



AGRICULTURE SOLUTIONS



About TEFEN

Tefen Flow and Dosing Technologies, an industry leader with over 50 years of experience, specializes in designing, manufacturing, and distributing a diverse range of flow products and dosing solutions. The company's comprehensive product portfolio serves various international market sectors offering innovative and reliable solutions that empower customers across industries.



Dosing Solutions

Under the brand MixRite, Tefen offers a line of environmentally friendly, non-electric volumetric dosing pumps, setting the benchmark for eco-conscious dosing technology. These pumps represent company's commitment to delivering superior quality and innovative solutions, aligning with the ethos of uncompromising reliability and long-term efficiency.



Flow Solutions

Tefen's flow products and tailor made solutions, including fittings and connectors, are engineered for ease of use and require no specialized tools, ensuring leak-free connections with optimal reliability. Tefen's solutions have gained prominence, providing customers with dependable connections, exceptional performance, and extended service life.

Tefen is certified
by ISO 9001 2015





Dosing Solutions

Hydraulic Solutions MixRite



Electric Solutions MixRite E-300



Special Solutions TreatRite



Applications



Fertigation



Acidification EC/PH Control



Chlorination

Features & Benefits

- Hydraulic, volumetric and non-electric.
- Mixes additive and water precisely.
- Dosing proportional to water flow rate.
- Excellent dosing repeatability and homogeneity.
- Easy dosing adjustment.
- Easy to install, operate and maintain.
- Key internal parts are from the highest quality material available (Hastelloy spring. Viton Rubber seal)

Dosing Solutions

Simple installation & maintenance

MixRite™ is a "Plug and Play" unit. Installation of MixRite™ can be done by using the instructions which are attached to each unit.

MixRite™ is the most simple injector to use. Minimum maintenance is required and no technician is needed for changing spare parts.

Sustainable product

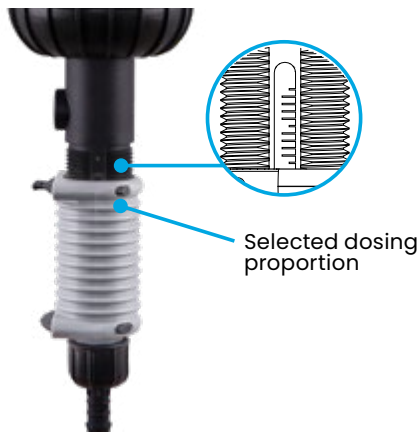
The hydraulic MixRite dosing pump operates without electricity, significantly cutting energy use and lessening its environmental impact. Its accuracy in dosing minimizes wastage of additives or fertilizers. This aligns with sustainable agricultural practices.

Operating principle

The unit will automatically start working when water is flowing in the water line and continue until the flow will stop; it is possible to control the suction (intake) operation by using the models with the On/Off system.

Adjusting the MixRite™ pump

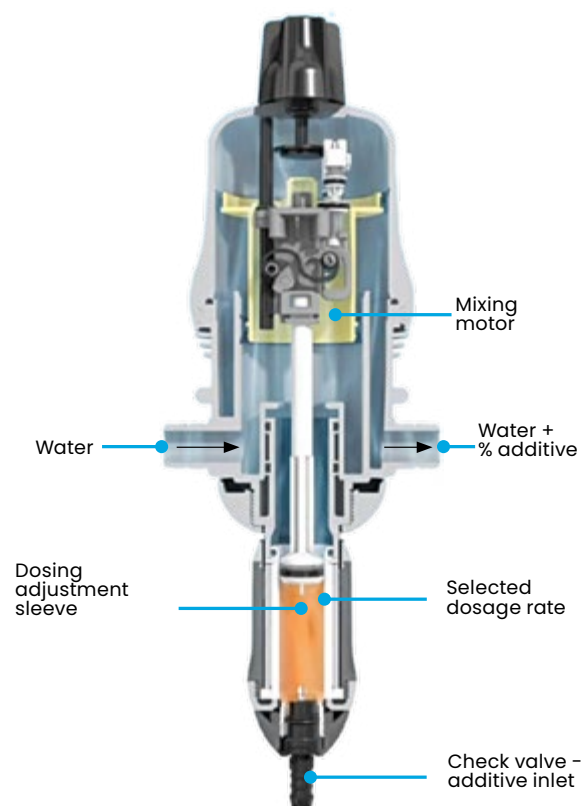
The injection rate is set up manually by rotating the sleeve to the desired proportion. The amount of injected concentrate is proportional to the amount of water flowing into the MixRite™ pump.



Precise proportional & homogeneous dosing

The MixRite dosing pump guarantees accurate delivery of additives or fertilizers into irrigation systems, ensuring consistent dosing throughout the process. Its proportional dosing remains unaffected by variations in pressure or water flow.

Determining the right MixRite™ model for each application is done according to the customer's needs and the system specifications.

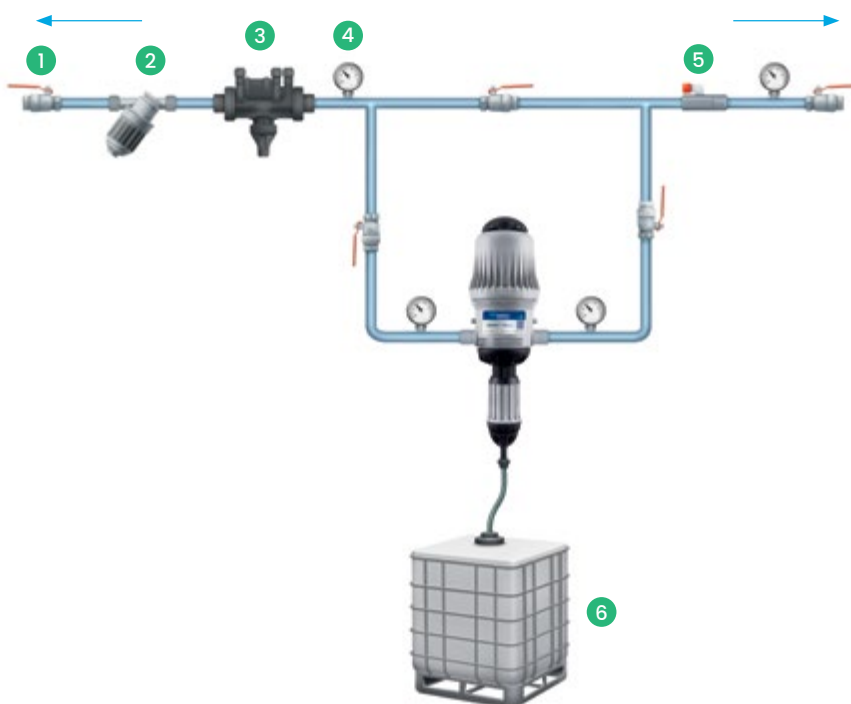


Typical installations

Available option

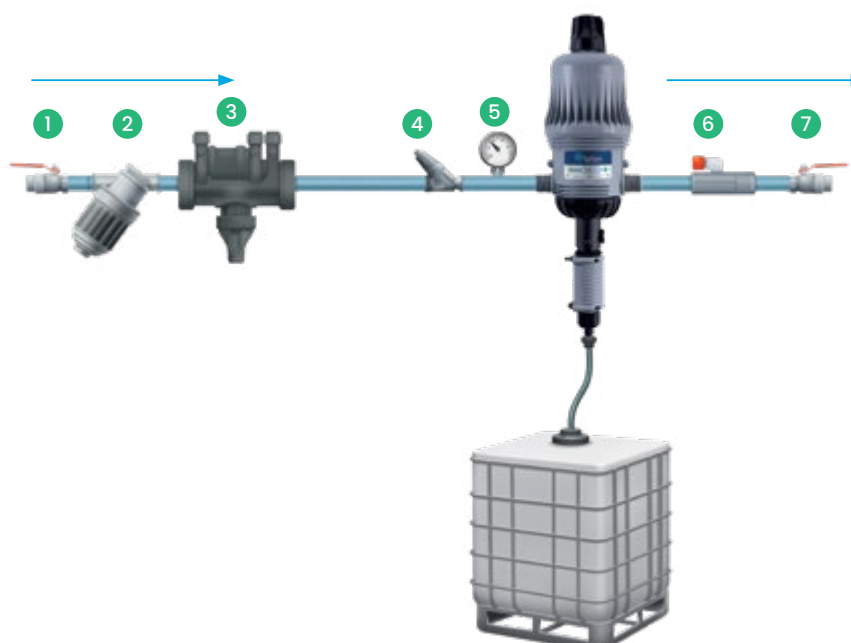
Tefen's MixRite™ presents a line of pumps tailored specifically for agricultural applications, providing precise and cost-effective fertilization solutions. The MixRite™ series encompasses a diverse range

of models with varying flow rates, offering flexibility to suit a wide array of system configurations. Below are 2 illustrations for of two optional installation setups.



Typical bypass installation when using large fertilizer tanks

- 1. Valve
- 2. Filter
- 3. Backflow Preventer
- 4. Manometer
- 5. Anti Siphon Valve
- 6. Additive Tank



Typical standard Installation inline

- 1. Main Valve
- 2. Filter - 130 Micron Min. (120 mesh)
- 3. Back Flow Preventer
- 4. Pressure Regulator
- 5. Manometer (pressure gauge)
- 6. Anti Siphon Valve
- 7. Operation Valve

Dosing Solutions

2.5 m³/h

MixRite™ 2.5

Technical Information

Water pressure
 Flow Rate
 Working temp
 Coupling

0.2 – 8 bar (2.9 – 116 psi)
 10 – 2500 l/h (0.044 – 11 GPM)
 4–40° C (39.2–104° F)
 3/4"

* Legs available upon request

Available options

Manual
 ON/OFF

Hydraulic
 ON/OFF

Electric
 ON/OFF





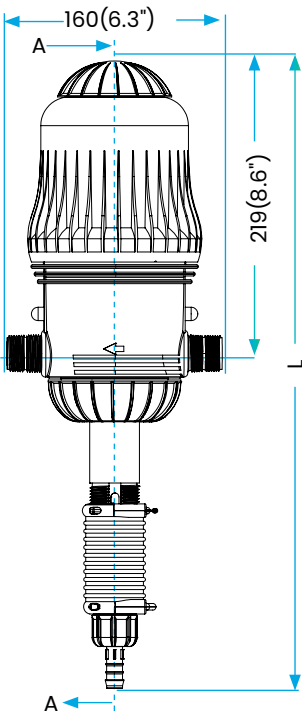
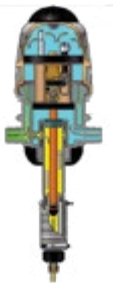
Applications


 Fertigation


 Chlorination


 Acidification
 EC/PH Control

Internal Bypass models



Application Color Code

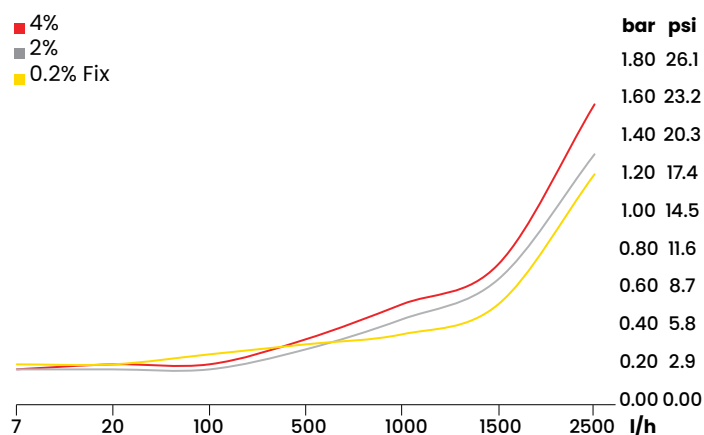
Application	Sleeve Color	TEFEN Code	Seal Material	Spring Material
Irrigation		STD	NBR	SST
Acidification		PVDF	AFLAS	Hastelloy
Chlorination		CL	Viton	Hastelloy

L (Height)		
	On/Off	Air Release
Max.	528 (20.7")	496 (19.5")
Min.	497 (19.5")	457 (17.9")

