PRODUCT PORTFOLIO 2017







RANGE OF PRODUCTS

General dosing, PU, process applications

PL8 – PU, general purpose	6
PL2 – fully stainless steel: PU, general purpose	7
PAL – abrasives coloring agents (PU)	8
PLR – heated casing	9
Chemical range	
PLZ – process metering	10
PUG – metering, transfer & circulation	11
PL4 – thin and critical fluids	12
Complete pump units	13
Painting systems	
PLV – modular metering pumps for paint industry	14
WLV – flushing valve	15
RCC – color change system	16
Melted glue pumps	
PA6/7 – hot melt, one outlet	18
PF2 – hot melt, two outlets	19
Synthetic fibers pumps	
PAx - man made fibers, square arrangement,	20

PFx - man made fibers, round arrangement
Yarn lubricaton and finishing

P94 – ultra micro finishing P96 – micro finishing 22 23

21

Polymer extraction & booster	
PAF - bigh temperature	24
PLE - low temperature	25
Textile pumps	
P6x - acrylic - carbon fiber precursor	26
P55 - acetate	27
P2x - viscose	28
P5x - spandex and elastomers	29
Deive evetere	~~
Drive systems	00
Static mixena	21
Engineering	32
Spinnerets	35
	1000
Spinning beams	40
i i i i i i i i i i i i i i i i i i i	
After sale	42
dian a b	
Special parts	43
Company profile	45
Contacts	47

Shown data are indicative only; please contact company for specific application $l/\,h$ indication based on 10-150rpm max (except PUG and PL4 series)

PL8 - polyurethane - general purpose

- suitable for polyols, isocyanates, catalysts, additives and silicons
- unparalleled efficiency (over 99% @ 100 bar)
- PTFE packing as standard or oil fluid barrier
- cast iron body for maximum lubrication
- core tempered martensitic stainless steel plates and gears (58 HRC)
- compatible with existing installations
- tailor made solutions

	SI
Viscosity	сР
Capacity rage	cc/rev l/h
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Polyurethane Bonding agents Process applications Oils General metering	Cast iron body Martensitic S.S. Ni-Alloys	Packing Oil Barrier Mechanical seal Magnetic coupling	ATEX certificate Bi-directional Surface treatment Electrically Heated Drives







PL2 - polyurethane - general purpose (SS)

PL8	PL2
50-80.000	50-80.000
0,3 - 120 0,1 8 - 1.080	0,1-140 0,06-1.260
10-250	10-250
1.450 100	2.175 150
10-180	10-180

- suitable for polyols, isocyanates, catalysts, additives and silicons
- unparalleled efficiency (over 99% @ 100 bar)
- different sealing options available
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- compatible with existing installations
- tailor made solutions (reduced clearances, SS construction...)
- unbeatable performances with low lubricity plasticizers (up to 60 bar)
- special version for converting industry

Applications:	Materials:	Shaft seal:	On demand:
Polyurethane Silicone Glue General metering Plasticizers Converting	Martensitic Steel Stainless Steel Ni-Alloys	Packing Oil Barrier Mechanical seal Magnetic coupling	Bi-directional Surface treatment Electrically Heated Drives







PAL - abrasive coloring agents

- suitable for abrasive fluids, pigments, colorants, carbide containing fluids (calcium carbonate, titanium oxide...)
- maximum particles diameter: 150 micron (depending on concentration)
- same footprint as PL8 and PL2 for easy upgrading of existing dosing systems
- PTFE packing as standard
- HSS high speed tool steel (65 HRC), for best resistance to high temperature and mechanical wear.
- tailor made solutions
- special surface treatments

	SI
Viscosity	сР
Capacity range	cc/rev l/h
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Dyes Pigments	High speed steel	Packing Mechanical seal	Surface treatment Drives
Abrasive fluids			





PAL	PLR
50-1.000.000	50-80.000
0,45-8 0,27-72	0,3-140 0,18-1.260
10-200	10-250
1.450 100	1.450 100
10-180	10-180

- suitable for polyols, isocyanates, catalysts, additives, silicons.
- electric candle heated body or jacketed body for oil or vapor heating
- PTFE packing as standard
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- compatible with existing installations
- tailor made solutions (reduced clearances, sealing systems, SS construction...)

