



DLM

VALVES | FLOW | INSTRUMENTATION

**PRODUCT
OVERVIEW**



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DUPLEIX LIQUID METERS (PTY) LTD

With over 60 years' of experience, Duplex Liquid Meters (DLM) offers expert advice on a comprehensive range of products. It is renowned for providing the right solutions for overpressure protection; flow, level and density measurement; automation and control requirements.

DLM maintains a substantial stock holding and has a branch infrastructure capable of providing skilled technical and sales service. DLM's products are either locally manufactured or distributed in terms of license agreements with overseas suppliers. We have in-house technicians to service products, an engineering team that is capable of delivering small projects as well as a workshop and test facility. The company is ready to offer its customers the knowledge and support they require. DLM has three divisions, namely Valves, Flow and Instrumentation.

VALVES



DLM's extensive range covers all operating types and is available in a wide variety of materials to suit different media, pressure and temperature requirements. It is one of Southern Africa's leading suppliers of valves, pneumatic actuators and accessories as well as instrument valves and fittings for severe service applications in the mining industry.

FLOW



DLM's Flow division focuses on the Southern African petrochemical market for accurate measurement and control of fuel. It delivers a technologically superior range of products and solutions that are sourced both locally and internationally to meet the demanding liquid custody transfer applications for fuel distribution, rail and road transport. Terminal Automation and Reconciliation Software is also offered.

INSTRUMENTATION



DLM's Instrumentation division focuses on industrial and process field instrumentation for flow, level, temperature and pressure measurement as well as specialized instruments for moisture analysis and control. Refractometers for concentration measurement and interface detection and a full range of boiler control equipment.

