



**AVK GROUP REFERENCES**  
**DAMS, RESERVOIRS AND**  
**HYDROPOWER**



# REFERENCES

## EUROPE



| Site                                      | Country    | Products                                                                                                                         | Brand                  | Size                                                |
|-------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|
| CH Vesdre, 70 mWc                         | Belgium    | Fabricated butterfly valves                                                                                                      | Orbinox                | DN400, DN600                                        |
| Asprokremmos Dam                          | Cyprus     | Submerged discharge valves                                                                                                       | Glenfield              | DN800/600                                           |
| Symvoulos Dam                             | Cyprus     | Fixed cone discharge valves                                                                                                      | Glenfield              | DN400                                               |
| Barrage du Gabas                          | France     | Bonneted gates                                                                                                                   | Orbinox                | 1500x900mm, 900x1500mm                              |
| PONT DE ROI, 22 mWc                       | France     | Fabricated submerged discharge valve                                                                                             | Orbinox                | DN600                                               |
| Barrage de St. Sernin, 20 mWc             | France     | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN500                                               |
| Rizzanese Dam, Corsica                    | France     | Submerged discharge valves                                                                                                       | Glenfield              | DN300/300                                           |
| Aggerverband                              | Germany    | Needle valve,<br>Centric butterfly valve                                                                                         | AC.MO<br>Wouter Witzel | DN1200<br>DN1200                                    |
| PRAHA SAZAVA AK, 99 mWc                   | Czech Rep. | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN600                                               |
| GEVE, 46 mWc                              | Greece     | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN800                                               |
| Kwassay Dam                               | Hungary    | Double eccentric butterfly valves , check valves and dismantling joints                                                          | AVK                    | DN1800                                              |
| Sicilia Acque hydropower plant            | Italy      | Needle valves, dismantling joints                                                                                                | AC.MO                  | DN200, DN400, DN500, DN700                          |
| Calusia Hydropower plant                  | Italy      | Needle valve, dismantling joint                                                                                                  | AC.MO                  | DN1200                                              |
| Ovre Kalvatn Power Plant, 56 mWc          | Norway     | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN800                                               |
| Presa de Daivoes, 54 mWc                  | Portugal   | Bonneted gate                                                                                                                    | Orbinox                | 1800x1800mm                                         |
| Presa de Gouvaes, 22 mWc                  | Portugal   | Bonneted gate<br>Fabricated fixed cone discharge valves<br>Cast knife gate valve                                                 | Orbinox                | DN1000<br>DN1000, DN400<br>DN400                    |
| Queimadela, 20.5 mWc                      | Portugal   | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN1000                                              |
| Terragido, 3 mWc, power station           | Portugal   | Roller gate                                                                                                                      | Orbinox                | 2400x2800mm                                         |
| Torga, 4 mWc, power station               | Portugal   | Roller gate<br>Stop gate                                                                                                         | Orbinox                | 3200x3600mm<br>3200x3500mm                          |
| San Pedro do Soul, 4 mWc                  | Portugal   | Roller gates<br>Stop gates                                                                                                       | Orbinox                | 3500X3500mm, 3500x1800mm<br>3500x3000mm             |
| Alto Lindoso, 101 mWc                     | Portugal   | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN600                                               |
| Lednock Dam, 36 mWc                       | Scotland   | Fabricated fixed cone discharge valve                                                                                            | Orbinox                | DN1500                                              |
| Presa Rambla de Algeciras, 70 mWc         | Spain      | Bonneted gates<br>Fabricated fixed cone discharge valves<br>Fabricated submerged discharge valves<br>Fabricated butterfly valves | Orbinox                | 1250x1400mm<br>DN1300<br>DN1300<br>DN2000           |
| Presa del Alcorlo, 43 mWc                 | Spain      | Bonneted gate                                                                                                                    | Orbinox                | 1000x1250mm                                         |
| Presa La Llosa del Cavall, 100 mWc, 75mWc | Spain      | Bonneted gates<br>Stop gates                                                                                                     | Orbinox                | 900x1200mm, 1500x1800mm<br>1700x6800mm, 1500x2500mm |
| Presa de Tous, 120 mWc                    | Spain      | Bonneted gates                                                                                                                   | Orbinox                | 2000x3000mm                                         |

