

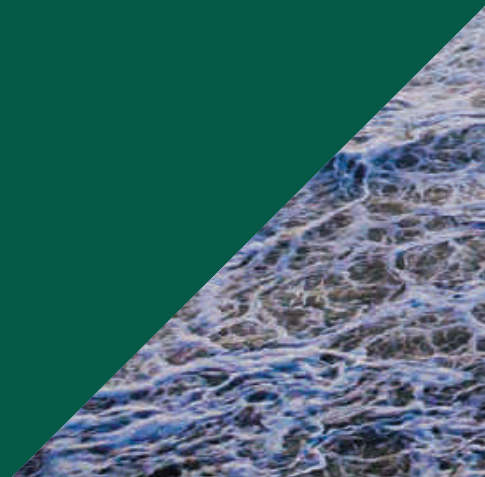
MYTHO

General Catalogue



Contents

Introducing Mytho	4
IrisLink	8
Hyperion Series	
Solenoid-Driven Dosing Pumps	12
M Series	
Y Series	
T Series	
H Series	
O Series	
Titan Series	
Motor-Driven Dosing Pumps	30
D Series	
R Series	
V Series	
N Series	
Pump Accessories	54
Trigon Series Controllers	60
MT200	
MT400	
MT600	
MT1000	
Probes & Sensors	72
pH	
ORP	
Electrical Conductivity	
Dissolved Oxygen	
Flow Sensors	
Potentiostatic Probes for Disinfectants and Oxidising Agents	
Turbidity	
Suspended Solids	
Temperature	
Probe Holders	98
Patented Modular Holders with Open Chlorine Amperometric Cell and Flow Level Control	
Flow-through Holders	
In-line Holders	
Immersion Holders	
Certified Buffer Solutions	106



Solutions for you

At Mytho, we believe in building and maintaining long-term business relationships, so when you partner with us you enjoy a unique experience combining premium-grade products with exceptional customer service and support.



Introducing Myhto

Myhto was born in 2011, when a team of highly skilled, experienced water-treatment professionals came together with a brief to design, manufacture and distribute high-performance metering pumps and chemical analysis systems for a global market.

Myhto began life as a supplier to renowned OEMs and private labels keen to offer their customers the industry's finest metering pumps. In 2020, Myhto took its products to a wider market, enabling the entire water treatment and industrial sectors to benefit from these superior systems.

Our Vision

To be your partner of choice for dosing solutions, globally.

Our Values

Mutual respect – We work alongside you, the customer at every stage as part of a trusting business relationship.

Quality – Operating to the highest standards in every element of our operations, from design and development to production and delivery.

Spirit of collaboration – A non-hierarchical structure means every equally valued member of the Myhto family works together to deliver world-class solutions.

Optional enhancements

We've created a range of optional accessories to complement and enhance your pump, such as atomisers, instrumentation, custom connections and heating systems.

Solutions for the toughest environments

Myhto manufactures high-end dosing systems capable of coping with any operating environment including extreme pressures and flow rates, adverse temperatures, marine locations and explosive environments (ATEX).

Research & development

Myhto's R&D operation is so refined that we have struck the perfect balance between cost and reliability, using only premium components yet delivering an affordable solution.





All Myhto products share a set of key characteristics that make them the systems of choice for discerning operators the world over.

Consistency

Superior system design delivers exceptionally stable dosing for repeatable results in even the most complex processes

Longevity

The use of premium components ensures that Myhto systems achieve high performance and extensive service life with reduced maintenance requirement

Simplicity

While Myhto pumps house complex cutting-edge technology, we ensure that using them is a breeze with intuitive interfaces that make operation clear and simple

Reliability

Robust, durable systems that are built to last and won't let you down no matter how demanding your application

Applications



Water Treatment



Industrial Processes



Livestock Farming



Fertigation



Car Wash



Swimming Pool & Spa



Pulp & Paper



Chemical Industry



Drinking Water



Hospitals



Cooling Towers



Food & Beverage



Textiles



Metal & Mining





IrisLink

Smart remote connectivity
for dosing pump monitoring.



Cloud connection



Wi-Fi connection



Mytho Connectivity Platform

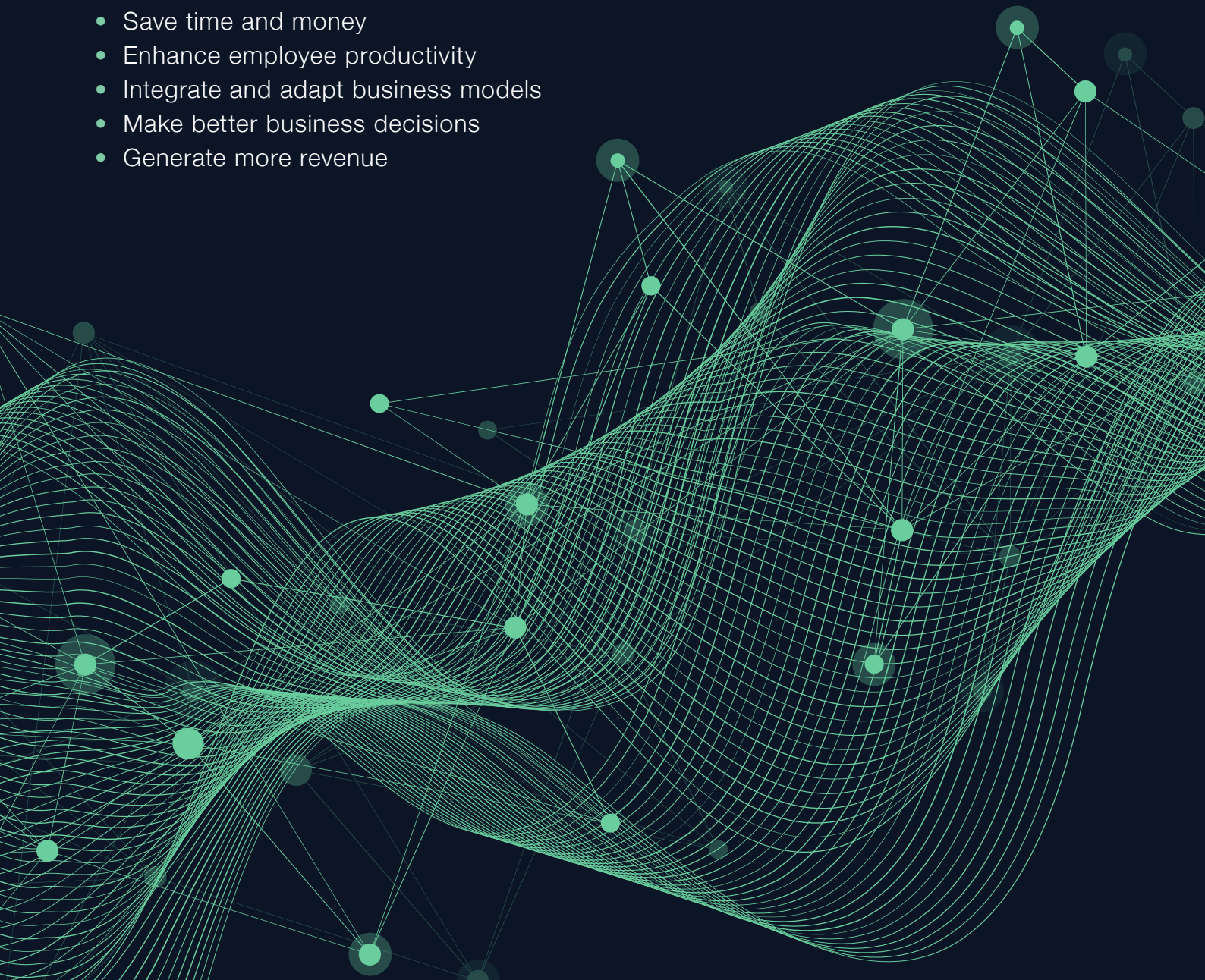
In today's connected world, customers expect to manage their equipment remotely, using the Internet of Things to access operational information via smart device or computer at their convenience. Whether viewing data in real time or analysing it historically, remote connectivity allows costs to be optimised and downtime reduced through targeted maintenance.

MythoLink

With the dedicated MythoLink online platform, Mytho users can connect to their equipment like never before. Whether at work, at home or on the move, operators can access their systems across multiple locations worldwide in an instant from a single intuitive platform.

Mytho's IoT-enabled systems allow users to:

- Monitor their overall business processes
- Improve customer experience
- Save time and money
- Enhance employee productivity
- Integrate and adapt business models
- Make better business decisions
- Generate more revenue



IrisLink



The IrisLink system is a dedicated unit that connects to all web-accessible Mytho devices fitted with Modbus serial ports, creating a vital link between the equipment and Wi-Fi for internet access.

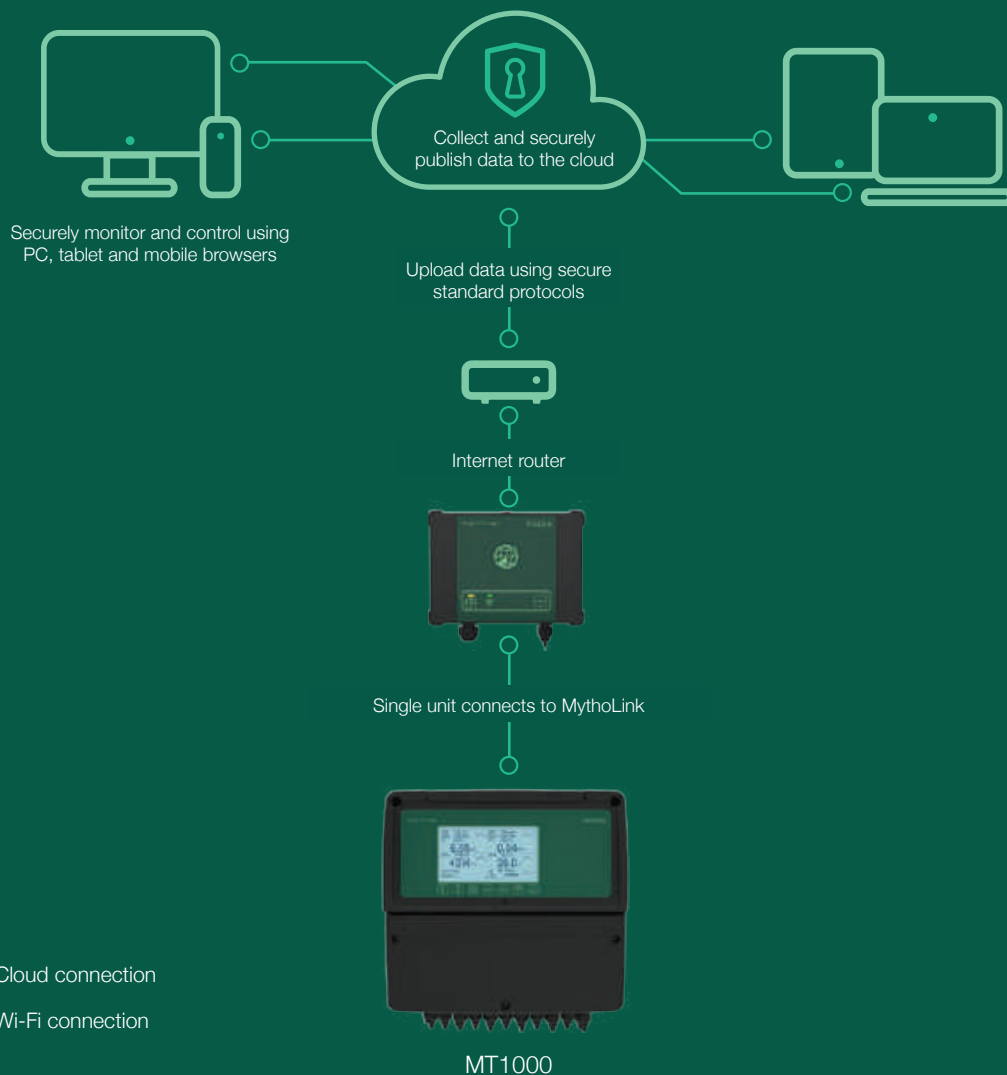
IrisLink is compatible with both the MythoLink online portal and once installed and calibrated can be accessed by any authorised user.

IrisLink can be quickly and easily connected to the MythoLink platform by scanning a QR code, while an intuitive wizard installation system makes the process fast, simple and hassle-free. Once the product has been installed, users can locate it in the portal itself.

IP65 Enclosure

Dimensions 218 x 180.5 x 46 mm (LxHxD)

Material ABS



Legend

-  --- Cloud connection
-  --- Wi-Fi connection

Hyperion Series



SOLENOID-DRIVEN DOSING PUMPS

Powerful microprocessor technology delivers precise, consistent and reliable chemical dosing for water-treatment systems and industrial processes where superior chemical compatibility is required.



M Series & H Series

WALL-MOUNTED SOLENOID DOSING PUMPS

The multi-model M Series and H Series pumps deliver accurate, consistent chemical dosing for a wide range of applications, from basic requirements to complex high-end processes.

Built with premium-grade components, M Series and H Series pumps are the solution of choice for discerning operators responsible for potable and wastewater treatment processes, with Mytho's continuous refinement of these systems meaning they always meet up-to-date legislation.



APPLICATIONS

- Commercial swimming pools
- Cooling water treatment
- Food & beverage
- Industrial water treatment
- Potable water treatment
- Power generation
- Wastewater treatment



Features & benefits



Easy to fit

The installer-friendly bracket enables quick and simple wall mounting.



Premium seals

Available with special seals in FFKM or PTFE.



Quality and strength

Pump body comes in PVDF as standard.



Long-life diaphragm

PTFE diaphragm, guaranteed for 5 years.



Reliable seals

Standard seals in FKM-B or EPDM.



Robust and reliable

Durable design ensures extended service life.



Y Series & T Series

DIGITAL BASE-MOUNTED DOSING PUMPS

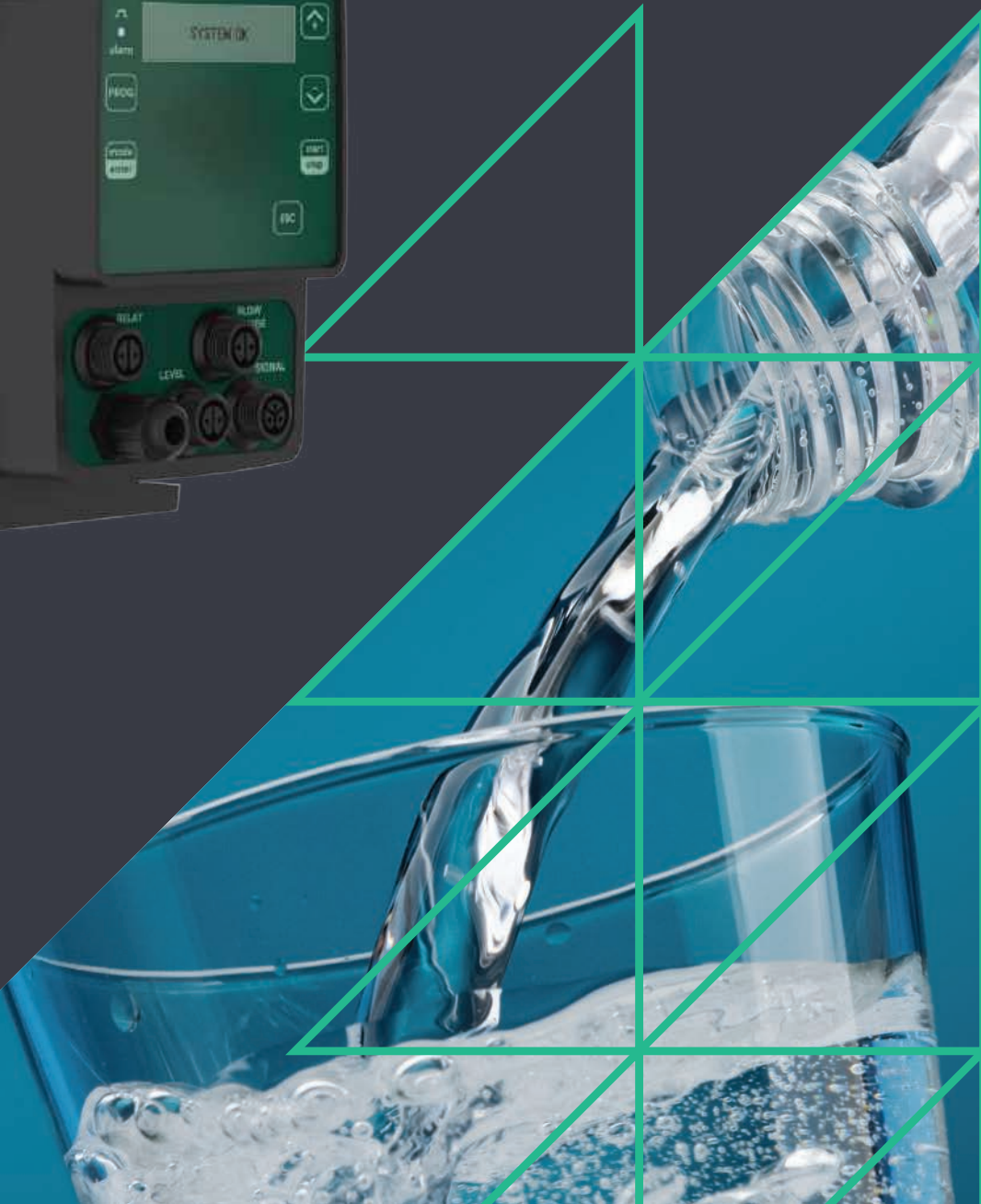
Mytho's Y Series and T Series pumps bring professional solenoid-driven dosing to a wide range of market applications, designed with specialist features that enhance precision and consistency even in challenging conditions.

These accurate, dependable pumps include level input on all models and standard seals in FKM-B or EPDM, with special seals available for each model.



APPLICATIONS

- Agricultural water treatment
- Food & beverage
- Industrial water treatment
- Potable water treatment
- Wastewater treatment
- Hydroponics
- Aquaculture
- Chemicals



Features & benefits



Chemical compatibility

PVDF pump head and delivery tubes and fittings plus ceramic ball valves provide pump longevity and compatibility with all principal water-treatment applications.



Reduced energy consumption

A stabilised multi power supply (100 - 240 Vac, 50/60 Hz) comes as standard, with its solenoid-driving algorithms, patented by Mytho, helping to reduce energy consumption.



Reliable and consistent

As well as protecting the pump itself and the environment, the driving algorithm compensates for power supply fluctuations, enabling precise and accurate dosing in any conditions.



Mechanical stroke adjustment available on T Series version



Ease of installation

Pumps can be installed with the casing closed and without special tools.



Electrical safety

All electrical connections are available externally on circular IP65 connectors.



Long-life diaphragm

PTFE diaphragm, guaranteed for 5 years.



Simplified cabling

Cable connectors have internal screw terminals, facilitating a clean and professional installation with cables pre-cut to the correct size.



M Series

COMPACT WALL-MOUNTED SOLENOID-DRIVEN DOSING PUMPS

The M Series is a range of reliable and compact solenoid-driven pumps, built to be wall mounted in water-treatment applications. These pumps have been created in response to the market's varying needs, and include analogue and digital models that meet the most common installation conditions.

- Flow rate range: 3 l/h @ 10bar; 5 l/h @ 8 bar
- Wetted parts: PVDF, PTFE, EPDM, FKM-B and ceramic
- Analogue and digital range with constant or proportional dosage

Features

- Pump body in PVDF
- Kit available in PVDF
- **MS:** Constant, with analogue interface (potentiometer)
- **MG:** Multifunction prop. (4-20mA/pulse), digital interface
- Available with special seals in FFKM
- M Series has been designed as a basic range of solenoid-driven pumps for less demanding applications without compromising on robustness and reliability.
- With M Series, Mytho has struck the perfect balance between using premium components that guarantee full chemical compatibility in multiple applications while ensuring affordability for the operator.
- To satisfy every installation need, the range offers five different models, for constant and proportional dosages; three with an Analogue interface (potentiometer) and two with a digital interface (keyboard and 2x8 display).



M Series key code

Model										
MS		Analogue interface - Constant flow rate manually adjustable.								
MG		Digital interface - Constant flow rate, manually adjustable. Proportional flow rate according to an external analogue (4-20 mA) or digital signal (water meter, 1:n or n:1). Timed dosing with a weekly programmable timer; Dosage in ppm; Dosage batch; Statistics; Password; Input ON-OFF (remote switch)								
	Hydraulics	Pressure [bar]	Flow rate [l/h]	Capacity [cc/stroke]	Frequency [stroke/min]	Ø Hydr Connections IN / EXT.[mm]				
		08	10	3	0.31	160	4 / 6			
		8	5	0.52						
	Power supply									
	A	230 Vac							MS model	
	N	100÷240 Vac 50/60 Hz							MG model	
	Liquid end					Body				
	H					PVDF				
	Installation kit									
	H	PVDF							Standard	
	X	with 1.5 bar injection valve								
	Seals									
	0	FKM-B								
	1	EPDM								
	3	FFKM							installation kit with PTFE seals	
	Market									
	0									
	Customisation									
	N									
	Optional									
0										
MS	08	A	H	H	0	0	N	0		

Y Series

BASE-MOUNTED SOLENOID-DRIVEN DOSING PUMPS

The Y Series is a range of base-mounted digital solenoid-driven dosing pumps. These state-of-the-art systems bring reliability, dosing precision and ease of use to multiple water-treatment and industrial applications, offering a wide range of flow rates and superior chemical compatibility. Meanwhile, the T Series is available with a Modbus RTU RS485 suitable to connect with IrisLink for remote management via the MythoLink app and online portal.

- Flow rate range: 2.5 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, FFKM, EPDM, FKM-B and ceramic



Features

- YL: Constant dosing at the desired flow rate
- YG: Multifunction
- YR: Instrument-pump with pH/ORP input
- Available with special seals in PTFE or FFKM
- Available with Modbus RTU RS485 port
- The YL and YG models offer constant and multifunction dosing respectively
- An YR instrument-pump is also available, with an input for a pH/ORP probe. The YR and YG versions are also available with a Modbus communication port for integrating the pump into a more complex system, or with a Wi-Fi interface that allows the pump to be managed via MythoLink.

