

## Gas Measurement Products

# Orifice Meters Reference List

MeasureMaster Dual Chamber  
and OrificeMaster Single  
Chamber Fittings



| YEAR      | CLIENT                 | PROJECT                         | DESCRIPTION  | DESTINATION          |        |
|-----------|------------------------|---------------------------------|--|----------------------|--------|
| 2010      | Elster Instromet       | Epetco Skid                     | 3" 300 lb Meter Run  | Saudi Arabia         |        |
|           | SK Engineering         | Bab Gas Compression             | Orifice Plates   | UAE                  |        |
|           | Petrofac               | EPC for ASAB FFD proj.          | Orifice Flow Assemblies & Restriction Plates                               | UAE                  |        |
|           | Weiss                  | Plynostav                       | 13 off 6" 1500 lb O/M's  | Czech Rep.           |        |
|           | Larsen & Toubro        | MHN-RD                          | 34 off 2" 900 lb M/M   | India                |        |
|           | Larsen & Toubro        | MHN                             | 6", 10", 12" & 24" M/M's   | India                |        |
|           | NPCC                   | MH South Dev Phase II           | 16 off 2" 900 lb M/M's   | India                |        |
|           | NPCC                   | B-22 Field Dev                  | Various M/M's & 16" Duplex Meter Run c/w Gas Chromatograph & Flow Computer | India                |        |
|           | ODS                    | Tupi Pilot 2                    | 12" 300 lb M/M in Duplex   | Brazil               |        |
|           | Krohne                 | OML 58 Upgrade                  | 2 off 20" 900 lb M/M Meter Runs  | Nigeria              |        |
|           | 2009                   | Weiss                           | Lurgi Project  | M/M's in S/S         | Canada |
|           |                        | Teekay                          | Unknown  | 10" 300 M/M in S/S   | Norway |
|           |                        | Gulf Commercial                 | Unknown  | 4" & 6" M/M's in S/S | UAE    |
|           |                        | Skywell                         | Jinzhou-25   | Various M/M's in S/S | China  |
| Perenco   |                        | Bacton Terminal                 | 6" & 12" M/M's   | UK                   |        |
| Ruain     |                        | Unknown                         | 16 off 6" 2500 O/M's   | Yemen                |        |
| Ruain     |                        | Unknown                         | 4" & 6" 1500 lb O/M  | Yemen                |        |
| Ruain     |                        | Unknown                         | 6" 2500 lb Meter Runs  | Yemen                |        |
| Alderley  |                        | Ninian Field                    | 4" 900 lb M/M  | UK                   |        |
| ODS       |                        | Deep Panuke PFC                 | Various M/M's in S/S, Duplex & Super Duplex                                | Brazil               |        |
| Gastech   |                        | NQD & ICP Platform              | 2", 6" & 18" M/M's   | India                |        |
| OMV       |                        | Wag II                          | 28" 600 lb O/M   | Austria              |        |
| Alderley  |                        | JGP Upgrade                     | 20" 300 lb O/M   | UAE                  |        |
| BP        |                        | Seven Seas Centrica             | 6" Duplex Meter Run & Transmitters   | UK                   |        |
| Fiscal    | Pierce North Chalk Dev | 2 off 8" 300 lb M/M Meter Runs  | UK   |                      |        |
| Oil & Gas | BP Aurora              | 4 off 3" 1500 lb O/M Meter Runs | UK   |                      |        |

