

MUT2200-Engineering

MUT2200EL-sensoren vertegenwoordigen de nieuwste technologie van BERMAD voor toepassingen in de watercyclus en procesindustrie. De nieuwe opbouw voor het genereren van het magnetisch veld en het innovatieve traject van het door de elektroden opgewekte signaal zorgen voor een sensor met een extreem groot meetbereik: EL = Extended Linearity (uitgebreide lineariteit). Deze nieuwe sensorserie zet de succesvolle traditie van de MUT2200EL voort en introduceert een meetbereik van meer dan 1:1000 zonder linearisatiesoftware. Dergelijke prestaties maken zeer nauwkeurige metingen mogelijk over een breed debietbereik en maken het mogelijk lagere debieten te registreren die voorheen zouden zijn genegeerd door de afkap van de converter. Deze geflensde sensorserie werkt volgens het principe van Faraday, waarbij een geleider die een magnetisch veld doorkruist, een potentiaal opwekt die loodrecht op dat veld staat. In dit geval is de stromingsbuis vervaardigd uit roestvast staal AISI 304 en voorzien van flenzen van koolstofstaal of roestvast staal. Twee spoelen zijn aan de boven- en onderzijde gemonteerd; het door de elektrische stroom opgewekte magnetisch veld induceert in de elektroden een potentiaalverschil dat evenredig is aan het debiet. Om deze zeer lage potentiaal te kunnen meten, is het inwendige van de stromingsbuis elektrisch geïsoleerd, zodat de procesvloeistof niet in contact komt met het materiaal van de stromingsbuis noch met dat van de flens. De gebruikte converter genereert de stroom voor de spoel, meet het potentiaalverschil tussen de elektroden, verwerkt het signaal om het debiet te berekenen en verzorgt de communicatie met de buitenwereld. De complete sensor, wanneer geïnstalleerd in de gescheiden uitvoering, heeft een beschermingsgraad IP68 en is geschikt voor permanente onderdompeling in water tot een diepte van 1,5 m dankzij een gelaste plaatconstructie waarin de spoel en de elektroden zijn ondergebracht.



De elektromagnetische flowmeter ontworpen voor de zwaarste toepassingen



Modbus

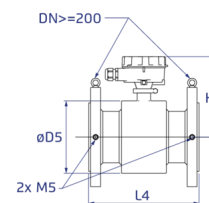
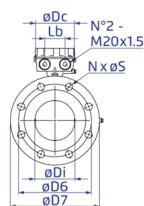


Sensorspecificaties

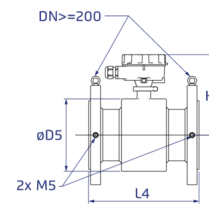
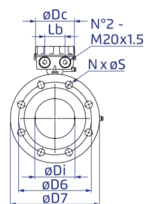
| | | | | | | | |
|---|--|--------------------|-----------------------|------|---|---------|---------------|
| Materiaal van de flowbuis | AISI 304 (std), AISI 316 | | | | | | |
| Flensmateriaal | Geverfd koolstofstaal (std), AISI 304, AISI 316 | | | | | | |
| Elektrodemateriaal | Elektrodemateriaal Hastelloy C (std), Hastelloy B, Titanium, Tantalium, Platina | | | | | | |
| Interne bekleding en vloeistoftemperatuur | <table border="0"> <tr> <td>Interne bekleding:</td> <td>Vloeistoftemperatuur:</td> </tr> <tr> <td>PTFE</td> <td>Standaard -40 /+130°C (tot +180° op aanvraag)</td> </tr> <tr> <td>Eboniet</td> <td>-40°C / +80°C</td> </tr> </table> | Interne bekleding: | Vloeistoftemperatuur: | PTFE | Standaard -40 /+130°C (tot +180° op aanvraag) | Eboniet | -40°C / +80°C |
| Interne bekleding: | Vloeistoftemperatuur: | | | | | | |
| PTFE | Standaard -40 /+130°C (tot +180° op aanvraag) | | | | | | |
| Eboniet | -40°C / +80°C | | | | | | |
| Beschikbare maten | ½"-100" ; DN15-2500 mm | | | | | | |
| Flensnormen beschikbaar | EN1092-1, ANSI 150, ANSI 300, ANSI 600, ANSI 900, DIN 2501, BS 4504, AS 2129 (TABEL D - E - F), AS 4087, ISO 7005-1, KS 10K | | | | | | |
| Beschermingsgraad | IP68 1,5 m continue onderdompeling (EN 60529) | | | | | | |
| Elektrische aansluitingen | Kabelwartels M20 x 1,5 + klemmenblok + afdichthars | | | | | | |