| Site                                       | Country | Products                                                                                       | Brand   | Size                                                                                  |
|--------------------------------------------|---------|------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|
| Presa de Villagaton, 50 mWc                | Spain   | Bonneted gates<br>Fabricated butterfly valves<br>Fabricated knife gate valves                  | Orbinox | 800x1000mm<br>DN500<br>DN500                                                          |
| Presa de Sierra Brava, 45 mWc, 2 mWc/4 mWc | Spain   | Bonneted gates<br>Stop gates                                                                   | Orbinox | 1250x1500mm, 1350x1700mm<br>1700x1700mm, 3800x3500mm                                  |
| Presa de Marisanchez-La Cabezuela          | Spain   | Bonneted gate valves<br>Fabricated fixed cone discharge valves<br>Fabricated knife gate valves | Orbinox | 800x1000mm<br>DN1000<br>DN500                                                         |
| Presa de la Vega del Jabalon               | Spain   | Radial gates<br>Bonneted gates                                                                 | Orbinox | 6000x3000mm<br>800x1000mm, 500x600mm                                                  |
| Presa del Aguijon                          | Spain   | Bonneted gates                                                                                 | Orbinox | 800x1000mm                                                                            |
| Presa del Infierno                         | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                       | Orbinox | 400x500mm, 250x300mm<br>DN400                                                         |
| Embalse Valencia de Alcantara              | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN400                                                                                 |
| Presa de Torrejoncillo                     | Spain   | Fabricated butterfly valves                                                                    | Orbinox | DN900                                                                                 |
| Presa Zaharra el Gastor                    | Spain   | Fabricated butterfly valve<br>Fabricated knife gate valve                                      | Orbinox | DN1200<br>DN400                                                                       |
| Presa Tentudia                             | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN500                                                                                 |
| Presa La Tajera                            | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN1200                                                                                |
| Presa de Margalef, 30 mWc                  | Spain   | Bonneted gates<br>Fabricated knife gate valves                                                 | Orbinox | 400x600mm<br>DN400                                                                    |
| Presa de Ruidecanyes                       | Spain   | Stop gate                                                                                      | Orbinox | 1400x3300mm                                                                           |
| Presa de Burguillos del Cerro              | Spain   | Bonneted gates<br>Fabricated knife gate valves                                                 | Orbinox | 500x600mm<br>DN600                                                                    |
| Presa de Fuentes Claras                    | Spain   | Bonneted gates                                                                                 | Orbinox | 800x1000mm                                                                            |
| Presa de Hervas                            | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN500                                                                                 |
| Presa de Urdalur, 35 mWc                   | Spain   | Fabricated knife gate valves<br>Fabricated fixed cone discharge valves<br>Bonneted gates       | Orbinox | DN800<br>DN800<br>700x800mm                                                           |
| Presa de El Ferial-Rada                    | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                       | Orbinox | 600x1000mm, DN900<br>DN700                                                            |
| Presa de Itoitz                            | Spain   | Stop gate                                                                                      | Orbinox | 4500x4500mm                                                                           |
| Desagüe Presa de Janduna                   | Spain   | Fabricated fixed cone discharge valve                                                          | Orbinox | DN300                                                                                 |
| Presa Proserpina                           | Spain   | Fabricated knife gate valves                                                                   | Orbinox | DN600                                                                                 |
| Presa de San Juan, 100 mWc                 | Spain   | Fabricated fixed cone discharge valve                                                          | Orbinox | DN1500                                                                                |
| Embalse Torre de Capdella                  | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN800 + shield                                                                        |
| Presa salto de Torrasa                     | Spain   | Fabricated butterfly valve                                                                     | Orbinox | DN1200                                                                                |
| Presa Superior Rio Tuño                    | Spain   | Fabricated fixed cone discharge valve                                                          | Orbinox | DN1000                                                                                |
| Central Hidroeléctrica de Guilhofrei       | Spain   | Fabricated butterfly valve                                                                     | Orbinox | DN1500                                                                                |
| Trasvase Tajo-Segura Zona V                | Spain   | Radial gates                                                                                   | Orbinox | 6700x2900mm, 6000x2550mm                                                              |
| Presa de Proserpina, 15 mWc                | Spain   | Bonneted gates                                                                                 | Orbinox | DN600                                                                                 |
| Presa de Amodovar                          | Spain   | Bonneted gates                                                                                 | Orbinox | 620x800mm                                                                             |
| C.H. de Malpás, Vallespir y Montenartro    | Spain   | Cast knife gate valves                                                                         | Orbinox | DN600, DN900, DN1200, DN1300                                                          |
| Presa de Guara                             | Spain   | Cast knife gate valves                                                                         | Orbinox | DN600                                                                                 |
| Presa de Riaza                             | Spain   | Fabricated knife gate valves<br>Fabricated fixed cone discharge valves                         | Orbinox | DN500, DN300<br>DN500                                                                 |
| Presa de Jaraiz de la Vera                 | Spain   | Fabricated knife gate valves<br>Fabricated fixed cone discharge valves                         | Orbinox | DN400, DN300<br>DN400                                                                 |
| Embalse de Zamanes                         | Spain   | Cast knife gate valves                                                                         | Orbinox | DN600                                                                                 |
| Presa de Puentes                           | Spain   | Bonneted gates<br>Roller gates<br>Radial gates<br>Fabricated fixed cone discharge valve        | Orbinox | 750x1125mm, 2500x2750mm<br>5000x4500mm<br>5000x2750mm, 2500x2750mm<br>DN1000 + shield |
| Presa de Requejada, 15 mWc                 | Spain   | Fabricated fixed cone discharge valves                                                         | Orbinox | DN800                                                                                 |