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|------|-------------------------|-----------------------------|---|-------------|
|      | Fiogaz                  | Botas Project               | 6" 600 lb M/M   | Turkey      |
|      | Skywell                 | JZ-25                       | 4" & 6" M/M's   | China       |
|      | IDC                     | Bab Field Prod.Facilities   | OFU's & Orifice Plates  | UAE         |
|      | Stroy Gaz               | Taweelah Fuigirah Gas Proj. | Orifice Plates  | UAE         |
|      | ODS                     | MV22 Tupi                   | Various M/M's in Carbon, S/S,<br>Duplex & Super Duplex  | Brazil      |
|      | ODS                     | FPSO Jubilee                | 2", 6" & 10" M/M's  | Ghana       |
| 2008 | Perenco                 | Leman Offshore              | 1 off 30" 600 lb OrificeMaster  | UK          |
|      | Statoil/KOS             | Morvind                     | 2" 4500 OrificeMaster in 6Mo  | Norway      |
|      | Vizir/BP                | Shah Deniz                  | 4" 300 lb Meter Run   | Azerbaijan  |
|      | Petrobras/KOS           | Tupi                        | 4" M/M Meter Runs & 12" M/M<br>Meter Run Duplex   | Brazil      |
|      | ONGC/Larsen & Toubro    | MHSRP-II                    | 24 off 2" 900 lb M/M  | India       |
|      | Repco                   | Gas power station           | 18" 300 lb O/M & 8" 300 lb O/M<br>in S/S  | Nigeria     |
|      | Technip                 | Yemen LNG Upstream          | Restriction Orifice Plates  | Yemen       |
|      | Seiko/Weiss             | Praxair - California        | 8" 600 lb OrificeMasters  | Austria/USA |
|      | Hess/Binaguna           | Bakrie                      | 16" 900 lb MeasureMaster  | Indonesia   |
|      | Fortune/Gulf Commercial | -                           | 6" 3500 lb MeasureMaster  | UAE         |
| 2007 | Gusto                   | FPSO Saxi Batuque           | 2" - 18" MeasureMasters and<br>OFU's, C/S, S/S and Duplex                                     | Angola      |
|      | Socrates                | -                           | 20" ANSI 600 MeasureMasters   | Italy       |
|      | CNOOC                   | Ledong                      | 2", 8", 10", 14", 18" OrificeMasters<br>and MeasureMasters C/S, Duplex<br>and Aluminum Bronze | China       |
|      | Chevron/Petrobras       | Frade FPSO                  | 4" - 18" OrificeMasters and<br>MeasureMasters   | Brazil      |
|      | ODS/SBM                 | FPSO BC-10 Tamba BV         | 6", 8", 10" OrificeMasters and<br>MeasureMasters  | Brazil      |
|      | Oval/Modec              | FPSO Cidade Niteroc         | 3" 1500, 6" 1500, 4", 16" 18", 24"<br>MeasureMasters  | Brazil      |

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|------|-----------------------|--|--|----------------|
|      | ODS/SBM               | FPSO Frade   | Various OrificeMasters and MeasureMasters in Duplex C/S and S/S    | Brazil         |
|      | Krohne/Shell          | Gbaran   | 20" 900 lb Meter Runs  | Nigeria        |
|      | Alderley/BP           | Onshore Compression and Terminal Rationalization Project | 4", 20", 24" MeasureMasters  | UK             |
|      | Skeltonhall           | G24 Pipeline Rzew Azq Terminal                           | 24" MeasureMaster Meter Runs                                       | Algeria        |
|      | Petrogas/E-ON         | Waidhaus and Gernsheim                                   | 20" 600 lb OrificeMasters  | Germany        |
|      | Gulf Equipment/Aramco | Safaniya Water Disposal System                           | 8 off 20" Orifice Flange Union Asys.                               | Saudi Arabia   |
|      | Adgas                 | Apadazari  | 1 off 10" and 3 off 20" M/M Meter Runs                             | Turkey         |
| 2006 | GUPCO                 | -  | 10" ANSI 600 MeasureMasters + Meter Tubes                          | Egypt          |
|      | BP/AICO               | Shah Deniz   | 4" ANSI 600 Stainless Steel MeasureMaster + Meter Tubes            | Azerbaijan     |
|      | Bluewater             | Ettrick FPSO   | 4" - 8" ANSI 600 Duplex OrificeMaster and MeasureMasters           | United Kingdom |
|      | Exxonmobil            | Kizomba "C"  | 6", 8", 10", 12" MeasureMasters                                    | Angola         |
|      | Shell Nigeria         | Okoloma Gas Plant  | 12", 16" ANSI 600 MeasureMasters                                   | Nigeria        |
|      | ARAMCO                | Jubail Ethane Pipeline Expansion                         | 30" and 38" ANSI 600 MeasureMasters + Meter Tubes                  | Saudi Arabia   |
|      | Marubeni              | Sapele Fuel Gas  | 8", 14", 16" OrificeMasters  | Nigeria        |
|      | ONGC                  | Vasai East   | 2" and 20" Duplex and Inconel MeasureMasters with OFU's and plates | India          |
|      | Integrotech           | Europoglas   | 4" ANSI 300 OrificeMasters   | Poland         |
|      | OMV                   | WAG 600  | 20" ANSI 600 OrificeMasters  | Austria        |
|      | ConocoPhillips        | North Belut  | 20" and 24" ANSI 300 Duplex MeasureMasters                         | Indonesia      |