Y Series key code

Model											
YL	Digital interface - Constant flow rate manually adjustable. Level control input.										
YG	Digital interface - Constant flow rate, manually adjustable. Proportional flow rate according to an external analogue (4-20 mA) or digital signal (water meter, 1:n or n:1). Timer function, ppm proportional dosing. Statistics. Password input ON-OFF (remote control). Modbus protocol available.										
YR	Digital interface - Constant flow rate, manually adjustable. Proportional dosing according the measured pH or redox value. PT100 probe input for thermal compensation. Repetition alarm relay. Input On-Off for remote control. 4÷20 mA output for measure transmission. Available with Modbus protocol.										
	Hydraulics	20	Pressure [bar]	Flow rate [l/h]	Capacity [cc/stroke]	120	Ø Hydr Connections IN / EXT.[mm]				
			20	2.5	0.35						
			18	3	0.42						
			14	4.2	0.58						
		30	8	7	0.97	160	4 / 6				
			12	4	0.42						
			10	5	0.52						
			8	6	0.63						
		40	2	8	0.83	300	4 / 6				
			16	7	0.38						
			10	10	0.55						
			5	15	0.83						
	50	1	18	1.00	300	8 / 10					
		5	20	1.11							
		4	32	1.78							
		2	62	3.44							
			0.1	110	6.11						
	Power supply										
			N	100÷240 Vac 50/60 Hz							
			Liquid end	Body							
				H	PVDF						Standard
				A	PVDF - automatic degassing						not for hydraulic 50
				I	SS316L						
			Installation kit	Body							
				H	PVDF						Standard
				X	with 1.5 bar injection valve						
		0		WITHOUT kit						only with liquid end "I"	
		Seals									
			0	FKM-B							
			1	EPDM							
			2	PTFE							
			3	FFKM						Installation kit with PTFE seals (not for Hydraulic 50)	
		Market									
			0								
		Customisation									
			N								
			Optional								
		0								standard	
		M		Modbus						not for YL	
YL	30	N	H	H	0	0	N	0			

T Series

SOLENOID-DRIVEN PUMPS WITH MECHANICAL STROKE-LENGTH REGULATION

The T Series is a range of base-mounted digital solenoid-driven dosing pumps with mechanical stroke-length regulation. These state-of-the-art systems bring reliability, dosing precision and ease of use to multiple water treatment and industrial applications, offering a wide range of flow rates and superior chemical compatibility. Meanwhile, the T Series is available with a Wi-Fi interface for remote management via the MythoLink online portal.

- Flow rate range: 2.5 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, PTFE, FFKM, EPDM, FKM-B and ceramic



Features

- Mechanical stroke length regulation
- TL: Constant dosing at the desired flow rate
- TG: Multifunction:
 - 4-20mA analogue input
 - Frequency input
 - Remote ON / OFF input
 - Directly connectable to a water meter
 - Dosage in ppm
 - Functions 1: N, N: 1, 1: 1
 - Timed dosing
- T Series' unique features include a digital interface that allows programming via keyboard and display, while solenoid stroke adjustment can be performed with a mechanical knob for increased dosing precision.
- T Series is available in two models. The TL is a constant dosing pump with adjustable flow rate, while the TG is a multifunction pump that includes operating modes timed or proportional to an analogue 4-20mA signal, or to a digital signal such as that generated by a pulse-emitting water meter.
- T Series is also available with a Modbus interface, which allows the pump to be integrated into a more complex system in which other Modbus devices are already present. It's also available with a Wi-Fi interface.
- Available with special seals in PTFE or FFKM
- Available with Modbus RTU RS485 port
- Connect via RS485 to IrisLink for:
 - Direct local connection to the pump for programming via internal webserver
 - Connection to a Wi-Fi network for remote management via the MythoLink app or online portal

T Series key code

Model											
TL	Digital interface - Constant flow rate manually adjustable. Available with stroke length regulation.										
TG	Digital interface - Constant flow rate, manually adjustable. Available with stroke length regulation. Proportional flow rate according to an external analogue (4-20 mA) or digital signal (water meter, 1:n or n:1). Timer function, ppm proportional dosing. Statistics. Password Input ON-OFF (remote control). Available with Modbus protocol.										
	Hydraulics	20	Pressure [bar]	Flow rate [l/h]	Capacity [cc/stroke]	120	Ø Hydr Connections IN / EXT.[mm]				
			20	2.5	0.35						
			18	3	0.42						
			14	4.2	0.58						
		30	8	7	0.97						
			12	4	0.42						
			10	5	0.52	160	4 / 6				
			8	6	0.63						
		2	8	0.83							
		40	16	7	0.38						
			10	10	0.55	300	4 / 6				
			5	15	0.83						
			1	18	1.00						
		50	5	20	1.11			300	8 / 10		
			4	32	1.78						
			2	62	3.44						
	0.1		110	6.11							
	Power supply										
	N		100÷240 Vac 50/60 Hz								
			Liquid end	Body							
			H	PVDF							Standard
			A	PVDF - automatic degassing							not for hydraulic 50
			I	SS316L							
				Installation kit	Body						
				H	PVDF						Standard
				X	with 1.5 bar injection valve						not for hydraulic 50
			0	WITHOUT kit						only with Liquid End "I"	
				Seals							
				0	FKM-B						
				1	EPDM						
				2	PTFE						
				3	FFKM					Installation kit with PTFE seals (not for Hydraulic 50)	
					Market						
					0						
						Customisation					
						N					
							Optional				
							0			Standard	
							M			Modbus	
YL	30	N	H	H	0	0	N	0			

H Series

WALL-MOUNTED SOLENOID-DRIVEN DOSING PUMPS

The ever-popular H Series is one of Mytho's best-selling pump Series, with these wall-mounted electromagnetic systems evolving over the years by drawing upon the feedback of thousands of users across the globe.

The series comprises multiple analogue and digital models that meet the needs of every installation and deliver reliable and effective solutions in multiple water-treatment processes.

- Flow rate range: 0.4 – 110 l/h, up to 20 bar
- Wetted parts: PVDF, SS316L, PTFE, FFKM, EPDM, FKM-B and ceramic
- Analogue and digital range with constant or proportional dosage



Features

- Pump body in PVDF
- Kit available in PVDF
- MythoLink compatible for 24/7 remote management
- HS: Constant, with analogue interface (potentiometer)
- HL: Constant with level, analogue interface
- HP: Proportional (4-20mA/pulse), analogue interface
- HG: Multifunction prop. (4-20mA/pulse), digital interface
- HR: Instrument-pump with pH/ORP input, digital interface
- HK: Weekly timed pump, digital interface
- The H Series delivers reduced energy consumption courtesy of a patented stabilised multi-range power supply (100 – 240 Vac, 50/60 Hz) which reacts to live working conditions to only draw the power required to activate the pump. The algorithm also compensates for power supply fluctuations to provide precise and accurate dosing in all conditions.

H Series key code

Model									
HS	Analogue interface - Constant flow rate, manually adjustable.								
HL	Analogue interface - Constant flow rate, manually adjustable. Level control input.								
HP	Analogue interface - Constant flow rate, manually adjustable. Proportional flow rate according to an external analogue (4-20 mA) or digital signal (water meter, 1:n or n:1).								
HG	Digital interface - Constant flow rate, manually adjustable. Proportional flow rate according to an external analogue (4-20 mA) or digital signal (water meter, 1:n or n:1). Timer function, ppm proportional dosing. Statistics. Password Input ON-OFF (remote control). Available with communication via Modbus protocol.								
HK	Digital interface - Constant flow rate, manually adjustable. Timed dosing with a weekly programmable timer, programmable timed relay by activating a dry contact								
HR	Digital interface - Constant flow rate, manually adjustable. Proportional dosing according the measured pH or redox value. PT100 probe input for thermal compensation. Repetition alarm relay. Input On-Off for remote control. 4÷20 mA output for measure transmission. Available with communication via Modbus protocol.								

O Series

WALL-MOUNTED SOLENOID-DRIVEN DOSING PUMP

Mytho's O Series is a dedicated solenoid-driven chemical dosing pump that has been developed especially for use in potentially explosive atmospheres, making it suitable for operation in mining, quarrying and oil and gas processes among others.

Built with an ultra-resilient IP65-rated stainless-steel body, the O Series retains all the functionality of Mytho's solenoid-driving dosing range, including constant or proportional dosage functions and a digital interface.

- Flow rate range: 0.4 - 110 l/h
- Stroke rate: 120 - 300 strokes/minute
- Maximum backpressure: 20 bar

Features

- SS316L pump body as standard
- Kit available in PVDF or PVDF-T
- Patented algorithm for solenoid operation
- Models available with 24Vac and 12Vdc power supply
- Available with special seals in PTFE or FFKM
- The O Series has been designed to allow operators to benefit from Mytho's exceptional solenoid-driven dosing pump precision and consistency even in volatile environments exposed to explosion risk.
- This specialist model is rated for ATEX Zone 2 use, classified as a medium-risk environment with the presence of potentially explosive gases and vapours.



CEII 3GD
Ex ic nA IIB T4 Gc
Ex tc III CT120°C Dc IP65

O Series key code

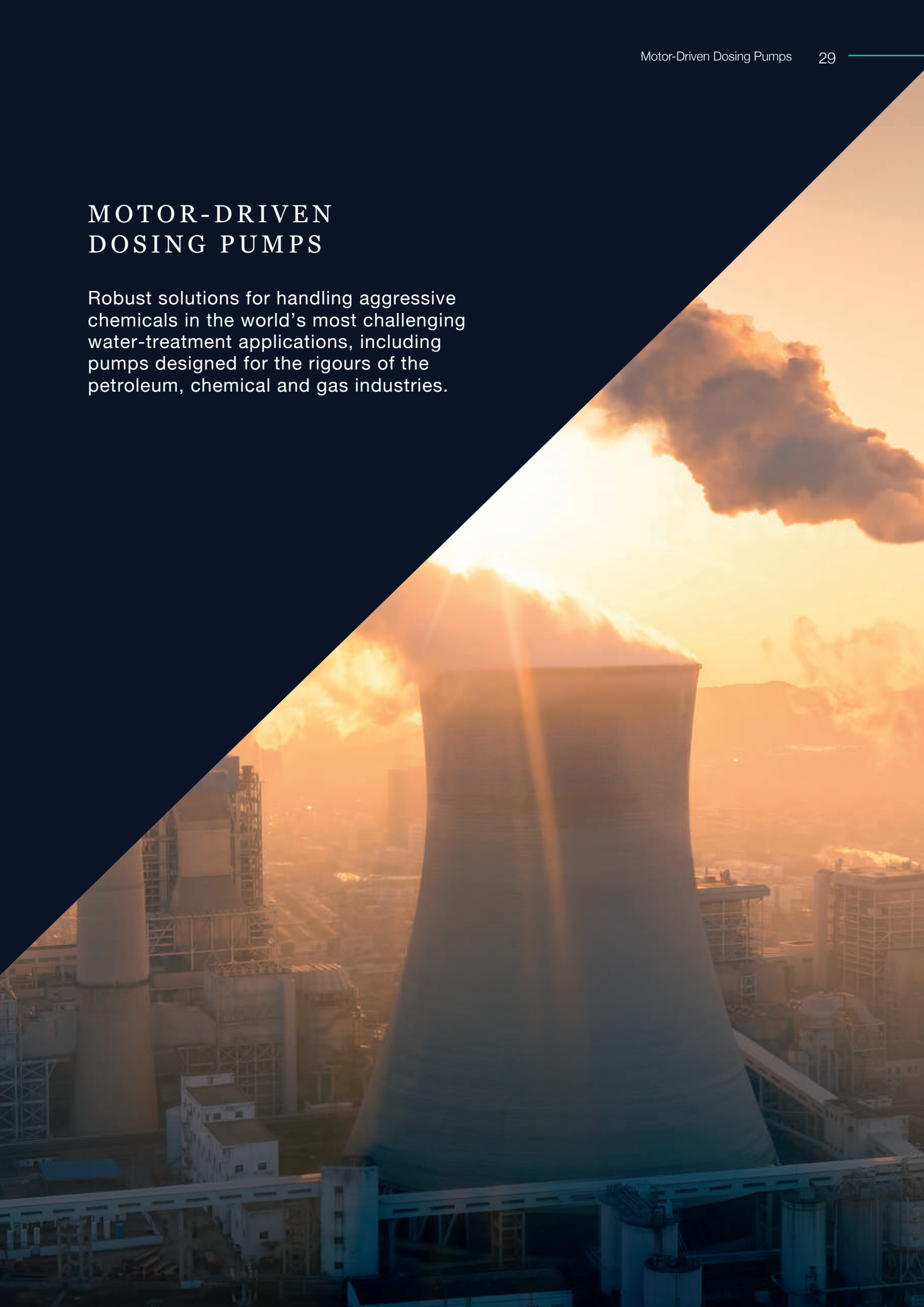
Model										
OG		Digital interface - Constant flow rate, manually adjustable. Proportional flow rate according to an external analogic (4-20 mA) or digital signal (water meter, 1:n or n:1). Timer function, ppm proportional dosing. Statistic. Password Input ON-OFF (remote control). Available with communication via Modbus protocol.								
OK		Digital interface - Constant flow rate, manually adjustable. Timed dosing with a weekly programmable timer, programmable timed relay by activating a dry contact								
	Hydraulics	10	20	0.4	0,06	120	Ø Hydr Connections IN / EXT.[mm] 4 / 7 discharge 4 / 6 suction			
			16	0.8	0,11					
			10	1.2	0,17					
			6	1.5	0,21					
		20	20	2.5	0,35	120	4 / 7 discharge 4 / 6 suction			
			18	3	0,42					
			14	4.2	0,58					
			8	7	0,97					
		30	12	4	0,42	160	4 / 6			
			10	5	0,52					
			8	6	0,63					
			2	8	0,83					
	40	16	7	0,38	300	4 / 6				
		10	10	0,55						
		5	15	0,83						
		1	18	1,00						
	50	5	20	1,11	300	8 / 12				
		4	32	1,78						
		2	62	3,44						
		0.1	110	6,11						
	Power supply									
	N		100÷240 Vac 50/60 Hz							
	Liquid end		Body							
	H		PVDF							
	I		SS316L							
	Installation kit		Body							
	H		PVDF							
	X		with 1.5 bar injection valve						not for hydraulic 50	
	0		without kit						only with Liquid End "I"	
	Seals									
	0		FKM-B							
	1		EPDM							
2		PTFE						Standard with Liquid End "I"		
3		FFKM						Installation kit with PTFE seals (not for Hydraulic 50)		
Market										
0										
Customisation										
X		ATEX								
Optional										
0										
HL	20	N	H	H	0	0	X	0		

Titan Series



MOTOR-DRIVEN DOSING PUMPS

Robust solutions for handling aggressive chemicals in the world's most challenging water-treatment applications, including pumps designed for the rigours of the petroleum, chemical and gas industries.



Titan Series: Robust and reliable motor-driven dosing for water and industry

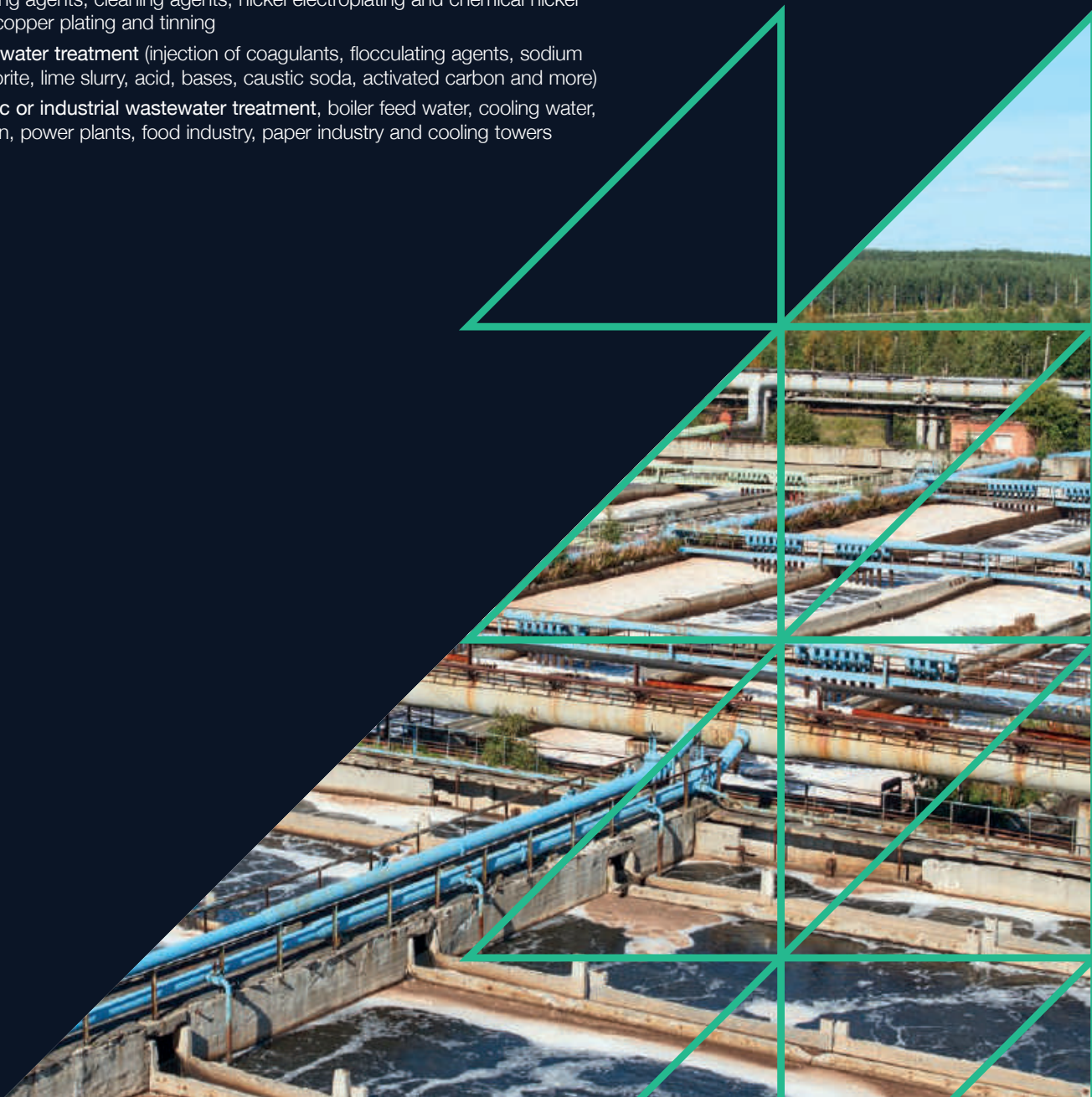
Featuring a spring return mechanism in an aluminium housing, these pumps always deliver robust, affordable and efficient power.

- Mytho's entry-level offering in motor-driven pumps is the Titan Series, a range of pumps based on the spring return principle. Three mechanism sizes and a wide selection of models with varying performance profiles allow the user to find the appropriate solution for almost any application, offering accurate dosing under varying pressure conditions.
- Available both in plunger piston and mechanically actuated diaphragm versions, Mytho's Titan Series pumps can be used almost universally in low-pressure applications and guarantee, in the membrane version, a zero-leakage dosing solution. Meanwhile, these systems offer flexibility in stroke length and motor speed, and can be coupled in various combinations.

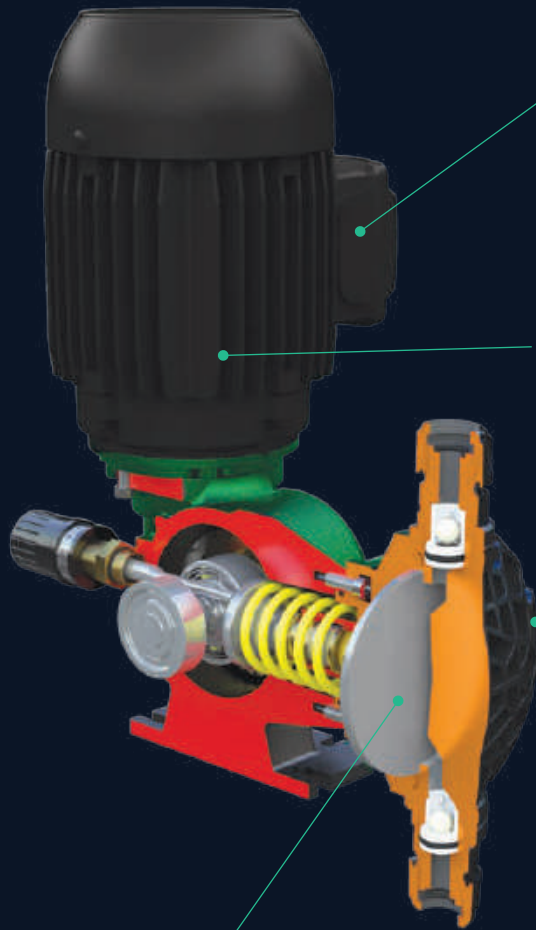
A wide range of applications

Designed for multiple applications including a variety of water-treatment processes, the Titan Series can be used in any of the following:

- **Chemical treatment**, electrolytic (electroplating) treatments: addition of degreasing agents, cleaning agents, nickel electroplating and chemical nickel plating, copper plating and tinning
- **Potable water treatment** (injection of coagulants, flocculating agents, sodium hypochlorite, lime slurry, acid, bases, caustic soda, activated carbon and more)
- **Domestic or industrial wastewater treatment**, boiler feed water, cooling water, fertigation, power plants, food industry, paper industry and cooling towers



Features & benefits



Optional extras

Almost all models are also available in the V Series version which, thanks to integration with an inverter including 4-20mA and pulse inputs, allows them to be managed with menus and functions typical of proportional dosing pumps



Ultra-reliable Titan Series

The Titan Series includes a broad range of hydraulic configurations, reaching high flow rates up to 1,000 l/h, and back-pressure up to 20 bar



Low operating costs

Outstanding ease of programming coupled with low maintenance requirement



Diaphragm options

Mechanical diaphragm in PTFE



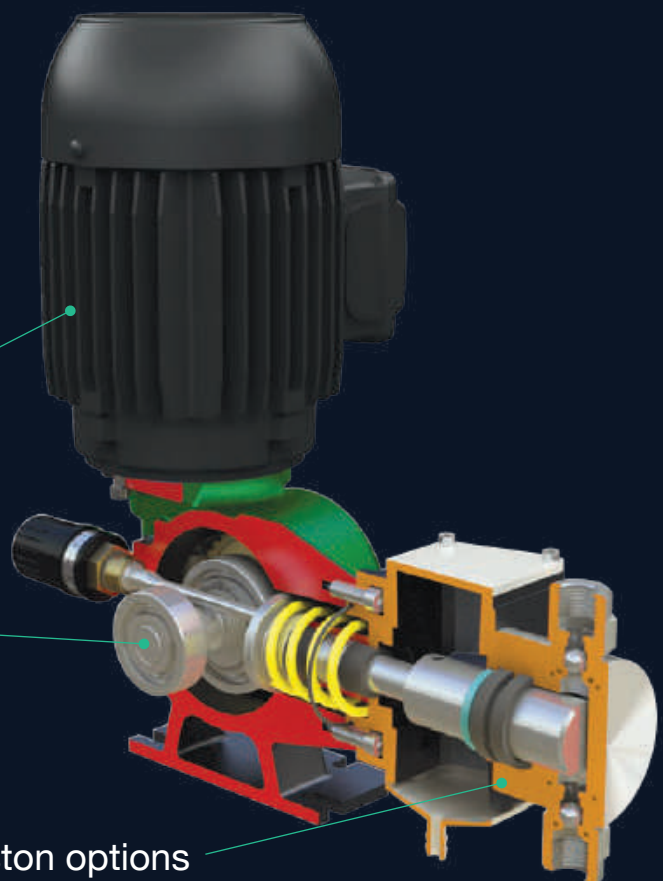
Energy-efficient motors

A broad selection of motors available to meet your application requirements



Chemical applications

A wide range of materials available for superior chemical compatibility and suitable for high-viscosity applications



Piston options

Piston available as standard in SS316 or ceramic

D1 Titan Series

SPRING-RETURN MECHANICAL DIAPHRAGM DOSING PUMP

- Flow-rate range: 5.5 - 500 l/h, up to 16 bar
- Wetted parts: SS316L, PVC, PP, PVDF, PTFE, FPM, EPDM and ceramic
- The D1 pump offers multiple combinations of pump head motors, stroke lengths and materials that allows operators the chance to select the optimal combination appropriate to the specific application.
- This membrane pump represents an absolutely safe and leak-free solution, to be used wherever chemical leaks typical of some plunger piston pumps are not acceptable.
- To change the flow rate of the pump, the stroke length can be adjusted manually with a knob or even automatically by servo-motor input 4-20mA.
- Titan Series D1 pumps can be supplied with a single or three-phase electric motor with IP55 protection, as well as with a DC motor working at 12 Vdc range that allows the pump to achieve flow rates between 23 and 620 l/h at pressure up to 16 bar.



Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]			Connections		Motor [kW/pole]	Weight [kg]	
					SS316L	PP/ PVC	PVDF	SS316L	Other		SS316L	Other
D1E064U**A4000	64	2	58	5.5	16	10	10	BSPf 1/4"	BSPf 1/4"	0.18/4 (A4)	10.5	8.5
D1E064V**A4000			78	8								
D1E064X**A4000			116	11								
D1E094U**A4000	94	2	58	20	16	10*	10*	BSPf 3/8"	BSPf 1/4"	0.18/4 (A4)	11.0	8.5
D1E094V**A4000			78	26								
D1E094X**A4000			116	40								
D1D108U**A4000	108	4	58	60	10	10*	10*	BSPf 3/8"	BSPf 3/8"	0.18/4 (A4)	13.5	10.0
D1D108V**A4000			78	80								
D1D108X**A4000			116	120								
D1C138U**C4000	138	6	58	155	7	7	7	BSPf 3/4"	BSPf 3/4"	0.37/4 (C4)	18.5	12.5
D1C138V**C4000			78	220				BSPf 1"	BSPf 1"			
D1C138X**C4000			116	310				BSPf 1"	BSPf 1"			
D1C165U**C4000	165	6	58	230	5	5	5	BSPf 1"	BSPf 1"	0.37/4 (C4)	22.0	13.5
D1C165V**C4000			78	330								
D1C165X**C4000			116	500								

* Available with special Enforced Pump Head for use up to 16 bar

D1 key code

Model										
D1										
Stroke length										
E	2 mm									
D	4 mm									
C	6 mm									
Diaphragm diameter [Ømm]										
064	64 mm									
094	94 mm									
108	108 mm									
138	138 mm									
165	165 mm									
Reducer ratio Stroke/min [4 poles motor]										
U	24:1	58								
V	18:1	78								
X	12:1	116								
Liquid end Pump head Diaphragm Valve Seat O-Ring										
AA	SS316L	PTFE	SS36L	SS36L	FPM					
PV	PVC		Ceramic	PTFE	FPM					
PP	PP		Ceramic	PTFE	FPM					
FF	PVDF		Ceramic	PVDF	FPM					
PA	PP		SS36L	SS36L	FPM					
AE	S.S.316		SS36L	SS36L	EPDM					
PD	PP		Ceramic	PTFE	EPDM					
PE	PVC		Ceramic	PTFE	EPDM					
FE	PVDF		Ceramic	PVDF	EPDM					
Pump head kW Size Power supply										
S0	Without motor		3PH 230/400V 50/60 Hz - TFC							
A4	0,18	M63-B14		1PH 230V - 50Hz						
C4	0,37	M71-B14		12Vdc						
H4	0,25	M71-B14								
L4	0,55	M80-B14								
C0	0,40	M71-B14								
Stroke length regulation										
0	Manual		[0-100% of stroke length]							
L	Electric Actuator		[4-20mA input/output]							
Customisation										
0										
Optional										
0	Standard									
2	S0 (without motor) + adapter Kit									
E	Servoventilated (power supply 230V)									
M	Material certificate EN10204 -2.2									
D1	C	165	X	PP	C4	0	0	0		

D1 HF Titan Series

SPRING-RETURN DIAPHRAGM PUMP WITH ASSISTED VACUUM SYSTEM®

- Flow rate range: 450 - 1,200 l/h, up to 4.5 bar
- Wetted parts: SS316L, PVC, PP, PVDF, PTFE, FPM, EPDM and ceramic
- D1 HF is fitted with Mytho's AVS (Assisted Vacuum System®), a technical solution that helps overcome the typical functional limitations of pumps with a spring return. Using this mechanism allows pump performance to be improved by allowing dosing frequency to be raised (stroke/min) without compromising diaphragm lifespan.
- AVS enables D1 HF to reach a flow rate of 1,200 l/h while keeping noise and mechanical stress at a reduced level. Each model can be configured with two different stroke rates and is supplied with a three-phase 2-pole electric motor with IP55 protection.



Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections	Motor [kW/pole]	Weight [kg]	
								SS316L	Other
D1C138H**W200A	138	6	156	450	4.5	BSPF 1"	0.55/2 (W2)	18.5	12.5
D1C138Q**W200A			232	750				18.5	12.5
D1C165Q**W200A	165		232	1,200	2			22.0	13.5

D1 HF key code

Model									
D1									
Stroke length									
C6 mm									
Diaphragm diameter [Ømm]									
165165 mm									
Reducer ratioStroke/min [2 poles motor]									
H18:1156									
Q12:1232									
Liquid endPump headDiaphragmValveSeatO-Ring									
AASS316LSS36LSS36LFFM									
PVPVCCeramicPTFEFFM									
PPPPCeramicPTFEFFM									
FFPVDFCeramicPVDFFFM									
PAPPPTEFSS36LSS36LFFM									
AES.S.316SS36LSS36LEPDM									
PDPPCeramicPTFEEPDM									
PEPVC CeramicPTFE EPDM									
FEPVDF CeramicPVDF EPDM									
Motor powerkWSizePower supply									
S0WITHOUT motor									
W20,55M71-B143PH 230/400V 50/60 Hz - TFC									
Y20,75M71-B141PH 230V - 50Hz									
Stroke length regulation									
0Manual[0-100% of stroke length]									
LElectric Actuator[4-20mA input/output]									
Customisation									
0									
Optional									
AStandard									
2S0 (without motor) + adapter Kit									
D1	C	165	Q	PP	W2	0	0	A	

SPRING-RETURN PLUNGER PISTON DOSING PUMP

-

Model	Piston diameter	Strokes/min	Flow rate l/h	Max pressure				Connections		3-phase motor kW
				bar		psi				
				AISI 316	PVC	AISI 316	PVC	AISI 316	PVC	
R1B006U**A4000	6	58	1.5	20	10	290	145	1/4" G F	1/4" G F	0.18
R1B006X**A4000		116	3							
R1B011U**A4000	11	58	5	20	10	290	145	1/4" G F	1/4" G F	0.18
R1B011X**A4000		116	10							
R1B017U**A4000	17	58	11	20	10	290	145	3/8" G F	3/8" G F	0.18
R1B017X**A4000		116	22							
R1B025U**A4000	25	58	25	20	10	290	145	3/8" G F	3/8" G F	0.18
R1B025X**A4000		116	50							
R1B030U**B4000	30	58	35	20	10	290	145	3/8" G F	3/8" G F	0.25
R1B030X**B4000		116	70							
R1B038U**B4000	38	58	55	17	10	246.5	145	3/8" G F	3/8" G F	0.25
R1B038X**B4000		116	110							
R1B048U**B4000	48	58	85	10	10	145	145	1/2" G F	1/2" G F	0.25
R1B048X**B4000		116	170							
R1B054U**B4000	54	58	110	8	8	116	116	1/2" G F	1/2" G F	0.25
R1B054X**B4000		116	220							
R1B064U**B4000	64	58	152	6	4	87	58	3/4" G F	3/4" G F	0.25
R1B064X**B4000		116	304							

R1 key code

Model									
R1									
Stroke length									
B 15 mm									
Plunger diameter									
006 6 mm									
011 11 mm									
017 17 mm									
025 25 mm									
030 30 mm									
038 38 mm									
048 48 mm									
054 54 mm									
064 64 mm									
Reducer ratio Stroke/min [4 poles motor]									
U 24:1 58									
X 12:1 116									
Liquid end Pump head Gasket Plunger Seat O-Ring Ball valve									
AA SS316L FPM SS316L SS316L FPM SS316L									
AF SS316L EPDM SS316L SS316L EPDM SS316L									
PV PVC FPM Ceramic PTFE FPM Ceramic									
PE PVC EPDM Ceramic PTFE EPDM Ceramic									
Motor power kW Size Power supply									
S0 Without motor									
A4 0,18 M63-B14 3PH 230/400V 50/60 Hz - TFC									
C4 0,37 M71-B14									
H4 0,25 M71-B14 1PH 230V - 50Hz									
L4 0,55 M80-B14									
C0 0,40 M71-B14 12Vdc									
Stroke length regulation									
0 Manual [0-100% of stroke length]									
L Electric Actuator [4-20mA input/output]									
Customisation Customisation									
0 0									
Optional									
0 Standard									
2 S0 (without motor) + adapter Kit									
E Servoventilated (power supply 230V)									
M Material certificate EN10204 -2.2									
R1	B	011	U	AA	A4	0	0	0	

SPRING-RETURN PLUNGER PISTON DOSING PUMP

-
- A 3D rendering of a compact industrial pump assembly. It features a green pump body with a black motor on top. The motor has a black, ribbed cooling fan. To the right of the pump body is a black rectangular control box. Further right is a grey, cylindrical valve assembly with four ports, each equipped with a black cap. The entire unit is mounted on a black base. The background is white with a light green geometric pattern of intersecting lines.

Specification

Model	Piston diameter	Strokes/ min	Flow rate l/h	Max pressure				Connections		3-phase motor kW
				bar		psi		AISI 316	PVC	
				AISI 316	PVC	AISI 316	PVC			
R2A025U**T4000	25	58	40	20	10	290	145	3/8" G F	3/8" G F	0.25
R2A025X**T4000		116	80							
R2A030U**T4000	30	58	55	20	10	290	145	3/8" G F	3/8" G F	0.25
R2A030X**T4000		116	112							
R2A038U**U4000	38	58	90	20	10	290	145	1/2" G F	3/8" G F	0.37
R2A038X**U4000		116	180							
R2A048U**D4000	48	58	140	20	10	290	145	1/2" G F	1/2" G F	0.55
R2A048X**D4000		116	284							
R2A054U**D4000	54	58	180	15	10	217.5	145	1/2" G F	1/2" G F	0.55
R2A054X**D4000		116	365							
R2A064U**E4000	64	58	250	10	10	145	145	3/4" G F	3/4" G F	0.75
R2A064X**E4000		116	505							
R2A076U**E4000	76	58	365	7	7	101.5	101.5	1" G F	1" G F	0.75
R2A076X**E4000		116	730							
R2A089U**E4000	89	58	495	5	8	72.5	72.5	1" G F	1" G F	0.75
R2A089X**E4000		116	1000							

R2 key code

Model									
R2									
Stroke length									
A		25 mm							
Plunger diameter									
025		25 mm							
030		30 mm							
038		38 mm							
048		48 mm							
054		54 mm							
054		64 mm							
076		76 mm							
089		89 mm							
Reducer ratio				Stroke/min [4 poles motor]					
U		24:1		58					
X		12:1		116					
Liquid end		Pump head		Gasket		Plunger		Seat	
AA		SS316L		FPM		SS316L		SS316L	
AF		SS316L		EPDM		SS316L		SS316L	
PV		PVC		FPM		Ceramic		PTFE	
PE		PVC		EPDM		Ceramic		PTFE	
Motor power		kW		Size		Ppower supply			
S0		Without motor							
T4		0,25		M71-B5					
U4		0,37		M71-B5		3PH 230/400V 50/60 Hz - TFC			
D4		0,55		M80-B14					
E4		0,75		M80-B14					
Z4		0,37		M71-B5					
L4		0,55		M80-B14		1PH 230V - 50Hz			
M4		0,75		M80-B14					
N4		1,1		M80-B14					
Stroke length regulation									
0				Manual		[0-100% of stroke length]			
L				Electric Actuator		[4-20mA input/output]			
Customization									
0		Standard							
Optional									
0		Standard							
2		S0 (without motor) + adapter Kit							
E		Servoventilated (power supply 230V)							
M		Material certificate EN10204 -2.2							
R2	A	025	U	AA	T4	0	0	0	

R2 HP R Series

SPRING PLUNGER PISTON DOSING PUMP FOR HIGH PRESSURE

- Flow rate range: 2.5 - 12 l/h, up to 100 bar
- Wetted parts: SS316L, PTFE, NBR
- Mytho's R2 HP high-pressure piston dosing pumps can adapt to a large number of applications. Like other variants in the R Series, R2 HP has a spring-return mechanism in a robust aluminium housing but is equipped with a special pump body specifically recommended for high-pressure applications that allow it to dose with backpressures up to 100 bar.
- This model has two stroke rates, with stroke lengths manually settable via a knob. To achieve the given performance, these pumps need to be actuated by a 3-phase motor, provided with an IP55 ingress protection classification.
- R2 HP has been designed for use in processes requiring an economical and practical solution for dosing small amounts of product at high pressure up to 100 bar, such as boiler applications.



Specification

Model	Piston diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections	Motor [kW/pole]	Weight [kg]
R2A006UAPD40H0	6	25	58	2.5	100	BSPm 1/4"	0.55/4 (D4)	10
R2A006XAPD40H0			116	5				
R2A010UAPD40H0	10		58	6				
R2A010XAPD40H0			116	12				

R2 HP key code

Model									
R2									
Stroke length									
A 25 mm									
Plunger diameter									
006 6 mm									
010 10 mm									
Reducer ratio Stroke/min [4 poles motor]									
U 24:1 58									
X 12:1 116									
Liquid end Head Gasket Plunger Seat O-ring Ball valve									
AP SS316L NBR+PTFE SS316L SS316L FPM SS316L									
Motor power kW Size Power supply									
S0 Without motor 3 PH 230/400V									
D4 0,55 M80-B14 50/60 Hz - TFC									
Stroke length regulation									
0 Manual [0-100% of stroke length]									
L Electric Actuator [4-20mA input/output]									
Custmization									
H High Pressure									
Optional									
0 Standard									
2 S0 (without motor) + adapter Kit									
E Servoventilated (power supply 230V)									
M Material certificate EN10204 -2.2									
R2	A	010	U	AP	D4	0	H	0	

V Series

WITH ELECTRONIC CONTROL FOR PROPORTIONAL DOSING

Mytho brings IoT to mechanical chemical dosing

Mytho has used the power of data on demand and the Internet of Things (IoT) to bring users closer than ever to their systems with V Series, a groundbreaking controller that provides invaluable live and historical data on demand from any location worldwide.

Currently available for use with the Titan Series of motor-driven pumps, V Series uses an integrated web server to give water-treatment application managers the power to remotely monitor and adjust key pump parameters such as chemical dosage and flow rate 24/7 via PC, laptop, tablet or smartphone.

This round-the-clock connectivity offers vast potential for precise digital dosing, process optimisation and cost control in multiple applications.



Features & benefits

Digital control

- **Multiple operating modes** – timed, batch, manual, proportional from analogue or digital signals: 1:N, and N:1
- **Intelligent graphic display** – shows red, yellow or green backlight, according to the current operating function
- Electronic control unit interface **can be fixed in multiple positions** to facilitate operation/installation

Advantages of the V Series

- **Includes a broad range of hydraulic configurations**, reaching high flow rates up to 1,000 l/h and backpressure up to 20 bar
- **Wide range of applications** - suitable for high-viscosity chemical applications
- **Exceptionally low application costs** due to outstanding ease of programming coupled with low maintenance requirement
- **Energy-efficient** motors plus a wide range of materials available for superior chemical compatibility

IoT connection

- **Remote programming and monitoring** of the pump via any internet-connected device.
- **Wireless local connection to the pump** courtesy of RS485 and IrisLink.
- **Data on demand** grants secure remote data management and programming of the pump via the MythoLink portal from any location worldwide
- **Real-time and historic data available 24/7** directly to any smart device or PC, including alarms to help drive **effective maintenance planning** and rapid technical intervention



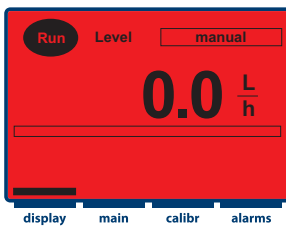
V Series

MOTOR-DRIVEN PUMPS WITH SPRING RETURN, ELECTRONIC CONTROL AND IOT

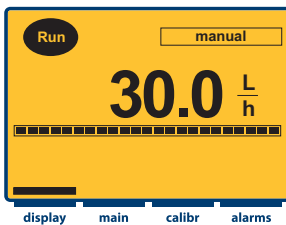


Smart graphic display

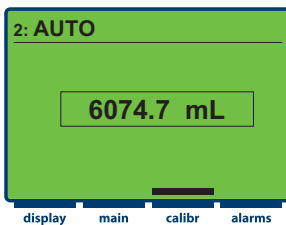
Offers not only a graphic intuitive interface, but also changes colour according to operating function.



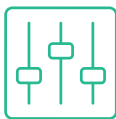
Red - shows alarm mode



Yellow - shows the control unit is connecting to a smart device



Green - denotes successful calibration process



Simple fast programming

The V Series controller allows quick and easy programming from any smart device or laptop, both remotely as well as from the display.



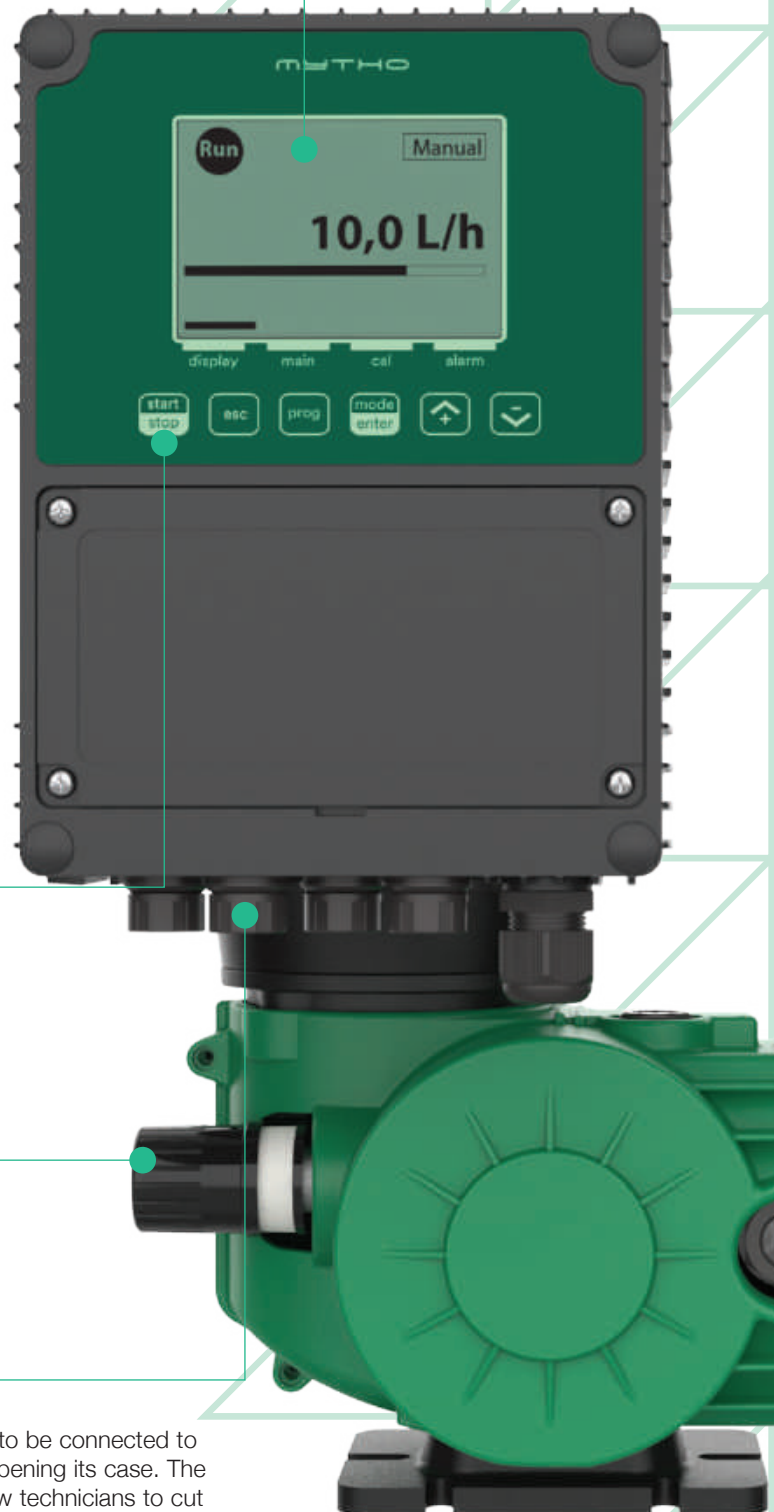
Manual adjustment of stroke length

Provides the ultimate precision when combined with the digital dosing of the V Series controller.