MUT2200EL PN 10 EN 1092-1



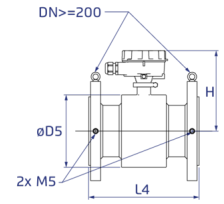
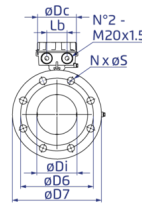
| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|---------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| ½" ; DN12 | 200(+0/-3) | 84 | 11 | 65 | 95 | 4 | 156 | 96 | 50 |
| ¾" ; DN20 | 200(+0/-3) | 84 | 17 | 75 | 105 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 24 | 85 | 115 | 4 | 151 | 96 | 50 |
| 1¼" ; DN32 | 200(+0/-3) | 83 | 31 | 100 | 140 | 4 | 155 | 96 | 50 |
| 1½" ; DN40 | 200(+0/-3) | 88 | 37 | 110 | 150 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47 | 125 | 165 | 4 | 165 | 96 | 50 |
| 2½" ; DN65 | 200(+0/-3) | 114 | 63 | 145 | 185 | 8 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 160 | 200 | 8 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 99 | 180 | 220 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 124 | 210 | 250 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 152 | 240 | 285 | 8 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 201 | 295 | 340 | 8 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 255 | 350 | 395 | 12 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 308 | 400 | 445 | 12 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 340 | 460 | 505 | 16 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 390 | 515 | 565 | 16 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 441 | 565 | 615 | 20 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 492 | 620 | 670 | 20 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 592 | 725 | 780 | 20 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 695 | 840 | 895 | 24 | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 795 | 950 | 1015 | 24 | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 896 | 1050 | 1115 | 28 | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 996 | 1160 | 1445 | 32 | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1199 | 1380 | 1230 | 28 | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1402 | 1590 | 1675 | 36 | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1500 | 1700 | 1785 | 36 | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1602 | 1820 | 1915 | 40 | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1803 | 2020 | 2115 | 44 | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 2004 | 2230 | 2325 | 48 | 1175 | 96 | 50 |
| 100" ; DN2500 | 2000(+0/-15) | 2644 | 2510 | 2750 | 2860 | 56 | 1420 | 97 | - |

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| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|--------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| ½" ; DN12 | 200(+0/-3) | 84 | 11 | 65 | 95 | 4 | 156 | 96 | 50 |
| ¾" ; DN20 | 200(+0/-3) | 84 | 17 | 75 | 105 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 24 | 85 | 115 | 4 | 151 | 96 | 50 |
| 1¼" ; DN32 | 200(+0/-3) | 83 | 31 | 100 | 140 | 4 | 155 | 96 | 50 |
| 1½" ; DN40 | 200(+0/-3) | 88 | 37 | 110 | 150 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47 | 125 | 165 | 4 | 165 | 96 | 50 |
| 2½" ; DN65 | 200(+0/-3) | 114 | 63 | 145 | 185 | 8 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 160 | 200 | 8 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 99 | 180 | 220 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 124 | 210 | 250 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 152 | 240 | 285 | 8 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 201 | 295 | 340 | 8 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 255 | 350 | 395 | 12 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 308 | 400 | 445 | 12 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 340 | 460 | 505 | 16 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 390 | 515 | 565 | 16 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 439 | 565 | 615 | 20 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 490 | 620 | 670 | 20 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 592 | 725 | 780 | 20 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 691 | 840 | 895 | 24 | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 791 | 950 | 1015 | 24 | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 890 | 1050 | 1115 | 28 | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 992 | 1160 | 1445 | 32 | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1191 | 1380 | 1230 | 28 | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1392 | 1590 | 1675 | 36 | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1492 | 1700 | 1785 | 36 | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1594 | 1820 | 1915 | 40 | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1795 | 2020 | 2115 | 44 | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 1994 | 2230 | 2325 | 48 | 1175 | 96 | 50 |



