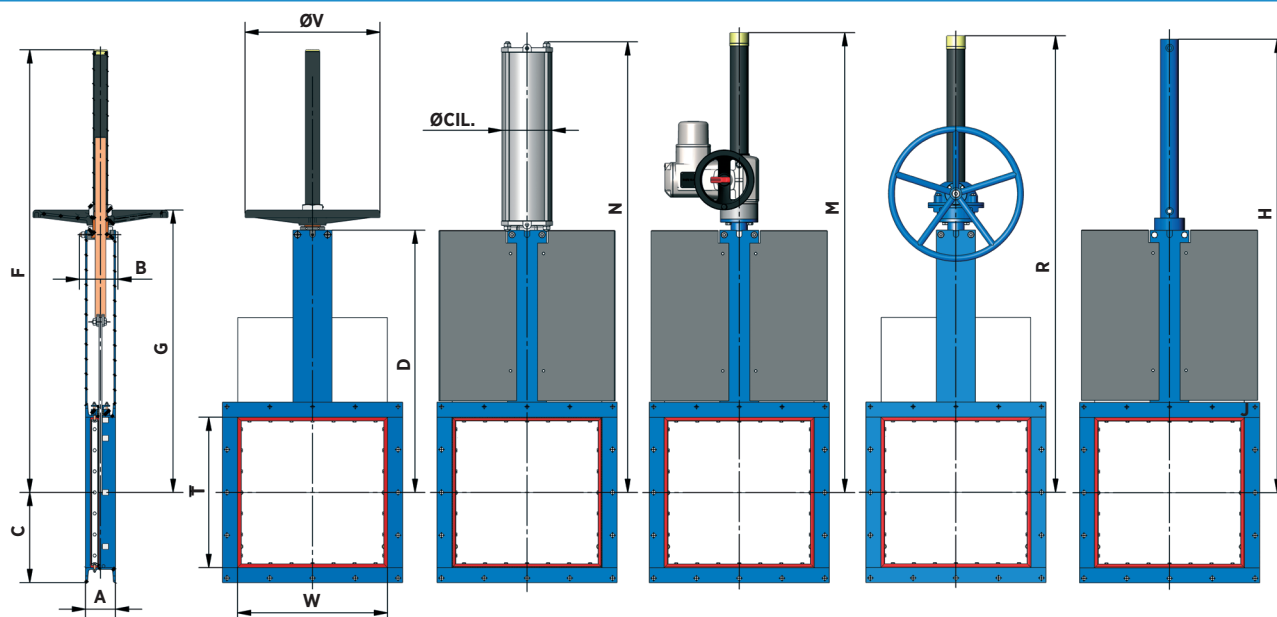
*For further information on categories and zones please contact **CMO Valves**. Technical-Commercial Department.*

### QUALITY DOSSIER

The tightness of the seat area is measured with gauges. Material and testing certificates can be supplied on request.