Applications:	Materials:	Shaft seal:	On demand:
Polyurethane Bonding agents General dosing	Cast iron body Martensitic S.S. Ni-Alloys	Packing Barrier liquid Mechanical seal Magnetic coupling	ATEX certificate Bi-directional Surface treatment Drives



PLZ - process metering

- general purpose industrial duty gear pumps
- extreme metering accuracty (in excess of 1%)
- mechanical seal as standard
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- suitable for accurate metering of various chemicals in O&G, petrochemical, power generation and other process applications

	SI
Viscosity	сР
Capacity range	cc/rev l/h
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Polyurethane Bonding agents General dosing Chemicals	Martensitic S.S.	Mechanical seal	ATEX certificate Surface treatment Drives



PUG - metering, transfer & circulation

PLZ	PUG
10-80.000	1 - 10.000
0,3 - 9 0,2 - 81	1 - 52 6 - 5400
10 - 300	300-1.725
1450 100	176 12 - 16
-20 - 180	-50 - 160

- suitable for corrosive and poor lubricating materials constructed of AISI 316 and ALLOY 20 materials
- running directly at motor speed (8, 6 or 4 poles, 50 or 60 Hz)
- packing seal as standard or other sealing systems (mechanical seal, mag drive)
- pre-set for cooling/heating jacket
- suitable for accurate metering of various chemicals in O&G, petrochemical, power generation and other process applications
- from 6 to 5.400 LPH
- threaded or flanged ports
- fda certificates for seal

Applications:	Materials:	Shaft seal:	On demand:
Chemicals Oil and gas Pharmachemical	AISI 316 Alloy 20 Thermoplastics Carbon Graphite	Packing Mechanical seal Mag drive	Surface treatments Heating Drives ATEX certificatie







PL4 - thin and critical fluids

- designed to pump thin and critical fluids
- suitable for solvents or corrosive chemicals
- standard AISI 316 body and plates + PEEK gears
- different MOC on demand
- wide turn down ratio (10:1) thanks to stepper or brushless motors
- available from may, 2017

	SI
Viscosity	сР
Capacity range	cc/rev l/h
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:	
Chemicals Water Solvents	AISI 316 Martensitic S.S. Thermoplastics	Double lips Mechanical seal Packing Mag drive	ATEX certificate Surface treatment Drives	



Complete pump unit

	 solutions for every pumping need 		
PL4	 from very low flow rates to high speed - high flow systems (0.06 I/h - 6.000 I/h) 		
0,5 -1.000	• thin to high viscosity chemical fluids dosing ability (0,1 - 1.000.000 cP)		
To be	 extreme operating temperatures (-50 +400°C) 		
determined	 high operating pressures (up to 450 bar) 		
To be determined	 solid content, toxic and dangerous 		
	 large selection of motorisation available 		
To be	 mag drive, mechanical seals or standard packing seal 		
determined	• threaded ports either BST or NPT and DIN or ANSI flanges available		
To be	ATEX certified		
determined	 integrated vsd inverter or manual speed variator 		



PLV - paint industry

- specifically intended for painting applications (spray gun, robotic systems)
- suitable for abrasive fluids such as pigments, colorants, fluid containing carbide, oxide (e.g. calcium carbonate, titanium oxide, etc.)
- dedicated materials for dyes and particles: PTFE, PEEK, high tech materials to handle abrasive fluids
- modular and easily expandable, with WLV flushing valve or capacity increase kit
- special superficial hardening treatment available

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Catalysts	Martensitic S.S.	Oil Barrier	Bi-directional
Primer	Plastic gear	Special elastomers	Superficial hardening treatment
Metallized	-		Block for pressure probes
Solvents			Brushless Drives
Resins			Stepper motor







	VLW-flushing valve
PLV	 high tech normally closed pneumatic flushing valve
4 400 000	• operates flushing of the painting system with solvents avoiding contamination
1 - 100.000	 on demand available with proximity sensor
0,3 - 8	• interchangeable with similar systems from other manufacturers
10 - 300	
174 12	
10 - 100	