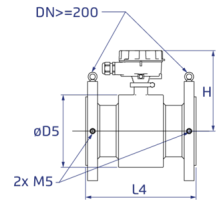
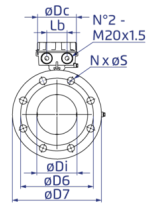
MUT2200EL PN 25 EN 1092-1



| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|---------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| 1/2" ; DN12 | 200(+0/-3) | 84 | 11 | 65 | 95 | 4 | 156 | 96 | 50 |
| 3/4" ; DN20 | 200(+0/-3) | 84 | 17 | 75 | 105 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 24 | 85 | 115 | 4 | 151 | 96 | 50 |
| 1 1/4" ; DN32 | 200(+0/-3) | 83 | 31 | 100 | 140 | 4 | 155 | 96 | 50 |
| 1 1/2" ; DN40 | 200(+0/-3) | 88 | 37 | 110 | 150 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47 | 125 | 165 | 4 | 165 | 96 | 50 |
| 2 1/2" ; DN65 | 200(+0/-3) | 114 | 63 | 145 | 185 | 8 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 160 | 200 | 8 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 99 | 180 | 220 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 124 | 210 | 250 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 152 | 240 | 285 | 8 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 201 | 295 | 340 | 8 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 255 | 350 | 395 | 12 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 306 | 400 | 445 | 12 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 338 | 460 | 505 | 16 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 386 | 515 | 565 | 16 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 437 | 565 | 615 | 20 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 488 | 620 | 670 | 20 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 588 | 725 | 780 | 20 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 685 | 840 | 895 | 24 | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 787 | 950 | 1015 | 24 | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 884 | 1050 | 1115 | 28 | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 984 | 1210 | 1320 | 28 | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1181 | - | - | - | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1382 | - | - | - | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1482 | - | - | - | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1580 | - | - | - | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1783 | - | - | - | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 1978 | - | - | - | 1175 | 96 | 50 |



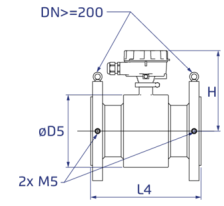
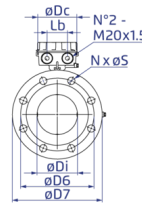
MUT2200EL PN 40 EN 1092-1



| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|---------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| 1/2" ; DN12 | 200(+0/-3) | 84 | 11 | 65 | 95 | 4 | 156 | 96 | 50 |
| 3/4" ; DN20 | 200(+0/-3) | 84 | 17 | 75 | 105 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 24 | 85 | 115 | 4 | 151 | 96 | 50 |
| 1 1/4" ; DN32 | 200(+0/-3) | 83 | 31 | 100 | 140 | 4 | 155 | 96 | 50 |
| 1 1/2" ; DN40 | 200(+0/-3) | 88 | 37 | 110 | 150 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47 | 125 | 165 | 4 | 165 | 96 | 50 |
| 2 1/2" ; DN65 | 200(+0/-3) | 114 | 63 | 145 | 185 | 8 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 160 | 200 | 8 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 99 | 190 | 235 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 124 | 220 | 270 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 152 | 250 | 300 | 8 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 195 | 320 | 375 | 12 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 249 | 385 | 450 | 12 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 302 | 450 | 515 | 16 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 334 | 510 | 580 | 16 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 382 | 585 | 660 | 16 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 431 | 610 | 685 | 20 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 480 | 670 | 755 | 20 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 578 | 795 | 890 | 20 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 677 | - | - | - | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 775 | - | - | - | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 872 | - | - | - | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 970 | - | - | - | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1165 | - | - | - | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1364 | - | - | - | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1462 | - | - | - | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1560 | - | - | - | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1759 | - | - | - | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 1954 | - | - | - | 1175 | 96 | 50 |



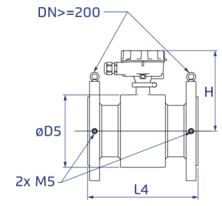
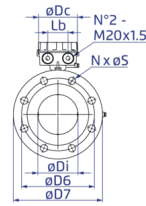
MUT2200EL ANSI 150



| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|--------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| ½" ; DN12 | 200(+0/-3) | 84 | 11.3 | 60.3 | 90 | 4 | 156 | 96 | 50 |
| ¾" ; DN20 | 200(+0/-3) | 84 | 17 | 69.9 | 100 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 23.7 | 79.4 | 110 | 4 | 151 | 96 | 50 |
| 1¼" ; DN32 | 200(+0/-3) | 83 | 31.4 | 88.9 | 115 | 4 | 155 | 96 | 50 |
| 1½" ; DN40 | 200(+0/-3) | 88 | 37.3 | 98.4 | 125 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47.3 | 120.7 | 150 | 4 | 165 | 96 | 50 |
| 2½" ; DN65 | 200(+0/-3) | 114 | 63 | 139.7 | 180 | 4 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 152.4 | 190 | 4 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 97.3 | 190.5 | 230 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 121.7 | 216 | 225 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 148.3 | 241.3 | 280 | 8 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 195 | 298.5 | 345 | 8 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 245 | 362 | 405 | 12 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 308 | 431.8 | 485 | 12 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 337.6 | 476.3 | 535 | 12 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 386.4 | 539.8 | 595 | 16 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 437.2 | 557.9 | 635 | 16 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 488 | 635 | 700 | 20 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 587.6 | 749.3 | 815 | 20 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 687.2 | 863.6 | 927.1 | 28 | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 786.8 | 977.9 | 1060.4 | 28 | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 888.4 | 1085.9 | 1168.4 | 28 | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 988 | 1200 | 1290 | 36 | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1187.2 | 1422.4 | 1511.1 | 44 | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1386.4 | - | - | - | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1484 | 1700 | 1785 | 36 | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1585.6 | - | - | - | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1786.8 | - | - | - | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 1986 | - | - | - | 1175 | 96 | 50 |

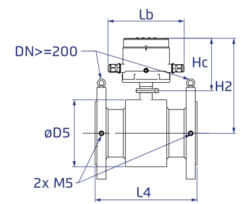
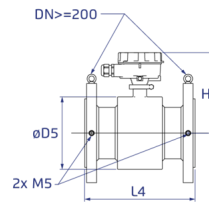


MUT2200EL ANSI 300



| Maat | L4 (mm) | D5 (mm) | Di (mm) | D6 (mm) | D7 (mm) | N | H (mm) | Dc (mm) | Lb (mm) |
|---------------|--------------|---------|---------|---------|---------|----|--------|---------|---------|
| 1/2" ; DN12 | 200(+0/-3) | 84 | 11.3 | 66.7 | 95 | 4 | 156 | 96 | 50 |
| 3/4" ; DN20 | 200(+0/-3) | 84 | 17 | 82.6 | 115 | 4 | 156 | 96 | 50 |
| 1" ; DN25 | 200(+0/-3) | 74 | 23.7 | 88.9 | 125 | 4 | 151 | 96 | 50 |
| 1 1/4" ; DN32 | 200(+0/-3) | 83 | 31.4 | 98.4 | 135 | 4 | 155 | 96 | 50 |
| 1 1/2" ; DN40 | 200(+0/-3) | 88 | 37.3 | 114.3 | 155 | 4 | 158 | 96 | 50 |
| 2" ; DN50 | 200(+0/-3) | 102 | 47.3 | 127 | 165 | 8 | 165 | 96 | 50 |
| 2 1/2" ; DN65 | 200(+0/-3) | 114 | 63 | 149.2 | 190 | 8 | 171 | 96 | 50 |
| 3" ; DN80 | 200(+0/-3) | 127 | 75 | 168.3 | 210 | 8 | 177 | 96 | 50 |
| 4" ; DN100 | 250(+0/-3) | 161 | 99.3 | 200 | 255 | 8 | 194 | 96 | 50 |
| 5" ; DN125 | 250(+0/-3) | 187 | 121.7 | 235 | 280 | 8 | 207 | 96 | 50 |
| 6" ; DN150 | 300(+0/-3) | 210 | 150.3 | 270 | 320 | 12 | 219 | 96 | 50 |
| 8" ; DN200 | 350(+0/-3) | 261 | 195 | 330.2 | 380 | 12 | 244 | 96 | 50 |
| 10" ; DN250 | 450(+0/-5) | 319 | 249 | 387.4 | 445 | 16 | 273 | 96 | 50 |
| 12" ; DN300 | 500(+0/-5) | 371 | 300 | 450.8 | 520 | 16 | 299 | 96 | 50 |
| 14" ; DN350 | 550(+0/-5) | 404 | 329.6 | 514.4 | 585 | 20 | 316 | 96 | 50 |
| 16" ; DN400 | 600(+0/-5) | 455 | 378.4 | 571.5 | 650 | 20 | 341 | 96 | 50 |
| 18" ; DN450 | 450(+0/-7) | 519 | 427.2 | 628.6 | 710 | 24 | 373 | 96 | 50 |
| 20" ; DN500 | 500(+0/-9) | 570 | 476 | 685.8 | 775 | 24 | 399 | 96 | 50 |
| 24" ; DN600 | 600(+0/-9) | 684 | 571.6 | 812.8 | 915 | 24 | 456 | 96 | 50 |
| 28" ; DN700 | 700(+0/-9) | 783 | 671.2 | - | - | - | 505 | 96 | 50 |
| 32" ; DN800 | 800(+0/-9) | 885 | 766.8 | - | - | - | 556 | 96 | 50 |
| 36" ; DN900 | 900(+0/-15) | 996 | 864.4 | - | - | - | 612 | 96 | 50 |
| 40" ; DN1000 | 1000(+0/-15) | 1098 | 962 | - | - | - | 663 | 96 | 50 |
| 48" ; DN1200 | 1200(+0/-15) | 1312 | 1159.5 | - | - | - | 770 | 96 | 50 |
| 56" ; DN1400 | 1400(+0/-15) | 1512 | 1352.4 | - | - | - | 870 | 96 | 50 |
| 60" ; DN1500 | 1500(+0/-15) | 1612 | 1450 | - | - | - | 920 | 96 | 50 |
| 64" ; DN1600 | 1600(+0/-15) | 1712 | 1547.6 | - | - | - | 970 | 96 | 50 |
| 72" ; DN1800 | 1800(+0/-15) | 1922 | 1746.8 | - | - | - | 1075 | 96 | 50 |
| 80" ; DN2000 | 2000(+0/-15) | 2122 | 1938 | - | - | - | 1175 | 96 | 50 |