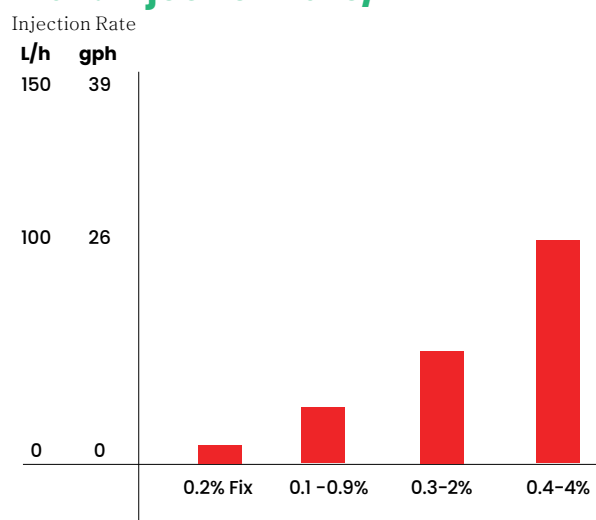
Application Range

Dosage Rate %	Flow Rate Range	Pressure Range	Connectors Dia. Thread	Min-Max Injection Rate Per Hour	Suction Tube Dia.	Gross weight std unit
0.1% - 0.9%	10 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.01 - 22.5 l/h	8 mm	1.8 KG
0.3% - 2%	10 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.03 - 50 l/h	10 mm	1.8 KG
0.4% - 4%	10 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.04 - 100 l/h	16 mm	1.8 KG
0.1% - 0.9% Internal bypass	20 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.02 - 22.5 l/h	8 mm	1.9 KG
0.3% - 2% Internal bypass	20 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.06 - 50 l/h	10 mm	1.9 KG
0.4% - 4% Internal bypass	20 - 2500 l/h	0.2 - 8 bar	3/4" BSPT	0.08 - 100 l/h	16 mm	1.9 KG

Pressure Loss



Max. injection rate/h



Dosing Solutions

3.5 m³/h

MixRite™ 3.5

Technical Information

Water pressure
Flow Rate
Working temp
Coupling

0.2 – 8 bar (2.9 – 116 psi)
10 – 3500 l/h (0.04 – 15.4 GPM)
4-40° C (39.2-104° F)
3/4"

* Legs available upon request

Available options

Manual
ON/OFF

Hydraulic
ON/OFF

Electric
ON/OFF





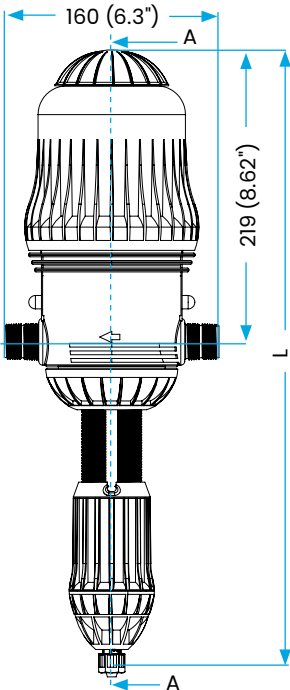
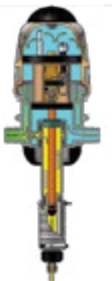
Applications


Fertigation


Chlorination


Acidification
EC/PH Control

Internal Bypass models



Application Color Code

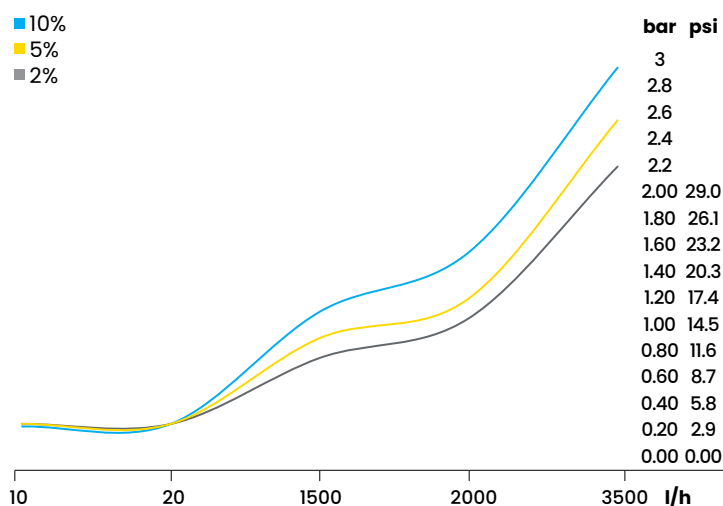
Application	Sleeve Color	TEFEN Code	Seal Material	Spring Material
Irrigation		STD	NBR	SST
Aciddification		PVDF	AFLAS	Hastelloy
Chlorine		CL	Viton	Hastelloy

L (Hight)		
	On/Off	Air Release
Max.	551 (21.7")	486 (19.1")
Min.	471 (18.5")	447 (17.6")

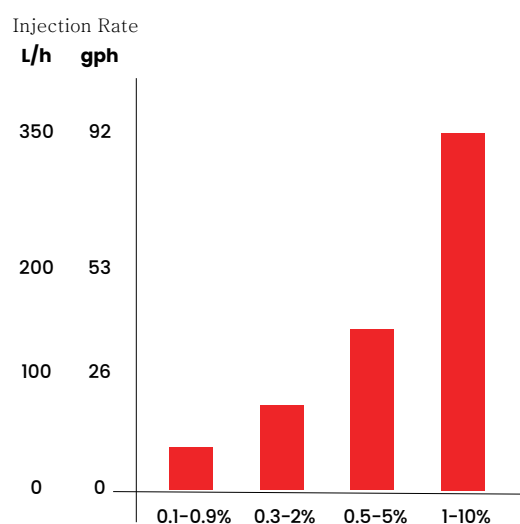
Application Range

Dosage Rate %	Flow Rate Range	Pressure Range	Connectors Dia. Thread	Min-Max Injection Rate Per Hour	Suction Tube Dia.	Gross weight std unit
0.03% - 0.2%	10-3500 l/h	0.2 - 8 bar	3/4" BSPT	0.003 - 7 l/h	8 mm	1.9 KG
0.5% - 5%	10-3500 l/h	0.2 - 8 bar	3/4" BSPT	0.05 - 175 l/h	16 mm	1.9 KG
1% - 10% Internal Bypass	50-3500 l/h	0.2 - 8 bar	3/4" BSPT	0.5 - 350 l/h	19 mm	3.6 KG

Pressure Loss



Max. injection rate/h



Dosing Solutions

5 m³/h

MixRite™ TF-5

Technical Information

Water pressure
Flow Rate
Working temp
Coupling

1 - 8 bar (14.5 - 116 PSI)
0.1 - 5 m³/h (0.44 - 22 GPM)
4-40° C (39.2-104° F)
1" or 32 mm

* Legs available upon request

Applications

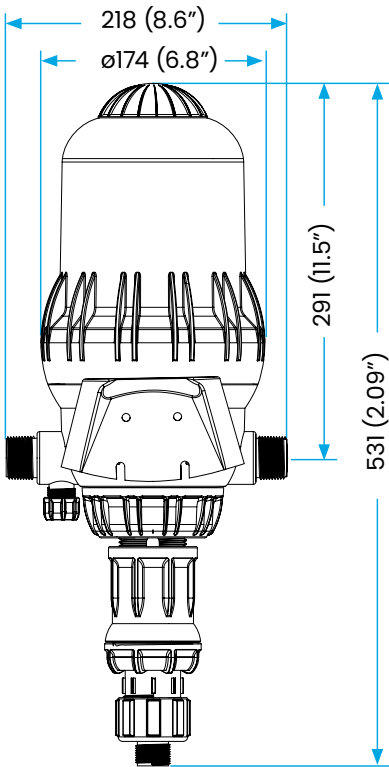
Fertigation
Chlorination

Available options

Manual
ON/OFF

Hydraulic
ON/OFF

Electric
ON/OFF



Application Color Code

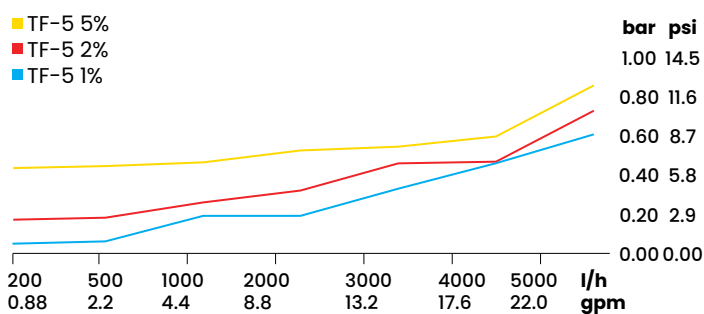
Application	Sleeve Color	TEFEN Code	Seal Material	Spring Material
Irrigation		STD	NBR	SST, Hastelloy
Chlorination		CL	Viton	Hastelloy

	L (Hight)	
	On/Off	Air Release
Max.	680 (26.7")	595 (23.4")
Min.	585 (23")	545 (21.4")

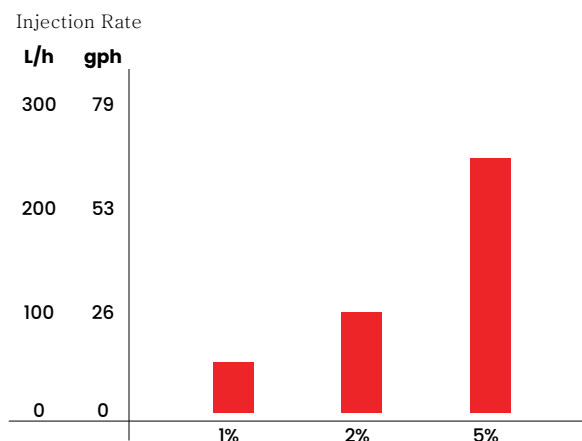
Application Range

Dosage Rate %	Flow Rate Range	Pressure Range	Connectors Dia. Thread	Min-Max Injection Rate Per Hour	Suction Tube Dia.	Gross weight std unit
0.1% - 1%	0.1 - 5 m³/h	1 - 8 bar	1" BSPT	0.1 - 50 l/h	16 mm	5 KG
0.2% - 2%	0.1 - 5 m³/h	1 - 8 bar	1" BSPT	0.2 - 100 l/h	16 mm	5 KG
0.5% - 5%	0.1 - 5 m³/h	1 - 8 bar	1" BSPT	0.5 - 250 l/h	19 mm	5 KG

Pressure Loss



Max. injection rate/h



Dosing Solutions

10 m³/h

MixRite™ TF-10

Technical Information

Water pressure
Flow Rate
Working temp
Coupling

1 – 8 bar (14.7 – 116 PSI)
0.1 – 10 m3/h (0.44 – 45 GPM)
4-40° C (39.2-104° F)
1.5" or 50 mm

* Legs available upon request

Applications

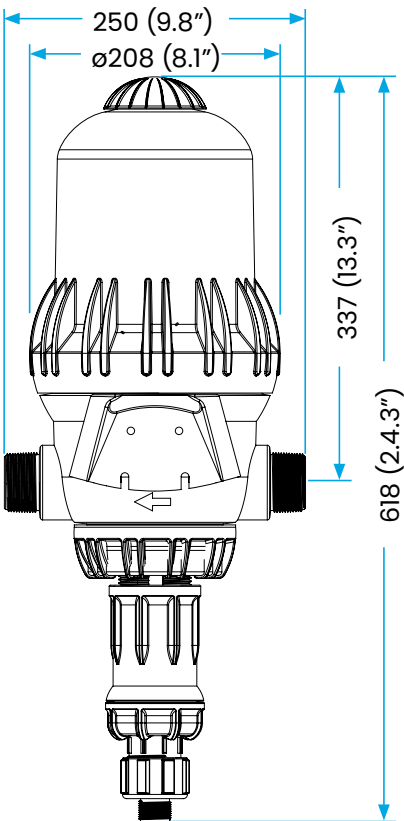
Fertigation
Chlorination

Available options

Manual
ON/OFF

Hydraulic
ON/OFF

Electric
ON/OFF



Application Color Code

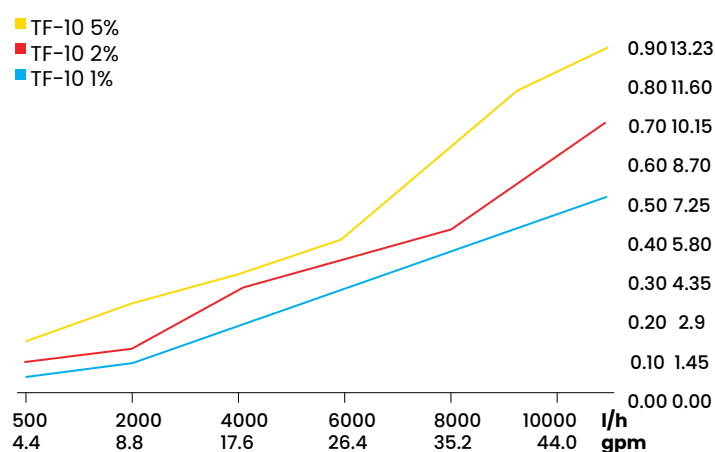
Application	Sleeve Color	TEFEN Code	Seal Material	Spring Material
Irrigation		STD	NBR	SST, Hastelloy
Chlorination		CL	Viton	Hastelloy