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|--------------|-----------------|--------------------------|--|--|----------|
| 2005         | ARAMCO          | Rabigh                   | 16" ANSI 900 MeasureMasters            | Saudi Arabia                           |          |
|              | MOL             | Nemesbikk                | 16" and 28" MeasureMaster Meter Runs   | Hungary                                |          |
|              | ODS             | Ju'myah and Ras Tanura   | 8", 12", 16" OrificeMasters            | Saudi Arabia                           |          |
|              | TMA-Joy         | Bajiaoting               | 4" & 6" MeasureMaster Meter Tubes      | China                                  |          |
|              | ODS             | Kikeh FPSO               | 10" ANSI 2500 OrificeMasters           | Malaysia                               |          |
|              | Progetti Europa | Various Pumping Stations | 8" - 20" OrificeMasters                | Egypt                                  |          |
|              | Esso            | Ringhorne                | 3" OrificeMasters                      | Norway                                 |          |
|              | CTCI            | KTD Meter Station        | 20" MeasureMaster Meter Tubes          | Taiwan                                 |          |
|              | Kangean         | EMP                      | 12" ANSI 900 MeasureMasters            | Indonesia                              |          |
|              | Husky/PVF       | White Rose FPSO          | 10" MeasureMasters-Duplex              | Canada                                 |          |
|              | Devon Energy    | -                        | 12" MeasureMasters                     | China                                  |          |
|              | Gaz de France   | G-16a Platform           | OrificeMaster Meter Tubes              | Netherlands                            |          |
|              | Total E+P       | Pacicek Well             | 6", 8" ANSI 2500 Orifice Flange Unions | Indonesia                              |          |
|              | PTT             | TTP                      | 6", 24", 30" MeasureMasters            | Thailand                               |          |
|              | Shell           | Soku                     | 24" MeasureMasters                     | Nigeria                                |          |
|              | Sui Southern    | Gas Distribution         | 16", 18" Orifice Flange Unions         | Pakistan                               |          |
|              | Gaz de France   | G17d Platform            | 6" OrificeMaster Meter Tubes           | Netherlands                            |          |
|              | 2004            | Exxonmobil/Hyundai       | Kizomba "B"                            | MeasureMasters & Orifice Flange Unions | Angola   |
|              |                 | HL Engineering           | Guntong "E"                            | MeasureMasters                         | Malaysia |
| Sui Northern |                 | Gas Distribution         | OrificeMaster Meter Tubes              | Pakistan                               |          |
| BP           |                 | In Amenas                | 12" MeasureMasters                     | Algeria                                |          |
| Sui Southern |                 | Gas Distribution         | 10" + 12" OrificeMaster Meter Tubes    | Pakistan                               |          |
| ONGC/HHI     |                 | MSP Project              | 3", 4", 16" MeasureMasters             | India                                  |          |