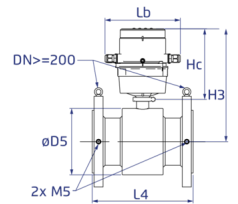
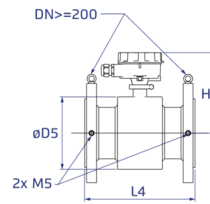
MUT2200EL-MC406



| Maat | H (mm) | H2 (mm) |
|--------------|--------|---------|
| ½" ; DN12 | 156 | 190 |
| ¾" ; DN20 | 156 | 190 |
| 1" ; DN25 | 151 | 185 |
| 1¼" ; DN32 | 155 | 190 |
| 1½" ; DN40 | 158 | 192 |
| 2" ; DN50 | 165 | 199 |
| 2½" ; DN65 | 171 | 205 |
| 3" ; DN80 | 177 | 212 |
| 4" ; DN100 | 194 | 229 |
| 5" ; DN125 | 207 | 242 |
| 6" ; DN150 | 219 | 253 |
| 8" ; DN200 | 244 | 279 |
| 10" ; DN250 | 273 | 308 |
| 12" ; DN300 | 299 | 334 |
| 14" ; DN350 | 316 | 350 |
| 16" ; DN400 | 341 | 376 |
| 18" ; DN450 | 373 | 408 |
| 20" ; DN500 | 399 | 433 |
| 24" ; DN600 | 456 | 490 |
| 28" ; DN700 | 505 | 540 |
| 32" ; DN800 | 556 | 591 |
| 36" ; DN900 | 612 | 646 |
| 40" ; DN1000 | 663 | 697 |
| 48" ; DN1200 | 770 | 804 |
| 56" ; DN1400 | 870 | 904 |
| 60" ; DN1500 | 920 | 954 |
| 64" ; DN1600 | 970 | 1004 |
| 72" ; DN1800 | 1075 | 1109 |
| 80" ; DN2000 | 1175 | 1209 |

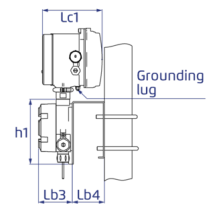
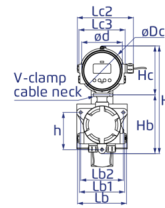