External connectors

The V Series' external connectors allow the pump to be connected to its accessories and signals from the field without opening its case. The screw terminals available in the plugs supplied allow technicians to cut the connection cables to the right length, directly in the field – enabling clean installations without the need for special tools or excess wiring.



V Series technical features

V Series pumps are based on a spring-return mechanism housed in a robust aluminium case, and always provide effective and reliable power. The V Series maximises these benefits by allowing users to link dosage to signals from the field and monitor and programme the pump both locally and via any smart device or PC courtesy of MythoLink.

Hydraulic characteristics

Model	Flow rate [l/h]	Max pressure [bar]	Frequency [stroke/1']	Stroke length [mm]	Diaphragm diameter [mm]	Ingress protection rating
D1 Diaphragm pump	up to 500	up to 16	1 - 116	2 / 4 / 6	up to 165	IP55
R1 Piston pump	up to 304	up to 20	1 - 116	15	up to 64	IP55
R2 Piston pump	up to 1,000	up to 20	1 - 116	25	up to 89	IP55

V Series key code

Motor type		kW [3ph]	Size	
AE		0.18	63-B14	
BE		0.25	71-B14	
CE		0.37	71-B14	
DE		0.55	80-B14	
EE		0.75	80-B14	
TE		0.25	71-B5	
UE		0.37	71-B5	

Optional

C V Series

D1	X	XXX	X	XX	CE	0	0	C
----	---	-----	---	----	----	---	---	---



Multiple operating modes

- Manual
- Batch
- Timed
- Proportional to mA
- Proportional to V
- PPM
- Proportional to pulses

V Series

Motor-driven pumps with spring return, electronic control and IoT

Data on demand

V Series pumps are based on a spring-return mechanism housed in a robust aluminium case, and always provide effective and reliable power. The V Series maximises these benefits by allowing users to link dosage to signals from the field and monitor and programme the pump both locally and via any smart device or PC courtesy of MythoLink.

Remote connection via the internet

Courtesy of the V Series' RS485 Modbus port, the system connects with IrisLink to enable internet access and exchange data with the cloud. This functionality allows the pump to be managed from anywhere in the world 24/7 via the MythoLink portal and enables technicians to quickly obtain historical and real-time data on the pump's operation and be notified in the event of alarms or warnings generated by the system. Meanwhile, scheduled maintenance can be planned and reported and anomalies be actioned immediately by remotely reprogramming the pump's dosing parameters.



V SERIES WEB INTERFACE

Whether working locally or remotely, the V Series web interface provides the operator with:

- **Instant values:** displays overview of the real-time status of the system including pump operating mode, pump status and alarm status.
- **Graphs and levels:** displays the time graphs of the several pump parameters chosen for monitoring by the user.
- **Alarms:** displays the active alarms. If the pump has been registered in the portal and is being accessed through MythoLink, users can view a log of all the received alarms with date, time and type.
- **General settings:** a section where the user can set the operating mode of the pump and adjust dosing parameters.
- **Statistics/counters:** provides an overview of the statistics of the system under control.
- **Advanced settings:** available only to users with appropriate permissions, this allows them to set other advanced device parameters and to stop, start and pause the pump remotely.
- When accessing the local pages of the internal webserver, further sections are available for updating pump firmware and setting network parameters, such as the password of the Wi-Fi network needed to connect the device to the internet.



Modbus RTU over RS485 serial port

Modbus standard protocol enables cross-device connection and communication, allowing the user to create a wired network of standard Modbus devices. This means that the V Series can become part of a larger system comprising several industrial devices, all controlled by a local controller such as a PC or PLC.



Wi-Fi for a direct connection and online access

The V Series connects with IrisLink to allow both local direct connection to the pump's internal programming webpages from any smart device, and the connection of the pump to a Wi-Fi network available in the plant. This allows the pump to be monitored and programmed remotely via the internet through the MythoLink portal.



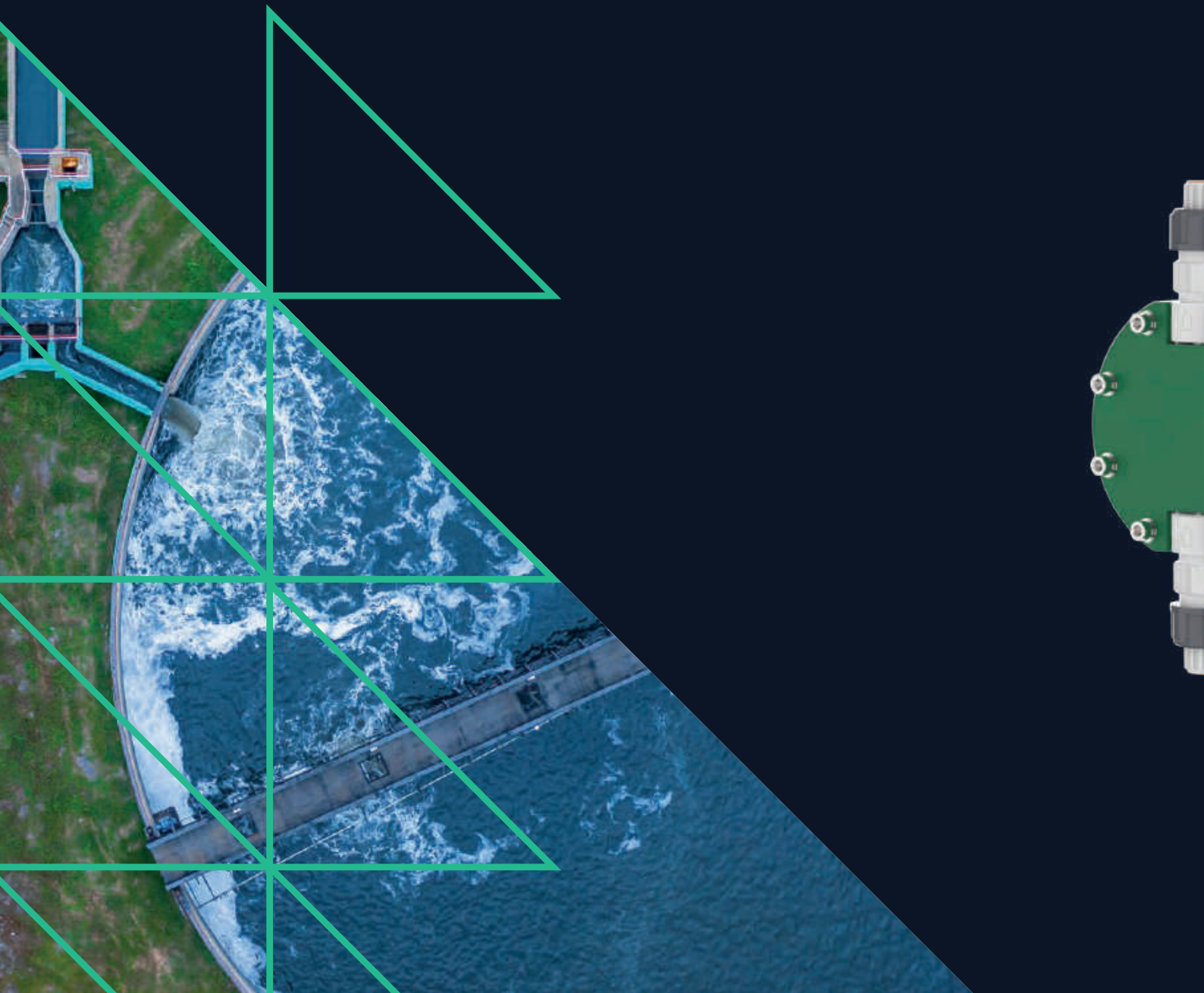
For precision, consistency and reliability, choose N Series.

A range of electric motor-driven pumps with mechanical diaphragm liquid ends and mechanical return designed to deliver exceptional performance across a wide range of flow and pressure environments.

A wide range of applications

Suitable for a wide range of applications including a variety of water-treatment processes, the N Series can be effectively used in any of the following:

- **Potable water treatment** (injection of coagulants, flocculating agents, sodium hypochlorite, lime slurry, acid, bases, caustic soda, activated carbon and more)
- **Domestic or industrial wastewater treatment**, boiler feed water and cooling water
- **Chemical treatment, electrolytic** (electro-plating) treatments: addition of degreasing agents, cleaning agents, nickel electroplating and chemical nickel plating, copper plating and tinning

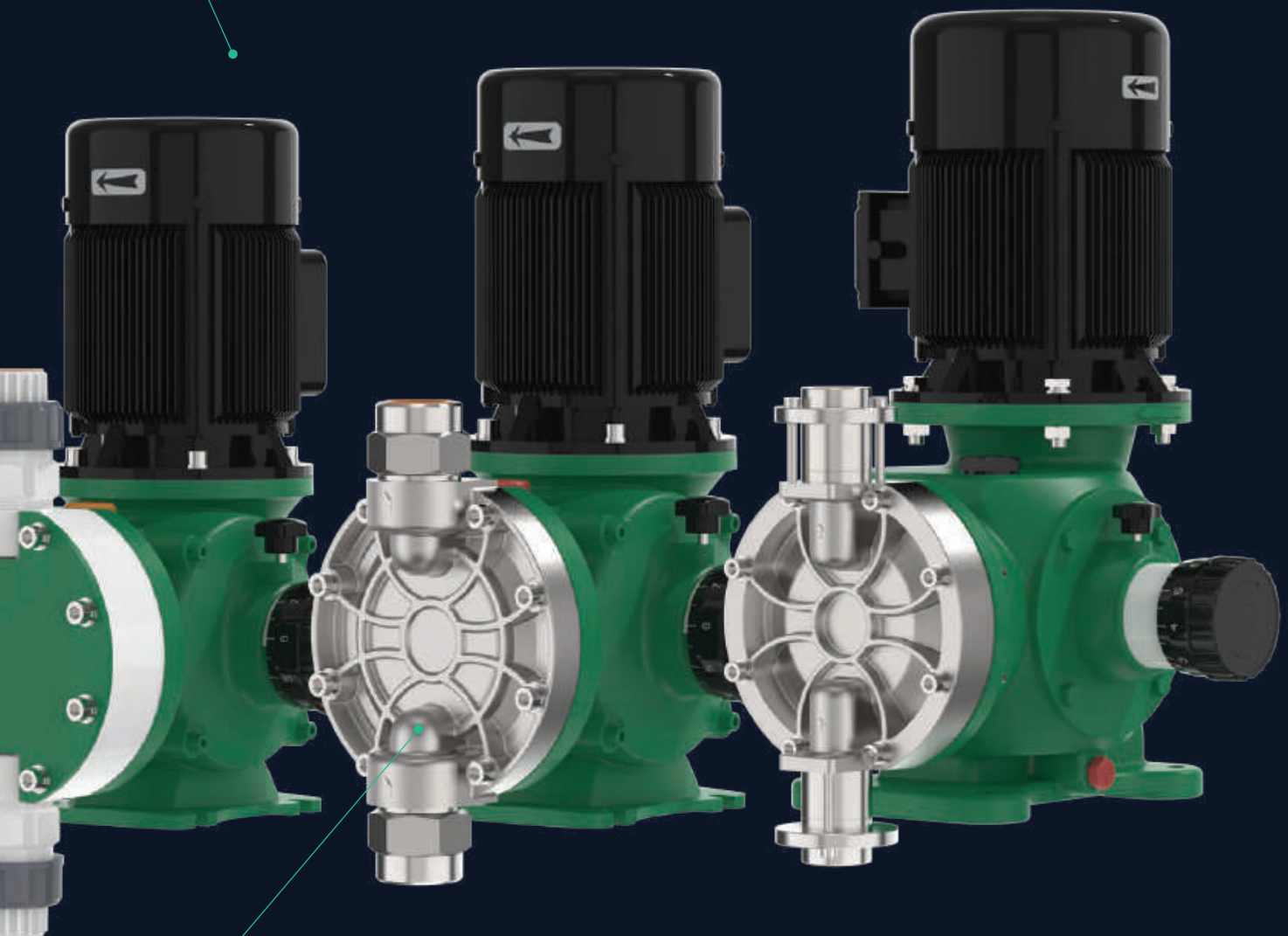


Features & benefits

Ideal for prolonged, continuous usage

As with all Mytho pumps, N Series is designed using materials chosen for their robustness and chemical compatibility and is conceived to work for long periods of continuous operation thanks to the benefits derived from its variable eccentric system. Mytho's N Series PTFE diaphragm is directly linked to the mechanism's moving parts, meaning the N Series can easily deal with high suction head conditions.

All components feature permanent lubrication, using ball bearings for the principal moving parts to help prevent overheating and extend the pump's life, with the added benefit of quiet running.



Perfect for achieving high flow rates at medium/low discharge pressures

The N Series comprises two principal models - NX and NY - and is designed to be compact and robust. N Series pumps offer great performance across a wide range of flow rates from 3.5 l/h to 2,300 l/h, making them ideal for low discharge pressures in applications such as water treatment, food production and clean-in-place.

NX N Series

MECHANICAL-RETURN DIAPHRAGM DOSING PUMP

- Flow rate range: 9 - 530 l/h, up to 12 bar
- Wetted parts: SS316L, PVDF, PTFE, FPM, EPDM and ceramic

- Featuring characteristics and functions very similar to those of the NY models, the NX systems of the N Series range have smaller dimensions and can be used effectively where the required flow rates are lower, but it is necessary to work at slightly higher pressures. In fact, these pumps can handle flow rates of up to 530 l/h and can work at pressures up to 12 bar.
- These models are manufactured from materials that deliver superior robustness and chemical compatibility and are designed to operate continuously for long periods, thanks in part to the benefits of the variable eccentric system. The PTFE diaphragm is directly connected to the mechanism and this allows the pump to exploit the power of the motor both in suction and delivery phases, allowing it to work even in high suction head conditions.
- All components benefit from permanent lubrication, using ball bearings for the principal moving parts that help prevent overheating and extend pump life with the added benefit of quiet running.



Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections		Motor/3ph [kW/pole]
						SS316L	PVDF	
NX1065X"A40000	65	2	116	9	12	BSPf 1/4"	8x12 PE hose	0.25 / 4
NXG096V"A40000	96	4	78	53	10	BSPf 3/8"	DN 10	
NXF124V"B40000	124	6.4		156	170	7	BSPf 3/4"	DN 20
NXF124V"B20000			340		5			
NXE140V"B20000	140	7.4		530			BSPf 1."	DN 25

NX key code

Model										
NX										
Stroke length										
I	2 mm									
H	2.34 mm									
G	4 mm									
F	6.4 mm									
E	7.4 mm									
Plunger diameter										
065	65 mm									
096	96 mm									
124	124 mm									
140	140 mm									
Reducer ratio		Stroke/min [4 poles motor]		Stroke/min [2 poles motor]						
U	24:1	58								
V	18:1	78		156						
X	12:1	116								
Liquid end		Pump head		Diaph.		Valve		Seat		
AA	SS316L				SS36L		SS36L		FPM	
AE			PTFE						EPDM	
FF	PVDF				Ceramic		PVDF		FPM	
FE									EPDM	
Motor power		kW		Size						
0			Without motor							
A	0,25				M71-B5					
B	0,37				M71-B5					
Motor poles /phase		Poles		Phases		Power supply				
0			without motor							
2	2				3		230/400V			
4	4				3		50/60 Hz - TFC			
Customisation										
000										
Optional										
0	Standard or without motor									
S	Selfventilated									
NX	I	065	U	AA	A	4	000	0		

NY N Series

MECHANICAL-RETURN DIAPHRAGM DOSING PUMP

- Flow rate range: 80 - 2,300 l/h, up to 10 bar
- Wetted parts: SS316L, PVDF, PTFE, FPM, EPDM and ceramic
- Among the N Series pump range, the NY series pumps provide superior dosing performance, making them suitable for the most demanding applications. Constructed in hard-wearing metal with a cast-aluminium housing, N Series NY can handle the largest output with flow rates as high as 2,300 l/h, at pressures up to 10 bar.
- As with all Mytho pumps, the N Series models are designed using materials chosen for their robustness and chemical compatibility and have been developed to work for long periods of continuous operation courtesy of their variable eccentric systems. Mytho's N Series PTFE diaphragm is directly linked to the mechanism's moving parts, meaning these pumps make use of the motor's power both in the suction and delivery phases which allows it to deal with high suction head conditions.
- All components feature permanent lubrication, using ball bearings for the principal moving parts to help prevent overheating and extend pump life with the added benefit of quiet-running operation.



Specification

Model	Diameter [mm]	Stroke length [mm]	Frequency [stroke/1']	Flow rate [l/h]	Max pressure [bar]	Connections		Motor/3ph [kW/pole]	
						SS316L	PVDF		
NYD124T**C40000	124	7	43	80	10	BSPf 3/4"	BSPf 3/4"	0.55 / 4	
NYD124T**C40000			131	250					
NYC124Z**C40000	140	8	175	450	7	BSPf 1"	BSPf 1"		
NYC140Z**C40000				600					
NYB157Z**C40000	157	9	131	1,000	4	BSPf 1 1/2"	BSPf 1 1/2"	0.75 / 4	
NYA179Y**D40000	179	15		1,600				BSPf 1 1/2"	BSPf 1 1/2"
NYA179Z**E40000				2,300					

NY key code

Model										
NY	NY									
	Stroke length									
	D	6.7 mm								
	C	8 mm								
	B	9 mm								
	A	15 mm								
	Diaphragm diameter									
	124	124 mm								
	140	140 mm								
	157	157 mm								
	179	179 mm								
	Reducer ratio		Stroke/min [4 poles motor]							
	T	32:1	43							
	W	16:1	86							
	Y	11:1	131							
	Z	8:1	175							
	Liquid end		Pump head	Diaph.	Valve	Seat	O-Ring			
	AA		SS316L	PTFE	SS36L	SS36L	FPM			
	PV		PVC		Ceramic	PTFE	FPM			
	FF		PVDF		Ceramic	PVDF	FPM			
	AE		SS316L		SS36L	SS36L	EPDM			
	PE		PVC		Ceramic	PTFE	EPDM			
	FE		PVDF		Ceramic	PVDF	EPDM			
	Motor power		kW		Size					
	0		Without motor							
	C		0.55 kW		M80-B5					
	D		0.75 kW		M80-B5					
	E		1.1 kW		M90s-B5					
	Motor Poles /Phase		Poles		Phases		Power supply			
	0		Without motor							
	2		2		3		230/400V 50/60 Hz - TFC			
	4		4		3					
	Customization									
	000									
	Optional									
	0 Standard or without motor									
	S Selfventilated									
NY	B	157	W	AA	D	4	000	0		

Pump Accessories



COMMON ACCESSORIES

The trouble-free operation of a pump depends on the correct pre-installation analysis specific to the intended application. The choice of accessories and their sizing are critical for the correct performance of a reliable system.

Threaded Water Meter

Series	Size	Pulse/l
TC1	from 1/2" to 2"	0,1
		1
		4
TH1		1 4
TC0		No pulse launcher



Fast Mixers

Shaft	Material
600	SS316 PVC
800	
900	
1,100	
Propeller	rpm
90	1400

Slow Mixers

Shaft	Material
600	SS316 PVC
800	
900	
1,100	
Propeller	rpm
150	70
220	200

Flanged Water Meter

Series	Size	Pulse/l
FC	from 2" to 6"	100 1,000



Tanks

Type	Height [mm]	Diameter [Ø mm]
SER-50	465	410
SER-100	650	470
SER-250	870	610
SER-300	965	670
SER-500	1,195	760
SER-1000	1,223	1,085



Reinforcement Plate

Type	for Tank
-	-
SML-100	SER-100
SML-250	SER-250
SML-300	SER-300
SML-500	SER-500
SML-1000	SER-1000

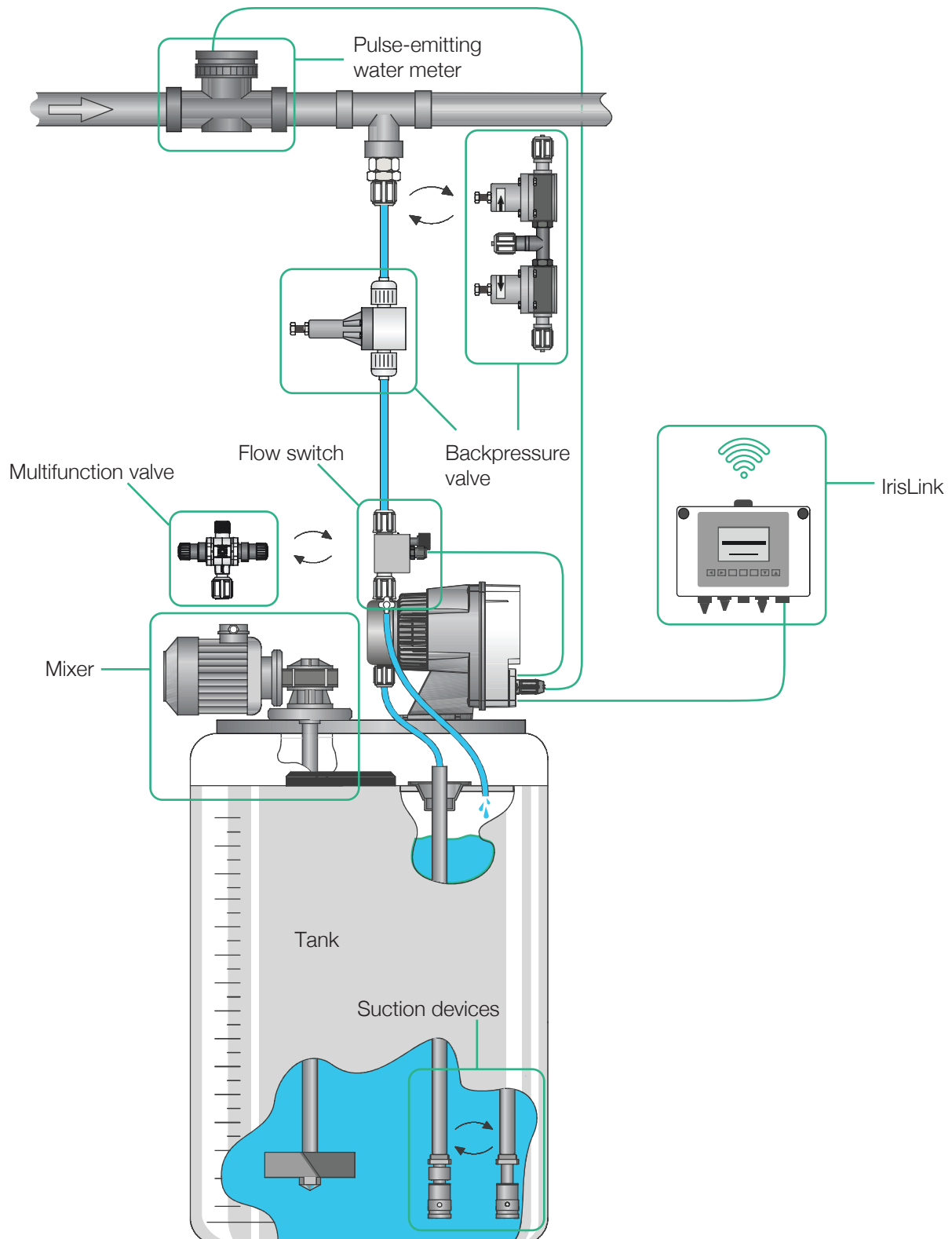


Containment Tanks

Type	Height [mm]	Diameter [Ø mm]
-	-	-
T-150	610	550
T-300	820	705
T-400	960	780
T-800	1,105	846
T-1500	1,255	1,235