OUR MAIN INDUSTRIES



Factories



Marine



Oil and Gas



Paper and Pulp



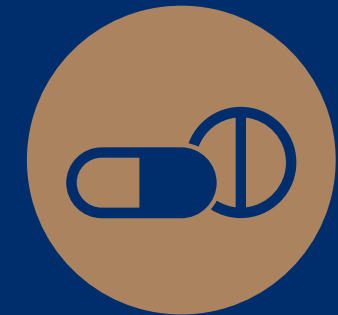
**Sugar and
Sugar Refinery**



**Water and
Waste Water**



**Food And Beverage
Plants**



Pharmaceutical



Power Generation



Silo & Dry Bulk

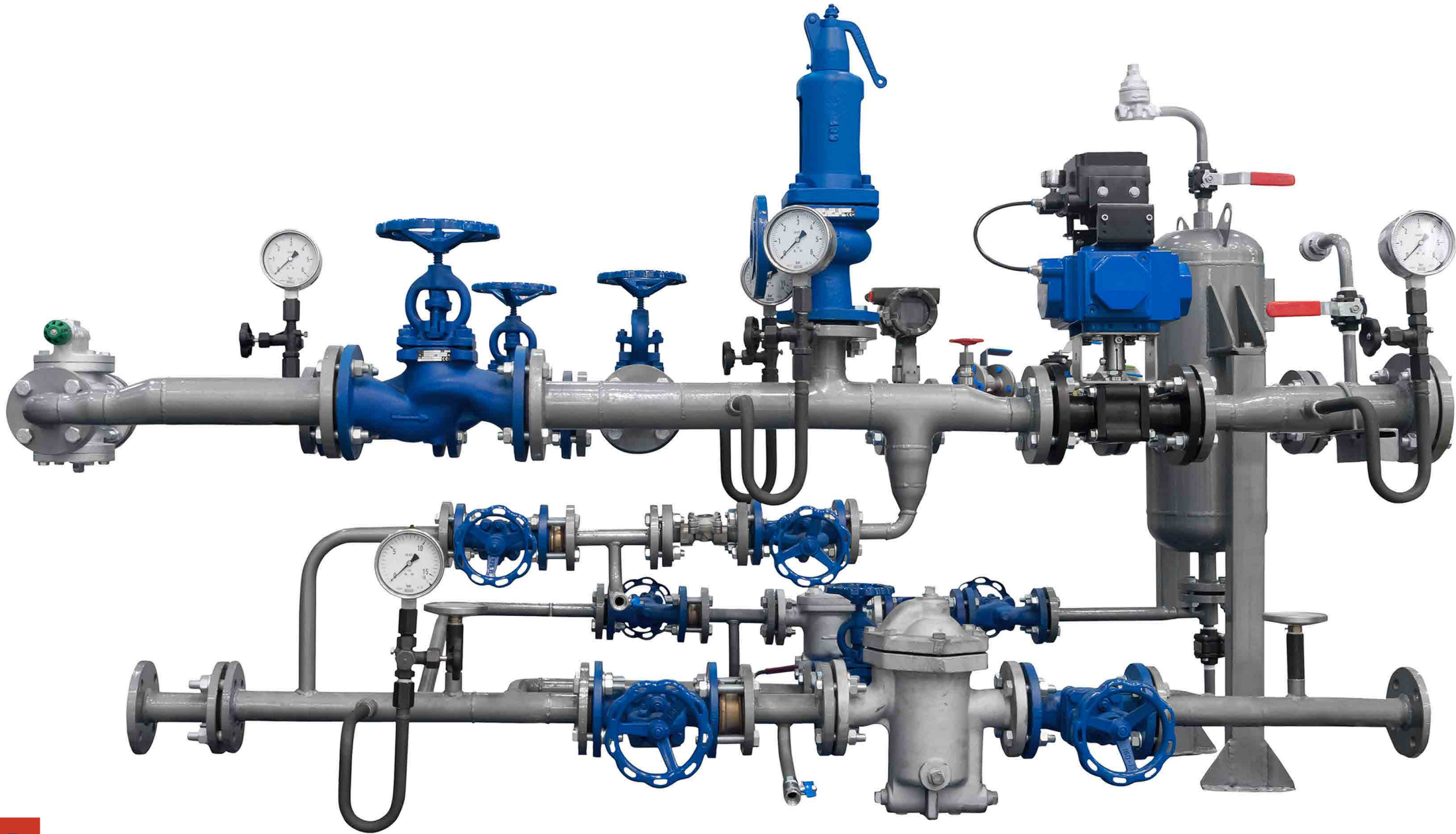


Mining



Petrochemical

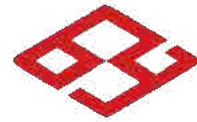
VALVES





Honeywell

Braukmann



BAOYI VALVES



Engineering For The Future



MOGAS®

Birkett



DLM



Corflex Engineering (Pty) Ltd

PRATT

Henry Pratt Company



Bailey



Marston



The Peter Smith Valve Company Ltd

Amal



The connection you can trust.

Marvac



Amal

FLAME ARRESTERS

Amal specialise in the design, specification and manufacturing of Flame Arresters. These metal flame arresters are safety devices designed to stop the propagation and spread of flames through flammable gases or vapour mixtures in pipelines.



In-Line Deflagration



In-Line Detonation



End-of-Line
Deflagration

G4 PILOT PRESSURE REDUCING VALVES

Pilot operated valves provide very close accuracy of pressure control, and due to their high flow rates, pilot valves will often be smaller than the comparable direct acting valve.



2046



2045



2044



2043



2042



Low Pressure Top

DA SERIES PRESSURE REDUCING VALVES

In a direct acting pressure reducing valve, the controlled pressure acts directly through a diaphragm or piston on an imposing force from a compressed helical spring. The construction is simple and robust.



Class T



Class TH



C10



EMERSON™

Bailey

SAFETY & REGULATING VALVES

700 SERIES SAFETY RELIEF VALVES

Safety relief valves should be used on any closed vessel or system in which pressure, other than atmospheric or the design pressure, of the system can be exceeded.



707



716



716H



716T



746



756



766



776



480



485



490



616D

480/485/490 RELIEF AND 616D SAFETY VALVES

Birkett

SAFETY RELIEF VALVES

For more than 100 years Birkett safety relief valves have been installed to protect process plant and equipment from the potentially disastrous effects of exceeding a design pressure.

Birkett offers a range of safety valves to suit most application requirements.



WB Series



Safeflo



Safeset



Marvac

TANK PROTECTION VALVES

Marvac manufacture an extensive range of products to protect low pressure storage tanks and vessels. These products help to prevent damage to the tank and also prevent the tank vapours from escaping, ensuring the safety of personnel and the surrounding environment.



Pressure/Vacuum Relief Valves



Pilot Operated Relief Valves



Tank Blanketing Valves



Emergency Vent Manway and Gauge Hatch



Marston

BURSTING DISCS

A complete range of non-reclosing pressure relief devices, from simple conventional designs through composite assemblies to top-of-the-range reverse buckling discs.



Forward Acting



Reverse Buckling



Flat



BAOYI VALVES

GATE, GLOBE AND CHECK VALVES

Baoyi manufactures a full range of high quality API gate, globe, ball and check valves.



Gate Valves



Globe Valves



Swing Check Valves



Double Door Check Valves



Fire Safe Ball Valves



DIN Spec Globe Valves

FIRE SAFE VALVES

Buracco are a renowned valve manufacturer that produce a range of fire safe tank storage check valves as well as double and tripple offset butterfly valves



8000 Series



7000 Series



6000 Series



5000 Series

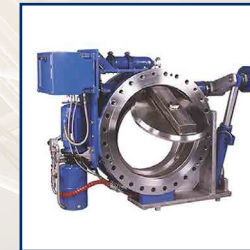
CHECK VALVES



Dauphin Series



Separfeu Series



CLA Series



CAR Series

Corflex Engineering (Pty) Ltd

PINCH VALVES

These valves are designed for abrasive and corrosive slurry applications for high and low pressures. All Corflex pinch valves are flanged.



Pinch Valves



Nippit Pinch Valves



CAST AND STAINLESS STEEL RANGE

DLM's Cast and Stainless Steel Range of valves are used on general purpose applications across most market segments.



Y-Strainers



3-Way Ball Valves



Disc Check Valves



Screwed 3 Way Ball Valves



3 Piece Screwed Ball Valves



1 Piece Screwed Ball Valves



2 Piece Screwed Ball Valves



2 Piece Flange Ball Valves



DLM's Bronze range is used widely in the steam and condensate industry for isolation, filtering and back flow prevention.



CAST AND DUCTILE IRON RANGE

DLM's Cast and Ductile Iron Range are commodity purpose valves for low pressure non-aggressive applications used for water and air generally.