	L (Hight)	
	On/Off	Air Release
Max.	760 (29.9")	660 (26")
Min.	720 (28.34")	625 (24.6")

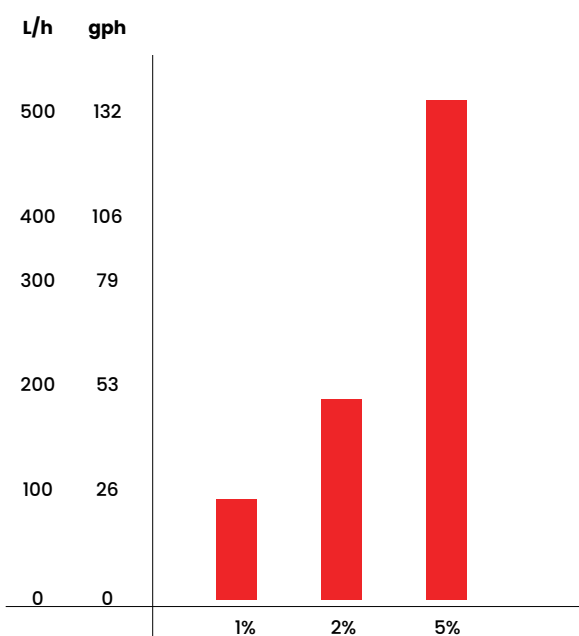
Application Range

Dosage Rate %	Flow Rate Range	Pressure Range	Connectors Dia. Thread	Min-Max Injection w Rate Per Hour	Suction Tube Dia.	Gross weight std unit
0.1% - 1%	0.1 - 10 m³/h	1 - 8 bar	1 1/2" BSPT	0.1 - 100 l/h	19 mm	7.3 KG
0.2% - 2%	0.1 - 10 m³/h	1 - 8 bar	1 1/2" BSPT	0.2 - 200 l/h	19 mm	7.3 KG
1% - 5%	0.1 - 10 m³/h	1 - 8 bar	1 1/2" BSPT	1 - 500 l/h	19 mm	7.3 KG

Pressure Loss



Max. injection rate/h



Dosing Solutions

25 m³/h

MixRite™ TF-25

Technical Information

Water pressure
Flow Rate
Working temp
Coupling

1 – 8 bar (14.7 – 120 PSI)
0.2 – 25 m³/h (0.9–110 GPM)
4–40° C (39.2–104° F)
2" or 63 mm

* Legs – Standard supply

Applications





Fertigation
Chlorination

Available options

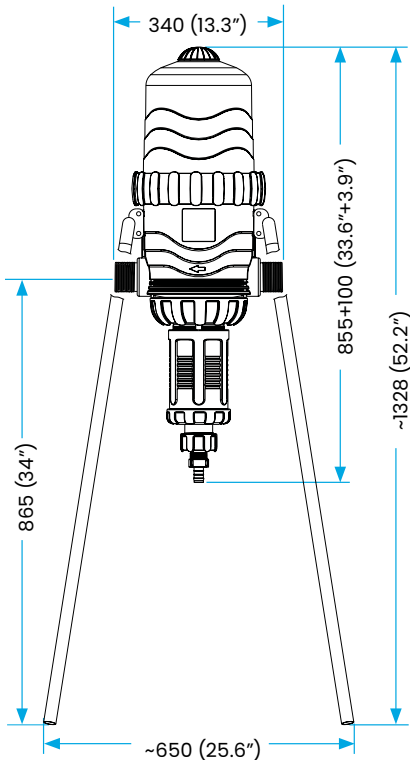
Manual
ON/OFF

Hydraulic
ON/OFF

Electric
ON/OFF







Application Color Code

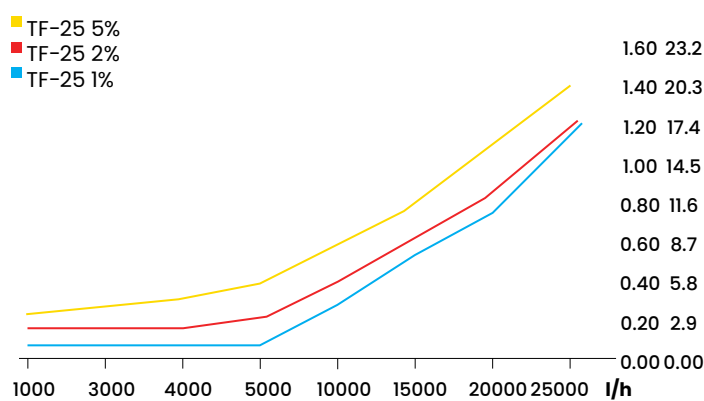
Application	Sleeve Color	TEFEN Code	Seal Material	Spring Material
Irrigation		STD	NBR	SST, Hastelloy
Chlorine		CL	Viton	Hastelloy

L (Hight)		
	On/Off	Air Release
Max.	1030 (40.5")	1000 (39.3")
Min.	880 (34.6")	900 (35.4")

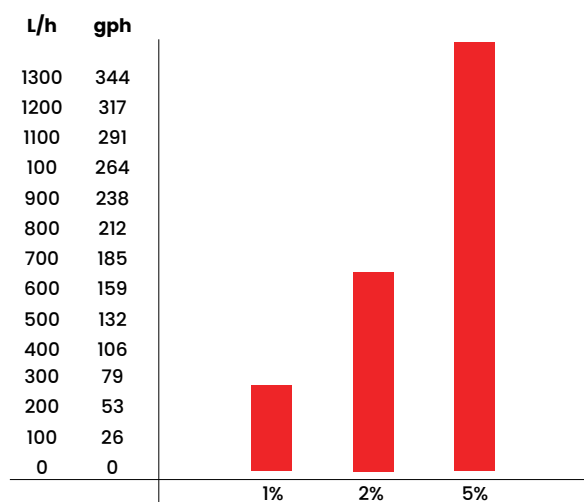
Application Range

Dosage Rate %	Flow Rate Range	Pressure Range	Connectors Dia. Thread	Min-Max Injection Rate Per Hour	Suction Tube Dia.	Gross weight std unit
0.1% - 1%	0.2 - 25 m³/h	1 - 8 bar	2" BSPT	0.2 - 250 l/h	25 mm	18.5 KG
0.3% - 2.5%	0.2 - 25 m³/h	1 - 8 bar	2" BSPT	0.6 - 625 l/h	25 mm	18.5 KG
1% - 5.5%	0.2 - 25 m³/h	1 - 8 bar	2" BSPT	2.0 - 1375 l/h	25 mm	18.5 KG

Pressure Loss



Max. injection rate/h



Dosing Solutions

MixRite™ E-300

The electric dosing pump by Tefen Flow & Dosing Technologies.

Tefen's MixRite™ E-300 electric dosing pump directly injects liquid additives into water lines.

The MixRite™ E-300 operates against water line-pressure of up to 5 Bar.



Main Advantages

- Handles a variety of chemicals with a large range of flow rates
- Input 12VDC, 16 AMP
- Zero pressure loss along the water line
- Can be powered using mains electricity 220 VAC or alternative network power sources, such as car battery and solar panel charged batteries
- Easy to install and operate
- Strong and durable external polycarbonate cover which is waterproof and UV-resistant
- Very low maintenance

Fertilizer Pump – 2 Modes of Operation

Manual operation

- The pump can be operated at the desired level of injection
- Volume scale ranging between 10-100% of the maximum flow rate
- High repetition capabilities, maintaining the same volume until defined otherwise

Automatic option using irrigation controller*

- The pump stops and starts according to operation of input.
- The dosing will be fully proportional

* Irrigation Controller is not included in the kit

Each pump comes with:

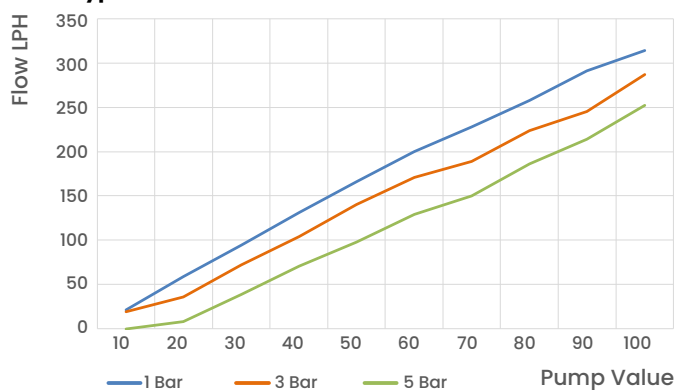
1. 10m pipe (Ø12mm) with BSPT 1/2" connector
2. Input kit
3. Output kit with air release valve & check valve

Simple and Low Cost Installation



Average Injection Flow Rate

M Type



M Type - L/H			
Pump value	2 bar	4 bar	5 bar
10	21		
20	49	32	
30	86	64	39
40	120	94	71
50	153	125	98
60	181	151	129
70	205	168	150
80	236	191	186
90	266	234	214
100	301	256	252

Two Models

AC Power Supply



DC Power Supply | Solar Charged Battery



Dosing Solutions

TreatRite – Water Treatment Line

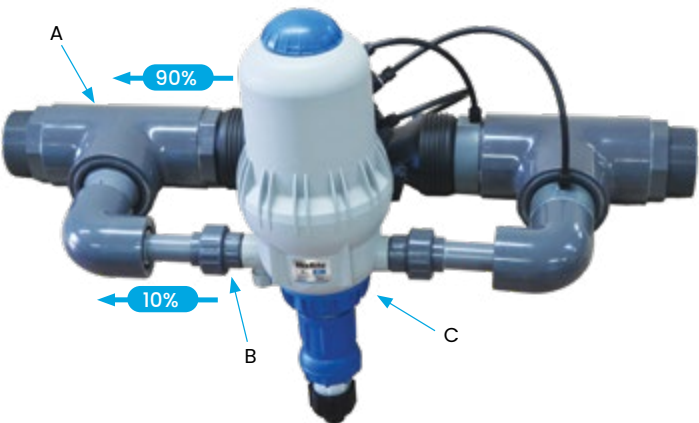
Proportional and Automatic Bypass System

The TreatRite™ system provides a proportional method between the mainline (A) and the sub-mainline (B), supported by a sophisticated innovative hydraulic system.

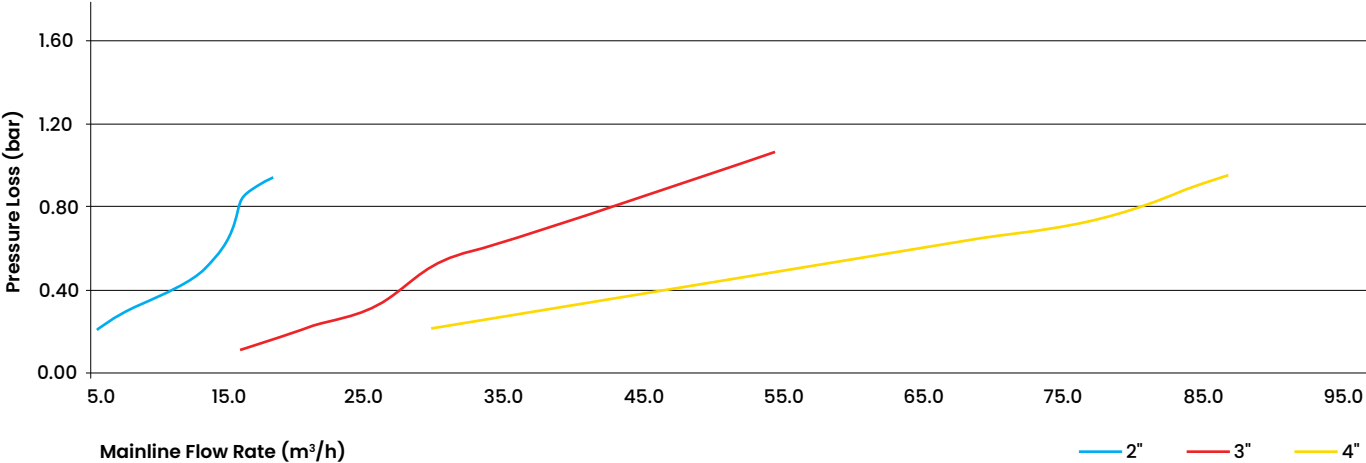
The MixRite™ pump is a volumetric, proportional unit. The combination between the MixRite™ Dosing Pump and the By-Pass unit creates a fully proportional dosing system.