Solenoid-Driven Pump Accessories



SOLENOID-DRIVEN PUMP ACCESSORIES

Suction devices

Type	Length [mm]	Diameter [Ø mm]	Seals	Level sensor	For tank
PVC suction lance	450	22 (for 4x6 tube)	FKM-B EPDM	YES NO	SER-50
	650				SER-100
	900	SER-250			
	1,050	34 (for 8x12 tube)			SER-300
	1,250				SER-500/1000

Valves

Type	Pressure [bar]	Max flow rate [l/h]	Material	Seals	Tube
Backpressure	1.5 0.5 - 5	-	PVDF	FKM-B EPDM	4x6
Backpressure	1.5 0.5 - 10	-	PVC	FPM EPDM	4x6 8x12
Backpressure HYC	max 10	50	PVC	FPM EPDM	4x6 8x12
Safety HYS	max 10	50	PVC	FPM EPDM	4x6 8x12
Multiple HYM	max 10	50	PVC	FPM EPDM	4x6 8x12
Multifunction	0 - 18 (safety) 0 - 5 (backpressure)	-	PVDF (diaphragm PTFE)	FKM-B EPDM	4x6 8x12

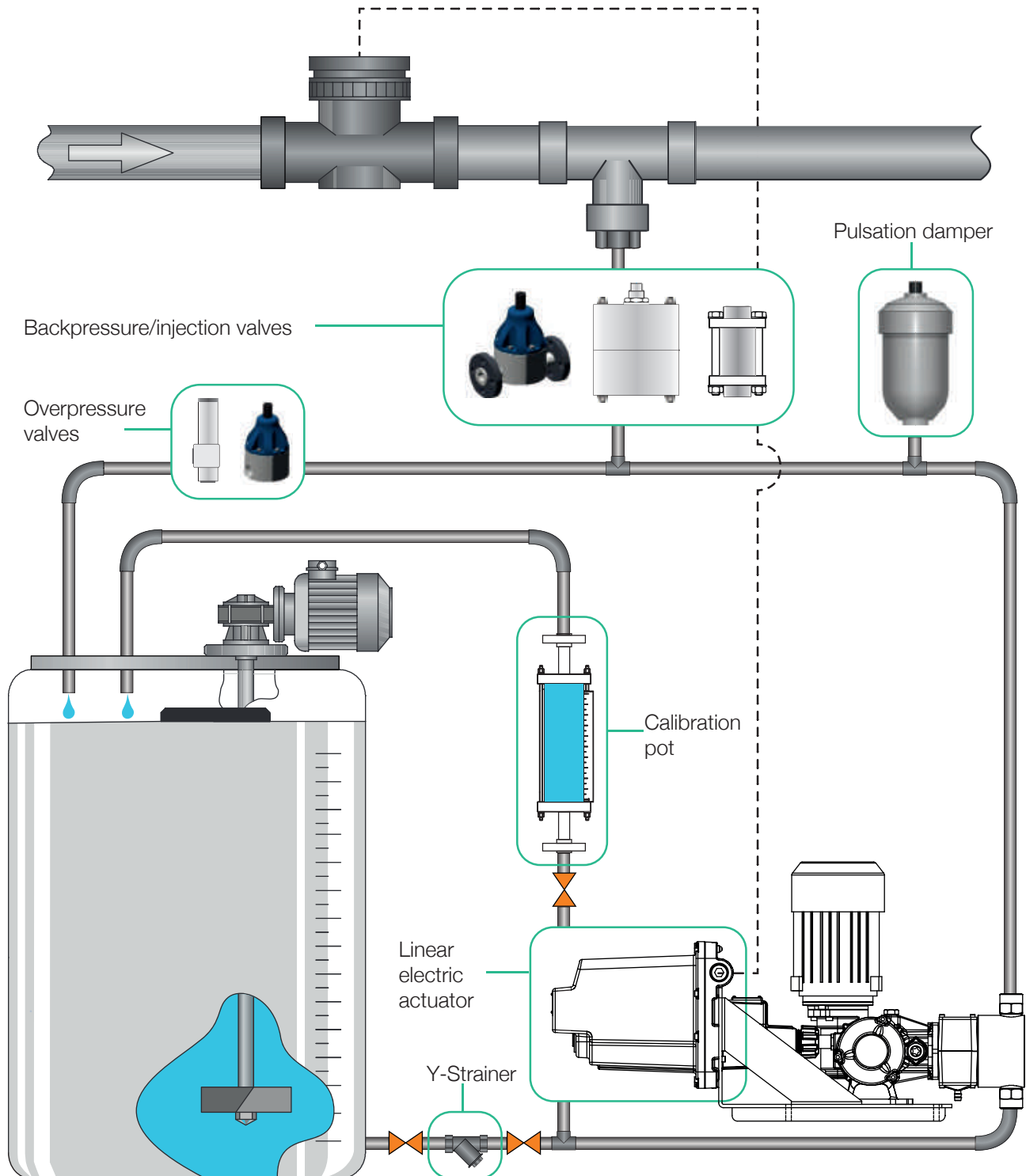
Communication device

Type	Power supply	Local channels	Manages up to	Network
IrisLink	100 - 240Vac 50/60Hz	Modbus RS485 RTU	1 unit	Wi-Fi

Other accessories

Type	Pressure [bar]	Flow rate [l/h]	Material	Seals	Tube
Flow switch	1.5 0.5 - 5	-	PVC PVDF PMMA	FKM-B EPDM	4x6 8x12

Motor-Driven Pump Accessories



MOTOR-DRIVEN PUMP ACCESSORIES

Backpressure valve

Model	Max Flow Rate [l/h]	Setting Pressure [bar]	Code	Wetted parts
VSM-S (SS316L)	300	0 - 5	VSM1S03005_A	SS316L/ PTFE
	800		VSM2S08005_A	
	1.500		VSM3S15005_A	

Backpressure / relief valve

Code	Material - xx SS316L PVDf FPM EPDM FPM EPDM	Type - xx (Flanged / Threaded)	Max Flow Rate [l/h]	Pressure [bar]	Fittings
BV XX 103010 Y	21 24 41 44	F / T	300	0 - 10	DN10
BV XX 208010 Y		F / T	800		DN20
BV XX 408010 Y		F	800		ANSI ¾"
BV XX 315010 Y		F / T	1.500		DN25
BV XX 515010 Y		F	1.500		ANSI 1"

Overpressure valve

Model	Max Flow Rate [l/h]	Setting Pressure [bar] Min Max Std	Code	Wetted parts
VS1-S	250	0 19 10	VS1S250019_A	SS316L/ PTFE
		20 45 20	VS1S250045_A	
		46 150 50	VS1S250150_A	

Pulsation damper

Code	Material Body / Diaphragm	Max Pressure [bar]	Nitrogen Volume [l]	Max Precharge [bar]	Fittings
HSTX005_A	SS316L / NBR	150 / 210	0.05	105 / 150	3/8" BSP
HSTX01_A			0.12		1/2" BSP
HSTX035_A			0.35		
HSTX07_A			0.7		3/4" BSP
HSTX08_A			0.8		
HSTX15_A			1.5		
HSTX23_A			2.3		1" BSP

Calibration pot

Code SS316L	Code PVDf	Volume [l]	Suggested flow rate [l/h] to calibrate in 30" or more
CP0004B36AA1B	CP0004B96AA1B	0.04	0 - 4.6
CP0050B36CA1B	CP0050B96CA1B	0.5	4.6 - 57
CP0100B36CA0B	CP0100B96CA0B	1	57 - 114
CP0150B36CA0B	CP0150B96CA0B	1.5	114 - 171
CP0300B36EA0B	CP0300B96EA0B	3	228 - 342
CP0500B36EA0B	CP0500B96EA0B	5	342 - 570
CP1000B36FA0B	CP1000B96FA0B	10	570 - 1,140
CP2000B36FA0B	CP2000B96FA0B	20	1,710 - 2,280
CP2500B36FA0B	CP2500B96FA0B	25	2,280 - 2,850

Model	Max Flow Rate [l/h]	Setting Pressure [bar]	Code	Wetted parts
VSM-P (PVC)	300	0 - 5	VSM1P03005_A	PVC/ PTFE
	800		VSM2P08005_A	
	1.500		VSM3P15005_A	

Injection valve

Model	Max Flow Rate [l/h]	Setting Pressure [bar]	Code	Wetted parts
VZX-S (SS316L)	80	2	VZX1S00502_A	SS316L
	100		VZX3S01002_A	
	200		VZX4S02002_A	
	420		VZX5S04202_A	
	800		VZX6S08002_A	
	1,650		VZX7S16502_A	

Model	Max Flow Rate [l/h]	Setting Pressure [bar] Min Max Std	Code	Wetted parts
VS2-S	650	0 13 10	VS2S2650013_A	SS316L/ PTFE
		14 30 20	VS2S2650030_A	
		31 150 50	VS2S650100_A	

Code	Material Body / Diaphragm	Max Pressure [bar]	Nitrogen Volume [l]	Max Precharge [bar]	Fittings
HSTPVC005_A	PVC / FPM	10	0.05	7	3/8" BSP
HSTPVC01_A			0.12		1/2" BSP
HSTPVC035_A			0.35		
HSTPVC07_A			0.7		
HSTPVC15_A			1.5		3/4" BSP
HSTPVC15_A			2.3		

Aktua series - linear electric actuator

Code	Description	For Spring pumps series
SAL025M00000	Electric Actuator Aktua Series	All
SA99106004	Installation Interface for Aktua series	MS1A064 / 094
SA99106005		MS1B108
SA99106001		MS1C138 / 165
SA99106002		PS1
SA99106003		R2

Y-Strainer

Code SS316L	Code PVDf	Connection
FYP3240200_A	FYS3240008_A	3/8" BSP
FYP3230040_A	FYS3240100_A	1/2" BSP
FYP3230060_A	FYS3240110_A	3/4" BSP
FYP3230080_A	FYS3240120_A	1" BSP

Trigon Series



CONTROLLERS

Our state-of-the-art Trigon controllers are built around a design ethos of precision and ease of use and can be used in both internal and external applications.



Controllers and Probes

The Trigon Series is a series of single, double and multi-parametric control instruments, probes, sensors, probe holders and buffer solutions, for the measurement of pH, ORP, electrical conductivity, dissolved oxygen, flow rate, chlorine and other disinfectants, temperature, turbidity and suspended solids.

Features & benefits

- The Trigon Series represents an advanced series of solutions for complete monitoring of industrial water-treatment processes. The range was the result of Mytho's dedication to technological innovation and passion in developing measurement systems and solutions that meet the increasingly complex technical needs of the water-treatment sector. The Trigon Series also provides high levels of measurement accuracy and control, along with easy-to-use functionality and interfaces.
- This state-of-the-art range allows the user to monitor key parameters including pH, ORP, conductivity, chlorine, oxygen, turbidity, suspended solids, peracetic acid, ozone, bromine, peroxide, flow rate and temperature. The range also enables operators to compensate temperature measurements, offering a further guarantee on the systems' accuracy and repeatability.



Monitoring exceeded value, displaying a parameter value or building a closed-loop control loop is extremely simple with our measurement sensors for a wide range of process applications. The measured values are provided in real time and can be flexibly taken from various points of the process under control, through bypass or immersion-type probe holders.

Our product line offers a wide range of sensors for different measurement purposes. Thanks to the scalability of these solutions, it is possible to cover all applications, from the simplest water-treatment activities to the most complex industrial processes, which have more stringent requirements in terms of temperature, pressure, tolerance to contamination and chemical resistance.

Controllers range

Controller Model	MT200	MT200	MT400	MT400	MT600	MT600	MT 1000
							
Dimensions	96x96	144x144	96x96	144x144	96x96	220x144	280x290
Mounting	Panel	Wall	Panel	Wall	Panel	Wall	Wall
Ingress protection	IP65 Front Panel; IP20 Back	IP65	IP65 Front Panel; IP20 Back	IP65	IP65 Front Panel; IP20 Back	IP65	IP65
Parameter	Single	Single	Single	Single	Double	Double	Multiple parameter
Measures	pH / Redox Conductivity Flow rate In4-20mA CL-Amp.	pH / Redox Conductivity Flow rate In4-20mA CL-Amp.	pH / Redox Conductivity Flow rate In4-20mA	pH / Redox Conductivity Flow rate In4-20mA	pH / ORP-pH / ORP pH / ORP-In4-20mA pH / ORP-EC-Cond pH / ORP-CL-Amp In4-20mA-EC-Cond	pH / ORP-pH / ORP pH / ORP-In4-20mA pH / ORP-EC-Cond pH / ORP-CL-Amp In4-20mA-EC-Cond	CL-A pH + Redox pH + CL-A pH + Redox + CL-A CL-Pot pH + CL-Pot
Number	1	1	1	1	2	2	7
Insulation	Advanced **	Advanced **	Advanced **	Advanced **	Advanced **	Advanced **	Advanced **
Accuracy (@pH)	± 0.1 pH	± 0.1 pH	± 0.01 pH	± 0.01 pH	± 0.01 pH	± 0.01 pH	± 0.01 pH
Display/backlit display	Graphic 128x128 Pixel / White	Graphic 128x128 Pixel / White	Graphic 128x128 Pixel / White, green, orange and red	Graphic 128x128 Pixel / White, green, orange and red	Graphic 128x128 Pixel / White, green, orange and red	Graphic 240x128 Pixel / White, green, orange and red	Graphic 240x128
Keyboard	Membrane (5 keys)	Membrane (5 keys)	Membrane (5 keys)	Membrane (5 keys)	Membrane (5 keys)	Membrane (5 keys)	Membrane (7 keys)
Output relays	2	2	2	2	4	4	6 (4 power+2 dry)
Output 4-20mA	1	1	2	2	2	2	4
Output frequency	1 (400p/min)	1 (400p/min)	2 (400p/min)	2 (400p/min)	2 (400p/min)	2 (400p/min)	4 (120p/min)
Digital input (Reed)	1	1	1	1	1	1	1
Vdc input (Hold)			12-32 Vdc	12-32 Vdc			15-30 Vdc
Power supply for sensor	18 Vdc @30mA	18 Vdc @30mA	18 Vdc @30mA	18 Vdc @30mA	24 Vdc @500mA	24 Vdc @500mA	24 Vdc @30mA
Temp probe input	Y	Y	Y	Y	Y	Y	Y
RS485 serial port			Y	Y	Y	Y	Y
Hotspot/station Wi-Fi							
Data storage							Y
Datalogger function & graphs via MythoLink			Y	Y	Y	Y	Y
PID function			Y	Y	Y	Y	
Probe washing	Y	Y	Y	Y	Y	Y	
QR code			Y	Y	Y	Y	Y
Control panel	Y	Y	Y	Y	Y	Y	Y
View mode	Y	Y	Y	Y	Y	Y	Y
Internal clock							Y
Power supply requirement	24 Vac, 115 Vac and 230 Vac	24 Vac, 115 Vac and 230 Vac	100-240 Vac 24 Vac 12-32 Vdc - Class2	100-240 Vac 24 Vac 12-32 Vdc - Class2	100-240 Vac	100-240 Vac	100-240 Vac Class1
Certification	CE	CE	CE	CE	CE	CE	CE
Manual download	Web link	Web link	QR code	QR code	QR code	QR code	QR code

(**) Advanced Insulation: Insulation above the requirements of Class II; this allows the device to reject the electrical noise present in heavy-industrial applications.

MT200

Single-parameter instrument characterised by isolated measurement and suitable for most water-treatment applications.



One large display and two formats

The instruments of the MT 200 are equipped with a large 128x128-pixel backlit graphic display, which makes viewing the measurement immediate and effective. The instruments are available in two formats:

- 96 x 96 mm, for panel mounting, with front IP65 and rear IP20 protection
- 144 x 144 mm for wall mounting, with IP65 protection

Digital & analogue outputs

The MT 200 instruments have two open relays, which can be associated with measurement, probe washing, temperature or alarm repetition; they also have a 4-20mA output and a frequency output, easily programmable by the end user.

Probe washing

It is possible to programme one of the two relays to activate a probe washing cycle. The washing method is based on three phases: activation; waiting time for measurement stabilisation after washing; waiting before a new subsequent wash.

TDS function

The conductivity measurement can be also visualised in ppm (parts per million) for cooling tower treatment applications and ohm (resistivity) for reverse osmosis applications - courtesy of the total dissolved solids function.

Multi-method relay activation

Relays can be programmed in three different modes: a) activation when a threshold value is exceeded; b) timed activation; c) in PWM mode (in ON / OFF mode with increasing OFF times as the threshold is approached).

Temperature measure function

One of the two relays, the frequency output or the 4-20mA analogue output can be associated with temperature measurement.

Wizard calibration

A wizard calibration routine helps in the correct use of probe maintenance operations and in the setting of operating parameters.

Alarms

A list of alarm messages can be displayed on the instrument's large screen. The main alarms are activated when: temperature is out of range, probes are non-functioning, OFA overdose (setpoint not reached within the expected time) and errors due to insufficient flow.

Available measures



Measure	Range	Nominal accuracy
pH	0 – 14 pH	± 0.01 pH
ORP	± 2,000 mV	± 5 mV
Electrical conductivity	0.054 – 200,000 µS	± 5 %
Dissolved oxygen	0 – 20 ppm	± 2 %
Flow rate	0 – 99,999 l/s	± 0.5 Hz
Amperometric chlorine	0 – 5 ppm	± 0.1 ppm
Potentiostatic chlorine	0 – 200 ppm	± 0.01 ppm
Peracetic acid	0 – 99,000 ppm	± 0.01 ppm
Hydrogen peroxide	0 – 99,000 ppm	± 0.01 ppm
Bromine	0 – 10 ppm	± 0.01 ppm
Ozone	0 – 99,000 ppm	± 0.01 ppm
Temperature	0 – 100°C	± 1°C

Technical features

Features	Description	
Single measure	From the above list	Single channel
Calibration	Single or double point	Wizard calibration routine
Temperature measure	Compensation measure or activation outputs	PT100 sensor or PT1000
Reed input	Hold function	Dry contact
Two-relay device	Normally open status	5A - 250V (dry contact)
One solid state relay	Output frequency signal	1 - 400 pulses/minute
One 4 - 20 mA channel	Output current analogue signal	500 ohm max load
Display	Backlit graphic display	128 x 128 pixel
Power supply	24 Vac; 115 Vac; 230 Vac	CE Class II (no earth connection required)
Enclosure box	96 x 96 mm 144 x 144 mm	Panel mounting - IP65 (front) Wall mounting - IP65

MT400



Single-parameter instrument for high-precision applications and greater measurement accuracy.



Maximum precision

MT400 controllers are ideal for professional water-treatment applications that require accurate measurement of critical parameters. These devices feature reinforced galvanic isolation and guarantee high-precision measurement.

PID algorithm

The MT400 range allows the user to programme outputs relating to the parameter detected according to a PID algorithm, widely used in industrial applications for process control.

One large display and two formats

The instruments of the MT400 Kontroller Series have a large 128x128-pixel high-contrast backlit graphic display that changes colour depending on the working condition of the device, to signal alarm situations or other operating conditions. The instruments are available in two formats:

- 96 x 96 mm, for panel mounting, with front IP65 and rear IP20 protection
- 144 x 144 mm for wall mounting, with IP65 protection

RS485 Modbus RTU / ASCII serial port

The RS485 serial port, on which a standard Modbus RTU / ASCII communication protocol is installed, allows the device to be connected to the local network of an existing system. The same port can also be used to connect the device to a local Mytho hub to then be managed over the internet via the MythoLink portal.

Digital & analogue outputs

MT400 units have two normally open status relays, which can be associated with measurement, probe washing, temperature or alarm repetition; they also have two 4-20mA outputs and two frequency outputs, easily programmable by the end user.

Probe washing

It is possible to programme one of the two relays to activate a probe washing cycle. The washing method is based on three phases: activation; waiting time for measurement stabilisation after washing; waiting before a new subsequent wash.

TDS function

The conductivity measurement can be also visualised in ppm (parts per million) for coolingtower treatment applications and ohm (resistivity) for reverse osmosis applications - courtesy of the total dissolved solids function.

Temperature measure function

One of the two relays, one of the frequency outputs or one of the 4-20mA analogue outputs can be associated with the temperature measure.

QR codes

These tools have a QR code that returns the current configuration of the device on a smartphone, including advanced settings and calibration values. This function is used for helping plant technicians identify incorrect settings or understand how to improve device performance.

