



Penstocks

LIGHTWEIGHT | QUICK INSTALLATION | MAINTENANCE FREE



LIGHTWEIGHT – made from a high specification, innovative material combination of HDPE and stainless steel 316L.

QUICK INSTALLATION – Lightweight material combination, no grouting required due to EPDM seal technology.

MAINTENANCE FREE – No lubrication required. Zero chance of materials seizing. No requirement for protective coatings.

SPECIAL REQUIREMENTS – standard sizes in stock for immediate dispatch and can also engineer bespoke penstocks to suit unique requirements.



Penstocks are ideal for a wide variety of water control and used in surface, sewer and process water systems. There are a variety of standard sizes available in stock for immediate dispatch within the UK or ACE can engineer custom penstocks to suit your requirements.



The penstock consists of a vertically sliding door within a stainless steel frame, it closes around an opening and seals between the door and the frame. It is easy to install, with various mounting methods and lightweight, strong HDPE material. All penstocks are supplied with a non-rising spindle as standard but on request can be changed to a rising spindle.

Contents are accurate at the time of production, however are for illustration only. For critical technical information, please contact ACE for assistance.

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V1.1

Aquatic Control Engineering have been market leaders of innovative water flow control for 20 years. Using high spec HDPE products from KWT in Holland, we are proud to supply our customers with high quality innovative solutions and high standard installation services.



Penstocks

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Leakage rate · Taux de fuite · Leckrate · Lekgraad

| KSA MD DN ≤ 800 | MwC | BS7775 (resilient) | | DIN 19569-4 | | | | |
|-----------------|-----|--------------------|--------------------|--------------------|--------------------|-----|-----------|-----------|
| | | L/min ¹ | L/min ¹ | L/min ¹ | L/min ¹ | | | |
| 100mm - 300 mm | 8 | 0,3 | 0,5 | 8 | 1,1 | 1,1 | 1,2 - 3,0 | 1,2 - 3,0 |
| 400mm - 800 mm | 6 | 0,3 | 0,5 | 6 | 0,7 | 0,7 | 1,2 - 3,0 | 1,2 - 3,0 |

Norm values (L/min/m¹)

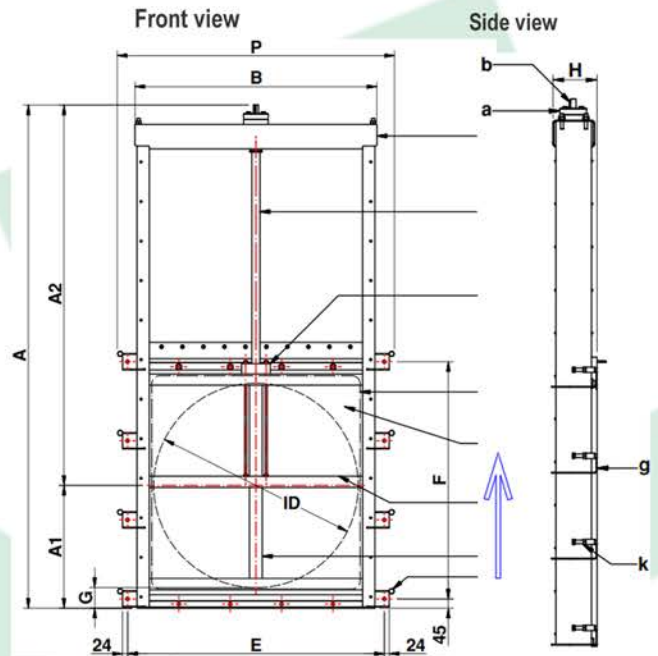
Leakage rate · Taux de fuite · Leckrate · Lekgraad

| KSA MD DN > 800 | MwC | AWWA 561 / BS 7775 (resilient) | | DIN 19569-4 | | | | |
|-----------------|-----|--------------------------------|--------------------|--------------------|--------------------|-----|-----------|-----------|
| | | L/min ¹ | L/min ¹ | L/min ¹ | L/min ¹ | | | |
| 900mm - 1500 mm | 5 | 0,3 | 0,5 | 5 | 0,5 | 0,5 | 1,2 - 3,0 | 1,2 - 3,0 |