| Site                                    | Country | Products                                                                                              | Brand   | Size                                                                   |
|-----------------------------------------|---------|-------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------|
| Presa de Aguilar, 35 mWc                | Spain   | Fabricated fixed cone discharge valves                                                                | Orbinox | DN1200                                                                 |
| Presa de Villameca, 3 mWc, 20 mWc       | Spain   | Radial gates<br>Bonneted gates<br>Fabricated fixed cone discharge valves                              | Orbinox | 12000x2100mm<br>600x800mm<br>DN800                                     |
| Presa de Andevalo                       | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                              | Orbinox | 1700x2000mm<br>DN2000                                                  |
| Embalse de Malvecino                    | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves<br>Fabricated butterfly valves               | Orbinox | 1000x1200mm<br>DN1200<br>DN1200                                        |
| Presa de Rules                          | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves<br>Fabricated knife gate valves<br>Stop gate | Orbinox | 1600x2000mm, 1200x1500mm, 800x1000mm<br>DN1500<br>DN800<br>1000x1000mm |
| Presa de Rialb                          | Spain   | Fabricated fixed cone discharge valves                                                                | Orbinox | DN1500, DN600                                                          |
| Embalse de Montearagon                  | Spain   | Bonneted gates                                                                                        | Orbinox | 1000x1100mm, 1100x1300mm                                               |
| Presa de Casasola                       | Spain   | Bonneted gates                                                                                        | Orbinox | 800x1100mm                                                             |
| Embalse de la Pedrera                   | Spain   | Fabricated fixed cone discharge valve                                                                 | Orbinox | DN1000                                                                 |
| Presa de Foix, 20 mWc                   | Spain   | Fabricated knife gate valve<br>Fabricated fixed cone discharge valve                                  | Orbinox | DN800<br>DN800                                                         |
| Presa del Agueda, 6 mWc 6 mWc 27 mWc    | Spain   | Radial gates<br>Stop gate<br>Bonneted gates                                                           | Orbinox | 15000x4750mm<br>15000x5000mm<br>800x1200mm                             |
| CH Cofrentes, 15 mWc                    | Spain   | Roller gates                                                                                          | Orbinox | 3320x3200mm, 1000x1000mm                                               |
| CH Cortijo, 13 mWc                      | Spain   | Roller gates                                                                                          | Orbinox | 6200x5900mm                                                            |
| Presa de Giribaile, 80 mWc              | Spain   | Fabricated butterfly valve                                                                            | Orbinox | DN2000                                                                 |
| Presa de Mora de Rubielos, 25 mWc       | Spain   | Bonneted gates                                                                                        | Orbinox | 900x600mm                                                              |
| CH Arroibar, 25 mWc, power station      | Spain   | Fabricated butterfly valve                                                                            | Orbinox | DN2500                                                                 |
| CH Xalas, 6 mWc, power station          | Spain   | Fabricated butterfly valve                                                                            | Orbinox | DN1100                                                                 |
| Presa de Arauzo, 45 mWc                 | Spain   | Fabricated knife gate valves<br>Cast knife gate valves                                                | Orbinox | DN1000<br>DN600                                                        |
| CH Río Barra, 120 mWc, power station    | Spain   | Fabricated butterfly valve                                                                            | Orbinox | DN800                                                                  |
| Presa de Arenoso, 75 mWc                | Spain   | Bonneted gates<br>Fabricated butterfly valves<br>Fabricated fixed cone discharge valves               | Orbinox | 2500x2000mm<br>DN2500, DN1000<br>DN1500, DN800                         |
| CH Río Bodar, 20 mW, power station      | Spain   | Fabricated butterfly valves                                                                           | Orbinox | DN1700, DN2000                                                         |
| Salto del Touro, 25 mWc, power station  | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                              | Orbinox | 1000x1200mm<br>DN1200                                                  |
| CH Río Brandariz, 30 mWc, power station | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                              | Orbinox | 1300X1200mm<br>DN1500                                                  |
| CH Río Brandariz, 15 mWc                | Spain   | Roller gates                                                                                          | Orbinox | 5750x8000mm, 6000x2600mm                                               |
| Presa del Argós, 30 mWc                 | Spain   | Fabricated submerged discharge valve                                                                  | Orbinox | DN1000                                                                 |
| CH Oitavén, 4 mWc, power station        | Spain   | Roller gate                                                                                           | Orbinox | 3000x4000mm                                                            |
| CH Giesta, 4 mWc, power station         | Spain   | Roller gate                                                                                           | Orbinox | 3600x2400mm                                                            |
| CH del Narahio, 60 mWc, power station   | Spain   | Fabricated butterfly valve                                                                            | Orbinox | DN400                                                                  |
| CH Berchules, 150 mWc, power station    | Spain   | Fabricated fixed cone discharge valves                                                                | Orbinox | DN300                                                                  |
| Embalse de Undurraga, 40 mWc            | Spain   | Fabricated fixed cone discharge valves                                                                | Orbinox | DN1600                                                                 |
| Presa de La Tranquera, 40 mWc           | Spain   | Fabricated knife gate valve                                                                           | Orbinox | DN800                                                                  |
| CH Los Molinos, power station           | Spain   | Fabricated butterfly valves                                                                           | Orbinox | DN1300                                                                 |
| Presa de La Tranquera                   | Spain   | Fabricated knife gate valve                                                                           | Orbinox | DN800                                                                  |
| Presa de Lasesa, 50 mWc                 | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valve                                               | Orbinox | 1500x1800mm, 1000x1200mm<br>DN500                                      |
| Azud de Aguilar de Campoo, 2 mWc        | Spain   | Radial gates                                                                                          | Orbinox | 7000x1600mm                                                            |
| Presa de cola embalse Santolea, 40 mWc  | Spain   | Bonneted gates                                                                                        | Orbinox | 1200x1500mm                                                            |
| Presa de Santibañez de la Peña, 50 mWc  | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valve                                               | Orbinox | 500x600mm<br>DN600                                                     |