Butterfly Valves



Double Door Check Valves



Y-Strainers



Globe Valves



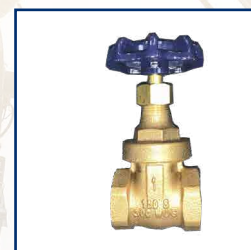
Check Valves



Gate Valves



Globe Valves



Gate Valves



Check Valves



Y-Strainers

COMPACT PNEUMATIC ACTUATOR AND ACCESSORIES

The Compact four piston quarter turn Pneumatic Actuator has been developed to be simple, reliable and efficient, using a patented rack and pinion design. Torque range 6NM-4000NM. Open and closed stroke adjustments. Available in sizes C15-C90.



Breather Blocks



ImpAct™ Spring Assists



Pneumatic Actuators

BALL VALVES

Habonim are committed to the engineering, manufacturing and supplying of superior products for the most demanding industries including oil and gas, chemical, petrochemical, pharmaceutical and mining.



Control Valves



Flanged Valves



Cryogenic Valves



Standard Valves



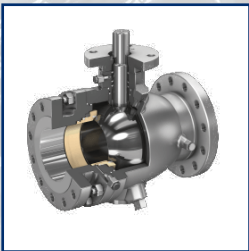
Metal Seated Valves



High Pressure Valves



Diverter Valves



Trunion Valves



Multi-port Valves

FITTINGS, MANIFOLDS, PROCESS VALVES AND QUICK CONNECTORS

HAM-LET group specializes in the design, development, production, and marketing of high quality instrumentation valves and fittings in a wide variety of materials for high pressure, temperature and vacuum applications. They are used in a wide range of industries including petrochemical, semiconductor, energy, food, biotechnology, pharmaceutical, pulp and paper and mining.



Fittings



Manifolds



Process Valves



Quick Connectors



PLUG, GATE, GLOBE AND CHECK VALVES

In compliance with the British standards and WRc approval, this well known range of valves is manufactured to the highest standard of quality in bronze.



Gate Valves



Globe Valves



Check Valves



Ball Valves



Balancing Valves



Y-Strainers

PRATT
Henry Pratt Company

BALLCENTRIC VALVES

HENRY PRATT Ballcentric® plug valves are suitable for a wide range of applications including liquids, slurries and powders. They are particularly effective in abrasive media applications.



Plug Valves

BALL VALVES

Hisaka Works Limited (Japan) is a manufacturer of high quality, soft seated and metal seated ball valves for a variety of applications. DLM currently manufactures the 2-piece full bore ball valve in South Africa under license agreement. Ball valves available in 2, 3 or 4 Way.



Soft Seated Ball Valves



Metal Seated Ball Valves



D06F



D06FI



F76



D15S



D22



SM152

Honeywell

Braukmann

PRESSURE REDUCING VALVES

Honeywell supplies a full range of pressure reducing and safety valves for the process industry. Their products require an extremely low level of maintenance and are service friendly.

HORNE

THERMOSTATIC CONTROL VALVES

The Horne range of thermostatic control valves for steam, hot water and cold water systems are manufactured in bronze and provide reliable temperature control for commercial and domestic applications.



Steam and Water
Mixing Valves



Steam Injection Heaters



Temperature Control
Valves

CONTROL VALVES

MASCOT is a well-established manufacturer and supplier of Control Valves, Shut-off Valves, Desuperheaters and Pressure Reducing Desuperheating Stations (PRDS).



GFlo- Globe Control Valves



DiskFlo- Butterfly Valves



VFlo- Segmented Ball Valves



EFlo- Eccentric Plug Valves



QuickFlo- Full Bore Ball Valves



FlushFlo- Flush Bottom Valves



DeFlo- Variable Sprays

MOGAS®

SEVERE SERVICE BALL AND CONTROL VALVES

The leading provider of severe-service, metal-seated ball valves and flexstream control valves for petrochemical and refining, power generation, mining and minerals as well as autoclaves.



C-Series



T-Series



Isolator 2.0



iRSVP



G-Series

OKM

BUTTERFLY VALVES

Okumura's unique general purpose soft seated butterfly valves offer long service life due to both low friction and torque. Okumura high performance valves are suitable for specialised services up to 450° C.



5400 Series



616J / 618H / 622H Series



606 Series



612X and 615X Series

STEAM TRAPS

The Pennant product range includes steam traps, air vents, compressed air drain traps, sight checks and strainers. They are manufactured in a variety of materials, sizes and end connections and to International Standards. There is a solution to almost every industrial application.



Ball Float Traps



Thermodynamic Steam Traps



Thermostatic Steam Traps



Inverted Bucket Traps



Air Vents



Piston Valves



The connection you can trust.

FIXED RATIO PRESSURE REDUCING VALVES

With over 40 years of proven usage, Philmac ratio pressure reducing valves accurately control service line pressure in fixed head water systems. Pressure is reduced by ratio to protect appliances from damage caused by excess pressure. The valves also protect pipework by reducing surge and water hammer.

The Peter Smith Valve Company Ltd



BUILDING AUTOMATION PRODUCTS

Specialising in the manufacturing of small to medium size valves for the control of fluids and gases in most pipe conveying systems, the Peter Smith Valve Company offers quality products in cast iron, cast steel and gunmetal for varying applications. Valves are supplied with metric, ANSI or imperial flange drilling's.



Flanged Ratio Valves



Screwed Ratio Valves



Globe 181



Parallel Slide 650



Angle Boiler Crown 281



Lift Check 184



Ball Float 501

PLASTIC VALVES

Praher is an Austrian family-owned company, producing and distributing high quality plastic valves, fittings and pipes for industrial piping systems. Available in the following materials, PDE, PVC-U, PP and Corzan® CPVC.