Norm values (L/min/m¹)

| DN | | | | | |
|-------|-----|----|-----|----|---|
| DN100 | 24 | 10 | 21 | 4 | 8 |
| DN125 | 26 | 10 | 22 | 4 | 8 |
| DN150 | 32 | 10 | 25 | 4 | 8 |
| DN200 | 39 | 10 | 29 | 4 | 8 |
| DN250 | 47 | 10 | 33 | 4 | 8 |
| DN300 | 58 | 15 | 39 | 4 | 8 |
| DN400 | 72 | 20 | 49 | 8 | 6 |
| DN500 | 89 | 30 | 60 | 8 | 6 |
| DN600 | 105 | 45 | 73 | 8 | 6 |
| DN700 | 122 | 55 | 92 | 10 | 6 |
| DN800 | 139 | 70 | 109 | 10 | 6 |

| DN | | | | | |
|--------|-----|-----|-----|----|---|
| DN900 | 160 | 102 | 128 | 10 | 5 |
| DN1000 | 176 | 124 | 160 | 16 | 5 |
| DN1100 | 193 | 150 | 180 | 16 | 5 |
| DN1200 | 210 | 176 | 208 | 18 | 5 |
| DN1250 | 218 | 192 | 221 | 18 | 5 |
| DN1500 | 260 | 272 | 330 | 22 | 5 |



Data (mm) · Informations · Daten · Gegevens

| KWT item nr | DN | ID Ø | A | A1 | A2 | B | E | F | G | H |
|-------------|-------|------|------|-----|------|-----|-----|-----|----|-----|
| 211Z0100 | DN100 | 110 | 470 | 120 | 350 | 260 | 210 | 240 | 70 | 130 |
| 211Z0125 | DN125 | 125 | 500 | 132 | 368 | 275 | 225 | 255 | 70 | 130 |
| 211Z0150 | DN150 | 160 | 570 | 145 | 425 | 310 | 260 | 290 | 70 | 130 |
| 211Z0200 | DN200 | 200 | 650 | 170 | 480 | 350 | 300 | 330 | 70 | 130 |
| 211Z0250 | DN250 | 250 | 750 | 195 | 555 | 400 | 350 | 380 | 70 | 130 |
| 211Z0300 | DN300 | 315 | 800 | 220 | 580 | 465 | 415 | 445 | 70 | 130 |
| 211Z0400 | DN400 | 400 | 1050 | 270 | 780 | 550 | 500 | 530 | 70 | 130 |
| 211Z0500 | DN500 | 500 | 1250 | 320 | 930 | 650 | 600 | 630 | 70 | 130 |
| 211Z0600 | DN600 | 630 | 1450 | 370 | 1080 | 750 | 700 | 730 | 70 | 130 |
| 211Z0700 | DN700 | 710 | 1650 | 420 | 1230 | 850 | 800 | 830 | 70 | 130 |
| 211Z0800 | DN800 | 800 | 1850 | 470 | 1380 | 950 | 900 | 930 | 70 | 130 |

| KWT item nr | DN | ID Ø | A | A1 | A2 | B | E | F | G | H | P |
|-------------|--------|------|------|-----|------|------|------|------|-----|-----|------|
| 211Z0900 | DN900 | 900 | 2230 | 610 | 1620 | 1220 | 1160 | 1160 | 160 | 165 | 1380 |
| 211Z1000 | DN1000 | 1000 | 2450 | 660 | 1790 | 1350 | 1280 | 1280 | 160 | 175 | 1510 |
| 211Z1100 | DN1100 | 1100 | 2900 | 710 | 2190 | 1520 | 1460 | 1460 | 160 | 195 | 1680 |
| 211Z1200 | DN1200 | 1200 | 2900 | 760 | 2140 | 1520 | 1460 | 1460 | 160 | 195 | 1680 |
| 211Z1250 | DN1250 | 1250 | 2900 | 785 | 2115 | 1520 | 1460 | 1460 | 160 | 195 | 1680 |
| 211Z1500 | DN1500 | 1500 | 3390 | 910 | 2480 | 1770 | 1710 | 1710 | 160 | 215 | 1930 |

Specifications

- Passage: as per requirements
- Operating pressure: mid range
- Operating temperature: Ambient temperature: -16°C/34°C
- Operation: manual or through actuator
- Operation connector: half moon or square
- Movement mechanism: rising spindle or non rising spindle

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