| Site                                                              | Country | Products                                                                                                                             | Brand   | Size                                                                                                                     |
|-------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------|
| C.H. El Portillo, 100 mWc, power station                          | Spain   | Fabricated knife gate valve<br>Fabricated fixed cone discharge valve<br>Cast knife gate valve                                        | Orbinox | DN1100<br>DN500<br>DN600                                                                                                 |
| Presa de Eirás, 35 mWc                                            | Spain   | Fabricated fixed cone discharge valves<br>Fabricated knife gate valve                                                                | Orbinox | DN1800<br>DN1800                                                                                                         |
| Presa de San Salvador, 30 mWc                                     | Spain   | Fabricated submerged discharge valves                                                                                                | Orbinox | DN1800                                                                                                                   |
| Presa de Villalba de Los Barros, 50 mWc                           | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                                                             | Orbinox | 800x1000mm<br>DN800                                                                                                      |
| Presa de El barrancar, 25 mWc                                     | Spain   | Bonneted gates                                                                                                                       | Orbinox | 400x600mm                                                                                                                |
| Azud de El Portal, 7 mWc                                          | Spain   | Radial gates                                                                                                                         | Orbinox | 10000x3000mm                                                                                                             |
| Toma Esplús / Presa de San Salvador, 25 mWc                       | Spain   | Bonneted gates<br>Fabricated submerged discharge valves                                                                              | Orbinox | DN1000<br>DN1000                                                                                                         |
| Presa de Camporredondo, 5,5 mWc                                   | Spain   | Radial gates<br>Stop gates                                                                                                           | Orbinox | 12000x4800mm, 14000x4000mm<br>12000x5100mm, 14000x4200mm                                                                 |
| Presa de Búbal, 65 mWc                                            | Spain   | Fabricated fixed cone discharge valve                                                                                                | Orbinox | DN400                                                                                                                    |
| Presa de Compuerto, 5 mWc, 5 mWc, 75 mWc, 50 mWc, 75 mWc          | Spain   | Radial gates<br>Stop gates<br>Bonneted gates<br>Bonneted gates<br>Fabricated fixed cone discharge valves                             | Orbinox | 11500x4300mm<br>1150x4500mm<br>1000x1500mm<br>800x1000mm<br>DN800                                                        |
| Presa de Linares, 5,5 mWc 30 mWc,                                 | Spain   | Radial gates<br>Bonneted gates<br>Fabricated fixed cone discharge valve                                                              | Orbinox | 1500x4500mm<br>1000x1500mm, 600x800mm<br>DN700                                                                           |
| Presa de Las Parras, 40 mWc                                       | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves                                                                             | Orbinox | 700x700mm, 400x500mm<br>DN700, DN500                                                                                     |
| C.H. FERVENCA II, 48 mWc, power station                           | Spain   | Fabricated butterfly valves                                                                                                          | Orbinox | DN2000                                                                                                                   |
| C.H. NOVOCASTRELO, 43 mWc, power station                          | Spain   | Fabricated butterfly valves                                                                                                          | Orbinox | DN2200                                                                                                                   |
| C.H. PONTE OLIVEIRA II, 48 mWc, power station                     | Spain   | Fabricated butterfly valves                                                                                                          | Orbinox | DN2200                                                                                                                   |
| Presa de González Lacasa, 50 mWc, power station                   | Spain   | Fabricated fixed cone discharge valve                                                                                                | Orbinox | DN700                                                                                                                    |
| Presa de Enciso, 85 mWc                                           | Spain   | Bonneted gates                                                                                                                       | Orbinox | 1250x1500mm                                                                                                              |
| PRESA DE PEÑASCALES, 15 mWc                                       | Spain   | Fabricated fixed cone discharge valve                                                                                                | Orbinox | DN350                                                                                                                    |
| Presa de Castrovido                                               | Spain   | Bonneted gates<br><br>Radial gates<br>Fabricated fixed cone discharge valves<br>Fabricated submerged discharge valve<br>Roller gates | Orbinox | 1000x1200mm, 1200x1500mm, 1500x1900mm, 800x1000mm<br>1000x1200mm<br>DN1500<br>DN1500<br>2200x3600mm                      |
| Presa de Yesa, 85 mWc, 85 mWc, 4 mWc, 4 mWc/5 mWc, 85 mWc, 85 mWc | Spain   | Bonneted gates<br>Fabricated fixed cone discharge valves<br>Penstocks<br>Radial gates<br>Roller gates<br>Radial gates                | Orbinox | 1550x2000mm, 1500x1800mm<br>DN800<br>1500x1000mm<br>4000x5000mm, 2000x4750mm<br>DN300, DN500<br>1950x2500mm, 1550x2000mm |
| PRESA DE NAGORE                                                   | Spain   | Stop gates                                                                                                                           | Orbinox | 4450x5000mm, 4750x5880mm                                                                                                 |
| PRESA DE FOIX, 22 mWc                                             | Spain   | Fabricated fixed cone discharge valve<br>Cast knife gate valve                                                                       | Orbinox | DN250<br>DN400                                                                                                           |
| Presa de Chandreja, 60 mWc                                        | Spain   | Fabricated fixed cone discharge valve                                                                                                | Orbinox | DN250                                                                                                                    |
| Presa de Las Torcas, 42 mWc                                       | Spain   | Fabricated fixed cone discharge valve                                                                                                | Orbinox | DN300                                                                                                                    |
| PRESA DE NAGORE, 16 mWc                                           | Spain   | Fabricated butterfly valves<br>Radial gates                                                                                          | Orbinox | 750x900mm<br>750x900mm                                                                                                   |
| Embalse de Undurraga, 6 mWc                                       | Spain   | Roller gate<br>Penstocks                                                                                                             | Orbinox | 8000x2000mm<br>5700x1400mm, 1100x1200mm                                                                                  |
| Presa de Sant Ponç, 40 mWc                                        | Spain   | Bonneted gates                                                                                                                       | Orbinox | 630x800mm                                                                                                                |
| Presa de Castrovido (Aliviadero intermedio), 10 mWc               | Spain   | Radial gates<br>Roller gates                                                                                                         | Orbinox | 1750x1200mm<br>1750x1600mm                                                                                               |

| Site                                          | Country     | Products                                                                                             | Brand                  | Size                                              |
|-----------------------------------------------|-------------|------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------|
| Presa de Tranquera, 3,5 mWc                   | Spain       | Radial gates                                                                                         | Orbinox                | 8500x3500mm                                       |
| Presa de Mularroya, 80 mWc                    | Spain       | Bonneted gates                                                                                       | Orbinox                | 1200x1500mm                                       |
| PRESA DE NAGORE, 4,5 mWc<br>1 mWc, 1,5 mWc    | Spain       | Penstocks CC<br>Penstocks MU                                                                         | Orbinox                | 2000x4500mm, 500x1500mm<br>500x500mm, 1600x1000mm |
| Presa de Sigües, 4,5 mWc                      | Spain       | Stop gates                                                                                           | Orbinox                | 6750x4500mm                                       |
| Presa de cola de Castrovido, 12 mWc,<br>6 mWc | Spain       | Penstock<br>Bonneted gates                                                                           | Orbinox                | DN1000<br>DN1000                                  |
| Presa de Alloz, 54 mWc                        | Spain       | Fabricated fixed cone discharge valve                                                                | Orbinox                | DN200                                             |
| Presa de Aldeanueva, 10 mWc                   | Spain       | Radial gate                                                                                          | Orbinox                | 800x1000mm                                        |
| Embalse de Undurraga, 25 mWc                  | Spain       | Fabricated fixed cone discharge valve                                                                | Orbinox                | DN1000                                            |
| Presa de Tanes, 55 mWc                        | Spain       | Fabricated fixed cone discharge valve                                                                | Orbinox                | DN800                                             |
| Presa de Gorostiza, 40 mWc                    | Spain       | Fabricated knife gate valve                                                                          | Orbinox                | DN800                                             |
| CHIRA Y SORIA, 41 mWc,                        | Spain       | Stop gates                                                                                           | Orbinox                | 5000x6000mm                                       |
| Requeixo                                      | Spain       | Fabricated knife gate valve<br>Fabricated butterfly valve                                            | Orbinox                | DN500<br>DN1500                                   |
| Castadon, power station                       | Spain       | Fabricated knife gate valves                                                                         | Orbinox                | DN500                                             |
| Olaldea 1, 60 mWc, power station              | Spain       | Fabricated butterfly valves                                                                          | Orbinox                | DN1000                                            |
| Presa de la Torre de Abraham                  | Spain       | Bonneted gates                                                                                       | Orbinox                | 1500x1750mm, 1000x1250mm                          |
| Presa del Val                                 | Spain       | Bonneted gate<br>Bonneted gate                                                                       | Orbinox                | 1000x1200mm<br>750x900mm                          |
| Presa de Monforte                             | Spain       | Fabricated knife gate valves<br>Fabricated fixed cone discharge valves<br>Fabricated butterfly valve | Orbinox                | DN500<br>DN250<br>DN500                           |
| Marmorera Dam                                 | Switzerland | Submerged discharge valves                                                                           | Glenfield              | DN400/300                                         |
| Burnhope Reservoir                            | UK          | Fixed cone discharge valves<br>Gate valve                                                            | Glenfield<br>Glenfield | DN600<br>DN800                                    |
| Bewl Reservoir                                | UK          | Submerged discharge valves                                                                           | Glenfield              | DN1600/1400                                       |
| Ladybower Reservoir                           | UK          | Gate valves                                                                                          | Glenfield              | DN450                                             |
| Barrowford Reservoir                          | UK          | Gate valves                                                                                          | Glenfield              | DN450                                             |
| Burncrooks                                    | UK          | Gate valves                                                                                          | Glenfield              | DN450                                             |
| Daer Reservoir                                | UK          | Gate valves                                                                                          | Glenfield              | DN450                                             |
| Llyn Celyn                                    | UK          | Fixed cone discharge valves                                                                          | Glenfield              | DN1300                                            |
| Draycote Reservoir                            | UK          | Gate valves                                                                                          | Glenfield              | DN1200                                            |
| Llandegfedd Reservoir                         | UK          | Gate valves                                                                                          | Glenfield              | DN700                                             |
| Loch Thom                                     | UK          | Gate valves                                                                                          | Glenfield              | DN900                                             |
| Bosley Reservoir                              | UK          | Gate valves                                                                                          | Glenfield              | DN600                                             |
| Prescott Reservoir                            | UK          | Gate valves                                                                                          | Glenfield              | DN900                                             |
| Grafham Reservoir                             | UK          | Butterfly valves                                                                                     | Glenfield              | DN900                                             |
| Llyn Brenig                                   | UK          | Needle valves                                                                                        | Glenfield              | DN900                                             |
| Heigham Reservoir                             | UK          | Gate valves                                                                                          | Glenfield              | DN900                                             |
| Abberton Reservoir                            | UK          | Fixed cone discharge valves                                                                          | Glenfield              | DN1200                                            |
| Shap Aqueduct                                 | UK          | Submerged discharge valves                                                                           | Glenfield              | DN800/600                                         |
| Bradán Dam                                    | UK          | Submerged discharge valves                                                                           | Glenfield              | DN600/600                                         |
| Roadford Dam                                  | UK          | Submerged discharge valves                                                                           | Glenfield              | DN800/600                                         |
| Llyn Celyn Dam, 47 mWc                        | Wales       | Fabricated fixed cone discharge valve                                                                | Orbinox                | DN1300                                            |