Available measures



Measure	Range	Nominal accuracy
pH	0 – 14 pH	± 0.01 pH
ORP	± 2,000 mV	± 1 mV
Electrical conductivity	0.054 – 200,000 µS	± 2 %
Dissolved oxygen	0 – 20 ppm	± 2 %
Flow rate	0 – 99,999 l/s	± 0.5 Hz
Chlorine	0 – 200 ppm	± 0.01 ppm
Peracetic acid	0 – 99,000 ppm	± 0.01 ppm
Hydrogen peroxide	0 – 99,000 ppm	± 0.01 ppm
Bromine	0 – 10 ppm	± 0.01 ppm
Ozone	0 – 99,000 ppm	± 0.01 ppm
Turbidity	0 – 4,000 NTU	± 2 %
Temperature	-50 – 100°C	± 0.2°C

Technical features

Features	Description	
Single measure	From the above list	Single channel, high precision
Calibration	Single or double point	Wizard calibration routine
Temperature measure	Compensation measure or activation outputs	PT100 sensor or PT1000
Voltage input	Hold function	24 Vac
Reed input	Hold function	Dry contact
Serial port	RS485 protocol	Modbus RTU/ASCII
Two-relay device	Normally open status	5A - 250V (dry contact)
Two solid state relays	Output frequency signal	1 - 400 pulses/minute
Two 4 - 20 mA channel	Output current analogue signal	500 ohm max load
Display	Graphic display with coloured backlight	128 x 128 high-contrast pixels
Power supply	12 - 32 Vdc/24 Vac or 100 - 240 Vac	CE Class II (no earth connection required)
Enclosure box	96 x 96 mm 144 x 144 mm	Panel mounting - IP65 (front) Wall mounting - IP65

MT600



Double-parameter control instruments for ultra-high-precision applications.



One large display and two formats

The control instruments of the MT600 family have large high-contrast backlit graphic displays that change colour depending on the working condition of the device. In the version for wall mounting, a new 240x128-pixel display is used which allows an effective simultaneous display of the two measurements under examination through the use of large characters. The two formats available are:

- 96 x 96 mm, for panel mounting, with front IP65 and rear IP20 protection
- 220 x 144 mm for wall mounting, with IP65 protection

Digital & analogue outputs

The MT600 instruments are equipped with four normally open status relays, which can be associated with measure, probe washing, temperature or signal repetition; they also have two 4-20mA outputs and two frequency outputs, easily programmable by the end user.

PID algorithm

The MT600 series allows the user to programme the outputs according to the parameters detected in relation to a PID algorithm, widely used in industrial applications for process control.

RS485 Modbus RTU / ASCII serial port

The RS485 serial port, on which a standard Modbus RTU / ASCII communication protocol is installed, allows the device to be connected to the local network of an existing system. The same port can also be used to connect the device to a local Mytho hub to then be managed over the internet via the MythoLink portal.

Double measurement

The MT600 range allows the simultaneous measurement of two parameters and this makes the instruments ideal for professional water-treatment applications that require reliability, precision and accuracy.

TDS function

Conductivity measurement can be also visualised in ppm (parts per million) for cooling tower treatment applications and ohm (resistivity) for reverse osmosis applications - courtesy of the total dissolved solids function.

Probe washing

Users may programme one of the two relays to activate a probe washing cycle, with the washing method based on three phases: activation; waiting time for measurement stabilisation after washing; waiting before a new subsequent wash.

Temperature measure function

The output relays, the frequency outputs and the 4-20mA analogue outputs can be associated with the temperature measure.

Available measures



Measure	Range	Nominal accuracy
pH	0 – 14 pH	± 0.01 pH
ORP	± 2,000 mV	± 1 mV
Electrical conductivity	0.054 – 200,000 µS	± 1 %
Dissolved oxygen	0 – 20 ppm	± 1 %
Flow rate	0 – 99,999 l/s, l/m, l/h, m³/h, GPM	± 0.5 Hz
Chlorine	0 – 200 ppm	± 0.01 ppm
Peracetic acid	0 – 99,000 ppm	± 0.01 ppm
Hydrogen peroxide	0 – 99,000 ppm	± 0.01 ppm
Bromine	0 – 10 ppm	± 0.01 ppm
Ozone	0 – 99,000 ppm	± 0.01 ppm
Turbidity	0 – 4,000 NTU	± 1 %
Suspended solids	0 – 30 g	± 1 %
Temperature	-50 – 150°C	± 0.1°C

Technical features

Features	Description	
Double measure	Combination from the above list	Double channel, high precision
Calibration	Single or double point	Wizard calibration routine
Temperature measure	Compensation measure or activation outputs	PT100 sensor or PT1000
Reed input	Hold function	Dry contact
Wi-Fi connection	Hotspot and station operating modes	Wi-Fi protocol
Four-relay device	Normally open status	4 are powered 10 A - 250 Vac 2 are dry contact 10 A - 250 Vac
Two solid state relays	Output frequency signal	1 - 400 pulses/minute
Two 4 - 20 mA channel	Output current analogue signal	800 ohm max load
Display	Display graphic with colour backlight	128 x 128 high-contrast pixels 240 x 128 high-contrast pixels
Power supply	100 - 240 Vac	CE Class II (no earth connection required)
Enclosure box	96 x 96 mm 220 x 144 mm	Panel mounting - IP65 (front) Wall mounting - IP65

MT1000



Multi-parametric control instrument with isolated measurement and graphic display suitable for complex water-treatment applications



Format and display

MT1000 is housed in a 280x290mm IP65 enclosure and is equipped with a 240x120-pixel backlit LCD graphic display.

Multi-parametric

MT1000 is a multi-parametric control instrument capable up to seven simultaneous measurements for professional water-treatment applications.

Statistical data

By activating the statistics function, the user can view details of acquired measurements or reset stored statistics, both in table and graphic format.

Serial port RS485 Modbus RTU/ASCII

The RS485 serial port, supported by a standard Modbus RTU / ASCII communication protocol, allows the device to be connected to the local network of an existing system. The same port can also be used to connect the device to a local Mytho hub for management via the internet through the MythoLink portal.

Multi-method relay activation

Relays can be programmed in three different modes: a) activation when a threshold value is exceeded; b) timed activation; c) in PWM mode (in ON / OFF mode with increasing OFF times as the threshold is approached).

Control panel

The advanced menu allows the user to carry out self-diagnostics and view the status of relays, 4-20 mA outputs, calibration parameters and firmware version.

Digital & analogue outputs

MT1000 is equipped with four dry contact relays - normally open status - which can be associated with measure, probe washing, temperature or alarm repetition. In addition, two other powered relays are designed to directly power the dosing pumps associated with measure along with two 4-20mA outputs and two frequency outputs, easily programmable by the user.

“Full Mode” version with pre-installed configurations

The MT1000 “Full Mode” version features pre-installed system configurations adapted for process applications such as irrigation, industrial water treatment and swimming pools. The “Full Mode” operating version, thanks to a large graphic display, provides the end user with a complete range of options for configuring each measurement.

Available measures



Measure	Range	Nominal accuracy
pH	0 – 14 pH	± 0.01 pH
ORP	± 2,000 mV	± 1 mV
Electrical conductivity	0.054 – 200,000 µS	± 2 %
Dissolved oxygen	0 – 20 ppm	± 2 %
Flow rate	0 – 99,999 l/s	± 0.5 Hz
Chlorine	0 – 200 ppm	± 0.01 ppm
Peracetic acid	0 – 99,000 ppm	± 0.01 ppm
Hydrogen peroxide	0 – 99,000 ppm	± 0.01 ppm
Bromine	0 – 10 ppm	± 0.01 ppm
Ozone	0 – 99,000 ppm	± 0.01 ppm
Turbidity	0 – 4,000 NTU	± 2 %
Temperature	0 – 100°C	± 0.2°C

Technical features

Features	Description	
Multiple measure	Combination from the above list	Multiple measurement channel
Calibration	Single or double point	Wizard calibration routine
Temperature measure	Compensation of measurement or activation of an output	PT100 sensor
Voltage input	Hold function	24 Vac
Reed input	Hold function	Dry contact
Serial port	RS485 protocol	Modbus RTU/ASCII
Six output relays	Normally-open status	4 are dry contact 5A - 250V 2 powered up to 10A
Four solid state relays	Output frequency signal	1 - 120 pulses/minute
Four 4 - 20 mA outputs	Output current analogue signal	500 ohm max load
Display	Backlit LCD graphic display	240 x128 pixels (White background/blue font)
Power supply	100 - 240 Vac	CE Class I (earth connection required)
Enclosure box	278 x 285 x 140 mm	Wall mounting with bracket - IP65

Probes & Sensors

Probes for Water Treatment

Monitoring a limit, a value or building a closed control circuit is effortless with our sensors. The measured values are delivered in real time and can be flexibly connected to the various process interfaces via bypass, immersion or installed fittings.

The conductivity measuring system with inductive sensors has many advantages over other conventional methods. The absence of electrodes in contact with the fluid to be measured makes the system virtually maintenance free and free from re-calibration for long periods of time.

Our product line provides a wide range of sensors for different measuring tasks. The field of application covers everything from simpler water-treatment tasks to industrial process waters with more stringent requirements in terms of temperature, pressure, contamination tolerance and chemical resistance.



Sophisticated instruments for single and multi-parameter measurement in even the most demanding water conditions.



[illegible]

pH probes

FOR HIGH-PRECISION PH MEASUREMENT

pH

The knowledge of pH, which represents a classic measure of the acidity or alkalinity of water, is essential in many applications that involve chemical laboratory analysis. pH meters are used to control water quality in situations such as the water supply of cities, swimming pools, environmental remediation, food and beverage production processes and many other applications.

Electronic pH meters measure the potential difference between two electrodes present in the probe immersed in the solution and display the corresponding value, converted into pH. The probe has a special glass membrane, permeable to the hydrogen ion H^+ which allows it to reach the measuring electrodes; the quality of the glass determines the quality of the probe in terms of sensitivity, response speed and mechanical resistance.



Technical features

Features	SPH1-WP-SJ	SPH1-WP-DJ	SPH2 -WP-SJ	SPH3-WW-DJ	SPH4-HP-DJ	SPH4-HT-DJ	SPH4-LC-DJ	SPH4-CR-DJ	SPH4-HF-DJ
Measurement range	pH 2 – 12	pH 2 – 12	pH 2 – 12	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14	pH 0 – 14
Working temperature	0 – 60°C	0 – 60°C	0 – 60°C	0 – 80°C	-10 – 60°C	0 – 130°C	-10 – 40°C	0 – 60°C	-10 – 100°C
Max pressure	6 bar	6 bar	6 bar	6 bar	6 bar	0-6 bar @ 130°C; 0-16 bar @ 25°C	0.5 bar	2 bar	16 bar @ 100°C
Minimum conductivity	50 $\mu S/cm$	50 $\mu S/cm$	50 $\mu S/cm$	5 $\mu S/cm$	5 $\mu S/cm$	50 $\mu S/cm$	<0.2 $\mu S/cm$	5 $\mu S/cm$	2 $\mu S/cm$
Probe body material	Polycarbonate	Polycarbonate	Epoxy	Glass	Glass	Glass	Glass	Glass	Glass
Membrane material	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass
Type of diaphragm	Pellon PTFE	Pellon PTFE	Pellon PTFE	Open hole diaphragm	Double diaphragm with open hole	Triple ceramic diaphragm	Sleeve type diaphragm	Ceramic diaphragm	Double diaphragm with open hole
Junction type	Single	Double	Single	Double	Double	Double	Double	Double	Double
Electrolyte	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel	Blue 3M KCL Pharma	3M KCL Gel	KCL Gel	Polisolve
Mechanical connection	Ø 12 mm	Ø 12 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm	Thread PG 13.5 mm
Electrical connection	BNC (Blue)	BNC (Blue)	S8	S8	S8	S8	S7	S8	S8
Cable	1.5m or 6 m	6 m	Not included	Not included	Not included	Not included	Not included	Not included	Not included
Dimensions	Ø 12 mm; L=120 mm								

SPH1-WP-SJ

Single-junction polycarbonate-body pH probe. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range 2 – 12 pH ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Body material PP ; Membrane material Glass

Diaphragm type Pellon PTFE ; Junction type Single

Electrolyte KCL Gel ; Mechanical connection Ø 12 mm

Electrical connection BNC ; Cable 1.5 or 6 m

SPH1-WP-DJ

Double-junction polycarbonate body pH probe. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range 2 – 12 pH ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Body material PP ; Membrane material Glass

Diaphragm type Pellon PTFE ; Junction type Double

Electrolyte KCL Gel ; Mechanical connection Ø 12 mm

Electrical connection BNC ; Cable 6 m

SPH2-WP-SJ

Single-junction epoxy body pH probe. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range 2 – 12 pH ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Body material Epoxy ; Membrane material Glass

Diaphragm type Pellon PTFE ; Junction type Single

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SPH3-WW-DJ

Double-junction glass body pH probe. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.



Technical features

Measurement range 0 – 14 pH ; Operating temp 0 – 80°C

Maximum pressure 6 bar

Body material Glass ; Membrane material Glass

Diaphragm type open hole ; Junction type Double

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SPH4-HP-DJ

Double-junction glass reinforced pH probe. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.



Technical features

Measurement range 0 – 14 pH ; Operating temp -10 – 60°C

Maximum pressure 6 bar

Body material Reinforced glass ; Membrane material Glass

Diaphragm type 2 open hole diaphragms ;
Junction type Double

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SPH4-HT-DJ

Double-junction, high-temperature, triple-ceramic diaphragm pH probe with reinforced glass body. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.



Technical features

Measurement range 0 – 14 pH ; Operating temp 0 – 130°C

Maximum pressure 6 bar @ 130°C; 16 bar @ 25°C

Body material Glass ; Membrane material Glass

Diaphragm type Triple ceramic diaphragm ;
Junction type Double

Electrolyte Blue 3M KCL Pharma

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SPH4-LC-DJ

Double-junction pH probe with reinforced-glass body. Suitable for fish farming, galvanic processes and wastewater, drinking water and cooling water treatment.



Technical features

Measurement range 0 – 14 pH ; Operating temp -10 – 40°C

Maximum pressure 0.5 bar

Body material Reinforced glass ; Membrane material Glass

Diaphragm type Sleeve ; Junction type Double

Electrolyte 3M KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S7 ; Cable not included

SPH4-CR-DJ

Double-junction pH probe with reinforced-glass body and single ceramic diaphragm. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.



Technical features

Measurement range 0 – 14 pH ; Operating temp 0 – 60°C

Maximum pressure 2 bar

Body material Reinforced glass ; Membrane material Glass

Diaphragm type 1 ceramic diaphragm ;
Junction type Double

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SPH4-HF-DJ

Double-junction pH probe with reinforced-glass body, resistant to fluorides. Suitable for wastewater, drinking water, fish farming, well water and galvanic processes.



Technical features

Measurement range 0 – 14 pH ; Operating temp -10 – 100°C

Maximum pressure 16 bar @ 100°C

Body material Reinforced glass ; Membrane material Glass

Diaphragm type 2 open hole diaphragms ;
Junction type Double

Electrolyte Polysolve

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

ORP probes

ADVANCED PROBES FOR ORP MEASUREMENT

ORP

In aqueous solutions, ORP is a good measure of the effectiveness of disinfectants present in the water. In a swimming pool, the higher the oxidation potential, the more efficient the disinfectant. In water monitoring, the ORP value therefore provides the operator with a quick indication of the effectiveness of the disinfectant present in the water. This allows the operator to evaluate if the current situation is adequate or if it is instead necessary to dose additional disinfectant.

An ORP probe consists of a measuring electrode in contact with the solution and a reference electrode with stable potential.



Technical features

Features	SRH1-WP-SJ	SRH1-WP-DJ	SRH1-WP-AU	SRH2-WP-AU	SRH3-WW-DJ	SRH4-HT-DJ
Measurement range	±1,000 mV	±1,000 mV	± 2,000 mV	± 2,000 mV	±1,000 mV	± 2,000 mV
Operating temperature	0 – 60°C	0 – 60°C	0 – 60°C	0 – 60°C	0 – 80°C	0 – 130°C
Maximum pressure	6	6	6	6	6	6 bar @ 130°C; 16 bar @ 25°C
Electrode material	Platinum	Platinum	Gold	Gold	Platinum	Platinum
Body material	Polycarbonate	Polycarbonate	Polycarbonate	Epoxy	Glass	Reinforced glass
Diaphragm type	Pellon PTFE	Pellon PTFE	Pellon PTFE	Pellon PTFE	1 open hole	3 open hole
Junction type	Single	Double	Single	Single	Double	Double
Electrolyte	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel	KCL Gel
Mechanical connection	Ø 12 mm	Ø 12 mm	Ø 12 mm	Ø 12 mm	Thread PG 13.5mm	Thread PG 13.5 mm
Electrical connection	BNC (yellow)	BNC (yellow)	BNC (yellow)	BNC (yellow)	S8	S8
Cable	1.5 m or 6 m	6 m	6 m	6 m	Not included	Not included

SRH1-WP-SJ

Single-junction polycarbonate-body ORP probe with platinum electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range ±1,000 mV ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Electrode material Platinum ; Body material PP

Diaphragm type Pellon PTFE ; Junction type Single

Electrolyte KCL Gel ; Mechanical connection Ø 12 mm

Electrical connection BNC (yellow) ; Cable 1.5 or 6 m

SRH1-WP-DJ

ORP probe with polycarbonate body, double junction and platinum electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range ±1,000 mV ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Electrode material Platinum ; Body material PP

Diaphragm type Pellon PTFE ; Junction type Double

Electrolyte KCL Gel ; Mechanical connection Ø 12 mm

Electrical connection BNC (yellow) ; Cable 6 m

SRH1-WP-AU

ORP probe with single-junction polycarbonate body and gold electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range $\pm 2,000$ mV ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Electrode material Gold ; Body material PP

Diaphragm type Pellon PTFE ; Junction type Single

Electrolyte KCL Gel ; Mechanical connection $\varnothing$ 12 mm

Electrical connection BNC (yellow) ; Cable 6 m

SRH2-WP-AU

Single-junction epoxy-body ORP probe with gold electrode. Suitable for general laboratory, swimming pool and water-monitoring applications.



Technical features

Measurement range $\pm 2,000$ mV ; Operating temp 0 – 60°C

Maximum pressure 6 bar

Electrode material Gold ; Body material Epoxy

Diaphragm type Pellon PTFE ; Junction type Single

Electrolyte KCL Gel ; Mechanical connection $\varnothing$ 12 mm

Electrical connection BNC (yellow) ; Cable 6 m

SRH3-WW-DJ

Double-junction glass-body ORP probe with platinum electrode. Suitable for wastewater, anti-legionella disinfection, drinking water and galvanic processes.



Technical features

Measurement range $\pm 1,000$ mV ; Operating temp 0 – 80°C

Maximum pressure 6 bar

Electrode material Platinum ; Body material Glass

Diaphragm type 1 open hole diaphragm ;
Junction type Double

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

SRH4-HT-DJ

ORP probe with reinforced-glass body, double junction and platinum electrode. Suitable for ammonia, chrome plating, reverse osmosis, galvanic processes and bisulfite applications.



Technical features

Measurement range $\pm 2,000$ mV ; Operating temp 0 – 130°C

Maximum pressure 6 bar @ 130°C ; 16 bar @ 25°C

Electrode material Platinum ; Body material Reinforced glass

Diaphragm type triple diaphragm with open hole ;
Junction type Double

Electrolyte KCL Gel

Mechanical connection Thread PG 13.5 mm

Electrical connection S8 ; Cable not included

Conductivity probes

EC

State-of-the-art probes for ultra-accurate conductivity measurement

Conductivity represents one of the fundamental parameters in determining the quality of water and liquids in general because it is linked to the concentration of ions responsible for electrical conduction in a solution. Electrical conductivity is the reciprocal of electrical resistivity and measures the ability of a solution to conduct an electric current when an alternating voltage is applied to a measuring cell made up of two or four electrodes. To compensate for the geometry of the cell, each probe is characterised by a constant that can be expressed in two ways which are the inverse of one another and are indicated with the letters K and C, the first expressed in cm and the second in cm^{-1} . The conductivity of a solution is generally expressed in $\mu\text{S}/\text{cm}$.



Technical features

Features	CK-1-SS-PP	CK-5-SS-PP	CK-10-SS-PP	CTK-1-SS-PP	CTK-5-SS-PP	CTK-10-SS-PP	CTK-1-SS-PF	CTK-100-SS-SS	CTK-1-GR-PP	CTK-1-GR-EP	CK-1-PF-GL	CTK-01-PT-EX	CTK-10-PT-EX
Measurement range	0.5 - 5,000 μS	0.1 - 1,000 μS	0.1 - 500 μS	0.5 - 5,000 μS	0.1 - 2,000 μS	0.05 - 500 μS	0.5 - 20,000 μS	0.01 - 20 μS	0.5 - 50,000 μS	0.5 - 20,000 μS	0.5 - 20,000 μS	5 - 200,000 μS	0.05 - 500 μS
K [cell constant]	1 cm	5 cm	10 cm	1 cm	5 cm	10 cm	1 cm	100 cm	1 cm	1 cm	1 cm	0.1 cm	10 cm
Operating temp	0 - 60°C	0 - 60°C	0 - 60°C	0 - 80°C	0 - 80°C	0 - 80°C	0 - 100°C	-20 - 130°C	5 - 100°C	0 - 70°C	0 - 130°C	0 - 70°C	0 - 70°C
Maximum pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar	2 bar	16 bar @ 130°C	5 bar	7.5 bar	6 bar	7.5 bar	7.5 bar
Body material	PP	PP	PP	PP	PP	PP	PTFE	SS 316L	PP	Epoxy	Glass	Epoxy	Epoxy
Electrode material	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	SS 316L	Graphite	Graphite	Platinum	Platinum	Platinum
Mechanical connection	½" GAS M	½" GAS M	½" GAS M	¾" GAS M	¾" GAS M	¾" GAS M	1" GAS M	½" NPT	½" GAS M	12 mm	12 mm	12 mm	12 mm
Electrical connection	5m cable	5m cable	5m cable	Cable not included	Cable not included	Cable not included	Cable from 5m or 10m	5m cable	Cable from 5m or 10m	6m cable	6m cable	6m cable	6m cable
Temperature sensor	-	-	-	PT100	PT100	PT100	PT100	PT100	PT100	PT100	-	PT100	PT100

CK-1-SS-PP

Medium conductivity probe, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling water treatment



Technical features

Measurement range 1 - 5,000 μS

Cell constant K 1 cm ; Cell constant C 1 cm^{-1}

Operating temp 0 - 60°C

Maximum pressure 6 bar

Body material PP ; Electrode material SS316 L

Mechanical connection ½" GAS M

Electrical connection 5m cable

Temperature sensor Not present

CK-5-SS-PP

Probe for medium-low conductivity, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling water treatment.