MUT2200EL-MC406 GSM



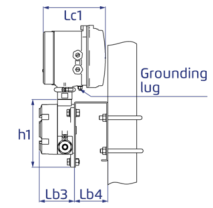
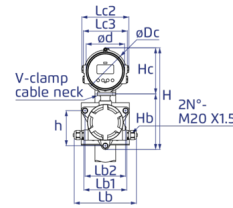
| Maat | H (mm) | H3 (mm) |
|--------------|--------|---------|
| ½" ; DN12 | 156 | 236 |
| ¾" ; DN20 | 156 | 236 |
| 1" ; DN25 | 151 | 231 |
| 1¼" ; DN32 | 155 | 236 |
| 1½" ; DN40 | 158 | 238 |
| 2" ; DN50 | 165 | 245 |
| 2½" ; DN65 | 171 | 251 |
| 3" ; DN80 | 177 | 258 |
| 4" ; DN100 | 194 | 275 |
| 5" ; DN125 | 207 | 288 |
| 6" ; DN150 | 219 | 299 |
| 8" ; DN200 | 244 | 325 |
| 10" ; DN250 | 273 | 354 |
| 12" ; DN300 | 299 | 380 |
| 14" ; DN350 | 316 | 396 |
| 16" ; DN400 | 341 | 422 |
| 18" ; DN450 | 373 | 454 |
| 20" ; DN500 | 399 | 479 |
| 24" ; DN600 | 456 | 536 |
| 28" ; DN700 | 505 | 586 |
| 32" ; DN800 | 556 | 637 |
| 36" ; DN900 | 612 | 692 |
| 40" ; DN1000 | 663 | 743 |
| 48" ; DN1200 | 770 | 850 |
| 56" ; DN1400 | 870 | 950 |
| 60" ; DN1500 | 920 | 1000 |
| 64" ; DN1600 | 970 | 1050 |
| 72" ; DN1800 | 1075 | 1155 |
| 80" ; DN2000 | 1175 | 1255 |

MC406 militaire connectoren



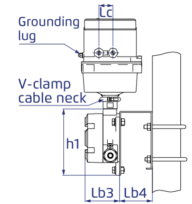
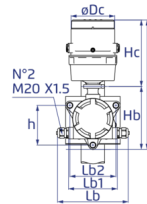
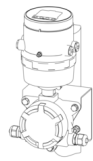
| H (mm) | Hc (mm) | Lc1 (mm) | Lc2 (mm) | Lc3 (mm) | Dc (mm) | d (mm) | Hb (mm) | Lb (mm) | Lb1 (mm) | Lb2 (mm) | Lb3 (mm) | Lb4 (mm) | h (mm) | h1 (mm) | Weight (Kg) |
|--------|---------|----------|----------|----------|---------|--------|---------|---------|----------|----------|----------|----------|--------|---------|-------------|
| 296 | 134 | 130 | 155 | 128 | 123 | 112 | 161.5 | 136 | 125 | 118 | 73.5 | 70 | 102 | 141 | 0.6 |

MC406 Standaard Gescheiden



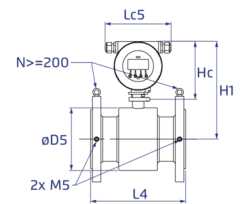
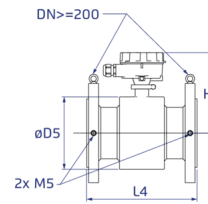
| H (mm) | Hc (mm) | Lc1 (mm) | Lc2 (mm) | Lc3 (mm) | Dc (mm) | d (mm) | Hb (mm) | Lb (mm) | Lb1 (mm) | Lb2 (mm) | Lb3 (mm) | Lb4 (mm) | h (mm) | h1 (mm) | Weight (Kg) |
|--------|---------|----------|----------|----------|---------|--------|---------|---------|----------|----------|----------|----------|--------|---------|-------------|
| 296 | 134 | 130 | 128 | 137 | 123 | 112 | 161.5 | 181 | 125 | 118 | 73.5 | 70 | 102 | 141 | 0.6 |

MC406 Separate met GSM



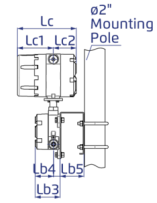
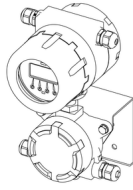
| H (mm) | Hc (mm) | Lc (mm) | Dc (mm) | Hb (mm) | Lb (mm) | Lb1 (mm) | Lb2 (mm) | Lb3 (mm) | Lb4 (mm) | h (mm) | h1 (mm) | Weight (Kg) |
|--------|---------|---------|---------|---------|---------|----------|----------|----------|----------|--------|---------|-------------|
| 332 | 170.5 | 30 | 112 | 161.5 | 181 | 125 | 118 | 73.5 | 70 | 102 | 141 | 0.9 |