| Site                     | Country | Products                                                                                            | Brand                                      | Size                                    |
|--------------------------|---------|-----------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|
| Llyn Brenig Dam, 48 mWc  | Wales   | Stop gate<br>Roller gates                                                                           | Orbinox                                    | 2800x3900mm<br>2000x2550mm, 1800x2550mm |
| Usk Reservoir, 35 mWc    | Wales   | Fabricated submerged discharge valve<br>Gate valves<br>Fixed cone discharge valves<br>Needle valves | Orbinox<br>Glenfield<br>Glenfield<br>AC.MO | DN450<br>DN800<br>DN600<br>DN300        |
| Graig Goch Dam, 30 mWc   | Wales   | Fabricated fixed cone discharge valve                                                               | Orbinox                                    | DN900                                   |
| Clywedog Reservoir       | Wales   | Butterfly valves                                                                                    | Glenfield                                  | DN1800                                  |
| Brenig Reservoir         | Wales   | Submerged discharge valves                                                                          | Glenfield                                  | DN1600/1200                             |
| Marchlyn Reservoir       | Wales   | Submerged discharge valves                                                                          | Glenfield                                  | DN1000/800                              |
| Towy and Lliw Reservoirs | Wales   | Submerged discharge valves                                                                          | Glenfield                                  | DN500/400                               |

# REFERENCES

## AFRICA



| Site                                                              | Country            | Products                                                                                   | Brand         | Size                                                 |
|-------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|---------------|------------------------------------------------------|
| Aln Kercha GOUG C.                                                | Algeria            | Fixed cone discharge valves                                                                | Orbinox       | DN300, DN200                                         |
| Gue de Constantine                                                | Algeria            | Submerged discharge valve                                                                  | Glenfield     | DN600                                                |
| Keddara Reservoir                                                 | Algeria            | Submerged discharge valve                                                                  | Glenfield     |                                                      |
| Matala Dam                                                        | Angola             | Stop gate<br>Radial gates<br>Penstocks                                                     | Orbinox       | 6500x8600mm<br>6500x9000mm<br>400x400mm, 1300x1300mm |
| Benguella Guando Falls                                            | Angola             | Sliding direct lift gates                                                                  | Glenfield     | 30 ft.                                               |
| Edwaleni Dam, 15 MW                                               | Eswatini/Swaziland | Fixed cone discharge valve                                                                 | Glenfield     | DN1400                                               |
| Koga Dam, 34.5m high                                              | Ethiopia           | Submerged discharge valve                                                                  | Glenfield     | DN450/400                                            |
| Kwanyaku Dam                                                      | Ghana              | Fixed roller gates                                                                         | Glenfield     |                                                      |
| Karimenu II Dam Project                                           | Kenya              | Butterfly valves, control valves, gate valves                                              | AVK           | <DN800                                               |
| Thiba Dam, 40m high                                               | Kenya              | Gate valves, couplings, adapters, air valves                                               | AVK           |                                                      |
| Low Tana Hydro-electric Scheme, 20MW                              | Kenya              | Roller sluice gates, coarse fixed screens, control gates, butterfly valves, control valves | Glenfield     |                                                      |
| Chania Thika Dam, 63m high                                        | Kenya              | Submerged discharge valve                                                                  | Glenfield     | DN800                                                |
| Kamuzu 1 Dam, Lilongwe                                            | Malawi             | Fixed cone discharge valve, penstocks                                                      | Orbinox       | DN500                                                |
| Neckartal Dam78.5m high                                           | Namibia            | Refurbishment of previously supplied check valve                                           | AVK           | DN800                                                |
| Lower Usuma Dam WTP                                               | Nigeria            | Butterfly valves etc.                                                                      | Wouter Witzel | DN1500                                               |
| Balanga Dam                                                       | Nigeria            | Submerged discharge valves etc.                                                            | Glenfield     | DN1000                                               |
| Cross River                                                       | Nigeria            | Penstocks and variety of valves                                                            | Glenfield     |                                                      |
| Kangimi Reservoir                                                 | Nigeria            | Submerged discharge valve                                                                  | Glenfield     | DN1100                                               |
| Rusumo Falls Hydropower, 80MW                                     | Rwanda             | Butterfly valves                                                                           | AVK           |                                                      |
| Caucuss Reservoir (Dawn Park)                                     | South Africa       | Gate valves, butterfly valves                                                              | AVK           |                                                      |
| Orange River                                                      | South Africa       | Submerged discharge valve                                                                  | Glenfield     | DN1900                                               |
| Oppermansdrift Dam                                                | South Africa       | Fixed cone discharge valve                                                                 | Glenfield     | DN1700                                               |
| Churchill Dam (Kromme Dam), 43m high                              | South Africa       | Large sluice gate                                                                          | Glenfield     |                                                      |
| Vaal River Barrage, Johannesburg                                  | South Africa       | Roller sluice gates                                                                        | Glenfield     |                                                      |
| Lake Mentz Dam, Pretoria                                          | South Africa       | Roller gates                                                                               | Glenfield     |                                                      |
| Vaal River Barrage, Johannesburg                                  | South Africa       | Roller gates                                                                               | Glenfield     |                                                      |
| Oliphants River, Pretoria                                         | South Africa       | Roller gates                                                                               | Glenfield     |                                                      |
| Jebel Aulia Dam (on the White Nile)                               | Sudan              | Roller gates                                                                               | Glenfield     |                                                      |
| Pangani Hydro-electric Scheme, 68 MW                              | Tanzania           | Butterfly valve                                                                            | Glenfield     | DN2600                                               |
| Nyumba Ya Mungu Dam 8MW, 43m high                                 | Tanzania           | Fixed cone discharge valves                                                                | Glenfield     | DN1500                                               |
| Direction Générale des Barrages et des Grands Travaux Hydraulique | Tunisia            | Butterfly valves                                                                           | AC.MO         | DN1200, DN1600, DN1800                               |