This concept provides its user a perfect solution for water treatment. The end user of the TreatRite™ system can dose common additives for water treatment, such as: Sodium Hypochlorite, Chlorine Dioxide, and Hydrogen Peroxide.

The TreatRite™ system can be operated in various ranges as shown:



Pressure Loss VS. Flow Rate



Flow Range m³/h	Dosage Range		A	B	C
	(%)	L/h			
6-25	0.003-1	0.18-250	2"	3/4"	MixRite™ 2.5/3.5
15-50	0.01-0.5	1.5-250	3"	1"	MixRite™ TF5
30-100	0.01-0.5	3-500	4"	1 1/2"	MixRite™ TF10

MixRite™ range:

2.5



3.5



TF-5



TF-10



Operating Principle:

- The pilot operating valve samples the pressure level at multiple points, and controls the opening condition of the diaphragm.
- This operation governs the flow rates to generate a stable 1:10 ratio between lines.

Case Study (Water Treatment)

- Total water flow rate: 67.3 m³/h
- Desired dosage rate: 0.1%
- Additive amount: $67.3 \times 0.1\% = 0.0673 \text{ m}^3/\text{h}$
- Relevant configuration: 4", 1.5"
- Main line water flow: $67.3 \times 0.9 = 60.57 \text{ m}^3/\text{h}$
- By-Pass water flow: $67.3 \times 0.1 = 6.73 \text{ m}^3/\text{h}$
- Relevant injector: TF10 0.2%-2%
- Dosage setting on injector: $0.0673 / 6.73 = 1\%$

Features and Benefits

- Keeps constant proportional flow rate
- Hydraulic, volumetric and non-electric
- Dosing proportional to flowrate
- Precision: surface quality optimized with no waste
- Flow rate between main line and sub-main line will remain 10:1 at wide flow rates
- Working pressure up to 8 bar (116 PSI)
- High UV resistance
- High chemical resistance
- Supplied pre-set. no need for calibration
- Excellent dosing repeatability and homogeneity
- Easy to install, operate and maintain, with no electricity risk



Flow Solutions

Barb Block



Barb Connectors



**Threaded
Connectors**



**Quick Release
Coupling**



Unique Solutions



Tubes



Valves



**Spraying & Fogging
Nozzles**



Air Blow Guns

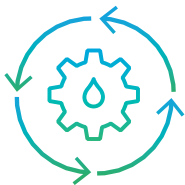


Tefen is certified
by ISO 9001 2015





Main Applications



Automation

Hydraulic loops are the connecting link from the controller to the hydraulic valve. All hydraulic control loops are connected to the controller and it is a critical part of your automated system.

Tefen fittings and tubes offer dependable, UV-protected, and have a leak-proof property, ensuring prolonged, reliable performance in field service applications.



Climate Control

To sustain year-round farming, an enclosed indoor growth environment is essential, incorporating greenhouses, euro/hydro farming, fertigation farms etc. Climate control becomes vital for optimal yield and consistent productivity in such scenarios. Tefen fittings, renowned for their user-friendly nature, durability, and reliability, serve as key components in maintaining a steady environment throughout the plant life cycle.



Connection

Tefen fittings, crafted with more than 50 years of expertise, guarantee flawless flow within every system. They offer ease of use, swift installation, reliability, and leak-proof performance, ensuring enduring service life, even when employed in demanding field conditions and across various weather extremes.

Flow Solutions

Features & Benefits

- Effortless Operation: User-friendly design that requires no specialized tools.
- Premium Quality: Meets high standards for reliability & durability.
- Leak-Free Assurance: Ensures a secure connection.
- Low Maintenance: Designed for minimal upkeep.

Premium quality

Tefen's flow products are renowned for their premium quality and adherence to stringent standards. Designed with precision and utilizing top-notch materials, Tefen's flow products boast exceptional durability, reliability, and performance. They undergo rigorous testing processes to ensure they meet and exceed industry benchmarks.

Low maintenance

Tefen's flow products are known for their low maintenance. The use of high-quality materials and precision manufacturing techniques ensures resistance to wear, and tear, contributing to their long-term functionality. This aspect not only saves time but also minimizes operational costs.



Effortless leak-free operation

Tefen's flow products offer effortless operation and leak-free assurance. They ensure easy installation and streamlined use, enhancing workflow efficiency. It guarantees dependable performance, making Tefen's flow products a trusted choice where reliability and ease of use are crucial.

Barb Block

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



Temperature

4° - 90° C
(subject to application)



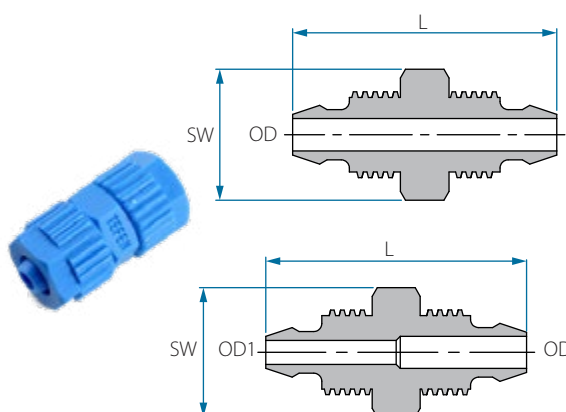
Material

Reinforced
Polypropylene



Fitting's dimension

refer to tube ID or OD,
with respect to the
common application

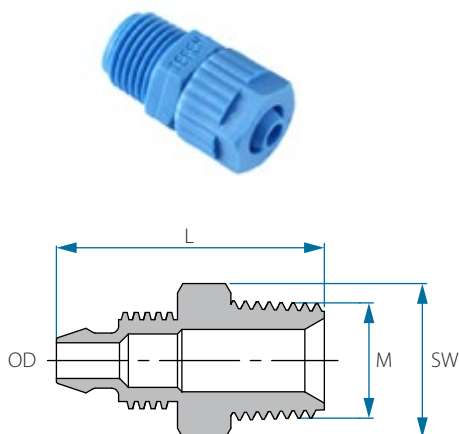


Union Connector

Cat. No.	Tube OD mm	L mm	SW	Color
22046248008	8	32.7	14	Blue
22046252008	12	40.6	19	

Reducing Connector

Cat. No.	Tube OD mm	Tube OD1 mm	L mm	SW	Color
22045648468	8	6	32.7	14	Blue



BSPT Male Connector

Cat. No.	Tube OD mm	M (BSPT)	L mm	SW	Color
22046846048	6	1/4"	29.7	14	Blue
22046846068	6	3/8"	32.5	17	
22046846088	6	1/2"	35.5	22	
22046848048	8	1/4"	29.5	14	
22046848068	8	3/8"	31.4	17	
22046848088	8	1/2"	36.1	22	
22046852082	12	1/2"	40.1	22	Black
22046848062	8	3/8"	31.4	17	
22046852042	12	1/4"	37.3	14	

NPT Male Connector

Cat. No.	Tube OD inch	M (NPT)	L mm	SW	Color
22246804043	1/4"	1/4"	34	14	Grey
22246804063	1/4"	3/8"	35.1	17	
22246804083	1/4"	1/2"	40.2	22	
22246805043	5/16"	1/4"	34.0	14	
22246805063	5/16"	3/8"	35.1	17	
22246805083	5/16"	1/2"	40.2	22	

Flow Solutions

Barb Block

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



Temperature

4° – 90° C
(subject to application)



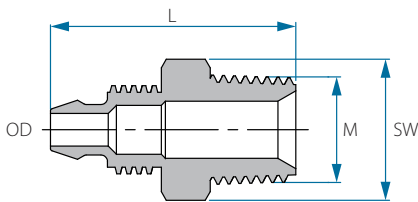
Material

Reinforced
Polypropylene



Fitting's dimension

refer to tube ID or OD,
with respect to the
common application

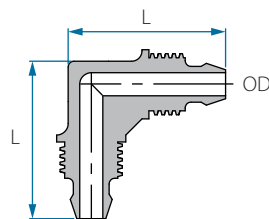


BSPT Female Connector

Cat. No.	Tube OD mm	F (BSPT)	L mm	SW	Color
22046646048	6	1/4"	27.8	17	 Blue
22046648028	8	1/8"	26.3	14	
22046648048	8	1/4"	28.0	17	
22046648068	8	3/8"	30.6	22	
22046648088	8	1/2"	32.5	26	

NPT Female Connector

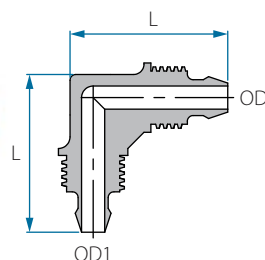
Cat. No.	Tube OD inch	F (NPT)	L mm	SW	Color
22246605023	5/16"	1/8"	26.3	14	 Grey
22246605043	5/16"	1/4"	32.1	17	
22246606043	3/8"	1/4"	34.5	17	



Union Elbow

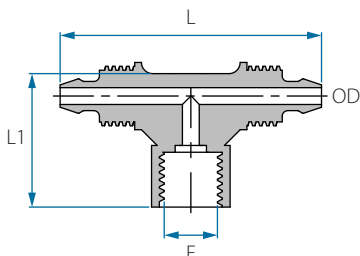
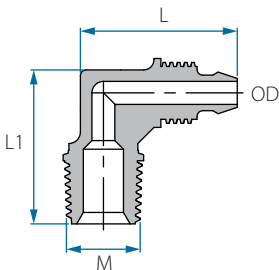
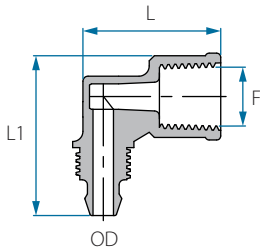
Cat. No.	Tube OD mm	L mm	Color
22046548008	8	27.4	 Blue
22046552008	12	40.5	
22046548002	8	27.4	 Black

Cat. No.	Tube inch	L mm	Color
22046505008	5/16"	27.4	 Navy Blue



Reducing Elbow

Cat. No.	Tube OD mm	Tube OD1 mm	L mm	Color
22045748468	8	6	27.3	 Blue



BSPT Female Elbow

Cat. No.	Tube OD mm	F (BSPT)	L mm	L1 mm	Color
22046046028	6	1/8"	25.1	27.3	Blue
22046046048	6	1/4"	27.0	27.3	
22046048048	8	1/4"	27.0	27.3	
22046046022	6	1/8"	25.1	27.3	Black
22046046042	6	1/4"	27.0	27.3	
22046048042	8	1/4"	27.0	27.3	

BSPT Male Elbow

Cat. No.	Tube OD mm	M (BSPT)	L mm	L1 mm	Color
22046946028	6	1/8"	27.6	22.4	Blue
22046946048	6	1/4"	27.6	26.8	
22046948028	8	1/8"	27.6	26.8	
22046948048	8	1/4"	27.6	26.8	
22046948068	8	3/8"	28.1	29.4	
22046946022	6	1/8"	27.6	22.4	
22046948022	8	1/8"	27.6	26.8	
22046946042	6	1/4"	27.6	26.8	
22046948042	8	1/4"	27.6	26.8	
22046948042	8	3/8"	28.1	29.4	

NPT Male Elbow

Cat. No.	Tube OD inch	M (NPT)	L mm	L1 mm	Color
22246904023	1/4"	1/8"	27.5	24.0	Grey
22246904043	1/4"	1/4"	27.5	29.0	
22246905023	5/16"	1/8"	27.5	24.0	
22246905043	5/16"	1/4"	27.5	28.9	

BSPT Female Branch T

Cat. No.	Tube OD mm	F (BSPT)	L mm	L1 mm	Color
22047346028	6	1/8"	46.6	25.0	Blue
22047348048	8	1/4"	46.8	27.2	

Cat. No.	Tube OD inch	F (BSPT)	L mm	L1 mm	Color
22047305048	5/16"	1/4"	46.8	27.2	Navy Blue

Flow Solutions

Barb Block

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



Temperature

4° - 90° C
(subject to application)