MUT2200EL-MC608



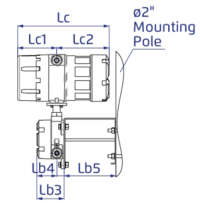
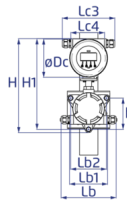
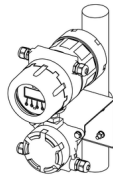
| Maat | H (mm) | H1 (mm) | Hc (mm) | Lc5 (mm) |
|--------------|--------|---------|---------|----------|
| ½" ; DN12 | 156 | 195 | 150 | 171 |
| ¾" ; DN20 | 156 | 195 | 150 | 171 |
| 1" ; DN25 | 151 | 190 | 150 | 171 |
| 1¼" ; DN32 | 155 | 195 | 150 | 171 |
| 1½" ; DN40 | 158 | 197 | 150 | 171 |
| 2" ; DN50 | 165 | 204 | 150 | 171 |
| 2½" ; DN65 | 171 | 210 | 150 | 171 |
| 3" ; DN80 | 177 | 217 | 150 | 171 |
| 4" ; DN100 | 194 | 234 | 150 | 171 |
| 5" ; DN125 | 207 | 247 | 150 | 171 |
| 6" ; DN150 | 219 | 258 | 150 | 171 |
| 8" ; DN200 | 244 | 284 | 150 | 171 |
| 10" ; DN250 | 273 | 313 | 150 | 171 |
| 12" ; DN300 | 299 | 339 | 150 | 171 |
| 14" ; DN350 | 316 | 355 | 150 | 171 |
| 16" ; DN400 | 341 | 381 | 150 | 171 |
| 18" ; DN450 | 373 | 413 | 150 | 171 |
| 20" ; DN500 | 399 | 438 | 150 | 171 |
| 24" ; DN600 | 456 | 495 | 150 | 171 |
| 28" ; DN700 | 505 | 545 | 150 | 171 |
| 32" ; DN800 | 556 | 596 | 150 | 171 |
| 36" ; DN900 | 612 | 651 | 150 | 171 |
| 40" ; DN1000 | 663 | 702 | 150 | 171 |
| 48" ; DN1200 | 770 | 809 | 150 | 171 |
| 56" ; DN1400 | 870 | 909 | 150 | 171 |
| 60" ; DN1500 | 920 | 959 | 150 | 171 |
| 64" ; DN1600 | 970 | 1009 | 150 | 171 |
| 72" ; DN1800 | 1075 | 1114 | 150 | 171 |
| 80" ; DN2000 | 1175 | 1214 | 150 | 171 |

MC608A



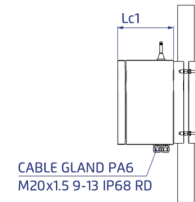
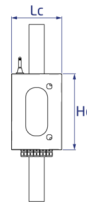
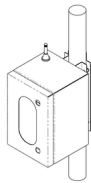
| H (mm) | H1 (mm) | Lc (mm) | Lc1 (mm) | Lc2 (mm) | Lc3 (mm) | Lc4 (mm) | Dc (mm) | Lb (mm) | Lb1 (mm) | Lb2 (mm) | Lb3 (mm) | Lb4 (mm) | Lb5 (mm) | h (mm) |
|--------|---------|---------|----------|----------|----------|----------|---------|---------|----------|----------|----------|----------|----------|--------|
| 307 | 296 | 173 | 105.5 | 67.5 | 173 | 111 | 125 | 181 | 125 | 118 | 74 | 54 | 70 | 102 |

MC608B/R



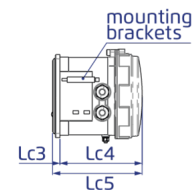
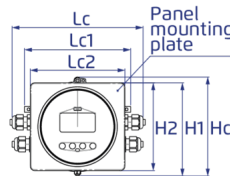
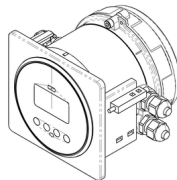
| H (mm) | H1 (mm) | Lc (mm) | Lc1 (mm) | Lc2 (mm) | Lc3 (mm) | Lc4 (mm) | Dc (mm) | Lb (mm) | Lb1 (mm) | Lb2 (mm) | Lb3 (mm) | Lb4 (mm) | Lb5 (mm) | h (mm) |
|--------|---------|---------|----------|----------|----------|----------|---------|---------|----------|----------|----------|----------|----------|--------|
| 307 | 296 | 247 | 105.5 | 141.5 | 173 | 111 | 125 | 181 | 125 | 118 | 74 | 54 | 150 | 102 |

MC608I



| Hc (mm) | Lc (mm) | Lc1 (mm) |
|---------|---------|----------|
| 300 | 200 | 200 |