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|------|----------------------|------------------------------|---|----------------|
|      | Gaz de France        | K2BA Platform                | Restriction Plates & Orifice Flange Unions              | Netherlands    |
| 2003 | Exxonmobil/Hyundai   | Kizomba "A"                  | MeasureMasters & Orifice Flange Unions                  | Angola         |
|      | Saudi Aramco         | Yanbu                        | 30" MeasureMaster                                       | Saudi Arabia   |
|      | Nuovo Pignone        | NGL Port Said                | 16", 20" MeasureMasters                                 | Egypt          |
|      | ONGC                 | N-9/N-10                     | 2", 4", 6" MeasureMasters                               | India          |
|      | QP/SMOE              | QPQL ISND Phase 2            | MeasureMasters/Orifice Flanges/<br>Restriction Orifices | Qatar          |
|      | QP                   | PWI - Phase 6                | Orifice Flange Meter Runs                               | Qatar          |
|      | Saipem               | NAOC NLNG 3                  | 4" - 14" MeasureMasters &<br>Restriction Orifices       | Nigeria        |
|      | MOL                  | -                            | 20" OrificeMasters                                      | Hungary        |
|      | Single Buoy Moorings | Marlim Sul FPSO              | 8" - 16" OrificeMasters                                 | Brazil         |
|      | Hyundai              | Huizhou                      | 6" Orifice Flanges                                      | China          |
|      | Unocal               | Clyde Tie-In                 | 6" OrificeMasters                                       | Holland        |
|      | Unocal               | Saturn                       | 20" MeasureMaster Meter Runs                            | Thailand       |
|      | Transco              | Warden Law                   | 10" OrificeMasters                                      | United Kingdom |
|      | Yokagawa             | Suband CO2 Removal           | 16" MeasureMaster Meter Tubes                           | Indonesia      |
|      | Toyo Engineering     | Taubate/Japeri               | 16" OrificeMasters                                      | Brazil         |
|      | Sui Southern         | Khadeji Pipeline             | 18" OrificeMaster Meter Tubes                           | Pakistan       |
|      | Murphy Pipelines     | Bacton - Kings Lynn Pipeline | 36" Orifice Flange Assemblies                           | U.K.           |
|      | Haland               | -                            | 8" ANSI 2500 OrificeMasters                             | Norway         |
| 2002 | Global Process       | Angsi Phase 3                | Monel Restriction Orifice Plates                        | Malaysia       |
|      | Bhatia Brothers      | -                            | 10" Orifice Flanges                                     | U.A.E.         |
|      | Toyo Engineering     | AZPL                         | 16" MeasureMasters                                      | Azerbaijan     |
|      | Oil and Gas Systems  | Yanbu Fuel Gas               | 6" Orifice Flange Meter Tubes                           | Saudi Arabia   |
|      | Conoco               | Belanak                      | 14" MeasureMaster Meter Tubes                           | Indonesia      |
|      | Shell                | CCGP Project                 | 16" MeasureMasters                                      | Nigeria        |
|      | Frontier Drilling    | Seillan                      | 8" MeasureMaster Meter Tubes                            | Norway         |