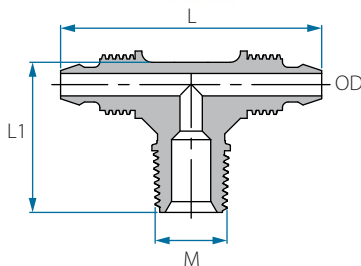
Material

Reinforced
Polypropylene



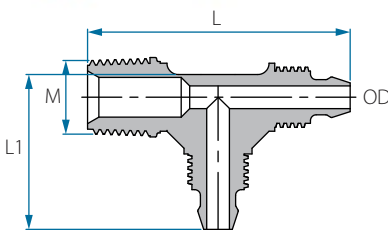
Fitting's dimension

refer to tube ID or OD,
with respect to the
common application



BSPT Male Branch T

Cat. No.	Tube OD mm	M (BSPT)	L mm	L1 mm	Color
22047146028	6	1/8"	46.8	22.6	Blue
22047146048	6	1/4"	46.8	26.8	
22047148028	8	1/8"	46.8	22.6	
22047148048	8	1/4"	46.8	26.8	
22047148068	8	3/8"	47.2	29.4	
22047146042	6	1/4"	46.8	26.8	Black
22047148022	8	1/8"	46.8	22.6	
22047148042	8	1/4"	46.8	26.8	



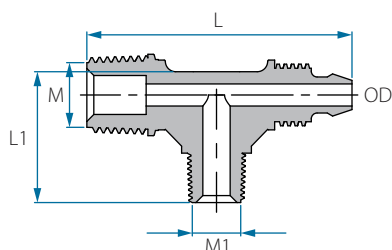
BSPT Male Run T

Cat. No.	Tube OD mm	M (BSPT)	L mm	L1 mm	Color
22047246028	6	1/8"	41.9	27.5	Blue
22047246048	6	1/4"	46.2	27.5	
22047248028	8	1/8"	41.9	27.5	
22047248048	8	1/4"	46.2	27.5	
22047248068	8	3/8"	58.8	43.2	



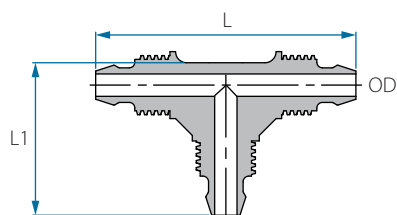
NPT Male Run T

Cat. No.	Tube OD inch	M (NPT)	L mm	L1 mm	Color
22247204023	1/4"	1/8"	43.4	27.4	Grey
22247204043	1/4"	1/4"	48.2	27.4	
22247205023	5/16"	1/8"	43.5	27.4	
22247205043	5/16"	1/4"	48.3	27.4	
22247205063	5/16"	3/8"	56.1	40.2	



BSPT Male T - 2 Threads

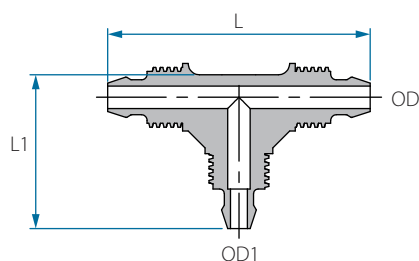
Cat. No.	Tube OD mm	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
22047802048	8	1/4"	1/8"	46.2	22.6	Blue



Union T

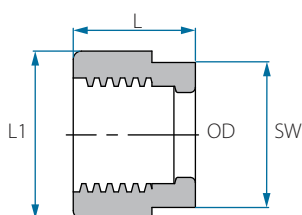
Cat. No.	Tube OD mm	L mm	L1 mm	Color
22046446468	6	46.8	27.5	Blue
22046448488	8	46.8	27.5	

Cat. No.	Tube OD inch	L mm	L1 mm	Color
22046404048	1/4"	46.8	27.5	Navy Blue
22046404042	1/4"	46.8	27.5	Black
22246404043	1/4"	46.7	27.4	Grey
22246405053	5/16"	46.7	27.4	



Reducing T

Cat. No.	Tube OD mm	Tube1 OD mm	L mm	L1 mm	Color
22045846488	6	8	46.8	27.4	Blue
22045848468	8	8	46.8	27.4	



Nut for Union Connector

Cat. No.	Tube OD mm	L mm	SW	Color
32046146001	6	11.9	16	White
32046146008	6	11.9	16	Blue
32046148001	8	11.9	16	White
32046148008	8	11.9	16	Blue

Flow Solutions

Barb Connectors

Technical Info:



Working pressure
Up to 14 BAR
(200 psi) at 20° C



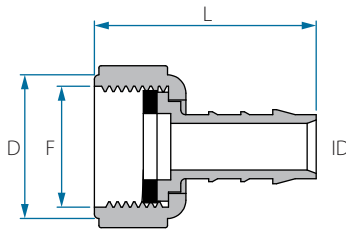
Temperature
4° - 90° C
(subject to application)



Material
Polypropylene

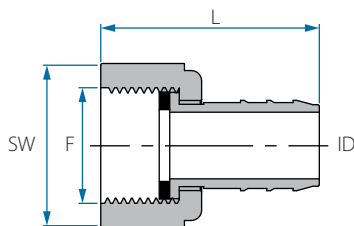


Fitting's dimension
refer to tube ID or OD,
with respect to the
common application



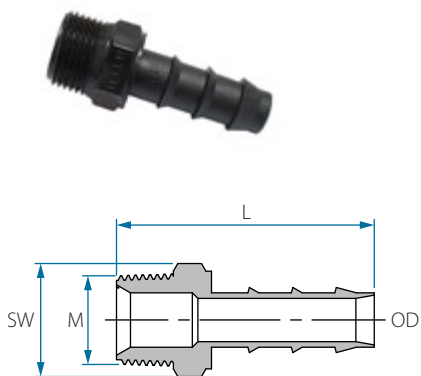
Female Record Hose Connector with Washer

Cat. No.	Tube ID mm	F (BSP)	L mm	D mm	Color
22454746122	6	3/4"	37.9	33.5	Black
22454748122	8	3/4"	41.8	33.5	
22454748162	8	1"	40.8	39.7	
22454750122	10	3/4"	44.2	33.5	
22454752122	12	3/4"	45	33.5	
22454752162	12	1"	43.8	39.7	
22454754122	14	3/4"	46.3	33.5	
22454754162	14	1"	45.2	39.7	
22454756122	16	3/4"	46.7	33.5	
22454756162	16	1"	45.6	39.7	
22454759122	19	3/4"	47.5	33.5	
22454759162	19	1"	46.3	39.7	



Female Record Hose Connector with Washer

Cat. No.	Tube ID mm	F (BSP)	L mm	SW	Color
22454750062	10	3/8"	32.8	17	Black
22454752082	12	1/2"	33.7	22	



Male Straight Hose Connector

Cat. No.	Tube OD mm	M (BSPT)	L mm	SW	Color
12456812022	12	1/8"	44.0	11	Black
12456812042	12	1/4"	47.7	14	
12456812062	12	3/8"	47.3	17	
12456812082	12	1/2"	50.8	22	
12456812122	12	3/4"	51.4	27	
12456816042	16	1/4"	47.6	14	
12456816082	16	1/2"	51.3	22	
12456816122	16	3/4"	52.0	27	
12456820082	20	1/2"	52.2	22	
12456820122	20	3/4"	54.0	27	
12456820162	20	1"	59.0	36	
12456825082	25	1/2"	53.3	22	
12456825122	25	3/4"	54.5	27	
12456825162	25	1"	59.0	36	
*12466817083	17	1/2"	45.2	22	Brown
*12466817123	17	3/4"	46.1	27	

*Sharp barb (material: Acetal)



Union Hose Connector

Cat. No.	Tube OD mm	L mm	Color
12456212002	12	68.6	Black
12456216002	16	71.4	
12456220002	20	76.5	
12456225002	25	76.5	
*12466216002	16	49.0	
*12466216003	16	49.0	Brown
*12466217003	17	58.3	

*Sharp barb (material: Acetal)

Flow Solutions

Barb Connectors

Technical Info:



Working pressure
Up to 14 BAR
(200 psi) at 20° C



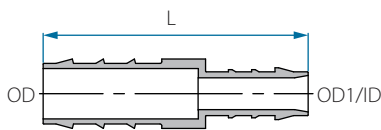
Temperature
4° - 90° C
(subject to application)



Material
Polypropylene



Fitting's dimension
refer to tube ID or OD,
with respect to the
common application



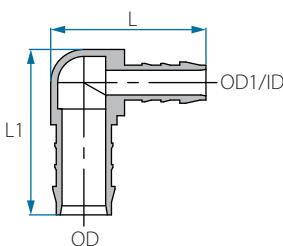
Reducing Hose Connector

Cat. No.	Tube OD mm	Tube OD1 mm	L mm	Color
12455612162	16	12	71.5	■ Black
12455612202	20	12	74.2	
12455616202	20	16	74.2	
12455620252	25	20	76.8	
*12465612172	17	12	64.1	
*12465616172	17	16	66.0	
*12465617202	20	17	68.8	

Cat. No.	Tube OD mm	Tube ID1 mm	L mm	Color
12455648122	12	8	63.8	■ Black
12455652202	20	12	72.6	
12455656202	20	16	75.6	
12455659202	20	19	75.4	
12455659252	25	19	75.3	

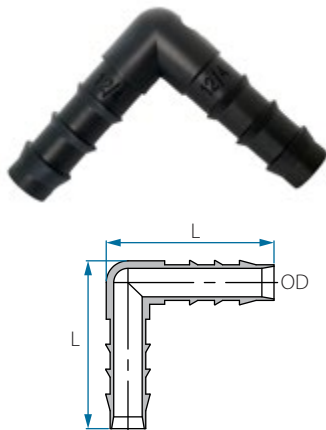
*Sharp barb (material: Acetal)

Reducing Elbow Hose Connector



Cat. No.	Tube OD mm	Tube OD1 mm	L mm	L1 mm	Color
12456612162	16	12	51.2	49.5	■ Black
12456612202	20	12	56.4	55.0	
12456616202	20	16	56.4	54.8	
12456620252	25	20	58.3	56.4	

Cat. No.	Tube OD mm	Tube ID1 mm	L mm	L1 mm	Color
12456652202	20	12	56.2	52.2	■ Black
12456656202	20	16	56.6	55.5	
12456659202	20	19	55.2	56.4	
12456659252	25	19	58.4	57.4	



Union Elbow Hose Connector

Cat. No.	Tube OD mm	L mm	Color
12456512002	12	48.2	■ Black
12456516002	16	49.6	
12456520002	20	56.8	
12456525002	25	58.8	
*12466516003	16	40.5	■ Brown
*12466517003	17	45.1	

*Sharp barb (material: Acetal)



Male Branch T Hose Connector

Cat. No.	Tube OD mm	M (BSPT)	L mm	L1 mm	Color
12457112042	12	1/4"	84.7	34.1	■ Black
12457112062	12	3/8"	84.9	34.4	
12457112082	12	1/2"	84.9	38.4	
12457112122	12	3/4"	84.8	38.9	
12457116062	16	3/8"	86.2	36.3	
12457116082	16	1/2"	86.2	40.0	
12457116122	16	3/4"	86.2	41.0	
12457120082	20	1/2"	93.7	45.5	
12457120122	20	3/4"	93.7	46.6	
12457125082	25	1/2"	93.7	47.6	
12457125122	25	3/4"	93.8	48.6	
*12467117083	17	1/2"	74.3	41.9	■ Brown
*12467117123	17	3/4"	74.3	43.0	

*Sharp barb (material: Acetal)

Flow Solutions

Barb Connectors

Technical Info:



Working pressure
Up to 14 BAR
(200 psi) at 20° C



Temperature
4° - 90° C
(subject to application)

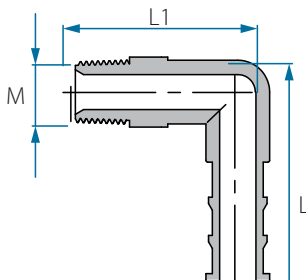


Material
Polypropylene



Fitting's dimension
refer to tube ID or OD,
with respect to the
common application

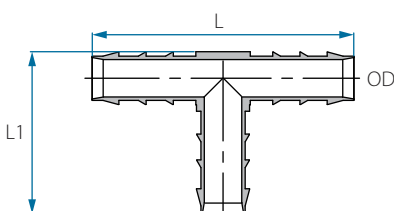
BSPT Male Elbow Hose Connector



Cat. No.	Tube OD mm	M (BSPT)	L mm	L1 mm	Color
12456912042	12	1/4"	48.4	34.0	Black
12456912062	12	3/8"	48.4	34.7	
12456912082	12	1/2"	48.4	38.0	
12456912122	12	3/4"	48.5	39.4	
12456916062	16	3/8"	51.1	36.2	
12456916082	16	1/2"	51.6	39.5	
12456916122	16	3/4"	51.1	41.0	
12456920082	20	1/2"	56.3	45.0	
12456920122	20	3/4"	56.0	46.8	
12456925082	25	1/2"	58.3	47.2	
12456925122	25	3/4"	58.7	48.5	
*12466917083	17	1/2"	45.5	41.9	Brown
*12466917123	17	3/4"	45.7	43.1	