2-Way Ball Valves



3-Way Ball Valves



Non-Return Valves



Butterfly Valves



Foot Valves



Diaphragm Valves



Knife Gate Valves



KNIFE GATE, CHECK AND FOOT VALVES

Designed and manufactured by DLM, Renzi valves are robust, durable and suitable for a variety of water and slurry applications.



Knife Gate Valves



Wafer Style
Non-Return Valves



Diaphragm
Non-Return Valves



Foot Valves



Wafer Slim
Non-Return Valves



Engineering For The Future

SMART POSITIONER



Smart Positioners

Rotex is a leading manufacturer and exporter of smart positioners that are simple to convert from direct acting to reverse acting or vice versa. They are designed to meet your most basic to advanced needs, with an adaptive PID loop which helps ensure high accuracy, lower dead band and extremely steady performance of the positioner.

SLIDE TYPE BLIND VALVES

Sammi Machinery Co.,Ltd. a Line Blind Valve fabricator and machine shop, is wholly owned subsidiary of line blinding technology and products. The SAMMI LINE BLIND incorporates a tough and simple design that has been developed to provide absolute shutoff, long life and trouble-free service with minimum maintenance.



Sliding



Swing



Compact



Non-Spill



Jack Bolt

SWISS fluid

lined valves and sampling systems

PTFE AND PFA LINED VALVES

Swiss Fluid has evolved into a diversified engineering and manufacturing company, designing, manufacturing and supplying high quality products tailored to meet all applications. Swiss Fluid serves the chemical and pharmaceutical industries worldwide.



Ball Valves



Butterfly Valves



Diaphragm Valves



Ball Check Valves



Swing Check Valves



Cylindrical Plug Valves



Sight Glasses



KNIFE GATE VALVES

V-TORK Controls a professionally managed ISO 9001:2008 compliance certified company is involved in design and manufacturing of both Uni and Bi Directional Knife Gate Valves mainly used in slurries, pulp stock and corrosive fluids.



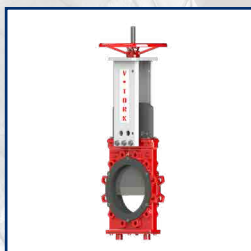
Inline Sampling Valves



U160



B270



B540



B720

FLOW





FLOW METERING AND CONTROL EQUIPMENT

Soil Impianti designs and manufactures flow metering and control instrumentation used in the petrochemical industry for both bulk delivery vehicles and bulk storage facilities.



P.D. Meters



Air Separators



ISO Valve



Grounding Unit



Additivator



Truck Meter



Metermatic

ELECTRONIC EQUIPMENT AND SOFTWARE FOR TRUCK AND GANTRY

Metermatic, a wholly owned subsidiary of DLM, manufactures intrinsically safe electronic equipment, systems and software packages that are predominantly used in the Petrochemical Industry for both truck and terminal fuel loading applications.



EM6
Preset Controller



SCS 400
Vehicle Monitoring



LMS-100
HFO Overfill



HFO-100
HFO Overfill



SAM Accounting



SAM Automation

TRUCK

OPW Civacon is dedicated to providing expert solutions for the safe handling and monitoring of hazardous bulk products on tank trucks.



Manhole Cover



Vapor Vents



Overfill Sensors



Bottom Loading Adaptor



Bottom Valve



ROM - Retain and Overfill Monitor



Manifolds



Dust Caps

ENGINEERED SYSTEMS

OPW Engineered Systems offers a complete range of equipment available to meet today's bulk loading and unloading requirements whether your application involves tank trucks, rail cars, ISO containers or safe earth and overfill monitoring.



Top Loading Arms



Bottom Loading Arms



Custom Loading Arms



API Lynx Bottom Coupler



Plug and Cords



Rack Monitor

QUICK AND DRY DISCONNECTS

OPW Engineered Systems specializes in engineering, designing and manufacturing of systems for the safe and efficient loading and unloading of critical hazardous fluid materials.



Autolok®- Self Locking Arms



Kamlok® Series



Kamvalok® Series



Drylok™



Epsilon®



Hiltap™

PROCESS PRODUCTS

OPW offers products that monitor, sense and reveal the fluids in your operation. Whether you're monitoring petroleum products, liquefied gases, solvents, or hazardous, corrosive chemicals, OPW's collection of Process Products help keep your fluids under control.



Visi Flo®



ISO-Ring Gauge



ISO Spool

SWIVEL JOINTS

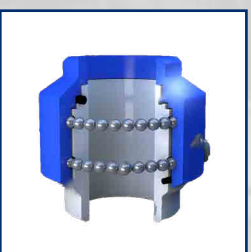
OPW swivels, mainly used in flexible piping systems, loading arms, hose reels, sewer rodding and wastewater treatment equipment, as well as various types of process machinery.



Swivel Joints



Endura Split Flange



General Purpose



Hose Reel Swivels

RAIL TANK EQUIPMENT

Midland manufacturing is committed to continually supply the most durable and reliable valves and level measurement devices for the railroad, marine barge and ISO container markets.



Gauging Devices



Bottom Outlet Valves



Safety Relief Valves



Vacuum Relief Valves



Needle Valves



Angle Valves



Miscellaneous Products

DRY BULK PRODUCTS

Civacon specializes in components for pneumatic tank trailers, railcars, chemical and pharmaceutical plants, and any application that requires the processing, movement and storage of dry-bulk or liquid materials including butterfly valves, actuators, aeration systems, relief valves, hopper tees, couplers and manhole covers.