RCC - color change system

Modular color change system

- wide choice of configurations (addition or removal of painting modules based on actual need)
- to be installed in white room
- up to 12 different colors
- very low material waste and time loss
- pressure switch-controlled
- easy to install thanks to the special bracket
- controlled recirculation version available



Lightweight colour change system

- same advantages of the standard colour change system
- modular construction
- aluminium lightweight materials
- direct installation on robot arm
- customizable



PA6/7 - hot melt adhesives - one outlet

- suitable for hot melts used in converting applications: packaging industry, laminates production, edgebanders
- able to handle abrasive materials (up to 150 micron)
- HSS high speed tool steel, for best resistance to high temperature and mechanical wear.
- round or rectangular shape
- on demand superficial treatments
- lip seals as standard

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Hot melt glue	High speed steel	Lip seal	Surface treatment Drives





PF2 - hot melt adhesives - two outlets

PA6 / PA7	PF2	 suitable for hot melts used in converting applications: packaging industry, laminates production, edgebanders
		 same as PA6/7 but with multi discharge ports
50-1.000.000	50-1.000.000	 able to handle abrasive materials (up to 150 micron)
0,45-8 / 8-50	0,2 - 12	 HSS high speed tool steel, for best resistance to high temperature and mechanical wear.
		 round or rectangular shapes
10-150	10-100	• on demand superficial treatments
2.900 / 4.350 200 / 300	2.900 200	• lip seals as standard
10-200	10-200	

 Applications:	Materials:	Shaft seal:	On demand:
Hot melt glues	High speed steel	Lip seal	Surface treatment Drives





PAx - man made fibers & melted polymers

- suitable for man made fibers and melted polymers (nylon, PP, PA...)
- HSS high speed tool steel, for best resistance to high temperature and mechanical wear
- on demand superficial treatments
- packing as standard; on demand, MVV viscoseal labirynth or mechanical seal
- on demand available with multiple discharge ports

	SI
Viscosity	сP
Capacity range	cc/rev
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
PP, PA,	High Speed Steel	Packing	Surface treatment
PA6, PA6,6,		Labyrinth sealing	Dynamic mixers
PET, PC,		Mech-Friction seal	Drives





PFx - man made fibers & melted polymers

РАх	PFx
100 - 1.000.000	100 - 1.000.000
0,3 - 200	0,3 - 100
10-60	10-60
4.350 300	4.350 300
< 350	< 350

- planetary gear arrangement, multiple discharge ports (up to 16 outlets)
- cylindrical shape for reduced footprints
- suitable for man made fibers and melted polymers (nylon, PP, PA...)
- HSS high speed tool steel, for best resistance to high temperature and mechanical wear.
- on demand superficial treatments
- packing as standard; on demand, MVV viscoseal labirynth or mechanical seal

Applications:	Materials:	Shaft seal:	On demand:
PP, PA, PA6, PA6,6, PET, PC, PS	High Speed Steel	Packing Labirinth sealing Mechanical seal	Surface treatment Dynamic mixers Drives





P94 - ultra micro finishing

- designed for yarn lubrication
- sandwich arrangement, multi stage with multiple discharge ports
- centering pins and mechanical machining precision ensure unparalleled dosing repeatability and accuracy
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- lip seals as standard
- complete dosing system including: electrical motor base-plate, gear reducer available on demand

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Yarn lubrication	Martensitc S.S.	Lip seals	Drives



P96 - micro finishing pumps

P94	P96
1 - 4.000	1 - 4.000
0,015 – 0,2	0,2 - 5
10 - 60	10 - 60
29 2	29 2
10 - 80	10 - 80

- designed for yarn lubrication
- sandwich arrangement, multi stage with multiple discharge ports (up to 30)
- centering pins and mechanical machining precision ensure unparalleled dosing repeatability and accuracy
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- lip seals as standard
- complete dosing system including: electrical motor base-plate, gear reducer available on demand