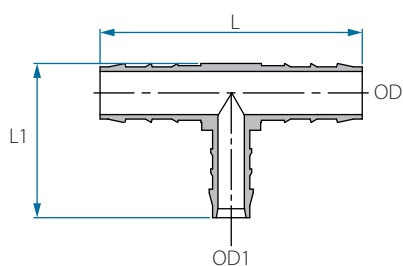
*Sharp barb (material: Acetal)

Union T Hose Connector



Cat. No.	Tube OD mm	L mm	L1 mm	Color
12456412122	12	72.7	44.9	Black
12456416162	16	77.0	47.7	
12456420202	20	84.8	55.0	
12456425252	25	89.0	58.5	
*12466416163	16	76.7	47.7	Brown
*12466417173	17	74.0	45.4	

*Sharp barb (material: Acetal)



Reducing T Hose Connector

Cat. No.	Tube OD1 mm	Tube OD mm	L mm	L1 mm	Color
12457212162	12	16	76.7	48.2	Black
12457216202	16	20	84.8	52.3	
12457220252	20	25	88.7	58.6	
12457246162	6	16	76.8	40.6	
12457252202	12	20	84.5	55.2	
12457256202	16	20	84.9	53.0	
12457259202	19	20	84.7	53.0	

Threaded Connectors

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



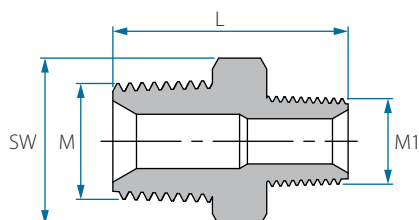
Temperature

(-)20° - 110° C
(subject to application)



Material

Nylon 6-6



BSPT Pipe Reducing Nipple

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	SW	Color
12012304028	1/4"	1/8"	25.2	14	Blue
12012306028	3/8"	1/8"	27.1	17	

NPT Pipe Reducing Nipple

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	SW	Color
12022304023	1/4"	1/8"	28.4	14	Grey
12022306023	3/8"	1/8"	29.6	17	

Flow Solutions

Threaded Connectors

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



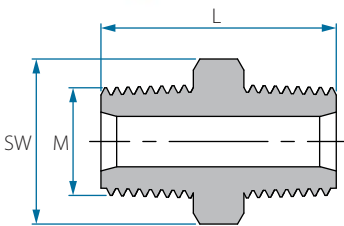
Temperature

(-)20° – 110° C
(subject to application)



Material

Nylon 6-6

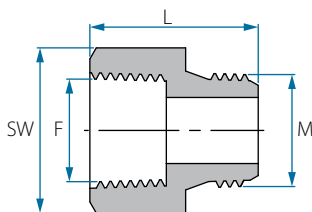


BSPT Pipe Hex Nipple

Cat. No.	M (BSPT)	L mm	SW	Color
12012202028	1/8"	23.2	11	Blue
12012204048	1/4"	27.1	14	
12012206068	3/8"	28.2	17	

NPT Pipe Hex Nipple

Cat. No.	M (BSPT)	L mm	SW	Color
12022202023	1/8"	23.9	11	Grey
12022204043	1/4"	32.7	14	
12022206063	3/8"	34.4	17	

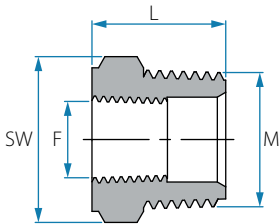


BSPT Pipe Adaptor

Cat. No.	F (BSPT)	M (BSPT)	L mm	SW	Color
12012002028	1/8"	1/8"	23.0	14	Blue
12012002048	1/8"	1/4"	23.0	14	
12012002068	1/8"	3/8"	24.0	14	

NPT Pipe Adaptor

Cat. No.	F (NPT)	M (NPT)	L mm	SW	Color
12022002023	1/8"	1/8"	23.4	14	Grey
12022002043	1/8"	1/4"	23.4	14	
12022002063	1/8"	3/8"	27.4	14	

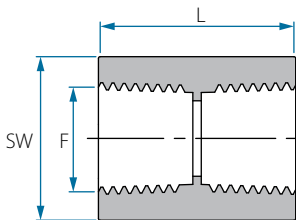


BSPT Pipe Bushing

Cat. No.	M (BSPT)	F (BSPT)	L mm	SW	Color
12011004028	1/4"	1/8"	17.2	14	Blue
12011006028	3/8"	1/8"	17.8	17	
12011006048	3/8"	1/4"	17.8	17	

NPT Pipe Bushing

Cat. No.	M (NPT)	F (NPT)	L mm	SW	Color
12021004023	1/4"	1/8"	21.0	14	Grey
12021006023	3/8"	1/8"	20.8	18	
12021006043	3/8"	1/4"	20.8	19	

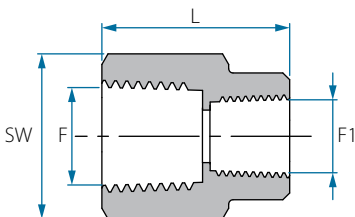


BSPT Female Pipe Coupling

Cat. No.	F (BSPT)	L mm	SW	Color
12010302021	1/8"	20.0	14	White
12010304042	1/4"	23.6	17	Black

NPT Female Pipe Coupling

Cat. No.	F (NPT)	L mm	SW	Color
12020302023	1/8"	19.7	14	Grey
12020304043	1/4"	23.5	17	
12020306063	3/8"	24.6	22	



BSPT Pipe Reducing Coupling

Cat. No.	F (BSPT)	F1 (BSPT)	L mm	SW	Color
12011904028	1/4"	1/8"	22.0	17	Blue
12011906028	3/8"	1/8"	24.5	21	
12011906048	3/8"	1/4"	24.5	21	

NPT Pipe Reducing Coupling

Cat. No.	F (NPT)	F1 (NPT)	L mm	SW	Color
12021904023	1/4"	1/8"	22.0	17	Grey
12021906023	3/8"	1/8"	24.4	22	
12021906043	3/8"	1/4"	24.8	22	

Flow Solutions

Threaded Connectors

Technical Info:



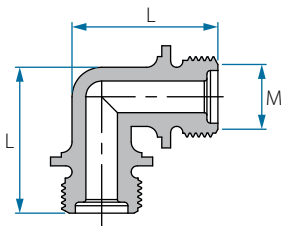
Working pressure
Up to 14 BAR
(200 psi) at 20° C



Temperature
(-)20° – 110° C
(subject to application)



Material
Nylon 6-6

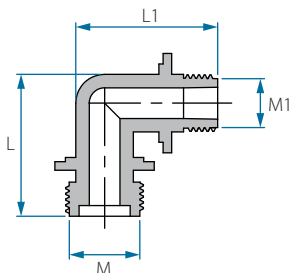


BSPT Threaded Elbow

Cat. No.	M (BSPT)	L mm	Color
12016502008	1/8"	24.4	Blue
12016504008	1/4"	26.4	
12016506008	3/8"	31.8	
12016502002	1/8"	24.4	Black
12016504002	1/4"	26.4	

NPT Threaded Elbow

Cat. No.	M (NPT)	L mm	Color
12026502003	1/8"	23.8	Grey
12026504003	1/4"	28.4	

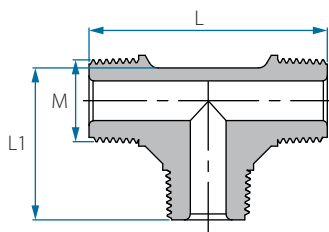
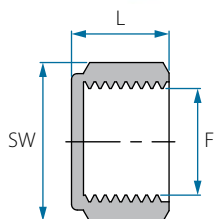
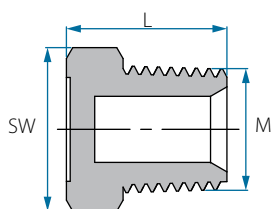


BSPT Reducing Threaded Elbow

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12016904028	1/4"	1/8"	26.4	24.4	Blue
12016906048	3/8"	1/4"	31.8	31.5	

NPT Reducing Threaded Elbow

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12026904023	1/4"	1/8"	28.4	24.0	Grey



BSPT Hex Threaded Plug

Cat. No.	M (BSPT)	L mm	SW	Color
12012102008	1/8"	13.6	11	Blue
12012104008	1/4"	16.6	14	
12012106008	3/8"	16.1	17	

NPT Hex Threaded Plug

Cat. No.	M (NPT)	L mm	SW	Color
12022102003	1/8"	14.7	11	Grey
12022104003	1/4"	19.4	14	
12022106003	3/8"	20.4	17	

BSPT Pipe Cap

Cat. No.	F (BSPT)	L mm	SW	Color
12010802008	1/8"	10.4	13	Blue
12010804008	1/4"	14.2	17	
12010806008	3/8"	14.2	20	

BSPT Pipe T

Cat. No.	M (BSPT)	L mm	L1 mm	Color
12016402008	1/8"	39.8	24.1	Blue
12016404008	1/4"	44.0	26.2	
12016406008	3/8"	50.5	32.0	

NPT Pipe T

Cat. No.	M (NPT)	L mm	L1 mm	Color
12026402003	1/8"	39.3	24.0	Grey
12026404003	1/4"	48.4	28.5	

Flow Solutions

Threaded Connectors

Technical Info:



Working pressure

Up to 14 BAR
(200 psi) at 20° C



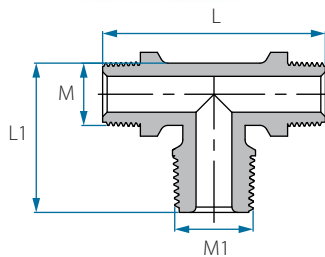
Temperature

(-)20° - 110° C
(subject to application)



Material

Nylon 6-6

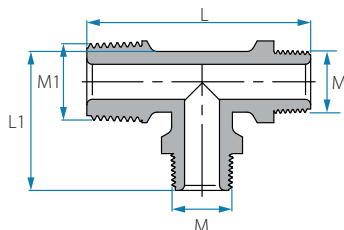


BSPT Pipe Reducing Branch T

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12017102048	1/8"	1/4"	39.7	26.4	Blue
12017104028	1/4"	1/8"	43.3	24.2	
12017104068	1/4"	3/8"	43.3	38.2	
12017106048	3/8"	1/4"	60.2	26.4	

NPT Pipe Reducing Branch T

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12027104023	1/4"	1/8"	48.4	24.0	Grey



BSPT Pipe Reducing Run T

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12017204028	1/4"	1/8"	41.8	26.3	Blue
12017206048	3/8"	1/4"	48.3	30.8	
12017202048	1/8"	1/4"	42.7	25.5	
12017204068	1/4"	3/8"	48.5	31.0	

NPT Pipe Reducing Run T

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
12027204023	1/4"	1/8"	41.8	26.3	Grey

Quick Release

Technical Info:



Working pressure
Up to 14 BAR
(200 psi) at 20° C



Temperature
4° – 90° C
(subject to application)



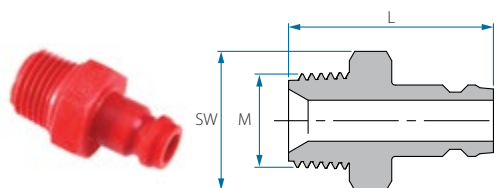
Material

Part	Material
Body & Internal parts	Acetal
Spring + Ball	Stainless Steel

Quick Release Socket

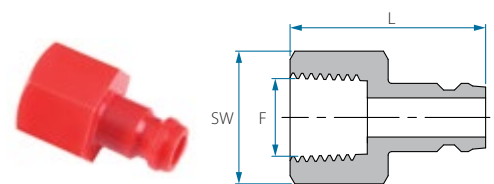


Cat. No.	F (BSPT)	L mm	SW	O-ring	Color
22080004000	1/4"	44.0	19	NBR	Red
22081104002	1/4"	44.0	19	EPDM	
22080004001	1/4"	44.0	19	EPDM	White



Plug - External Thread

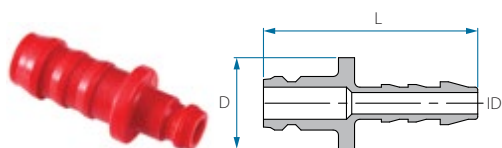
Cat. No.	M (BSPT)	L mm	SW	Color
12081404006	1/4"	31.2	17	Red