Butterfly Valves



Check Valves



Pipe Coupler



Pressure Relief Valve



Aerator Assemblies



Hopper Tees



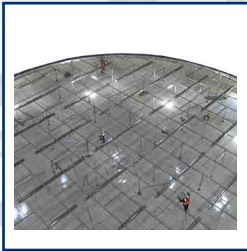
Manhole Covers

STORAGE TANK EQUIPMENT

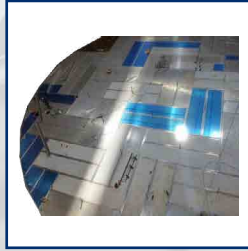
Matrix designs and manufactures top quality storage tank equipment for improved storage, emission reduction and product containment.



Geodesic Domes



Pontoon Internal Floating Roofs



Full Contact Internal Floating Roofs



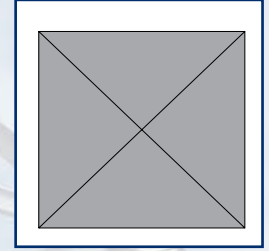
Floating Suction Lines



SwingMaster™ Swing Joints



Skimmers



Floating Roof Drain Systems



VAPOUR RECOVERY SOLUTIONS

CARBOVAC is a worldwide supplier of hydrocarbon vapour recovery solutions for truck, rail, car and marine loading applications.

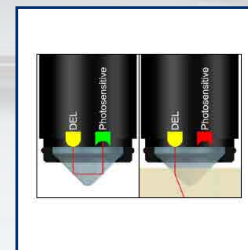


Vapour Recovery Unit



LIQUID STORAGE TANK EQUIPMENT

Larco manufacture hi level, hi hi level alarm equipment , for overfill protection in the form of oil on water detectors and uniquely designed (SIL Rated) PLC Controls.



Optic Sensors



Oil-on-Water Detector



Docil Overfill Protection Sensor

LOADING AND TRANSFER SYSTEMS

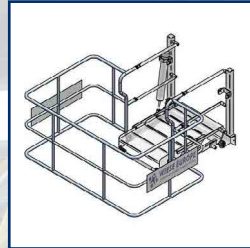
Wiese Europe are manufacturers of custom made loading and transfer systems. They provide loading solutions and related collective safety equipment for the transfer of liquids and gases between trucks/trains/ships and static installations.



Marine Loading Arms



Folding Stairs



Safety Cages



METER ASSIZING, CALIBRATION AND SUPPORT

DLM hold South African National Accreditation System (SANAS) 10378:2012 accreditation and have in-house technicians who are qualified Verification Officers for the following services:

- Piston Prover Verification
- Test Measure Verification
- Mass Verification

SUPPORT SERVICES

DLM's technical team offer support services for equipment supplied by our flow division specifically in the Gantry and Fuel Transport sectors

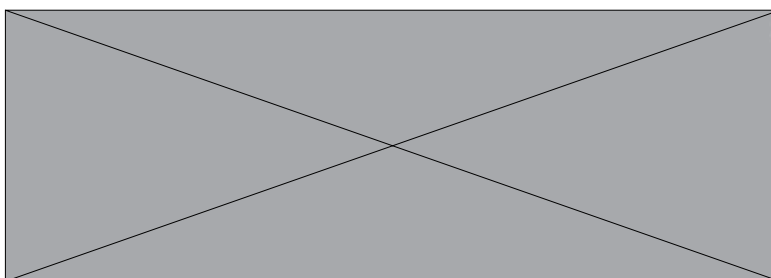
INSTRUMENTATION



APLISENS®



Badger Meter



ELETTA®
— FLOW MONITORS —



FOX™
THERMAL



delta-mobrey



APATOR

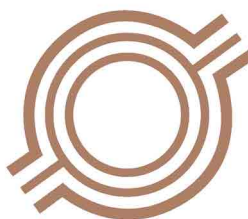
ROTEX

Engineering For The Future

Cerlic



VAISALA



DLM  **PRESSURE**



MASS



APATOR

IMPELLER WATER METERS

APATOR – Founded in 1925 in Poland, manufacturers of many metering instrument types including the MWN Range of Hot & Cold bulk woltman water meters.



Cold Water



Hot Water



PRESSURE, LEVEL AND TEMPERATURE MEASUREMENT

APLISENS S.A. is one of the leading manufacturers of high quality process instrumentation. From the beginning it has concentrated on electronic pressure and differential pressure measurement technology. High quality, high flexibility and competent support to customers has always been their focus.



PC 28



APC 2000 ALW



APR 2000ALW

LEVEL



PCE 28P



SGE 25



APR 2000

TEMPERATURE



LI-24G



CT AL



Badger Meter

ELECTROMAGNETIC FLOW METERS

Badger Meter is a market leader in flow measurement technology with more than a century of innovation. Badger Meter serves water utilities, municipalities, and commercial and industrial customers. Measuring water, chemicals and other fluids, Badger Meter products are known for accuracy and long-lasting durability.