Applications:	Materials:	Shaft seal:	On demand:
Yarn lubrication	Martensitic S.S.	Lip seal	Up to 30 outlets Surface treatment





PAE - high temperature booster

- high temperature (up to 350 °c) high pressure applications (up to 500 bar)
- designed to reduce the pulsation downstream extrusion equipment and to highly increase its efficiency
- able to handle abrasive fluids
- HSS high speed tool steel, for best resistance to high temperature and mechanical wear
- packing as standard; on demand, MVV viscoseal labirynth or mechanical seal
- on demand several heating and sensors features
- custom designed solution meeting every and each customers' needs

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:	
PP, PA,	High speed steel	Labirint seal	Bi-directional	
PA6, PA6,6,	Nitriding steel	Stuffing box	Surface treatment	
PET, PC,	According to	Packing	Drives	
PS	application	U	Sensors	
			ATEX	







PLE - low temperature booster

PAE	PLE
1 - 1.000.000	1 - 1.000.000
1 - 2.500	1 - 2.500
10 - 80	10 - 120
7.250 < 500	4.350 < 300
< 350	< 120

- low temperature (up to 120 $^\circ\text{C})$ high pressure applications (up to 500 bar)
- designed to reduce the pulsation downstream extrusion equipment and to highly increase its efficiency
- able to handle abrasive fluids
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- packing as standard, lip seals on demand
- custom designed solution meeting every and each customers' needs

Applications:	Materials:	Shaft seal:	On demand:
Chemical Process Silicone Glue	Martensitic SS	Lip seal Packing	Bi-directional Surface treatment Drives ATEX





P6x - acrylic - carbon fiber precursor

- suitable for acrylic yarn carbon fiber precursor
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- standard PTFE packing, lip seals or mechanical seal on demand

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm giri∕min
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Acrylic solution	Martensitic S.S.	PTFE packing Mechanical seal Lip seal	AlSI316 + stellite Ni-Alloy Atex certificate







P6x	P55
1.000 - 10.000	1.000 - 10.000
10 - 90	0,3 - 6
10 - 150	6 - 80
14, 5 - 580 1 - 40	14, 5 - 580 1 - 40
10 - 90	10 - 90

- suitable for acetate solutions
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- standard lip seals or mech-friction seal

Applications:	Materials:	Shaft seal:	On demand:
Acetate solutions	Martensitic S.S.	Lip seal Mech-Friction seal	Custom solutions





P2x - viscose

- suitable for viscose yarn
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- cast iron body
- lip seals as standard

	SI
Viscosity	сР
Capacity range	cc/rev
Rotational speed	rpm giri∕min
Max outlet pressure	psi bar
Operating temperature	°C

Applications:	Materials:	Shaft seal:	On demand:
Viscose	Martensitic S.S. Cast iron body	Lip seal	Custom solutions





P5x - spandex and elastomers

P2x	P5x
1.000 -10.000	1.000 -10.000
10-90	0,3 - 6
10 - 150	6 - 80
14, 5 - 435 1- 30	14, 5 - 435 1- 30
10 - 90	10-90

- suitable for elastomeric yarn (spandex, lycra®)
- core tempered martensitic stainless steel body, plates and gears (58 HRC) ensures high mechanical and chemical resistance
- up to 8 discharge ports (squared body)
- up to 16 discharge ports (cylindrical body)
- lips seal as standard, PTFE packing or mech- friction seal on demand

Applications:	Materials:	Shaft seal:	On demand:
Elastomeric yarn	Martensitic S.S.	Lips seal PTFE packing Mech-Friction seal	Custom solutions





DRIVE SYSTEMS

MVV is able to supply complete engineered pumping system. Based on the operating data (viscosity, flow rate, rotational speed, pressure), it is possible to calculate torque and power absorpion to properly size gear motors. Expertise in pumping application (since 1942) and scouting the best suppliers (gear motors, couplings, sensors and probes) made MVV able to supply the most suitable configuration of the drive system.