Plug - Internal Thread

Cat. No.	F (BSPT)	L mm	SW	Color
12081504006	1/4"	28.6	17	Red

Plug - Hose Connector



Cat. No.	Tube ID mm	L mm	Color
12081645006	5	37.8	Red
12081646006	6	39.8	
12081648006	8	43.2	
12081650006	10	43.2	
12081652006	12	43.2	

Flow Solutions

Pressure Check Socket

Technical Info:



Working pressure
Up to 10 BAR
(145 psi) at 20° C

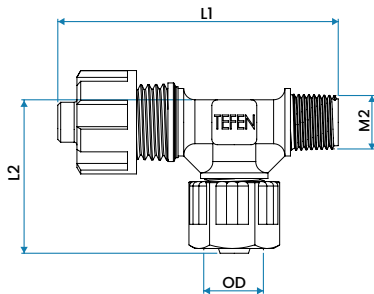


Temperature
4° - 50° C
(subject to application)

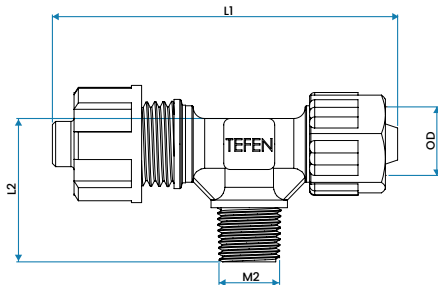


Material

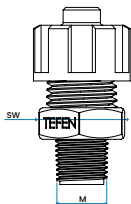
Part	Material
Body	PP
Socket	Nylon 6-6
Rubber	EPDM



Cat. No.	L1 mm	L2 mm	OD mm	M2 (BSPT)
22M47502042	50	27.5	8	1/8"



Cat. No.	L1 mm	L2 mm	OD mm	M2 (BSPT)
22M47802048	54	22.5	8	1/8"



Cat. No.	SW	M (BSPT)
22016204022	15	1/8"
22016204042	15	1/4"
22016204062	22	3/8"

Tubes

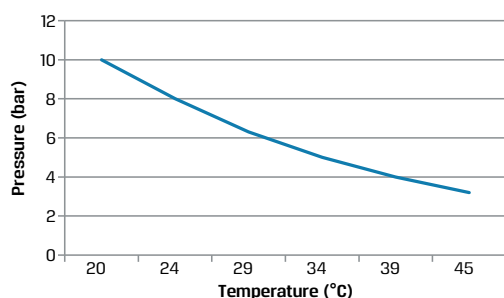


LDPE Control Tube

Cat. No.	Tube OD mm	Tube ID mm	Min Bend Radius	Roll Length	Burst Pressure	Color
1403004601X	6	4	1"	100 m	32 bars	White, Black, Red, Green, Blue, Yellow
1403004620X	6	4	1"	200 m	32 bars	White, Black, Red, Green, Blue, Yellow
1403004650X	6	4	1"	500 m	32 bars	White, Black, Red, Blue
1403004810X	8	5.6	1.5"	100 m	32 bars	White, Black, Red, Green, Blue, Yellow
1403004820X	8	5.6	1.5"	200 m	32 bars	White, Black, Red, Green, Blue, Yellow
1403004850X	8	5.6	1.5"	500 m	32 bars	White, Black, Red, Green, Blue, Yellow

* 2 stripes – default

* 1 or 3 stripes – optional



* If not in stock, min. quantity 5,000m.

LDPE Color coding

LDPE Tubes: X stands for the color of the tube.

1	White
2	Black
6	Red
7	Green
8	Blue
9	Yellow

LDPE Tube



Cat. No.	Tube OD mm	Tube ID mm	Min Bend Radius	Roll Length	Burst Pressure	Color
1403004410X	4	2.2	12	100 m	34 bars	White, Black, Red, Green, Blue, Yellow
1403004610X	6	4	25	100 m	34 bars	White, Black, Red, Green, Blue, Yellow
1403004810X	8	5.3	35	100 m	32 bars	White, Black, Red, Green, Blue, Yellow
1403005010X	10	7	50	100 m	28 bars	White, Black, Red, Green, Blue, Yellow
1403005210X	12	9	75	100 m	32 bars	White, Black, Red, Green, Blue, Yellow

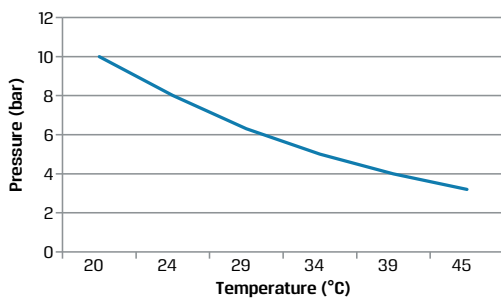
Flow Solutions

Tubes



LDPE Tube

Cat. No.	Tube OD inch	Tube ID inch	Min Bend Radius	Roll Length	Burst Pressure	Color
1403000310X	3/16"	0.117"	1/2"	100 m	34 bars	□ ■
1403000410X	1/4"	0.170"	1"	100 m	32 bars	□ ■ ■ ■ ■
**14030004111	1/4"	0.170"	1"	100 m	32 bars	□
1403000510X	5/16"	0.212"	1 1/2"	100 m	32 bars	□ ■ ■ ■ ■ ■
1403000610X	3/8"	0.256"	2"	100 m	28 bars	□ ■ ■ ■ ■ ■
1403000810X	1/2"	0.38"	2.9"	100 m	28 bars	□ ■ ■ ■ ■ ■



* If not in stock, min. quantity 20,000m.

LDPE Color coding

LDPE Tubes: X stands for the color of the tube.

1	□	Semi Transparent	
2	■	Black	
6	■	Red	
7	■	Green	
8	■	Blue	
9	■	Yellow	
**	□	External white, Internal Black	

Plasticized PVC Tube

Cat. No.	Tube OD mm	Tube ID mm	Roll Length
1407000510X	5	3	100 m
1407000520X	5	3	200 m
1407000550X	5	3	500 m
1407006510X	6.5	4	100 m
1407006520X	6.5	4	200 m
1407000710X	7	4	100 m
1407000720X	7	4	200 m
1407000750X	7	4	500 m
*14070010102	10	7	100 m
1407001210X	12	7	100 m
1407001310X	13	9	100 m
1407001610X	16	11	100 m

* Available only in black



PVC Color coding

LDPE Tubes: X stands for the color of the tube.

2	■	Black
3	■	Brown

Valves

Technical Info:



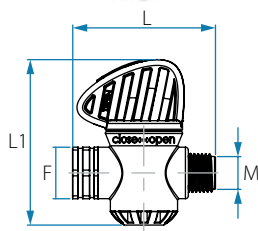
Working pressure

PP - Up to 10 BAR
(145.04 PSI psi) at 20° C
Acetal & PVDF - Up to 16 BAR
(232.06 PSI psi) at 20° C



Temperature

PP - (-)5° - 60° C
(subject to application)
Acetal & PVDF - (-)20° - 90° C
(subject to application)



Dual Tech Valve

Cat. No.	M (BSPT)	F (BSPT)	L mm	L1 mm	Material	Color
23002404042	1/4"	1/4"	51.2	57.6	Acetal	Black
23002504043	1/4"	1/4"	51.7	58.8	PP	Grey
23002904041	1/4"	1/4"	51.8	59.0	PVDF	White

Note: All configurations (8 mm barb / 1/4" thread) available on demand



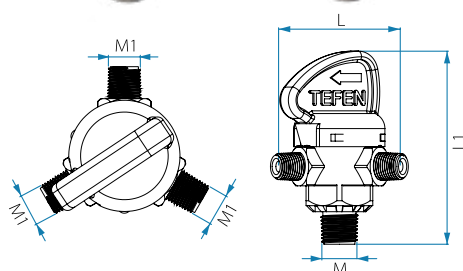
Working pressure

Up to 10 BAR
(145.04 PSI psi) at 20° C



Temperature

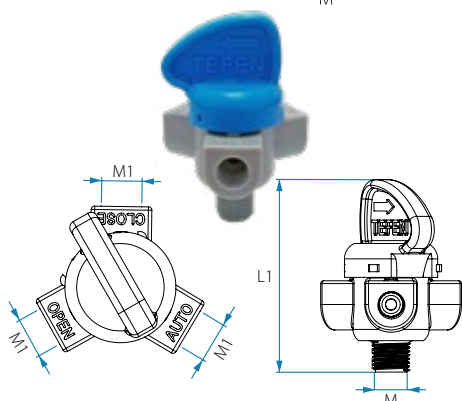
(-)5° - 60° C
(subject to application)



Quatro Tech Valve

Cat. No.	M (BSPT)	M1	L mm	L1 mm	Material	Color
23003403033	1/4"	1/8" BSPT	49.7	68.3	PP	Grey
23003404043	1/4"	1/4" BSPT	52.0	68.3		
23003408083	1/4"	8 mm	55.5	68.3		
**23003402483	1/4"	**	51.7	58.8		

Note: All configurations (8 mm barb / 1/4" / 1/8" thread) available on demand
** 8 mm barb connection



Cat. No.	M	M1 (NPT) Female	L1 mm	Material	Body Material	Color
23003405053	1/4" BSPT	1/8"	68	PP	Nylon 6-6	Grey
23003406053	1/4" NPT	1/8"	68			Dark Grey

Flow Solutions

Valves

Technical Info:



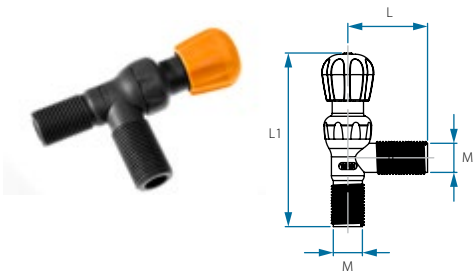
Working pressure
Up to 8 BAR
(116.03 psi) at 20° C



Temperature
(-)4° - 110° C
(subject to application)



Material
Reinforced
Polypropylene



Fine Flow Needle Valve

Cat. No.	M (BSPP)	L mm	L1 mm	Handle Color	Flow Range (l/h)	Seals
22272908011	1/2"	50.0	108-122	Orange	10-100	Viton



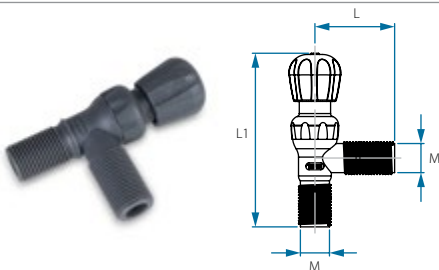
Working pressure
Up to 16 BAR
(232.06 psi) at 20°



Temperature
(-)4° - 90° C
(subject to application)

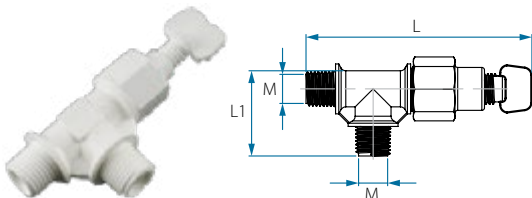


Material
Reinforced
Polypropylene



High Flow Needle Valve

Cat. No.	M (BSPP)	L mm	L1 mm	Handle Color	Flow Range (l/h)	Seals
22272908111	1/2"	50.0	108-122	Grey	100-1000	EPDM



Needle Valve

Cat. No.	M (BSPT)	M1 (BSPT)	L mm	L1 mm	Color
22272904011	1/4"	1/4"	74.4-87.2	31.8	Acetal ☐ White

Technical Info:



Working pressure
Up to 16 BAR
(232.06 psi) at 20°

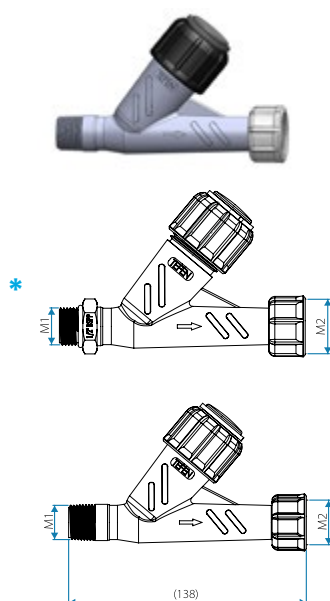


Temperature
0° - 60° C
(subject to application)



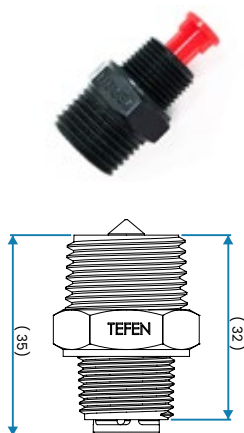
Material
Reinforced
Polypropylene

Line Check Valve



Cat. No.	M1	Male/ Female	M2	Male/ Female	Seals
23441108122	1/2" BSPT	Male	3/4" BSPP	Female	VITON
23444008122	1/2" BSPT	Male	3/4" BSPP	Female	EPDM
23444012122	3/4" BSPT	Female	3/4" BSPP	Female	EPDM
23444016122	1" BSPT	Female	3/4" BSPP	Female	EPDM
23444108122	1/2" BSPT	Male	3/4" BSPP	Female	VITON
23444112122	3/4" BSPT	Female	3/4" BSPP	Female	VITON
23444116122	1" BSPT	Female	3/4" BSPP	Female	VITON

Valve Release/ Drain Valve



Cat. No.	Thread BSPT	Color
22273008002	1/2"	Black
22273108002	1/2"	

Valve release: Valve installed vertically upwards on the highest point.