Technical features

Measurement range	0.1 – 1,000 μS
Cell constant K	5 cm ; Cell constant C 0.2 cm^{-1}
Operating temp	0 – 60°C
Maximum pressure	6 bar
Body material	PP ; Electrode material SS316 L
Mechanical connection	½" GAS M
Electrical connection	5m cable
Temperature sensor	Not present

CK-10-SS-PP

Low-conductivity probe, with steel electrodes and PP body without temperature sensor. Suitable for reverse osmosis and fish farming.



Technical features

Measurement range	0.1 – 500 μS
Cell constant K	10 cm ; Cell constant C 0.1 cm^{-1}
Operating temp	0 – 60°C
Maximum pressure	6 bar
Body material	PP ; Electrode material SS316 L
Mechanical connection	½" GAS M
Electrical connection	5m cable
Temperature sensor	Not present

CTK-1-SS-PP

Medium-conductivity probe, with steel electrodes, PP body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.



Technical features

Measurement range	5 – 5,000 μS
Cell constant K	1 cm ; Cell constant C 1 cm^{-1}
Operating temp	0 – 80°C
Maximum pressure	6 bar
Body material	PP ; Electrode material SS316 L
Mechanical connection	¾" GAS M
Electrical connection	Removable connector (cod.9900110111-112-113)
Temperature sensor	PT100

CTK-5-SS-PP

Probe for medium-low conductivity, with steel electrodes, PP body and temperature sensor. Suitable for irrigation, drinking water and cooling water.



Technical features

Measurement range	0.5 – 2,000 μS
Cell constant K	5 cm ; Cell constant C 0.2 cm^{-1}
Operating temp	0 – 80°C
Maximum pressure	6 bar
Body material	PP ; Electrode material SS316 L
Mechanical connection	¾" GAS M
Electrical connection	Removable connector (cod.9900110111-112-113)
Temperature sensor	PT100

CTK-10-SS-PP

Low-conductivity probe, with steel electrodes, PP body and temperature sensor. Suitable for reverse osmosis and fish farming.



Technical features

Measurement range 0.01 – 500 μS

Cell constant K 10 cm ; Cell constant C 0.1 cm^{-1}

Operating temp 0 – 80°C

Maximum pressure 6 bar

Body material PP ; Electrode material SS316 L

Mechanical connection $\frac{3}{4}$ " GAS M

Electrical connection Removable connector
(cod.9900110111-112-113)

Temperature sensor PT100

CTK-1-SS-PF

Probe for medium-high conductivity, with steel electrodes, body in PTFE and temperature sensor. Suitable for reverse osmosis, irrigation, wastewater, drinking water and cooling water.



Technical features

Measurement range 0 – 20,000 μS

Cell constant K 1 cm ; Cell constant C 1 cm^{-1}

Operating temp 0 – 100°C

Maximum pressure 2 bar

Body material PTFE ; Electrode material SS316 L

Mechanical connection 1" GAS M

Electrical connection 5m or 10m cable

Temperature sensor PT100

CTK-100-SS-SS

Probe for extra-low-conductivity values, with steel electrodes, steel body and temperature sensor. Mainly suitable for reverse osmosis applications.



Technical features

Measurement range 0.04 – 20 μS

Cell constant K 100 cm ; Cell constant C 0.01 cm^{-1}

Operating temp -20 – 130°C

Maximum pressure 16 bar @ 130°C

Body material SS316 L ; Electrode material SS316 L

Mechanical connection $\frac{1}{2}$ " NTP

Electrical connection 5m cable

Temperature sensor PT100

CTK-1-GR-PP

Probe for medium-high conductivity, with graphite electrodes and PP body loaded with graphite and temperature sensor. Suitable for drinking water, industrial processes, boilers, wastewater and salt water.



Technical features

Measurement range 0 – 50,000 μS

Cell constant K 1 cm ; Cell constant C 1 cm^{-1}

Operating temp 5 – 100°C

Maximum pressure 5 bar

Body material PP + 30% Graphite ;
Electrode material Graphite

Mechanical connection $\frac{1}{2}$ " GAS M

Electrical connection 5m or 10m cable

Temperature sensor PT100

CTK-1-GR-EP

Probe for medium-high conductivity, with graphite electrodes, epoxy body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.



Technical features

Measurement range 5 – 20,000 μS

Cell constant K 1 cm ; Cell constant C 1 cm^{-1}

Operating temp 0 – 70°C

Maximum pressure 7.5 bar

Body material Epoxy ; Electrode material Graphite

Mechanical connection 12 mm

Electrical connection 6m cable

Temperature sensor PT100

CK-1-PT-GL

Probe for medium-high conductivity with platinum electrodes and glass body without temperature sensor. Suitable for reverse osmosis and fish farming.



Technical features

Measurement range 1 – 20,000 μS

Cell constant K 1 cm ; Cell constant C 1 cm^{-1}

Operating temp 0 – 130°C

Maximum pressure 6 bar

Body material Glass ; Electrode material Platinum

Mechanical connection 12 mm

Electrical connection 6m cable

Temperature sensor Not present

CTK-01-PT-EX

High-conductivity probe with platinum electrodes, epoxy body and temperature sensor. Suitable for wastewater and salt water.



Technical features

Measurement range 100 – 200,000 μS

Cell constant K 0.1 cm ; Cell constant C 10 cm^{-1}

Operating temp 0 – 70°C

Maximum pressure 7.5 bar

Body material Epoxy ; Electrode material Platinum

Mechanical connection 12 mm

Electrical connection 6m cable

Temperature sensor PT100

CTK-10-PT-EX

Extra-low-conductivity probe with platinum electrodes, epoxy body and temperature sensor. Suitable for irrigation, wastewater, drinking water and cooling water.



Technical features

Measurement range 0.1 – 500 μS

Cell constant K 10 cm ; Cell constant C 0.1 cm^{-1}

Operating temperature 0 – 70°C

Maximum pressure 7.5 bar

Body material Epoxy ; Electrode material Platinum

Mechanical connection 12 mm

Electrical connection 6m cable

Temperature sensor PT100

Dissolved oxygen probes

FOR PRECISE MEASUREMENT OF DISSOLVED OXYGEN

DO

Dissolved oxygen (DO) is a measure of the concentration of free oxygen molecules present in water. The concentration of DO is an important indicator of the health of an aquatic ecosystem and fundamental for almost all forms of life. Dissolved oxygen in water comes from two main sources: the atmosphere and photosynthesis. The main factors that affect its concentration are temperature, altitude, salinity and the water's degree of stagnation or movement.

The correct DO level depends on the intended use of the system. In industrial applications, the make-up water must have low DO levels to avoid corrosion and the formation of limescale in the pipes. A high DO level improves the taste of drinking water; however, should this become excessive it can increase corrosion in pipes and transport lines. If the DO level falls too low, for example in aquaculture applications, fish will suffocate. In similar situations, in a purification plant, the bacteria that feed the decomposition process will die and the plant will stop. For these reasons, monitoring the content of dissolved oxygen is important to ensure the efficiency of many processes.

For the measurement of dissolved oxygen, Mytho proposes the following probe:



S423C OPT PVC

Optical measurement using the luminescence method; high precision and short response time; 4-20 mA output. Suitable for wastewater, sludge treatment, fish farming and biological treatments.



Technical features

Measurement range 0 – 20 ppm

Nominal accuracy ± 1%
± 0.2mg/l for DO <5mg/l ;
± 0.3mg/l for DO >5mg/l

Response time 90% of the value in less than 60 seconds

Operating temp 0 – 50°C

Maximum pressure 5 bar

Body material PVC

Electrode material Special glass for optical applications

Mechanical protection IP68 (sensor + cable)

Mechanical connection ¾" BSP (Ø 36 mm)

Power supply 12 – 24 Vdc

Electrical connection 10m cable

Electric output 4 – 20 mA

Flow-rate sensors

FW

GUARANTEEING ACCURATE, REPEATABLE RESULTS IN FLOW-RATE MEASUREMENT

Flow can be expressed as volumetric flow rate, mass flow rate or in terms of volume or total displaced mass. The measurement is obtained using two devices: one, primary, which is placed in direct contact with the fluid and which generates a signal and one, secondary, which translates this signal into a movement or a signal to indicate, record, control or calculate the flow. Other devices indicate or calculate the flow directly through the interaction of the fluid flowing in the pipeline and the measuring device which is placed directly or indirectly in contact with the fluid.



In magnetic instruments, the voltage induced by a magnet in a conductive liquid flowing in a pipe is proportional to the velocity of the fluid. This magnetic induction principle is used in the SFW series sensors; they have no moving parts. All flow rate meters without moving mechanical parts can also be used for the measurement of dirty liquids, as long as they are conductive and homogeneous.

The paddle wheel sensors of the SFWE series use a different principle. They have a paddle wheel that rotates according to the flow rate, in whose blades small magnets are inserted. These, passing in front of a Hall sensor, generate a series of pulses whose frequency is proportional to the speed of the liquid which, multiplied by the area of the pipe section, gives the flow rate.

The 4-20 mA output allows the transmission of flow rate information even over a long distance. The specific design allows accurate measurement in a wide range of pipes, from DN15 (0.5 ") up to DN600 (24"). Suitable for **wastewater, sludge treatment, fish farming and biological treatment**.

SFWE



Technical features

Measurement range 0.15 – 8 m/s

Pipe size range DN15 – DN600

Pressure / Operating temp 16 bar at 25°C ;
8.6 bar at 70°C

Enclosure material ABS ; Degree of protection IP65 ;
Body material SS 316L / PVDF ; Seals FPM ;
Electrode materials SS 316L

Electrical connection Cable not included ;
Mechanical connection Insertion in probe holder

Power supply 5 – 24 Vdc ; Frequency output 0 – 500 Hz

Analogue output 4 – 20 mA

Simple and reliable paddle wheel flow sensor designed for use with any type of liquid without suspended solids. The paddle wheel flow sensor has a square wave output via NPN open collector transistor that allows connection to any type of digital input of the instrument.

A specially designed family of fittings guarantees quick and easy installation for all types of pipes, of any material, in sizes from DN15 to DN600 (from 0.5 "to 24"). Suitable for drinking water, fish farming, cooling water treatment, swimming pools and the textile industry.

SFW PVC-C



Technical features

Measurement range 0.15 – 8 m/s

Pipe size range DN15 – DN600

Pressure / Operating temp up to 10 bar at 25°C ;
up to 1.5 bar at 80°C

Body material C-PVC ; Seals EPDM or FPM ;
Rotor ECTFE (Halar®)

Shaft and bearings Ceramic ;
Electrical connection Cable not included ;
Mechanical connection Insertion in probe holder

Power supply 5 – 24 Vdc ;
Frequency output 45 Hz per m/s (nominal)

SFW PVDF



Technical features

Measurement range 0.15 – 8 m/s

Pipe size range DN15 – DN600

Pressure / Operating temp up to 10 bar at 25°C ;
up to 2.5 bar at 100°C

Body material PVDF ; Seals EPDM or FPM ;
Rotor ECTFE (Halar®)

Shaft and bearings Ceramic ;
Electrical connection Cable not included ;
Mechanical connection Insertion in probe holder

Power supply 5 – 24 Vdc ;
Frequency output 45 Hz per m/s (nominal)

SFW SS



Technical features

Measurement range 0.15 – 8 m/s

Pipe size range DN15 – DN600

Pressure / Operating temp up to 25 bar at 120°C

Body material SS 316L ; Seals EPDM or FPM ;
Rotor ECTFE (Halar®)

Shaft and bearings Ceramic ;
Electrical connection Cable not included ;
Mechanical connection Insertion in probe holder

Power supply 5 – 24 Vdc ;
Frequency output 45 Hz per m/s (nominal)

Chlorine probes

CL

ENSURING CONSISTENTLY ACCURATE CHLORINE MEASUREMENT

Chlorine is a compound used directly or indirectly in various sectors such as paper, antiseptics, dyes, food, insecticides, paints, petroleum products, plastics, medicines, fabrics, solvents and many other consumer products. It is used to kill bacteria and other microbes in the drinking water supply and in swimming pools. Chlorine is used in bleaching wood pulp for paper making, while bleach is also used industrially to remove ink from recycled paper.

Free chlorine, chlorine dioxide and total chlorine are usually measured to monitor and control the disinfection of drinking water, recycled water or water in swimming pools. In fact, when chlorine is added to water, it reacts with the organic compounds and metals present in the liquid, forming combined chlorine. Combined chlorine is not active for disinfection.

Probes for free chlorine

Free chlorine is chlorine which is present in water as hypochlorous acid (HOCl) or as hypochlorite ion (OCl⁻). Its measurement guarantees the available quantity of chlorine for disinfection or purification purposes. The most robust and reliable measurement technique is the use of a potentiostatic free chlorine sensor.

FCL - Free chlorine

Sealed-cell chlorine sensor, 4-20 mA output with automatic temperature compensation. Guaranteed accuracy with a short response time courtesy of active amperometric measurement.

Suitable for the measurement of free inorganic chlorine at constant pH and for fresh water without surfactants, FCL has a reduced dependence on pH for free chlorine based on isocyanuric acid (organic free chlorine), fresh water and sea water in a range between 10 and 50uS/cm; surfactants are partially tolerated.



Technical features

Inorganic free chlorine at constant pH	
Measurement range	0 – 0.5 ppm / 0 – 2 ppm / 0 – 5 ppm / 0 – 10 ppm / 0 – 200 ppm
pH range	6 – 8
Pressure range	0 – 1 bar

Inorganic free chlorine with reduced pH dependence	
Measurement range	0 – 2 ppm / 0 – 10 ppm
pH range	4 – 9
Pressure range	0 – 3 bar

Free chlorine based on isocyanuric acid (organic free chlorine)	
Measurement range	0 – 2 ppm / 0 – 5 ppm / 0 – 10 ppm
pH range	4 – 12
Pressure range	0 – 0.5 bar

Operating temp	0 – 45°C
-----------------------	----------

Flow rate range	Approx 30 l/h
------------------------	---------------

Body material	PVC-U, PEEK, SS 1.4571 ; Electrode Silver chloride with gold ; Membrane PTFE
----------------------	--

Electrical connection	Cable not included ;
Connector	Two-pole terminal

FCL HP - Free high-pressure chlorine sensor

Sensor for the measurement of inorganic free chlorine with open measuring cell, 4-20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time courtesy of active amperometric measurement. FCL HP can be used for the measurement of free inorganic chlorine at high pressure (up to 8 bar). Ideal for drinking water, wastewater, process water, sea water and swimming pools.

Technical features

Measurement range 0 – 1 ppm / 0 – 5 ppm / 0 – 10 ppm

pH range 1 – 9

Operating temp 0 – 50°C / 0 – 70°C

Pressure range 0 – 8 bar

Flow rate Approx 30 l/h

Body material PVC-U, PEEK ; Electrode Gold ;
Membrane PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal



Chlorine dioxide probes

Chlorine dioxide is a neutral chlorine compound. It is very different from elemental chlorine, both in its chemical structure (ClO_2) and in its behaviour. One of the most important qualities of chlorine dioxide is its high solubility in water, especially in cold water. Chlorine dioxide does not hydrolyse when it enters the water; a dissolved gas remains in solution. Chlorine dioxide is about 10 times more soluble in water than chlorine. It is not affected by the pH and has an excellent residual effect remaining active for hours or even days. It does not interact with ammonia and is effective even at cold temperatures.

Chlorine dioxide is today one of the most powerful disinfection methods in the water industry and is extremely effective in controlling legionella. Therefore the correct measurement of its concentration in water is essential because it guarantees an effective use of chlorine dioxide for disinfection purposes and other applications. Too low a dosage can be ineffective, while overdosing can cause the formation of particularly harmful hypochlorite in the tank.

DCL - Chlorine dioxide

Sealed-cell chlorine dioxide sensor, 4-20 mA output with automatic temperature compensation. Guaranteed accuracy and short response time courtesy of active amperometric measurement. Suitable for drinking water and swimming pools.

Technical features

Measuring range 0-2 ppm / 0 -10 ppm

pH range 1-11

Operating temp 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approx 30 l/h

Body material PVC-U ; Electrode Gold ; Membrane PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal



DCL HP - High-pressure chlorine dioxide

Open-cell chlorine dioxide sensor, 4-20 mA output with automatic temperature compensation. Guaranteed accuracy and short response time courtesy of active amperometric measurement. Suitable for the measurement of chlorine dioxide at high pressure. and commonly used for drinking water, wastewater, process water, swimming pools and seawater.

Technical features

Measurement range 0 – 1 ppm

pH range 1 – 9

Operating temp 0 – 50°C / 0 – 70°C

Pressure range 0 – 5 bar / 0 – 8 bar

Flow rate Approx 30 l/h

Body material PVC-U, PEEK ; Electrode Gold ; Membrane PTFE

Electrical connection Cable not included ; Connector Two-pole terminal



Total chlorine probe

Total chlorine is the combination of the free chlorine left in the water and the combined chlorine. Total chlorine sensors are commonly used in wastewater treatment plants to measure the residual disinfection power of effluent water.

TCL - Total chlorine

Total chlorine sensor with sealed cell, 4-20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time courtesy of active amperometric measurement. Suitable for drinking water, swimming pools and sea water.

Technical features

Measurement range 0 – 2 ppm / 0 – 5 ppm / 0 – 10 ppm

pH range 4 – 12 (linear decrease with around 5% when pH level increases by one)

Operating temp 0 – 45°C

Pressure range 0.5 bar

Flow rate Approx 30 l/h

Body material PVC-U, PEEK, SS 1.4571 ; Electrode Silver chloride with gold ; Membrane PTFE

Electrical connection Cable not included ; Connector Two-pole terminal



Probes for peracetic acid

FOR SUPERIOR PERACETIC ACID MEASUREMENT

PAA

Peracetic acid can be used for the spray washing of food products and for the disinfection of cooling water systems. As a disinfectant agent, PAA is often preferred over chlorine products because it does not dissociate into potentially harmful products. Peracetic acid sensors are amperometric devices isolated from water by a permeable membrane. When the PAA diffuses through this membrane, it comes into contact with an active electrode and is reduced on its surface. Consequently, the sensor generates a current proportional to the concentration of PAA. Peracetic acid sensors require a constant flow of the liquid under examination through the membrane placed on the tip of the probe. Sample agitation is required and therefore not recommended in still water.

PAA - Peracetic acid

Peracetic acid sensor with 4-20 mA output and automatic temperature compensation. Precision, accuracy and reliability guaranteed with a very short response time. Suitable for fresh water and for all types of water treatment, especially for disinfection in sensitive uses, in the food, pharmaceutical and medical sectors. Can also be used in wastewater treatment.



Technical features

Measurement range 0 – 200 ppm / 0 – 500 ppm /
0 – 2,000 ppm / 0 – 5,000
ppm

pH range 1 – 6

Operating temp 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approx 30 l/h

Body material PVC-U, SS 1.4571 ; **Electrode** Silver
chloride with gold ; **Membrane** PTFE

Electrical connection Cable not included ;
Connector Two-pole terminal

Probes for hydrogen peroxide



ACHIEVE REPEATABLE RESULTS IN HYDROGEN PEROXIDE MEASUREMENT

Hydrogen peroxide is sometimes used for washing food products and for disinfecting cooling water systems. As a disinfectant it is often preferred to chlorine-based products because it does not separate into potentially harmful products. Hydrogen peroxide sensors are amperometric devices isolated from water by a permeable membrane. When the peroxide diffuses through this membrane, it comes into contact with an active electrode and reduces on its surface and, consequently, the sensor generates a current proportional to its concentration. The sensors require a constant flow of the liquid under test through the membrane placed on the tip of the probe. Sample agitation is required and therefore not recommended in still water.

H₂O₂ - Hydrogen peroxide

Hydrogen peroxide sensor with low flow rate dependence, with 4-20 mA output, membrane resistant and insensitive to surfactants and automatic thermal compensation. Guaranteed precision and accuracy, plus quick commissioning courtesy of reduced initialisation times. No faults caused by turbidity or colouring courtesy of the amperometric measurement principle.



Technical features

Measurement range	0 – 200 ppm / 0 – 500 ppm / 0 – 20,000 ppm / 0 – 200 ppm High concentration
pH range	2 – 11
Operating temp	0 – 45°C
Pressure range	0 – 1 bar
Flow rate	Approx. 30 l/h
Body material	PVC-U, SS 1.4571
Electrode	Silver chloride with gold
Membrane	PTFE
Electrical connection	Not included ;
Connector	Two-pole terminal

Bromine probes



FOR SUPERIOR BROMINE MEASUREMENT

As an alternative to chlorine compounds, bromine compounds are increasingly used for the disinfection of water, despite the greater reagent costs. In disinfection, bromine has some advantages over chlorine compounds: greater disinfectant action at high pH values, less volatility at higher temperatures, less resulting corrosion, less formation of unpleasant odours and finally less irritation of mucous membranes due to bromine compounds liberated (bromine combined).

Br - Bromine

Sealed-cell bromine sensor, 4-20 mA output and automatic temperature compensation. Guaranteed accuracy and short response time, courtesy of active amperometric measurement. Suitable for process water, cooling water, swimming pools and seawater.



Technical features

Measurement range	0.05 – 10 ppm
pH range	6.5 – 9.5
Operating temp	0 – 45°C
Pressure range	0 – 0.5 bar
Flow rate	Approx 30 l/h
Body material	PVC-U, PEEK, SS 1.4571 ; Electrode Silver chloride with gold ; Membrane PTFE
Electrical connection	Cable not included ;
Connector	Two-pole terminal

Ozone probes

FOR PROFESSIONAL OZONE MEASUREMENT

O₃

Ozone is currently the second most widely used disinfectant for drinking water after chlorine, although its use is almost exclusively limited to industrial countries that have efficient water networks. Therefore, it is used to pre-treat the source of water at the origin and subsequently allow chlorination with a lower dose of chlorine in the distribution system. Although ozonation has the power to effectively disinfect water, this method is not suitable for most applications in developing countries due to the high cost and the need for maintenance infrastructure.

O₃ - Ozone

Ozone sensor with 4-20 mA output, surfactant-resistant membranes and automatic temperature compensation. Guaranteed precision and accuracy with a short response time courtesy of active amperometric measurement. Long service life enabled by membrane-covered measuring electrodes inserted into an electrolyte, meaning that optimal measurement conditions can be maintained regardless of process conditions. Suitable for fresh water ready for use and salt water.