Gear Motor:	Coupling:	Chassis:	Carter:
Coaxial Angular Bevel	Elastic joint Gimbal With critical couple protection	Bended sheet metal Welded tubes Extruded Al bars	Metallic Plastics
Cabinet:	Speed check:	Safety:	Certification:
With drives PLC With display for process	Encoder Optical fiber Phonic wheel Laser phonic wheel	Room sensors Protection sensors	CE ATEX UL





STATIC MIXERS

MVV produces static mixers for the chemical and pharmaceutical industry, customizing the product as for the client's requests. Thanks to the high quality on the constructive details, MVV static mixers ensure low load losses and high mixing efficiency. Made of high quality stainless steel and mirrored polished, these mixers are perfect to be used with corrosive and aggressive agents. Easy to clean, they find application in many production cycles, ensuring a constant mixing standard.

Mixer diameter:	Helix sheet-steel thickness:	Helix sheet-steel length:	N. helix sheet-steel:	Materials:
From 4 to 160 mm	From 0,8 to 8 mm L = 1,2 x D	On request	On request	AISI 304 / AISI 316 / AISI 316 TI
				21

ENGINEERING

Customisation is MVV's day-to-day activity. MVV takes care of customers' requests, by thinking ahead and engineering complete solutions. As an example MVV recently engineered a new micro dosing system (MicroPA6) of 0,16cc/rev specifically intended for laboratory and testing purposes. The pump is driven by an intelligent stepless motor that allows to control, via a simple and efficient touch-screen panel, all the operating parameters. Speed, torque, consumption are constantly monitored, to ensure the best utilization in labs applications.





MVV is able to engineer complete Dosing systems, Spin-packs, Spinning heads, Spinning beams, dyeing equipment and calibration machinery.

MVV an extensive expertise in the welding processes (in house Certified Welders) and in plastic deformation for tubes and metal sheets. Has also proven experience (since 1942) in fluids handling (heating, insulation, losses, mixing, etc.) thanks also to the modern FEM analysis.

MVV can certify its products to existing International Standards: ISO, CE, ATEX, PED.





SPINNERETS

MVV produces customized spinnerets for any dry processing plant of synthetic fibers. Analyzing customer requirements, special holes, shapes and versions are conceived.

Spinning plates can have different shapes: disc, cap, circular, rectangular and many others, with round holes, outlined holes, pilot holes or slots. Anyhow the surface roughness of spinnerets is lower than 0.05 Ra, the capillaries are finished by lapping and the height, as well as hole dimensions, complies with strict tolerances. Each spinneret undergoes severe checks through highly sensitive optical instruments, to verify dimensions and finishing of capillaries. MVV uses a wide range of ferritic or austenitic stainless steels suitably treated or other special materials, all of which resistant to heat and corrosion.

Tollerances		
for round holes	capillary diameter height of capillary	± 0,001 mm ÷ ± 0,005 mm ± 0,005 mm ÷ ± 0,050 mm
for shaped holes	width of wings length of wings height of capillary	± 0,002 mm ± 0,010 mm ± 0,010 mm





SPINNERETS

75 years of research in mechanics for textile give us the ability to supply the most suitable products and materials for our customers' specific requirements. Holes are mirror-finished and all the dimensions are subjected to the strictest quality control procedures.

Highly sensitive optical instruments are used to check size and finishing of the capillaries; their height is checked by the most precise instruments and by special tests made in our premises. Discretion is definitely one of our prides. From the first meeting or phone call all the drawings, hole patterns, shapes, surface finishing or materials will be kept in strict confidence.

This is also why our customers choose us to process their award-winning high technology yarns. Due to the increasing demand of our expert craftsmanship, a new workshop for spinnerets and spinning beams manufacturing will be open in 2017 right next to MVV's existing factory.



SPINNING BEAMS

Following the customer specification, MVV manufactures spinning beams for synthetic fibers such as nylon, polyester, polypropylene and spun-bonding. Using the latest manufacturing technologies, the spinning beams can be heated by conduction, employing diathermic oil and electric resistances, or by induction with diathermic oil vapor.