| Site                                                    | Country  | Products                                                           | Brand     | Size              |
|---------------------------------------------------------|----------|--------------------------------------------------------------------|-----------|-------------------|
| SOCOOPPEC Department Irrigation                         | Tunisia  | Needle valves                                                      | AC.MO     | DN800             |
| SOCOOPPEC Department Irrigation                         | Tunisia  | Needle valves                                                      | AC.MO     | DN1200, DN600     |
| SOGEMAF                                                 | Tunisia  | Needle valves                                                      | AC.MO     | DN500             |
| COWATER Industry SA.                                    | Tunisia  | Needle valves                                                      | AC.MO     | DN500             |
| SOCOOPPEC Department Irrigation                         | Tunisia  | Needle valves                                                      | AC.MO     | DN1400            |
| SOCOOPPEC Department Irrigation                         | Tunisia  | Needle valves                                                      | AC.MO     | DN600             |
| Kigwabya Hydropower Plant                               | Uganda   | Sluice gates, stop logs                                            | Orbinox   | up to 2000x2000mm |
| Owen Falls Hydro-electric Scheme, 30 MW (Nalubaale Dam) | Uganda   | Glenfield roller sluice gates, turbine control gates, screens etc. | Glenfield |                   |
| Mulungushi Reservoir                                    | Zambia   | Fixed cone discharge valve                                         | Orbinox   | DN1600            |
| Hydrostation Lake Mutirikwi                             | Zimbabwe | Fixed cone discharge valves                                        | Glenfield | DN1100            |
| Pungwe to Matare Christmas Pass                         | Zimbabwe | Submerged discharge valves                                         | Glenfield | DN400/300         |
| Khami River Dam                                         | Zimbabwe | Span sluice & automatic tilting gates                              | Glenfield |                   |
| Water Reservoir, Bulawayo                               | Zimbabwe | Sluice valves                                                      | Glenfield | 33 ft.            |