M1000



M2000



M3000/M4000



M5000
Battery Powered



Vortex VN2000
Hot Tap Insertion



Vortex VN2000 Compact
Insertion Meter

VORTEX FLOW METERS

TURBINE FLOW METERS



Blancett Turbine Meter
Model 1100



Cox LoFlo series
Turbine Meter



Turbine Meter
Vision 3000

DYNASONICS ULTRASONIC FLOW METERS



DFX



IS6000



DXN Hybrid Portable

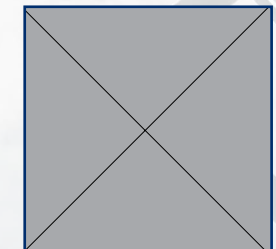


TFX-5000

OVAL GEAR METER



Industrial Oval Gear



EX Precision Oval Gear

Cerlic

MONITORING INSTRUMENTS

Cerlic instruments for on-line measurement and control are characterized by a high degree of quality, functionality and user-friendliness to provide information you can trust. They develop their products according to ISO9001 and ISO14001 standards.



CBX



ITX 20



CTX 2050



Multi Tracker- Portable
central unit



BOILER CONTROL LEVELS

Delta Mobrey Limited is a global specialist in the design and manufacture of temperature, pressure and flow process control instrumentation, with particular expertise in level and boiler control.



Sequencing Blowdown
Valve



Boiler Level Controls



Inductive Modulator
Control Box



Modulating Control
Valve



Hydrostep Control Box

CONTINUOUS LEVEL MEASUREMENT



Universal Controller
DMCU900



Ultrasonic Transmitter
DMSP



Hydrostatic Level
Transmitter 9000



Ultrasonic Transmitter
DMSP422

POINT LEVEL SWITCHES



Vibrating Rod



Dry Products Paddle
Switch



Magnetic Level Switch



Displacer Level
Transmitter



Ultrasonic Gap Level
Switches

PRESSURE SWITCHES



230 Pressure Switch



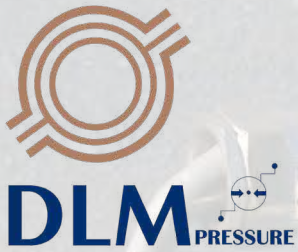
VM Pressure Switch



P03 Pressure Switch



202 Pressure Switch



PRESSURE TRANSMITTERS

DLM's quality pressure transmitters are a high performance configurable solution to pressure measurement. The use of DLM's piezoresistive diffused silicon technology and analogue circuitry enables best in class performance for stability, low power and frequency response.



CS-PT 100



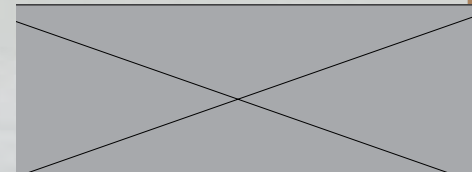
CS-PT 200



CS-PT 400-2



CS-PT 1100



VARIABLE FREQUENCY DRIVES

DLM V-Drives control the latest generation of Permanent Magnet and Standard Induction Motors. DLM offers the AMC (Advanced Motor Control) and EPC (Efficient Pump Control) V-Drives which are available in IP20, IP55 & IP66 enclosures.



Advanced Motor Control (AMC)



Efficient Pump Control (EPC)



FLOW MONITORS

FLOW MONITORS

Eletta has been producing flow monitors for the past 70 years and has a strong reputation for longevity, derived from robust design and precision and is well suited to rugged industrial environments.



Paddle Switch



Liquid Flow Switch



S-Series



M3-Series



D-Series



V-Series



THERMAL MASS FLOW INSTRUMENTS

Fox Thermal Instruments provides a broad range of reliable, accurate and full featured Gas Mass flow meters to Industrial Control OEM's and end user customers.



Model FT 1
(The Plug 'n Play)



Model FT 2A
(Communications Specialist)



Model FT 3
(Ideal for Offshore)



Model FT 4A
(Perfect for Digesters)



Model FT 4X
(Advanced Oil & Gas)



PRESSURE GAUGES

Founded in 1967, Precision Industries (now Precision Mass Products Pvt. Ltd.) is one of the most recognized manufacturer of a wide range of Pressure and Temperature measurement instruments in India, more renownedly known by its brand "MASS".

TEMPERATURE GAUGES



Gas/Mercury Filled
Temperature Gauges



Bimetal Temperature
Gauges

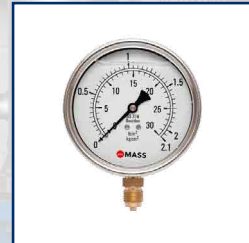
DIFFERENTIAL PRESSURE GAUGES



D201 Magnetic Piston
Differential Pressure
Gauges



Single Diaphragm
D101



GFB Industrial PG



WPS Process PG



PG Utility Gauge



CPB Low Pressure
Capsule Gauges

DIAPHRAGM SEALS



DS50 Flanged
Diaphragm Seal



DS20 Screwed
Diaphragm Seal



DS52 Sanitary
Diaphragm Seal

FLUID CONTROL SYSTEMS

Rotex is a leading manufacturer and exporter of fluid control systems including solenoid valves, angle valves and pulse jet valves. Rotex provides quality service and after sales support and has secured numerous patents on its innovative designs developed to help their customers gain maximum benefit.