Functions as Anti-Vacuum (syphon) valve (CAT. No. 22273008002).

Drain Valve with stainless spring. Valve installed at pipe end. For automatic drainage of condensed water in compressed-air lines, after shut-off of compressed air.

Flow Solutions

Spraying & Fogging Nozzles

Acetal

Fan Spray Nozzle



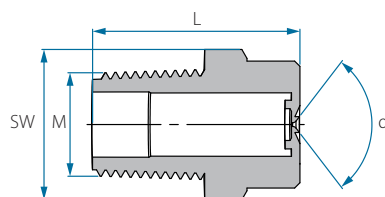
Cat. No.	Marking	α Angle	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
12210165051	65 005	65 °	0.38	0.47	0.53	0.66	0.753	0.847	White
12210165052	65 005	65 °	0.38	0.47	0.53	0.66	0.753	0.847	Black
12210110057	110 005	110 °	0.296	0.362	0.417	0.513	0.585	0.658	Green
12210110209	110 02	110 °	1.20	1.45	1.70	2.00	2.267	2.533	Yellow
12210110255	110 025	110 °	0.623	0.780	0.899	1.106	1.267	1.428	Creame
12210110308	110 03	110 °	1.167	1.432	1.649	2.039	2.330	2.620	Blue
12210110406	110 04	110 °	1.434	1.760	2.032	2.501	2.857	3.212	Red
12210110503	110 05	110 °	1.627	2.027	2.350	2.893	3.315	3.737	Brown



Conical Spray Nozzle

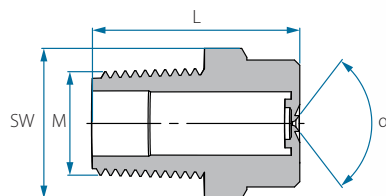
Cat. No.	Marking	α Angle	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
22210016502	1 65	65 °	0.061	0.074	0.084	0.098	0.110	0.123	Black
22210018001	1 80	80 °	0.063	0.078	0.092	0.117	0.135	0.153	White
22210018002	1 80	80 °	0.063	0.078	0.092	0.117	0.135	0.153	Black
22210018011	1 80F	80 °	0.035	0.042	0.049	0.059	0.067	0.075	Off White
22210018012	1 80F	80 °	0.035	0.042	0.049	0.059	0.067	0.075	Black
22210028006	3 80	80 °	0.350	0.430	0.520	0.630	0.723	0.817	Red
22210011055	1 105	105 °	0.058	0.068	0.078	0.098	0.111	0.125	Cream
22210011057	1 105	105 °	0.058	0.068	0.078	0.098	0.111	0.125	Green

Conical Spray Nozzle M 1/8" NPT



Cat. No.	Marking	α Angle	L mm	SW	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
22210218008	21 80	80 °	20	13	0.060	0.070	0.080	0.093	0.104	0.115	Blue
22210078001	07 80	80 °	20.3	13	0.043	0.053	0.060	0.069	0.078	0.086	White
22210078002	07 80	80 °	20.3	13	0.043	0.053	0.060	0.069	0.078	0.086	Black
22210078003	07 80	80 °	20.3	13	0.043	0.053	0.060	0.069	0.078	0.086	Grey
22210078006	07 80F	80 °	19.8	13	0.038	0.047	0.054	0.064	0.073	0.081	Red
22210078011	07 80F	80 °	19.8	13	0.038	0.047	0.054	0.064	0.073	0.081	White
22210078012	07 80F	80 °	19.8	13	0.038	0.047	0.054	0.064	0.073	0.081	Black
22210211055	21 105	105 °	20.5	13	0.063	0.075	0.086	0.108	0.123	0.138	Creme
22210311055	31 105	105 °	20.5	13	0.084	0.096	0.118	0.120	0.128	0.139	Creme
22210221202	22 120	120 °	20.4	13	0.108	0.132	0.152	0.190	0.217	0.245	Black
22210221207	22 120F	120 °	20.4	13	0.083	0.099	0.113	0.142	0.161	0.183	Green
22212201458	220 145	145 °	20.0	13	0.171	0.207	0.240	0.280	0.327	0.368	Blue

Non Drip Conical Spray Nozzle M 1/8" NPT



Cat. No.	Marking	α Angle	L mm	SW	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
22211218008	21 80	80 °	20	13	0.060	0.074	0.092	0.108	0.124	Blue
22211078001	07 80	80 °	20.3	13	0.046	0.053	0.069	0.081	0.092	White
22211078002	07 80	80 °	20.3	13	0.046	0.053	0.069	0.081	0.092	Black
22211078003	07 80	80 °	20.3	13	0.046	0.053	0.069	0.081	0.092	Grey
22211078006	07 80F	80 °	19.8	13	0.040	0.048	0.062	0.073	0.084	Red
22211078011	07 80F	80 °	19.8	13	0.040	0.048	0.062	0.073	0.084	White
22211078012	07 80F	80 °	19.8	13	0.040	0.048	0.062	0.073	0.084	Black
22211211055	21 105	105 °	20.5	13	0.072	0.084	0.106	0.123	0.140	Creme
22211211052	21 105	105 °	20.5	13	0.072	0.084	0.106	0.123	0.140	Black
22211221202	22 120	120 °	20.4	13	0.120	0.142	0.182	0.213	0.244	Black
22211221207	22 120F	120 °	20.4	13	0.099	0.113	0.142	0.161	0.183	Green
22212211458	220 145	145 °	20.0	13	0.168	0.205	0.257	0.313	0.360	Blue

* Opening pressure ~0.5 bar

Flow Solutions

Spraying & Fogging Nozzles

Conical Spray Nozzle 1/8" NPT with Filter



Cat. No.	Marking	Thread Size	α Angle	L mm	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
22219218008	21 80	1/8"	80 °	15	0.060	0.070	0.080	0.093	0.104	0.115	Blue
22219078001	07 80	1/8"	80 °	15	0.041	0.05	0.057	0.066	0.074	0.083	White
22219078002	07 80	1/8"	80 °	15	0.041	0.05	0.057	0.066	0.074	0.083	Black
22219078003	07 80	1/8"	80 °	15	0.041	0.05	0.057	0.066	0.074	0.083	Grey
22219078006	07 80F	1/8"	80 °	15	0.040	0.046	0.053	0.061	0.068	0.075	Red
22219078012	07 80F	1/8"	80 °	15	0.040	0.046	0.053	0.061	0.068	0.075	Black
22219211055	21 105	1/8"	105 °	15	0.060	0.070	0.080	0.093	0.104	0.115	Crema
22219311055	31 105	1/8"	105 °	15	0.080	0.090	0.102	0.110	0.116	0.125	Crema
22219221202	22 120	1/8"	120 °	15	0.103	0.124	0.149	0.171	0.194	0.216	Black

* Filtration 140 Micron

Non Drip Conical Spray Nozzle 1/8" NPT with Short Filter



Cat. No.	Marking	Thread Size	α Angle	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
**22212218038	21 80	1/8"	80 °	0.060	0.070	0.080	0.093	0.104	0.115	Blue
22215218008	21 80	1/8"	80 °	0.060	0.070	0.080	0.093	0.104	0.115	Blue
22211078031	07 80	1/8"	80 °	0.041	0.05	0.057	0.066	0.074	0.083	White
22211078033	07 80	1/8"	80 °	0.041	0.05	0.057	0.066	0.074	0.083	Grey
22215078006	07 80F	1/8"	80 °	0.0103	0.124	0.149	0.171	0.194	0.216	Red
22215078011	07 80F	1/8"	80 °	0.0103	0.124	0.149	0.171	0.194	0.216	White
22215211055	21 105	1/8"	105 °	0.060	0.070	0.080	0.093	0.104	0.115	Crema
22215221202	22 120	1/8"	120 °	0.103	0.124	0.149	0.171	0.194	0.216	Black

* Viton ball

** Filtration 140 Micron

Acetal

Accessories for Nozzles



Cat. No.	Product
22210218008	PVC Protector Cap for Nozzle

The PVC Cap protects the upper nozzle crown from external damage.



Conical Spray Nozzle with Cap Filter

Cat. No.	Marking	Thread Size	α Angle	Lit per Min Bar 2	Lit per Min Bar 3	Lit per Min Bar 4	Lit per Min Bar 6	Lit per Min Bar 8	Lit per Min Bar 10	Color
22212078001	07 80	1/8"	80 °	0.041	0.05	0.057	0.066	0.074	0.083	☐ White
22212078011	07 80F	1/8"	80 °	0.041	0.05	0.057	0.066	0.074	0.083	☐ White
22212211055	21 105	1/8"	105 °	0.060	0.070	0.080	0.093	0.104	0.115	☐ Creme
*22212218008	21 80	1/8"	80 °	0.103	0.124	0.149	0.171	0.194	0.216	☒ Blue
22212221202	22 120	1/8"	120 °	0.103	0.124	0.149	0.171	0.194	0.216	☒ Black

* Non-drip

** Filtration 200 Mesh

Adjustable Nozzle



Cat. No.	Product	Color
22214200001	Adjustable Nozzle	☐ White

Nozzle Filter



Cat. No.	Micron	L mm	Micron	Color
22212791100	140	21.1	120	☐ White
*22212791000	140	21.1	120	☒ Red

Push-in Fitting Adaptor for 1/8" Nozzle



Cat. No.	Stem D	Inner Thread	Color
22211502061	3/8"	1/8" NPT	☐ White
22211502062	3/8"	1/8" NPT	☒ Black

Flow Solutions

Spraying & Fogging Nozzles

Misting Unit Mark 1



Cat. No.	R1	R2	SW1	SW2	SW3	Color
222729T0101	11/16" NC	1/4"	17.5	16	17.5 mm	White
222729T0102	11/16" NC	1/4"	17.5	16	17.5 mm	Black

Polypropylene



Finger Filter for Hydraulic Valves

Cat. No.	F/M BSPT	L mm	SW	Micron	Color
22212002028	1/8"	30.3	14	160	Blue Short
22212791028	1/8"	43.8	14	160	Blue Long

Cat. No.	F NPT	M NPT	L mm	SW	Micron	Color
**22212791002	1/8"	1/4"	48.3	14	160	Black

** Special design for control valves

Acetal



Nut 11/16" for Nozzle

Cat. No.	R1
32272900082	11/16" NC



1/4" Female Straight Nozzle Holder

Cat. No.	R1	M
32210300042	11/16" NC	1/4" NPT



1/4" Male Straight Nozzle Holder

Cat. No.	R1	F
32212200042	11/16" NC	1/4" NPT



1/4" Female 135° Nozzle Holder

Cat. No.	R1	M
32210000040	11/16" NC	1/4" NPT

Air Blow Guns

Spray Gun



Cat. No.	End Connector Inch
22210004002	1/4" female
22210011003	11/16" male

Spray Gun - Iodine



Cat. No.	End Connector Inch
22210004004	1/4" female

Spray Guns Spare Parts

For Product Code	Product Description	S.P. Code	S.P. Description
22210004002	Spray Gun	22210011014	Spray barrel set
		32210000010	Spray gun body - Female 1/4 BSP
		22210011016	110-04 Nozzle elbow kit
		22100000200	Seal and valve set for spray gun kit
22210011003	Spray Gun	22210011014	Spray barrel set
		32210000020	Spray gun body - Male 11/16
		22210011016	110-04 Nozzle elbow kit
		22100000200	Seal and valve set for spray gun kit
22210004004	Spray Gun - Iodine	32210000010	Spray gun body - Female 1/4 BSP
		22210038016	3-80 Nozzle elbow kit
		22100000200	Seal and valve set for spray gun kit



Spray gun body



Spray barrel set



Nozzle elbow kit



EDITION 04 EN 0124



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