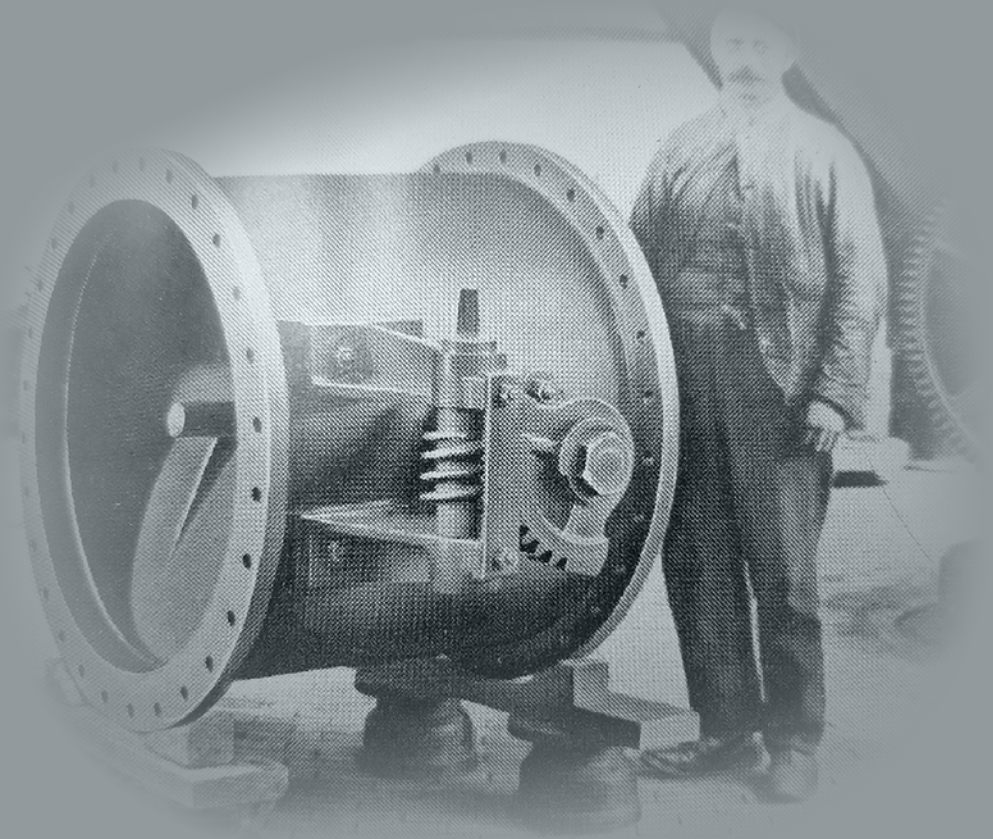
# REFERENCES

## OTHER CONTINENTS



| Site                                    | Country                   | Products                                                       | Brand     | Size                                                      |
|-----------------------------------------|---------------------------|----------------------------------------------------------------|-----------|-----------------------------------------------------------|
| DAHLA DAM, 70 mWc                       | Afghanistan               | Bonneted gates<br>Fabricated fixed cone discharge valves       | Orbinox   | DN2450, DN1050<br>DN1650                                  |
| SOMERSET DAM, 70 mWc                    | Australia                 | Fabricated knife gate valves<br>Bonneted gates<br>Roller gates | Orbinox   | DN2740, DN2440<br>2740x2740mm, 2440x3660mm<br>4590x6500mm |
| Mardi Dam                               | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN600                                                     |
| Upper Cotter Dam                        | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN900                                                     |
| Tallowa Dam                             | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN600                                                     |
| Cordeaux Dam                            | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN200                                                     |
| Nepean Dam                              | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN300                                                     |
| Broughtons pass Dam                     | Australia                 | Fixed cone discharge valves                                    | Glenfield | DN200                                                     |
| Woronora Dam                            | Australia                 | Submerged discharge valves                                     | Glenfield | DN375/250, DN100/800, DN1100/800                          |
| Mooney Mooney Dam                       | Australia                 | Submerged discharge valves                                     | Glenfield | DN400/300                                                 |
| Onkaparinga Dam                         | Australia                 | Submerged discharge valves                                     | Glenfield | DN400/250                                                 |
| Jindabyne Dam                           | Australia                 | Fixed cone discharge valves<br>Submerged discharge valves      | Glenfield | DN1200, DN1900<br>DN800/600                               |
| CH Ivirizu, 250 mWc/160 mWc             | Bolivia                   | Fabricated butterfly valves                                    | Orbinox   | DN2300, DN2650                                            |
| CH Miguillas, 17,5 mWc                  | Bolivia                   | Fabricated butterfly valve                                     | Orbinox   | DN1900                                                    |
| Santa Cecilia Reservoir                 | Brazil                    | Needle valves                                                  | AC.MO     | DN400, DN500, DN600                                       |
| Ulu Tutong Dam                          | Brunei                    | Fixed cone discharge valves                                    | Glenfield | DN300, DN1200                                             |
| Benutan Dam                             | Brunei                    | Submerged discharge valves                                     | Glenfield | DN1200/1200, DN400/400                                    |
| Cleveland Dam, 84 mWc                   | Canada                    | Fabricated fixed cone discharge valve                          | Orbinox   | DN1400                                                    |
| La Confluencia, 8 mWc                   | Chile                     | Fabricated fixed cone discharge valves                         | Orbinox   | DN400                                                     |
| Jinyun Hydro Plant, 87 mWc              | China                     | Fabricated submerged discharge valves                          | Orbinox   | DN2000                                                    |
| Ninghai Hydro Plant, 70 mWc             | China                     | Fabricated submerged discharge valve                           | Orbinox   | DN2000                                                    |
| Jubilee Reservoir, 92 mWc               | China (Hong Kong)         | Fabricated fixed cone discharge valves                         | Orbinox   | DN450                                                     |
| HYDRO XACBAL DELTA PROJECT, 200 mWc     | Guatemala                 | Bonneted gates                                                 | Orbinox   | 1650x2075mm                                               |
| PRESA DE COYOLAR, 90 mWc                | Honduras<br>(Tegucigalpa) | Fabricated fixed cone discharge valve                          | Orbinox   | DN600                                                     |
| KHATIMA, 25 mWc                         | India                     | Fabricated fixed cone discharge valve                          | Orbinox   | DN2050                                                    |
| Lower Copili Hydro Power Plant, 100 mWc | India                     | Fabricated fixed cone discharge valve                          | Orbinox   | DN1000                                                    |
| Madupatty Dam                           | India                     | Fixed cone discharge valves                                    | Glenfield | DN1200                                                    |
| Wilson Dam                              | India                     | Fixed cone discharge valves                                    | Glenfield | DN900                                                     |
| Semantok Dam, 58 mWc                    | Indonesia                 | Fabricated fixed cone discharge valve                          | Orbinox   | DN450                                                     |