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|------|-----------------------|-----------------------------------|---|-------------|
|      | SMOE                  | Panyu                             | 8", 10", 12" Orifice Flange Assemblies & Restriction Orifice Plates | Singapore   |
|      | Saipem                | NLNG Phase 3                      | 3" - 18" Orifice Flange Assemblies                                  | Nigeria     |
|      | McDermott Pte Ltd     | Belanak                           | 2", 3", 4", 6" MeasureMasters & Orifice Flanges                     | Indonesia   |
|      | Total Indonesia       | Peciko Phase 4                    | 6", 8" ANSI 2500 Orifice Flange Assemblies                          | Indonesia   |
|      | Yokagawa              | Ashuganj                          | 6" MeasureMaster Meter Tubes  | Bangladesh  |
|      | Sigma Technik         | -                                 | 24" MeasureMasters  | Austria     |
|      | Sylhet Gas Fields Ltd | -                                 | 6" MeasureMasters   | Bangladesh  |
|      | Sui Southern          | -                                 | 20" Orifice Flange Assemblies                                       | Pakistan    |
|      | Tormene               | Stavropolskia                     | 20" OrificeMaster Meter Tubes                                       | Russia      |
|      | Hyundai               | West Seno                         | 12" ANSI 1500 MeasureMasters  | Indonesia   |
|      | PT Bac                | -                                 | 10" MeasureMasters  | Indonesia   |
|      | Hyundai               | West Seno                         | 3" - 16" Orifice Flange Assemblies                                  | Indonesia   |
|      | Instromet             | Titas Gas                         | 12" OrificeMaster Meter Tubes                                       | Bangladesh  |
|      | Solartron ISA         | Helang Topsides                   | 12" - 18" MeasureMasters & OrificeMasters                           | Malaysia    |
| 2001 | LASMO                 | BHIT                              | 8", 16" MeasureMasters  | Pakistan    |
|      | Alderley              | Bonga                             | 8", 12" ANSI 1500 MeasureMasters                                    | Nigeria     |
|      | Alderley              | Helang                            | 12" MeasureMasters  | Malaysia    |
|      | Alderley              | Roncador                          | 8" ANSI 1500 MeasureMasters   | Brazil      |
|      | Hyundai               | Lakshmi                           | 6" MeasureMasters   | India       |
|      | Alsthom Italia        | Ras Abu Fontas                    | 18" MeasureMasters  | Qatar       |
|      | Black Cat             | Dukhan Flare Upgrade              | 30" MeasureMaster Meter Tube  | Qatar       |
|      | Instromet             | Izmir M+R Station                 | 14" MeasureMasters  | Turkey      |
|      | Tormene               | Jebel Ali Power and De-salination | 4" and 16" MeasureMasters   | U.A.E.      |
|      | IGA                   | -                                 | 16" MeasureMaster Meter Tubes complete with Flow Computers          | U.K.        |

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|------|---------------------------------|---------------------------------------|---|--------------|
|      | PGNIG                           | Yamal                                 | 6", 8" OrificeMaster Meter Tubes                  | Poland       |
|      | Nuovo Pignone                   | Samsun RMG                            | 20" MeasureMaster Meter Tubes                     | Turkey       |
|      | T+T                             | 7 Station Upgrade                     | 8", 20" MeasureMasters                            | Egypt        |
|      | Hyundai                         | Natuna                                | 4" MeasureMaster Meter Tubes                      | Indonesia    |
|      | Yokagawa                        | -                                     | 12" MeasureMaster Meter Tubes                     | Singapore    |
|      | Transco                         | Bathgate Compressor Station           | 4", 6" OrificeMasters and<br>Restriction Orifices | U.K.         |
|      | Haland                          | -                                     | 8" 10000 psi OrificeMasters                       | Norway       |
|      | Instromet                       | Adapazari/Gebze                       | 10", 14" MeasureMasters                           | Georgia      |
| 2000 | Kongsberg Offshore              | Smolenskaya                           | 24" OrificeMasters                                | Russia       |
|      | Nuovo Pignone                   | Blue Stream                           | 20" OrificeMasters                                | Russia       |
|      | Rosetti Marino                  | Ampa Fairley                          | 2" - 10" Orifice Flange Assemblies                | Brunei       |
|      | Nuovo Pignone                   | AMOC M+R Station                      | 6" - 20" MeasureMasters                           | Egypt        |
|      | Gazoprojekt                     | Lwowek                                | 3" OrificeMaster Meter Tubes                      | Poland       |
|      | Haland                          | -                                     | 8" 10000 psi OrificeMasters                       | Norway       |
|      | Techint                         | Hawiyah                               | 2" - 24" Orifice Flange Assemblies                | Saudi Arabia |
|      | T+T                             | Suez DMS                              | 3" - 20" MeasureMasters                           | Egypt        |
|      | Instromet                       | Lavrion                               | 8", 10" OrificeMaster Meter<br>Tubes              | Greece       |
|      | Ruhrigas                        | -                                     | 16", 20" OrificeMasters                           | Hungary      |
| 1999 | MOL                             | Mosonmagyarovar Compressor<br>Station | 20" OrificeMasters                                | Hungary      |
|      | SPIE                            | Odidi                                 | 2" - 4" Restriction Orifice Flanges               | Nigeria      |
|      | Brown and Root Singapore<br>Pte | Malampaya                             | 3" - 18" Orifice Flange Assemblies                | Philippines  |
|      | Common                          | -                                     | 3" OrificeMaster Meter Tubes                      | Poland       |
|      | Jordan Kent                     | Deep Jusepin                          | 10" OrificeMasters                                | Venezuela    |
|      | Murphy Pipelines                | Bacton - Kings Lynn Pipeline          | 36" Orifice Flange Assemblies                     | U.K.         |

Note: This report is a partial list of a much larger installed base.