Modern insulation solutions ensure highest safety levels nearby the heat sources. Upon request, spinning beams can be designed furnished with instruments for the temperature and pressure control, as well as with safety valves certified according to the standards and with freezing valves for maintenance operations even while the plant is operating. The spinning beams made by MVV are tested to ensure compliance with the specific needs of each customer. On request, all MVV's products can be provided with testing certifications according to P.E.D. standards.

Heating system	Diathermic oil immersion resistors	Diathermic oil vapor
Supply extruder (no.)	1 to 6	
Output per hour (kg/h)	According to customer specification	
Pressure pumps (no.)	1 to 72	
Spinnerettes (no.)	1 to 864	
Spinning packs pitch	According to customer specification	





SPINNING BEAMS





AFTER SALE

MAINTENANCE

MVV offers in house maintenance with different service levels. Firstly, a visual check is performed both externally and, after disassembly, on the different parts . This first analysis gives information regarding components status and allows double checking the of customer's failure report. Parts are then accurately washed and to determine the operating level of maintenance. There are substantially two levels: first is a revision, so grinding of all contact plane surfaces. Second level is a revamping, substitution of irreparably worn parts. The pump is then tested with at rated capacity and pressure and certified with additional 12 months-warranty.

SPARE PARTS

MVV offers a fast-track spare parts service for all its products. Contact MVV Sales Department for the availability.

TECHNICAL ADVICE

Our Engineers are able to offer technical support for the proper installation and operation of our products and for off the relevant ancillaries. Tecnincal support before or during offer stage often generates dialogue for a new engineered solution. Support and compentence are the cornerstone of our customer care.

SPECIAL PARTS

The experience gained in past years in different industrial application, makes MVV the ideal partner and supplier of special components from drawing or tailor-engineered parts.

Spinning packs, changing filters, blocks distributors, dynamic mixers, dyeing machines, etc..

The expertise and machining ability combined with the close collaboration with the network of leading companies in the area, help to give added value MVV offering.

MVV is often required to a supply reduced lots of parts in special high-tech materials, tiny tolerances, special processes. Most of the time engineering is the highest cost of all.

Our agile and multi-skilled team is able to quickly and accurately assess the work cycle. The combination of passion and expertize makes MVV extremely competitive in small lot production (i.e. 1-10 pcs even for demanding components)





COMPANY PROFILE

MVV s.r.l. is an Italian company expert in design, production and sales of high precision external gears metering pumps. These pumps are used in different industrial applications: synthetic and artificial fibers, metering of polyurethane components, acid solutions, resins, solvents, catalyzers and hot melt adhesives. The MVV production includes also other highly engineered products: spinning beams, spinnerets for synthetic fibers industry, static mixers, multi-outlets flow distributors and motorizations for the volumetric pumps. Thanks to its expertise in mechanical machining and high-tech materials and special steel, MVV is able to produce special high complexity parts on small batches [1-10 pcs]. Customer support on maintenance, repair, service and technical advices completes MVV's technical offer. Our competence, professionalism and flexibility will meet your requirements supplying our up-to – date products and, on demand, our custom solutions. MVV guarantees agreed delivery time and supply, on demand, International Standards and certifications [ISO, CE, ATEX, PED]. MVV sells its products worldwide through a network of trained distributors.

MVV was established in the 1942 in Vittorio Veneto as a branch of SNIA Group, and named M.V.V. Meccanico Vittorio Veneto. In this area, MVV has found excellent conditions to develop its mechanical production.

The company started producing Rayon pumps, then in the 50s' launched pumps for other synthetic fibers and in the 70s' it began to work with finishing pumps. MVV has supplied over a million of gear pumps and millions of spinnerets for filaments extrusion manufactured to supply the main important chemical fiber industries.

2012 a pool of private investors acquired MVV and started a new investment plan with a long term strategy backed by robust investments: moving in a new building located in the production area nearby Orsago and recruiting new talented employees. This new team has brought in the company more than 50 years' experience on pumps production and high precision mechanical, perfectly tuned with MVV's core business.

The cornerstone of the new MVV is the central role of each individual: from the customers to the suppliers and employees, through the compliance with the commitments and the pursuit of excellence in the product quality.

Shown data are indicative only; please contact company for specific application

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