2 Way Direct Acting Solenoid Valve



2 Way Diaphragm Solenoid Valve



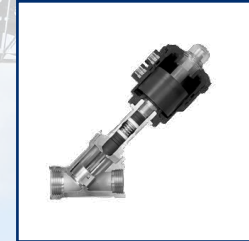
3 Way Namur



5 Way Namur



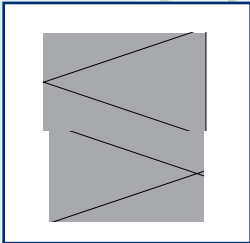
5 Way Standard Solenoid Valve



Angle Valve



Pulse Jet Valve

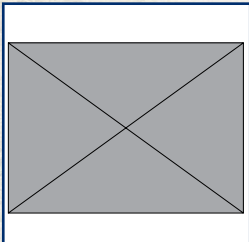


EXD 39 Coils

VAISALA

LIQUID MEASUREMENTS

Vaisala design and supply specialized in-line liquid analyzers and process refractometers for Paper & Pulp evaporators, Sugar Vacuum Pan & Evaporator Processing, industrial process instrumentation and control. Previously known as K-Patents.



Seedmaster System



General Compact



General Probe



Pharma Process



Sanitary Compact



Safe Drive



Process Refractometer PR-23-RP

CONVERSION CHART

1 mPa = 10 bar									
kPa	BAR	P.S.I	METER HEAD	FEET HEAD	kPa	BAR	P.S.I	METER HEAD	FEET HEAD
1	0,01	0,145	0,102	0,335	540	5,40	78,321	55,162	180,979
2	0,02	0,290	0,204	0,670	560	5,60	81,221	57,205	187,682
3	0,03	0,435	0,306	1,005	580	5,80	84,122	59,248	194,385
4	0,04	0,580	0,409	1,341	600	6,00	87,023	61,291	201,088
5	0,05	0,725	0,511	1,676	620	6,20	89,924	63,335	207,790
6	0,06	0,870	0,613	2,011	640	6,40	92,824	65,378	214,493
7	0,07	1,015	0,715	2,346	660	6,60	95,725	67,421	221,196
8	0,08	1,160	0,817	2,681	680	6,80	98,626	69,464	227,899
9	0,09	1,305	0,919	3,016	700	7,00	101,527	71,507	234,602
10	0,10	1,450	1,022	3,351	720	7,20	104,427	73,550	241,305
20	0,20	2,901	2,043	6,703	740	7,40	107,328	75,593	248,008
30	0,30	4,351	3,065	10,054	760	7,60	110,229	77,636	254,711
40	0,40	5,802	4,086	13,406	780	7,80	113,130	79,679	261,414
50	0,50	7,252	5,108	16,757	800	8,00	116,030	81,722	268,117
60	0,60	8,702	6,129	20,109	820	8,20	118,931	83,765	274,820
70	0,70	10,153	7,151	23,460	840	8,40	121,832	85,808	281,523
80	0,80	11,603	8,172	26,812	860	8,60	124,733	87,851	288,225
90	0,90	13,053	9,194	30,163	880	8,80	127,633	89,894	294,928
100	1,00	14,504	10,215	33,515	900	9,00	130,534	91,937	301,631
120	1,20	17,405	12,258	40,218	920	9,20	133,435	93,980	308,334
140	1,40	20,305	14,301	46,920	940	9,40	136,336	96,023	315,037
160	1,60	23,206	16,344	53,623	960	9,60	139,236	98,066	321,740
180	1,80	26,107	18,387	60,326	980	9,80	142,137	100,109	328,443
200	2,00	29,008	20,430	67,029	1000	10	145,038	102,152	335,146
220	2,20	31,908	22,474	73,732	1100	11	159,542	112,368	368,660
240	2,40	34,809	24,517	80,435	1200	12	174,046	122,583	402,175
260	2,60	37,710	26,560	87,138	1300	13	188,549	132,798	435,690
280	2,80	40,611	28,603	93,841	1400	14	203,053	143,013	469,204
300	3,00	43,511	30,646	100,544	1500	15	217,557	153,229	502,719
320	3,20	46,412	32,689	107,247	1600	16	232,061	163,444	536,233
340	3,40	49,313	34,732	113,950	1700	17	246,565	173,659	569,748
360	3,60	52,214	36,775	120,653	1800	18	261,068	183,874	603,263
380	3,80	55,114	38,818	127,355	1900	19	275,572	194,090	636,777
400	4,00	58,015	40,861	134,058	2000	20	290,076	204,305	670,292
420	4,20	60,916	42,904	140,761	2100	21	304,580	214,520	703,806
440	4,40	63,817	44,947	147,464	2200	22	319,084	224,735	737,321
460	4,60	66,717	46,990	154,167	2300	23	333,587	234,951	770,835
480	4,80	69,618	49,033	160,870	2400	24	348,091	245,166	804,350
500	5,00	72,519	51,076	167,573	2500	25	362,595	255,381	837,865
520	5,20	75,420	53,119	174,276	5000	50	725,190	510,762	1675,730