Technical features

Measurement range 0 – 2 ppm / 0 – 5 ppm / 0 – 10 ppm

pH range 2 – 11

Operating temp 0 – 45°C

Pressure range 0 – 1 bar

Flow rate Approx 30 l/h

Body material PVC-U, SS 1.4571

Electrode Silver chloride with gold

Membrane PTFE

Electrical connection Cable not included

Connector Two-pole terminal

Turbidity probes

THE PROFESSIONALS' CHOICE FOR REPEATABLE TURBIDITY MEASUREMENT

TB

The term turbidity indicates the reduction in transparency of a water sample due to the presence of suspended substances. The measurement of water turbidity is based on the amount of light scattered by the particles present in the water column and is considered a good measure of water quality.

Technical features

Features	S462-PW	S461-LT	S461-LT-SS	S461-MT	S461-ST	S461-HT
Measurement range	0 – 10 NTU/FTU	0 – 10 NTU	0 – 10 NTU	0 – 100 NTU	0 – 1000 NTU	0 – 4000 NTU
Measurement method	Scattered light	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°	Scattered light at 90°
Operating temp	0 – 45°C	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Maximum working pressure	6 bar	4 bar	4 bar	4 bar	4 bar	4 bar
Body material	PVC black	PVC black	SS 316L	PVC black	PVC black	PVC black
Seals material	//	Viton and silicone	Viton and silicone	Viton and silicone	Viton and silicone	Viton and silicone
Optical group	Positioned at 180° mounted on a PVC flange	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment	Special glass with oleophobic treatment
Mechanical connection	N. 2 2 "1/2" female threads Quick coupling from 8x12 mm	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68	1" GAS (Ø 42 mm); IP68
Power supply	External adapter 12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc	12 – 24 Vdc
Electrical connection	2 x 5m cable	10 m cable	10 m cable	10 m cable	10 m cable	10 m cable
Analogue output	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA	4 – 20 mA

S462 PW

The measuring principle of the probe is based on the deviation of the light produced by the suspended particles in the liquid. The absence of contact with the measuring liquid and the LED optical technology makes the system stable over time and minimises the need for recalibration. Suitable for water treatment, filtration or decantation plants, wastewater refining for agricultural or industrial reuse, swimming pools and the food industry, especially wine and beer production.



Technical features

Measurement range 0 – 10 NTU/FTU

Measurement method Scattered light

Operating temp 0 – 45°C ;

Maximum pressure 6 bar

Body material PVC black

Optics and sensor 180° positioned and flange mounted in PVC

Mechanical connection 2 female threads of 2 "and 1/2" 8x12mm quick coupling

Power supply 12 – 24 Vdc (external adapter)

Electrical connection 5-metre bipolar cable for projector and receiver connection on external adapter

Electric output 4 – 20 mA (industrial std)

S461 LT

Sensor suitable for low turbidity levels; made of PVC with 4-20 mA output. Guaranteed accuracy and short response time. Suitable for water-treatment, swimming pools and drinking-water applications.



Technical features

Measurement range 0 – 10 NTU

Measurement method Scattered light at 90°

Operating temp 0 – 50°C

Maximum pressure 4 bar

Body material PVC black

Seals Viton and silicone

Optics Special glass with oleophobic treatment

Mechanical connection 1" GAS (Ø 42 mm); IP68

Power supply 12 – 24 Vdc

Electrical connection 10 m cable

Electric output 4 – 20 mA

S461 LT SS

Sensor suitable for low turbidity made of steel with 4-20 mA output. Guaranteed accuracy and short response time. Suitable for the food industry and the beverage packaging sector.



Technical features

Measurement range 0 – 10 NTU

Measurement method Scattered light at 90°

Operating temp 0 – 50°C

Maximum pressure 4 bar

Body material SS316 L

Seals Viton and silicone

Optics Special glass with oleophobic treatment

Mechanical connection 1" GAS (Ø 42 mm); IP68

Power supply 12 – 24 Vdc

Electrical connection 10 m cable

Electric output 4 – 20 mA

S461 MT

Low / medium-turbidity sensor in PVC, with 4-20mA output. Guaranteed accuracy and short response time. Suitable for untreated water, well water, surface water and wastewater.



Technical features

Measurement range	0 – 100 NTU
Measurement method	Scattered light at 90°
Operating temp	0 – 50°C
Maximum pressure	4 bar
Body material	PVC black
Seals	Viton and silicone
Optics	Special glass with oleophobic treatment
Mechanical connection	1" GAS (Ø 42 mm); IP68
Power supply	12 – 24 Vdc
Electrical connection	10 m cable
Electric output	4 – 20 mA

S461 ST

Sensor suitable for medium / high-turbidity values; made of PVC and equipped with 4-20mA output. Guaranteed accuracy and short response time. Suitable for untreated water, well water, surface water and wastewater.



Technical features

Measurement range	0 – 1000 NTU
Measurement method	Scattered light at 90°
Operating temp	0 – 50°C
Maximum pressure	4 bar
Body material	PVC black
Seals	Viton and silicone
Optics	Special glass with oleophobic treatment
Mechanical connection	1" GAS (Ø 42 mm); IP68
Power supply	12 – 24 Vdc
Electrical connection	10 m cable
Electric output	4 – 20 mA

S461 HT

Sensor used for high-turbidity values; made of PVC, with 4-20mA output. Guaranteed accuracy and short response time. Suitable for sludge treatment.



Technical features

Measurement range	0 – 4000 NTU
Measurement method	Scattered light at 90°
Operating temp	0 – 50°C
Maximum pressure	4 bar
Body material	PVC black
Seals	Viton and silicone
Optics	Special glass with oleophobic treatment
Mechanical connection	1" GAS (Ø 42 mm); IP68
Power supply	12 – 24 Vdc
Electrical connection	10 m cable
Electric output	4 – 20 mA

Probes for suspended solids

SS

ADVANCED PROBES FOR SUSPENDED SOLIDS MEASUREMENT

Sensors for suspended solids are optical devices that operate in the infrared range. Unlike turbidity probes, they use “back-diffusion” to allow the detection of suspended solids larger than those found by turbidity sensors and to measure concentration. The use of infrared light ensures a very long sensor life and minimises the effects of colour change in the sample.



S461 S

Suspended solids sensor with steel body and 4-20mA output. Precision and degree of accuracy guaranteed with excellent response time control. Suitable for sludges from biological processes, paper mills, chemical industry, food, extraction plants, quarries, tunnel construction and aggregate extraction.



Technical features

Measurement range 0 – 30 g/l

Measurement method Absorption of light

Operating temp 0 – 50°C ; Maximum pressure 4 bar

Body material SS 316 L

Seals Viton ; Optics Special glass

Mechanical connection 1" GAS (Ø 42 mm); IP68

Power supply 12 – 24 Vdc

Electrical connection 10 m cable

Electric output 4 – 20 mA

Temperature probes

°C °F

FOR ULTRA-RELIABLE, CONSISTENT TEMPERATURE MEASUREMENT

Temperature is a critical parameter for determining water quality and is of fundamental importance for the environment. It determines the maximum concentration of dissolved oxygen in the water and affects the speed of chemical and biological reactions. Temperature is intrinsically a measure of the thermal state of a material.

One of the most commonly used methods to determine temperature is measurement via a resistance thermometer. Resistance thermometers offer great stability, accuracy and repeatability while the advantages of platinum resistance thermometers include high precision and a wide operating range. The electrical resistance of the sensor used in this type of thermometer, called RTD, changes as the temperature varies; rising in line with temperature increase and for this reason it is defined as PTC (Positive Temperature Coefficient). The measurement of the electrical resistance value therefore allows the user to determine the temperature under examination.

In industrial applications, PT100 sensors are widely used. The abbreviation PT indicates that the sensor is made of platinum (Pt), while the number 100 establishes that the sensor has an electrical resistance of 100 ohms at 0°C.



PT100 NUT



Technical features

Measurement range 0 – 100°C

Pressure range 0 – 7 bar

Body material PP

Sensor PT100

Electrical connection 3 m bipolar cable ;

Mechanical connection ¾" or ½" Gas M

PT100 V



Technical features

Measurement range 0 – 100°C

Pressure range 0 – 7 bar

Body material Pyrex

Sensor PT100

Electrical connection 5 m three-pole cable ;

Mechanical connection 12 mm

PT100 VPG



Technical features

Measurement range 0 – 100°C

Pressure range 0 – 7 bar

Body material Pyrex

Sensor PT100

Electrical connection 5 m three-pole cable ;

Mechanical connection PG13.5

Probe Holders

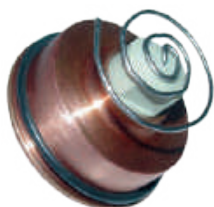
PATENTED MODULAR PROBE HOLDERS WITH OPEN CHLORINE AMPEROMETRIC CELL (ORGANIC AND INORGANIC) AND FLOW LEVEL CONTROL.

Open amperometric probes offer stable and accurate measurements to determine chlorine concentration. They exploit the potential difference that is created between a pair of electrodes, one copper and the other platinum, when they are crossed by a stable flow of water in which chlorine ions are present. This type of cell is normally positioned by creating a “by-pass”, in parallel to the main pipeline of the process, and making sure that it is crossed by a constant flow which, to ensure the best measurement quality, must be stabilised around 60 l/h.

The modular system created by Mytho (covered by an industrial patent) consists of an amperometric cell that can be mechanically coupled to other probe-holder modules, intended to house probes for pH, ORP and temperature along with potentiostatic probes for the determination of other substances. A further module allows the user to view the flow rate of the liquid that passes through the probe-holder block; a “reed” type sensor, placed in correspondence with the value of 60 l/h, allows it to obtain a consent signal when the flow in the probe holder is optimal.



Chlorine amperometric cell



Technical features

Measurement range 0 – 5 ppm

pH range 6.5 – 8.2

Operating temp 0 – 60°C

Pressure range 0 – 6 bar

Electrodes Copper and platinum

PSS Plexi

Probe holder in PMMA, resistant up to five bar of pressure and an operating temperature of 60°C.

There are 12 different modules that can accommodate all our probes and the modular configuration allows users to assemble up to six together, thus creating various configurations, to satisfy every need.

The modules are designed to fit our range of probes and ensure perfect measurement in every water-treatment application.

Technical features

Material Transparent PMMA

For probes from PG 13.5, 24 mm, 36 mm, 42 mm

Operating temp 0 – 60°C

Pressure range 0 – 5 bar

Flow rate range Approx 60 l/h

Hydraulic connection 8 x 12 mm tube

Infinitely variable
up to six probes



Probe holder for continuous flow, immersion and in-line insertion

A COMPLETE RANGE OF PROBE HOLDERS FOR PROFESSIONAL INSTALLATIONS

Mytho's range of probe holders offers safety, reliability and convenience when it comes to measuring pH, ORP, dissolved oxygen and conductivity. The product range extends from immersion, in-line and continuous flow supports, up to fully-automated calibration and cleaning systems.

For correct operation, the probes must always be installed using supports that ensure correct mechanical protection and the degree of impermeability. The probes can be immersed in tanks, inserted in pipes or placed in sample collection containers.



Flow-through holders

USED FOR MEASUREMENT IN EITHER A BY-PASS OR DIRECTLY IN THE MAIN LIQUID FLOW FOR ALL INDUSTRIAL PROCESSES

Single

The probe holder can be used by passing water from a pressure pipeline through it, at up to 6 bar. The material of the probe holder is characterised by good transparency and excellent resistance to chemical agents.

Suitable for process applications where up to three different sensors can be used in the same beaker and especially suited to wastewater, fish farming and oxidation sludge.



Technical features

Material (head) PP (Polypropylene)

Material (glass) SAN (Styrene Acrylonitrile)

Probe holder housing Female thread ¾" GAS

Hydraulic connection 4 x 6 mm / 8 x 12 mm (tube)

Operating temp 0 – 40°C

Pressure range 0 – 6 bar

Accommodates one probe for:





PSS8 A / PSS8 A HP



Technical features

Material (head) PP Black

Material (glass) Transparent PMMA

Probe holder housing PG 13.5 and 12 mm

Operating temp 0 – 40°C

Pressure range 0 – 2 bar – standard version
0 – 5 bar – HP version

pH range 4 – 10

Flow sensor Integrated reed

Accommodates
three probes for:



PSS8 A1 / PSS8 A1 HP



Technical features

Material (head) PP black

Material (glass) PP black

Probe holder housing PG 13.5 and 12 mm

Operating temp 0 – 40°C

Pressure range 0 – 2 bar – standard version
0 – 5 bar – HP version

pH range 2.7 – 12

Flow sensor Integrated reed

Accommodates
three probes for:



PSS8 B1 HP



Technical features

Material (head) PP black

Material (glass) PP black

Probe holder housing 33, 36 and 42 mm

Operating temp 0 – 40°C

Pressure range 0 – 5 bar

pH range 2.7 – 12

Flow sensor Integrated reed

Accommodates
one probe for:



PSS8 C



Technical features

Material (head) PP black

Material (glass) Transparent PMMA

Probe holder housing 24 mm

Operating temp 0 – 40°C

Pressure range 0 – 2 bar

pH range 4 – 10

Flow sensor Integrated reed

Accommodates
one probe for:



In-line probe holder

SUITABLE FOR AGGRESSIVE CHEMICAL PROCESSES AS WELL AS FOR APPLICATIONS WITH HIGH-LEVEL HYGIENE REQUIREMENTS

These probe holders are used to insert a probe directly into the tube where the process liquid passes. The probes must be positioned vertically or inclined, at a maximum of 45°, in the direction of the flow. The section of the pipeline, where the probe is inserted, must always be between two taps or isolation valves, so that the flow can be interrupted or diverted during the maintenance phase of the probe or system.

PSS3 S

Simple and short pressurised connection in PP for low / medium operating pressure, which allows the insertion of a probe directly into the pipe where the liquid to be measured passes with a maximum inclination of 45° in the direction of flow. Suitable for swimming pools and irrigation systems.



Technical features

Material PP

Probe holder housing 12 mm

Hydraulic connection 1/2" GAS male thread

Operating temp 0 – 60°C

Pressure range 0 – 7 bar

Accommodates
one probe for:



PSS3

Pressurised connection for high pressure in PVC, which allows the insertion of a probe directly into the pipe where the liquid to be measured passes with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.



Technical features

Material PVC

Probe holder housing PG 13.5 and 12 mm

Hydraulic connection 1/2" Gas M

Operating temp 0 – 60°C

Pressure range 0 – 12 bar

Accommodates
one probe for:



SPP

Pressurised fitting for very high pressures that allows the insertion of a probe directly into the pipe where the liquid to be measured passes, with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.



Technical features

Material PP and PVC

Probe holder housing PG 13.5 and 12 mm

Hydraulic connection 1" GAS female thread

Operating temp 0 – 60°C

Pressure range 0 – 16 bar

Accommodates
one probe for:



SPP FIL

Pressurised fitting for very high pressures that allows the insertion of a probe directly into the pipe where the liquid to be measured passes, with a maximum inclination of 45° in the direction of the flow. Suitable for swimming pools, wastewater, cooling water and irrigation systems.



Technical features

Material PP and PVC

Probe holder housing PG 13.5 and 12mm

Hydraulic connection 1" GAS female thread

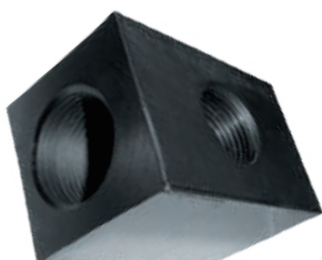
Operating temp 0 – 60°C

Pressure range 0 – 16 bar



PSS EC

Drain support for Model CTK1, 5 and 10 conductivity probes. Suitable for cooling towers, reverse osmosis and irrigation systems.



Technical features

Material PVC black

Probe holder housing 3/4" GAS female thread

Hydraulic connection 1" GAS female thread

Operating temp 0 – 50°C

Pressure range 0 – 6 bar

Accommodates
one probe for:



Saddle brackets for SFW sensors

Bracket for mounting over pipes from DN50 to DN200. Allows the insertion of a paddle wheel flow sensor of the SFW family. Suitable for cooling towers, reverse osmosis and irrigation systems.



Technical features

Body material PP ; Gasket FPM/EPDM

Mechanical connection 1" GAS female or T-flange

Probe holder housing ¾" GAS female

Operating temp 0 – 50°C

Pressure range 0 – 6 bar

Accommodates
one probe for:

FW

Probe holder for immersion probes

ROBUST AND RELIABLE INTERFACE FOR INDUSTRIAL MEASUREMENT PROCESSES IN TANKS, BASINS AND PIPES

Mytho immersion probe holders can be adapted to any type of industrial process. Measurements can be performed with up to two sensors at the same time, at diving depths of up to four metres. Custom adaptations and cleaning equipment complete the list of features of the immersion probe holders. The models with an adjustable flange can be used in combination with a counter flange which allows for quick and easy installation and removal.

PI

Guarantees correct mounting and mechanical protection by providing a high degree of waterproofing for the sensors. Submersible in tanks, which can be inserted into pipes or placed inside containers. Suitable for wastewater, fish farming and oxidation sludge.



Technical features

Body material PVC

Probe holder housing PG 13.5 and 12 mm

Mechanical connection Non-adjustable flange

Depth of immersion 400 – 2,000 mm

Operating temp 0 – 40°C

One probe for

pH

ORP

EC

PIR

Provides high mechanical protection and superior impermeability for sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.



Technical features

Body material PVC

Probe holder housing PG 13.5 and 12 mm

Mechanical connection Adjustable flange; FER optional

Depth of immersion 200 – 1.500 mm

Operating temp 0 – 40°C

One probe for

pH

ORP

EC

PIR₂

Guarantees correct assembly and high mechanical protection, giving an excellent degree of impermeability to sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.



Technical features

Body material PP

Probe holder housing PG 13.5 and 12 mm

Mechanical connection Adjustable flange

Depth of immersion 400 – 1000 mm

Operating temp 0 – 80°C

Two probes for



PCIR

Guarantees correct mounting with 3/4" adapter for CTK conductivity sensors. Submersible in tanks, insertable in pipes or placed in containers. Suitable for wastewater and biological treatment.



Technical features

Body material PP

Probe holder housing 3/4" GAS male

Mechanical connection Adjustable flange

Immersion depths 400 – 1.500 mm

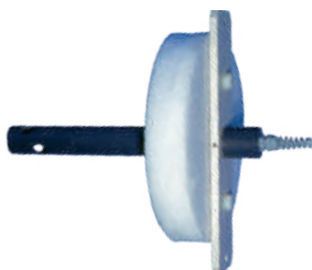
Operating temp 0 – 80°C

One probe for



PI G

Ensures correct mounting and provides high mechanical protection with a superb degree of waterproofing for sensors. Submersible in tanks, insertable in pipes or placed in containers with adjustable flanges. Mechanical connection is ensured by means of an anchor arm. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.



Technical features

Body material PVC

Probe holder housing PG 13.5 and 12 mm

Mechanical connection B-PI-G in PP

Depth of immersion Up to 2 metres deep by means of an anchor arm

Operating temp 0 – 40°C

One probe for



PI A

Immersion fitting with rinsing function to clean the sensor without opening or disassembling the fitting. Ensures long-term consistency of measurement, reducing the need for ongoing maintenance. Submersible in tanks, insertable in pipes or placed in containers with adjustable flanges. Suitable for wastewater, fish farming, biological treatment and oxidation sludge.



Technical features

Body material PVC

Probe holder housing PG 13.5 and 12 mm

Mechanical connection Adjustable flange

Depth of immersion 400 – 800 mm

Operating temp 0 – 40°C

Pressure range 0 – 4 bar

Flow rate 100 – 600 l/h

One probe for



S315 O

Immersion fitting with 45° bend for probes used to measure dissolved oxygen in water, tanks and pipes. Suitable for water treatment, biological treatment and fish farming.



Technical features

Body material PP with 45° PVC curve

Probe holder housing 3/4" GAS (Ø 42 mm)

Depth of immersion 500 – 2,500 mm

Operating temp 0 – 80°C

One probe for



S315 F

Immersion fitting for turbidity and suspended solids sensors and measurement in tanks and pipes. Suitable for primary and wastewater treatment plants, chemical sector, industry, food, extraction plants, fish farming and biological treatment.



Technical features

Body material PP

Probe holder housing 1" GAS (Ø 42 mm)

Depth of immersion 500 – 2,500 mm

Operating temp 0 – 80°C

One probe for



Optional adapter flange for backwashing

Certified buffer solutions

GUARANTEEING SUPERIOR ACCURACY IN MEASURING INSTRUMENT CALIBRATION

Standard conductivity solutions and pH buffers are used to calibrate the testers used for water quality control. They are essential for understanding if the equipment is calibrated and functioning correctly. The precision and accuracy of a pH, redox or conductivity measurement are determined by the quality of a buffer solution used to calibrate the probe. Regular use of these solutions is recommended to ensure the accuracy of the instrument in each application. The special double cap container allows users to always have a fresh and unpolluted buffer solution available.

The range of buffer solutions supplied by Mytho gives the instruments high pH stability even up to five years; they are stable even when exposed to air and prevent the growth of microorganisms.



KIT STPH



pH

Technical features

Mytho offers a kit of certified and low-cost pH buffers to satisfy the non-professional user by providing a product in 70 cc bottles that meet all the essential needs in a swimming pool.

For pH value 4.00 and 7.00

Quantity 70 cc per bottle

KIT STPHRX



pH ORP

Technical features

Mytho offers a certified, low-cost pH and ORP kit to meet all non-professional needs in 70cc bottles each. Ideal for the needs of the swimming pool sector.

For pH value 4.00 / 7.00 and ORP values of +465 mV

Quantity 70 cc per bottle

STPH



pH

Technical features

Mytho offers a selection of high-quality pH buffer solutions to meet all market needs.

For pH value 4.00 / 7.00 / 9.22

Reference temperatures 25°C

Quantity 250ml per bottle

STRX 465



ORP

Technical features

ORP buffer solutions are used for testing all common ORP sensors. They are not used for calibration purposes and are sensitive to changes in temperature.

For ORP values of +465 mV

Reference temperatures 25°C

Quantity 250 ml

STMS



EC

Technical features

Mytho offers conductivity standards whose stability of $\pm 1\%$ is guaranteed for a maximum duration of three years. They can be used repeatedly as long as the bottle is not left open for more than 1 hour in total.

MS 8 for conductivity values of 84 μS

MS 14 for conductivity values of 1423 μS

MS 128 for conductivity values of 12880 μS

Reference temperatures 25°C

Quantity 500 ml



Dedicated technical support

As a Mytho partner, you enjoy peace of mind courtesy of our after-sales technical support and maintenance service, with a prompt response in the unlikely event of any problems and a generous warranty reflecting the confidence we have in our products.