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## MANUFACTURING RANGE

## DIMENSIONS - C

| DN        | A   | B   | C     | D     | F    | G    | ØV  | N    | ØCIL. | M    | R    | H    |
|-----------|-----|-----|-------|-------|------|------|-----|------|-------|------|------|------|
| 125x125   | 80  | 102 | 107,5 | 281,5 | 496  | 317  | 225 | 511  | 80    | 631  | 556  | 561  |
| 150x150   | 80  | 102 | 120   | 319   | 534  | 354  | 225 | 574  | 80    | 668  | 619  | 623  |
| 200x200   | 80  | 102 | 145   | 394   | 650  | 429  | 225 | 699  | 80    | 743  | 744  | 723  |
| 250x250   | 80  | 111 | 170   | 471   | 802  | 524  | 325 | 824  | 80    | 831  | 869  | 903  |
| 300x300   | 80  | 111 | 195   | 546   | 935  | 599  | 325 | 949  | 80    | 956  | 994  | 1028 |
| 350x350   | 100 | 116 | 225   | 621   | 1060 | 674  | 325 | 1074 | 100   | 1086 | 1124 | 1156 |
| 400x400   | 100 | 116 | 250   | 697   | 1185 | 749  | 325 | 1215 | 125   | 1211 | 1249 | 1286 |
| 450x450   | 100 | 128 | 275   | 785   | 1338 | 852  | 450 | 1351 | 125   | 1365 | 1384 | 1421 |
| 500x500   | 100 | 128 | 300   | 864   | 1465 | 929  | 450 | 1486 | 160   | 1492 | 1511 | 1558 |
| 550x550   | 100 | 128 | 325   | 939   | 1590 | 1004 | 450 | 1611 | 160   | 1617 | 1636 | 1683 |
| 600x600   | 100 | 128 | 350   | 1014  | 1715 | 1079 | 450 | 1736 | 160   | 1742 | 1761 | 1808 |
| 650x650   | 100 | 128 | 375   | 1089  | 1840 | 1154 | 450 | 1861 | 160   | 1867 | 1886 | 1933 |
| 700x700   | 120 | 148 | 405   | 1178  | 1981 | 1245 | 450 | 2014 | 200   | 2008 | 2027 | 2097 |
| 750x750   | 120 | 148 | 430   | 1253  | 2106 | 1320 | 450 | 2182 | 250   | 2133 | 2152 | 2222 |
| 800x800   | 120 | 148 | 455   | 1328  | 2231 | 1395 | 450 | 2307 | 250   | 2258 | 2277 | 2347 |
| 900x900   | 140 | 168 | 510   | 1478  | 2481 | 1545 | 450 | 2560 | 250   | 2508 | 2527 | 2597 |
| 1000x1000 | 140 | 168 | 560   | 1628  | 2746 | 1695 | -   | 2815 | 300   | 2758 | 2777 | 2847 |
| 1200x1200 | 160 | 186 | 665   | 1929  | 3280 | 2040 | -   | 3310 | 350   | 3229 | 3251 | 3387 |
| 1400x1400 | 160 | 218 | 765   | 2229  | 3760 | 2340 | -   | 3877 | 400   | 3729 | 3751 | 3918 |

No obligation consultation on dimensions and drawings. **CMO Valves** reserves the right to modify them at any time, at its discretion and without prior notice.

Larger sizes on request.

[www.cmovalves.com/valves](http://www.cmovalves.com/valves)



Visit our website to see the full features of the C Series.

## FLANGE DRILLING - C

| W x T     | ΔP (bar) | FLANGE DRILLING |    |      |      |    |           |                    |
|-----------|----------|-----------------|----|------|------|----|-----------|--------------------|
|           |          | ●               | ○  | M    | P    | Ød | U x V     | n° div x Y=Z       |
| 125x125   | 0,6      | 3               | 5  | M 10 | 8    | 12 | 215x215   | 2 x 92,5 = 185     |
| 150x150   | 0,6      | 3               | 5  | M 10 | 8    | 12 | 240x240   | 2 x 105 = 210      |
| 200x200   | 0,6      | 3               | 5  | M 10 | 8    | 12 | 290x290   | 2 x 130 = 260      |
| 250x250   | 0,6      | 3               | 5  | M 10 | 8    | 12 | 340x340   | 2 x 155 = 310      |
| 300x300   | 0,6      | 4               | 8  | M 10 | 8    | 12 | 390x390   | 3 x 120 = 360      |
| 350x350   | 0,6      | 4               | 8  | M 12 | 8,5  | 14 | 450x450   | 3 x 140 = 420      |
| 400x400   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 500x500   | 4 x 117,5 = 470    |
| 450x450   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 550x550   | 4 x 130 = 520      |
| 500x500   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 600x600   | 4 x 142,5 = 570    |
| 550x550   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 650x650   | 4 x 155 = 620      |
| 600x600   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 700x700   | 4 x 167,5 = 670    |
| 650x650   | 0,6      | 5               | 11 | M 12 | 8,5  | 14 | 750x750   | 4 x 180 = 720      |
| 700x700   | 0,6      | 6               | 14 | M 12 | 9    | 14 | 810x810   | 5 x 155 = 775      |
| 750x750   | 0,6      | 6               | 14 | M 12 | 9    | 14 | 860x860   | 5 x 166 = 830      |
| 800x800   | 0,6      | 6               | 14 | M 12 | 9    | 14 | 910x910   | 5 x 175 = 875      |
| 900x900   | 0,6      | 7               | 17 | M 12 | 10   | 14 | 1020x1020 | 6 x 162,5 = 975    |
| 1000x1000 | 0,6      | 8               | 20 | M 12 | 10   | 14 | 1120x1120 | 7 x 155 = 1085     |
| 1200x1200 | 0,6      | 8               | 20 | M 12 | 10,5 | 14 | 1320x1320 | 7 x 184,5 = 1291,5 |
| 1400x1400 | 0,6      | 8               | 20 | M 12 | 10,5 | 14 | 1520x1520 | 7 x 213 = 1491     |

Larger sizes on request.

- Threaded holes.
- Through holes.