FLANGE DRILLINGS

mm	BS10,--- T/D, T/E, T/F			ANSI--- 150, 300, 600#		
	NO OF HOLES	HOLE DIA.	P.C.D	NO OF HOLES	HOLE DIA.	P.C.D
15	4	14	67	4	16	60, 67, 67
20	4	14	73	4	16, 19, 19	70, 83, 83
25	4	14, 14, 17	83, 83, 87	4	16, 19, 19	79, 89, 89
32	4	14, 14, 17	87, 87, 98	4	16, 19, 19	89, 98, 98
40	4	14, 14, 17	98, 98, 105	4	16, 22, 22	98, 114, 114
50	4	17	114, 114, 127	4, 8, 8	19	121, 127, 127
65	4, 4, 8	17	127, 127, 146	4, 8, 8	19, 22, 22	140, 149, 149
80	4, 4, 8	17	146, 146, 165	4, 8, 8	19, 22, 22	152, 168, 168
100	4, 8, 8	17	178, 178, 191	8	19, 22, 25	191, 200, 216
125	8	17, 17, 22	210, 210, 235	8	22, 22, 29	216, 235, 267
150	8, 8, 12	17, 22, 22	235, 235, 260	8, 12, 12	22, 22, 29	241, 270, 292
200	8, 8, 12	17, 22, 22	292, 292, 324	8, 12, 12	22, 25, 32	298, 330, 349
250	8, 12, 12	22, 22, 25	356, 356, 381	12, 16, 16	25, 29, 35	362, 387, 432
300	12, 12, 16	22, 25, 25	406, 406, 438	12, 16, 20	25, 32, 35	432, 451, 489
350	12, 12, 16	25, 25, 29	470, 470, 495	12, 20, 20	29, 32, 38	476, 514, 527
400	12, 12, 20	25, 25, 29	521, 521, 552	16, 20, 20	29, 35, 41	540, 572, 603
450	12, 16, 20	25, 25, 32	584, 584, 610	16, 24, 20	32, 35, 44	578, 629, 654
500	16, 16, 24	25, 25, 32	641, 641, 673	20, 24, 24	32, 35, 44	635, 686, 724
600	16, 16, 24	29, 32, 35	756, 756, 781	20, 24, 24	35, 41, 51	749, 813, 838

mm	SABS1123---T10/3, T16/3, T25/3, T40/3			BS4504---T10/3, T16/3, T25/3, T40/3		
	NO OF HOLES	HOLE DIA.	P.C.D	NO OF HOLES	HOLE DIA.	P.C.D
15	4	14	65	4	14	65
20	4	14	75	4	14	75
25	4	14	85	4	14	85
32	4	18	100	4	18	100
40	4	18	110	4	18	110
50	4	18	125	4	18	125
65	4, 4, 8, 8	18	145	4, 4, 8, 8	18	145
80	8	18	160	8	18	160
100	8	18, 18, 22, 22	180, 180, 190, 190	8	18, 18, 22, 22	180, 180, 190, 190
125	8	18, 18, 26, 26	210, 210, 220, 220	8	18, 18, 26, 26	210, 210, 220, 220
150	8	22, 22, 26, 26	240, 240, 250, 250	8	22, 22, 26, 26	240, 240, 250, 250
200	8, 12, 12, 12	22, 22, 26, 26	295, 295, 310, 320	8, 12, 12, 12	22, 22, 26, 30	295, 295, 310, 320
250	12	22, 26, 26, 33	350, 355, 370, 385	12	22, 26, 30, 33	350, 355, 370, 385
300	12, 12, 16, 16	22, 26, 26, 33	400, 410, 430, 450	12, 12, 16, 16	22, 26, 30, 33	400, 410, 430, 450
350	16	22, 26, 33, 33	460, 470, 490, 510	16	22, 26, 33, 36	460, 470, 490, 510
400	16	26, 26, 33, 39	515, 525, 550, 585	16	26, 30, 36, 39	515, 525, 550, 585
450	20	26, 26, 33, 39	565, 585, 600, 610	20	26, 30, 36, 39	565, 585, 600, 610
500	20	26, 33, 33, 39	620, 650, 660, 670	20	26, 33, 36, 42	620, 650, 660, 670
600	20	26, 33, 39 No T 40	725, 770, 770 No T 40	20	30, 36, 39, 48	725, 770, 770, 795

THESE TABLES ARE TO BE USED AS A GUIDE ONLY. DLM DOES NOT ACCEPT ANY RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS!

BBBEE- LEVEL 3 CONTRIBUTOR

DLM is committed to real empowerment within our own environment as well as its wider community. Our rating has been gained through the implementation of our stated policy to pursue and achieve, over a period of time, the following:

- Empowerment shareholding and management.
- A staff composition that closer reflects the broader composition of society.
- The continual growth of our people by developing their potential through training and skills development as well as career path mentoring.
- Procurement practices that assist in reaching empowerment objectives.
- The development of sustainable black enterprises.
- Social upliftment

EMPOWERMENT SHAREHOLDING AND MANAGEMENT

- We entered into an empowerment deal with Shalamuka Capital (Pty) Ltd. Shalamuka Capital is a Broad Based BEE private equity company for the Shalamuka Foundation. They acquired 28.6 % of DLM.
- Using the flow-through principle, black shareholding in two other shareholders of DLM resulted in DLM being audited as a 44.08% black owned company and 21.59% black women owned.
- Over 30% of DLM's top management is black. We have a mentoring programme in place in order to fast track the progress of black employees and to ensure that our people are equipped with the necessary skills and knowledge before they are promoted into managerial positions.

SOCIO-ECONOMIC DEVELOPMENT

- DLM has "adopted" a number of early childhood development and disabled persons centers where food supplies and groceries are delivered on a monthly basis. Further, our staff members are encouraged to donate clothing, toys and educational items which are delivered along with the groceries.
- We have prioritized education and skills development to ensure that previously disadvantaged youth have the opportunity to participate in the economy through internship programmes.





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