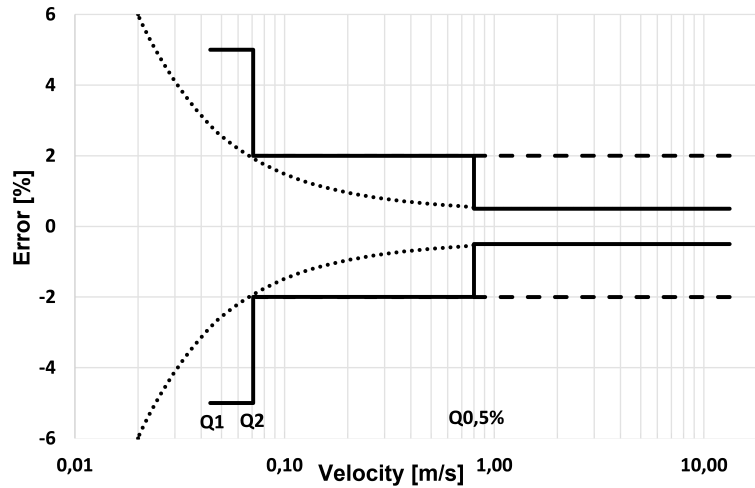
MC608P



| H1 (mm) | H2 (mm) | Hc (mm) | Lc (mm) | Lc1 (mm) | Lc2 (mm) | Lc3 (mm) | Lc4 (mm) | Lc5 (mm) |
|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| 127.5 | 120 | 135.5 | 180 | 146 | 130 | 10.5 | 119.5 | 130 |

Meetnauwkeurigheid

Elke flowmeter wordt standaard nat gekalibreerd onder referentieomstandigheden door middel van directe volumevergelijking. De prestaties van de flowmeter worden vastgelegd en gedocumenteerd in een individueel kalibratiecertificaat. Nauwkeurigheid 0,2% +/- 2mm/s (0,2% +/- 1mm/s op aanvraag)



Debiet

| Maat Q @ (m³/h) | DN25 1" | DN32 1¼" | DN40 1½" | DN50 2" | DN65 2½" | DN80 3" | DN100 4" | DN125 5" | DN150 6" | DN200 8" | DN250 10" | DN300 12" | DN350 14" | DN400 16" | DN450 18" |
|---------------------------------------|---------|----------|----------|---------|----------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Q1 Minimumdebiet | 0.08 | 0.08 | 0.128 | 0.2 | 0.32 | 0.504 | 0.8 | 1.280 | 2 | 3.2 | 5.04 | 8 | 12.8 | 12.8 | 25 |
| Q2 overgangsstroom | 0.128 | 0.128 | 0.205 | 0.32 | 0.512 | 0.806 | 1.28 | 2.048 | 3.2 | 5.12 | 8.064 | 12.8 | 20.48 | 20.48 | 40 |
| Q3 Permanente doorstroming | 10 | 10 | 16 | 25 | 40 | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | 1600 | 1600 | 2500 |
| Q4 Maximale Doorstroming (Korte Tijd) | 12.5 | 12.5 | 20 | 31.25 | 50 | 78.75 | 125 | 200 | 312.5 | 500 | 787.5 | 1250 | 2000 | 2000 | 3125 |

| Maat Q @ (m³/h) | DN500 20" | DN600 24" | DN700 28" | DN800 32" | DN900 36" | DN1000 40" | DN1200 48" | DN1400 56" | DN1500 60" | DN1600 64" | DN1800 72" | DN2000 80" | DN2500 100" |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Q1 Minimumdebiet | 25 | 50 | 50 | 100 | 100 | 200 | 320 | 500 | 800 | 1260 | 2000 | 3200 | 4000 |
| Q2 overgangsstroom | 40 | 80 | 80 | 160 | 160 | 320 | 512 | 800 | 1280 | 2016 | 3200 | 5120 | 6400 |
| Q3 Permanente doorstroming | 2500 | 4000 | 4000 | 6300 | 6300 | 10000 | 16000 | 25000 | 40000 | 63000 | 100000 | 160000 | 160000 |
| Q4 Maximale Doorstroming (Korte Tijd) | 3125 | 5000 | 5000 | 7875 | 7875 | 12500 | 20000 | 31250 | 50000 | 78750 | 125000 | 200000 | 200000 |

Installatie-aanbevelingen

- De watermeter kan in elke positie worden geïnstalleerd zonder dat dit de meetprestaties beïnvloedt.
- De pijl op het watermeterhuis moet in dezelfde richting wijzen als de stroming.
- Spoel de leiding door om vuil te verwijderen voordat u installeert.
- De watermeter moet met water gevuld zijn om te kunnen werken.