## Gas Measurement Products

# Venturi Meters Reference List



Venturi Tube

| YEAR | CLIENT                          | PROJECT                    | DESCRIPTION   | DESTINATION  |
|------|---------------------------------|----------------------------|---|--------------|
| 2010 | Dodsal                          | Qarn Alarm                 | 14", 18" & 24" Venturis                             | Oman         |
| 2009 | Al Hassain                      | Burhan West & Harmal Proj. | 4 off 8" Duplex Venturis                            | Oman         |
|      | OOISS                           | Marmul Project             | 18" & 24" Venturis                                  | Oman         |
|      | BP                              | Seven Seas Centrica        | 6" Duplex Venturi Meter Run & Transmitters          | UK           |
| 2008 | Solar Turbines/Shell            | -                          | 30" Venturi Tube                                    | Oman         |
| 2007 | Snamprogetti                    | Khurais Crude Contract     | 41 off Venturis 16" to 42"                          | Saudi Arabia |
|      | SNC Lavalin                     | Shaybah Central            | 17 off Venturis 10" to 30"                          | Saudi Arabia |
|      | CCC/KGOC                        | Khafji Field Development   | 4 off Venturis 12" to 42"                           | Saudi Arabia |
| 2006 | Snamprogetti                    | Kursiniyah                 | 28" - 60" Venturis                                  | Saudi Arabia |
|      | Deska Imex                      | Kazagnorgsintez            | 30" Venturi   | Russia       |
|      | PDO                             | -                          | 6" ANSI 900 Duplex Venturis                         | Oman         |
| 2005 | CLJOC                           | -                          | 6" ANSI 1500 Venturis                               | Vietnam      |
| 2003 | Riyadh Refinery Sulfur Recovery | Saudi Aramco/Technip       | 4" - 14" Carbon Steel Venturis and Flow Nozzles     | Saudi Arabia |
|      | Qatif                           | Saudi Aramco               | 8" - 56" Carbon Steel Venturis                      | Saudi Arabia |
| 2002 | Haradh - GOSP II                | Saudi Aramco               | 10", 12", 16", 20", 24" Carbon Steel Venturis       | Saudi Arabia |
|      | Barik                           | PDO                        | 6" Carbon Steel Venturis                            | Oman         |
| 2001 | -                               | PDO                        | 6" Carbon Steel Venturis                            | Oman         |
|      | Khuff Gas                       | Saudi Aramco               | 8" Stainless Steel Venturis                         | Saudi Arabia |
|      | Khuff Gas                       | Saudi Aramco               | 8" 6 Moly Stainless Steel Venturis                  | Saudi Arabia |
| 2000 | Khuff Gas                       | Saudi Aramco               | 8" 6 Moly Stainless Steel Venturis                  | Saudi Arabia |
|      | LNG Upstream                    | PDO                        | 6" Duplex Venturis                                  | Oman         |
| 1999 | Khuff Gas                       | Saudi Aramco               | 8" 6 Moly Stainless Steel Venturis                  | Saudi Arabia |
| 1998 | Khuff Gas                       | Saudi Aramco               | 8" 6 Moly Stainless Steel Venturis                  | Saudi Arabia |
|      | LNG Upstream                    | PDO                        | 12", 14", 18", 28" Carbon Steel and Duplex Venturis | Oman         |
| 1997 | LNG Upstream                    | PDO                        | 6" Duplex Venturis                                  | Oman         |
|      | Shaybah                         | Saudi Aramco               | 10", 14", 16", 20", 24", 30" Carbon Steel Venturis  | Saudi Arabia |