| Site                                         | Country     | Products                                                                             | Brand                  | Size                              |
|----------------------------------------------|-------------|--------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Paselloreng Dam, 45 mWc                      | Indonesia   | Fabricated fixed cone discharge valves                                               | Orbinox                | DN600                             |
| TIGA DIHAJI, 111 mWc                         | Indonesia   | Bonneted gates<br>Fabricated fixed cone discharge valve                              | Orbinox                | 2100x3000mm<br>DN2500             |
| Aydogmoosh Dam                               | Iran        | Fixed cone discharge valves                                                          | Glenfield              | DN400, DN450, DN1200              |
| Gheighaj Dam                                 | Iran        | Submerged discharge valves<br>Fixed cone discharge valves                            | Glenfield              | DN600/450<br>DN1000               |
| Sanegerd Dam                                 | Iran        | Submerged discharge valves                                                           | Glenfield              | DN800/600                         |
| Tangab Dam                                   | Iran        | Submerged discharge valves                                                           | Glenfield              | DN1000/800                        |
| Vanyar Dam                                   | Iran        | Fixed cone discharge valves                                                          | Glenfield              | DN1200                            |
| Presa Agh Chay, 95 mWc                       | Iran        | Fabricated fixed cone discharge valves                                               | Orbinox                | DN600, DN800, DN1000              |
| Xayaburi Hydroelectric Power Project, 60 mWc | Laos        | Fabricated knife gate valve                                                          | Orbinox                | DN700                             |
| Pedu Dam                                     | Malaysia    | Fixed cone discharge valves                                                          | Glenfield              | DN2200                            |
| Jus Dam                                      | Malaysia    | Fixed cone discharge valves                                                          | Glenfield              | DN300, DN400, DN1000              |
| Chereh Dam                                   | Malaysia    | Fixed cone discharge valves                                                          | Glenfield              | DN1200                            |
| Sungai Selangor                              | Malaysia    | Fixed cone discharge valves                                                          | Glenfield              | DN1400                            |
| Linggu Dam                                   | Malaysia    | Fixed cone discharge valves                                                          | Glenfield              | DN1400                            |
| Kargu Dam                                    | Malaysia    | Submerged discharge valves                                                           | Glenfield              | DN300/300, DN1000/800             |
| Presa de Pílares                             | Mexico      | Fabricated fixed cone discharge valve                                                | Orbinox                | DN1000                            |
| Presa El Granero, 105 mWc                    | Mexico      | Fabricated fixed cone discharge valve                                                | Orbinox                | DN1350                            |
| Aqueduct Rio Colorado                        | Mexico      | Gate valves                                                                          | Glenfield              | DN1200, DN1800                    |
| Cosseys Dam                                  | New Zealand | Submerged discharge valves                                                           | Glenfield              | DN400/400, DN900                  |
| Wairoa Dam                                   | New Zealand | Submerged discharge valves                                                           | Glenfield              | DN600                             |
| Mangatangi Dam                               | New Zealand | Submerged discharge valves                                                           | Glenfield              | DN600                             |
| Opuha Dam, 50 mWc                            | New Zealand | Fabricated fixed cone discharge valve<br>Fabricated knife gate valve                 | Orbinox                | DN1800<br>DN1800                  |
| Barrigon Dam                                 | Panama      | Fixed cone discharge valves                                                          | Glenfield              | DN400                             |
| Chiriqui Dam                                 | Panama      | Fixed cone discharge valves                                                          | Glenfield              | DN700                             |
| C.H. PLANETAS II, 50 mWc, power station      | Panama      | Fabricated butterfly valves<br>Fabricated knife gate valves<br>Cast knife gate valve | Orbinox                | DN1600<br>DN1600, DN1500<br>DN600 |
| C.H. Pizarras, 160 mWc, power station        | Peru        | Fabricated butterfly valves                                                          | Orbinox                | DN1500                            |
| Angat Dam, 150 mWc                           | Philippines | Bonneted gate<br>Fixed cone discharge valves                                         | Orbinox<br>Glenfield   | DN1400<br>DN1200, DN1400          |
| Guajataca Dam, 23 mWc                        | Puerto Rico | Fabricated fixed cone discharge valve                                                | Orbinox                | DN900                             |
| Kotemale Dam                                 | Sri Lanka   | Fixed cone discharge valves<br>Submerged discharge valves                            | Glenfield<br>Glenfield | DN300<br>DN200/200                |
| Lat Phrao Dam                                | Thailand    | Submerged discharge valves                                                           | Glenfield              | DN600/600                         |
| Khor Fakkan Dam                              | UAE         | Submerged discharge valves                                                           | Glenfield              | DN200/200                         |
| Shobaisi Dam                                 | UAE         | Submerged discharge valves                                                           | Glenfield              | DN400/300                         |
| SUMMERSVILLE DAM, 107 mWc                    | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | DN2700                            |
| New Slab Creek Part 2, 50 mWc                | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | DN1500                            |
| Box Canyon Dam, 15,7 mWc                     | USA         | Stop gates<br>Penstock                                                               | Orbinox                | 1676x6172mm<br>1981x1524mm        |
| Gene Wash, 32 mWc                            | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | 42"                               |
| Copper Basin, 49 mWc                         | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | 54"                               |
| Caneadeam Dam - Rushford Lake, 60 mWc        | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | 54"                               |
| Santa Anita Dam, 100 mWc                     | USA         | Fabricated knife gate valves                                                         | Orbinox                | 20", 30"                          |
| Homestake Reservoir, 97 mWc                  | USA         | Fabricated fixed cone discharge valve                                                | Orbinox                | 54"                               |
| Rio Grande Dam, 41 mWc                       | USA         | Fabricated fixed cone discharge valves                                               | Orbinox                | 36", 84"                          |



| Site                                                     | Country   | Products                                        | Brand                  | Size                  |
|----------------------------------------------------------|-----------|-------------------------------------------------|------------------------|-----------------------|
| Westminster, 117 mWc                                     | USA       | Fabricated knife gate valve                     | Orbinox                | 48"                   |
| Cle Elum Dam, 41 mWc                                     | USA       | Bonneted gate                                   | Orbinox                | 84"x84"               |
| Santa Ana (San Bernardino Valley), 67 mWc                | USA       | Fabricated fixed cone discharge valves          | Orbinox                | 12", 30"              |
| Tolt Dam, 48 mWc                                         | USA       | Fabricated fixed cone discharge valve           | Orbinox                | 48"                   |
| NYC DEP BT-2, 358 mWc, 510 mWc                           | USA       | Fabricated knife gate valves                    | Orbinox                | 18", 20"              |
| Culmbach Dam, 67 mWc                                     | USA       | Fabricated fixed cone discharge valve           | Orbinox                | DN1200                |
| Duke Energy (Robinson Spillway Discharge Valves), 28 mWc | USA       | Fabricated fixed cone discharge valve           | Orbinox                | DN900                 |
| Summersville Pt. 2, 70 mWc                               | USA       | Fabricated fixed cone discharge valves          | Orbinox                | DN2650, DN750         |
| Dillon Reservoir, 73 mWc                                 | USA       | Fabricated fixed cone discharge valve           | Orbinox                | DN750                 |
| City Creek, 152 mWc                                      | USA       | Fabricated fixed cone discharge valve           | Orbinox                | DN450                 |
| Humboldt, 112 mWc, power station                         | USA       | Fabricated knife gate valve                     | Orbinox                | DN1200                |
| Citrus Reservoir                                         | USA       | Submerged discharge valves                      | Glenfield              | DN450/400, DN1000/800 |
| Ocumarito Dam                                            | Venezuela | Fixed cone discharge valves<br>Butterfly valves | Glenfield<br>Glenfield | DN2300<br>DN2100      |

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