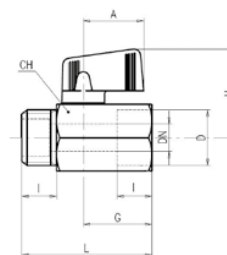




MOULDPRO

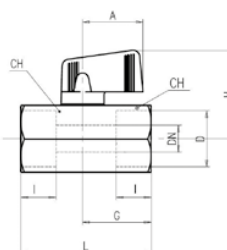
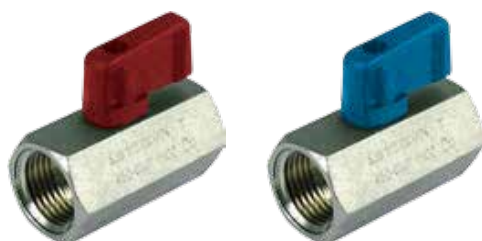
BALL VALVES

MINI BALL VALVE - MALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VMMF02R	VMMF02B	1/8"	5	10	41,5	22	22,5	31	21
VMMF04R	VMMF04B	1/4"	8	11	41,5	22	22,5	31	21
VMMF06R	VMMF06B	3/8"	8	11	41,5	22	22,5	31	21
VMMF08R	VMMF08B	1/2"	10	13	49	22	22,5	31	25

MINI BALL VALVE - FEMALE/FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VM02R	VM02B	1/8"	6	10	41,5	22	22,5	31	21
VM04R	VM04B	1/4"	8	11	41,5	22	22,5	31	21
VM06R	VM06B	3/8"	8	11	41,5	22	22,5	31	21
VM08R	VM08B	1/2"	10	13	49	26	22,5	31	25

Quality:

- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety

Body:

- One piece drawn sand blasted brass body with an extreme compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

Thread:

- ISO 7/1, BS21 Male thread: BSPT – Female thread: BSPP

Stem:

- Blowout-proof brass stem with FPM O-ring

Handle:

- Metal Handle removable with valve in service

Seals:

- Pure PTFE self-lubricating seats with flexible-lip design

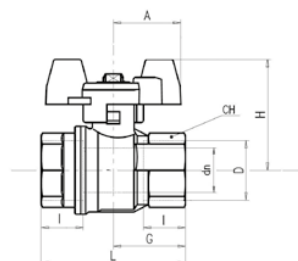
Working Pressure:

- 30 Bar (450 PSI)

Operating Temperature:

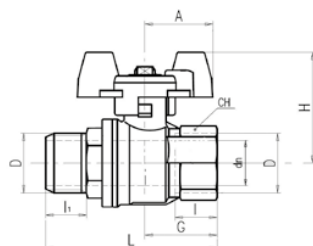
- -20°C (-4°F)
- +90°C (+194°F)

BALL VALVE T-HANDLE - FEMALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VT04R	VT04B	1/4"	8	12	45	22,5	25	39	20
VT06R	VT06B	3/8"	9,5	12	45	22,5	25	39	20
VT08R	VT08B	1/2"	15	15,5	59	29,5	25	43	20
VT12R	VT12B	3/4"	19	17	64	32	30	49	31
VT16R	VT16B	1"	24	21	81	40,5	30	53	40
VT20R	VT20B	1-1/4"	30	23	93	46,5	57	84,5	49
VT24R	VT24B	1-1/2"	38	23	102	51	57	90,5	54

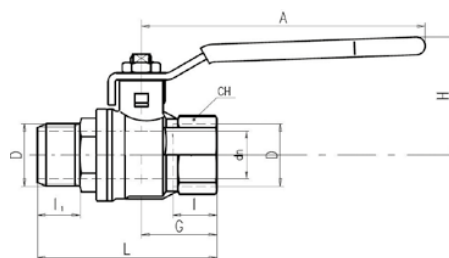
BALL VALVE T-HANDLE - MALE / FEMALE



Part No.	Part No.	D	DN	I	I1	L	G	A	H	CH
VTMF04R	VTMF04B	1/4"	8	12	13,5	56,5	22,5	25	39	20
VTMF06R	VTMF06B	3/8"	9,5	12	13,5	56,5	22,5	25	39	20
VTMF08R	VTMF08B	1/2"	15	15,5	16,5	70	29,5	25	43	25
VTMF12R	VTMF12B	3/4"	19	17	18	76,5	32	30	49	31
VTMF16R	VTMF16B	1"	24	21	22	92,5	40,5	30	53	40
VTMF20R	VTMF20B	1-1/4"	30	23	24	106	46,5	57	84,5	49
VTMF24R	VTMF24B	1-1/2"	38	23	24	113	51	57	90,5	54

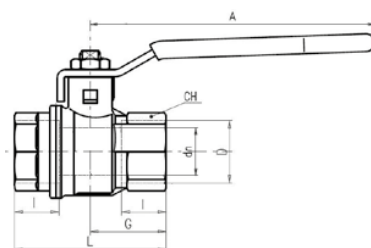
BALL VALVES

BALL VALVE STANDARD HANDLE - MALE / FEMALE



Part No.	Part No.	D	DN	I	I1	L	G	A	H	CH
VLMF04R	VLMF04B	1/4"	8	12	13,5	56,5	22,5	82	38	20
VLMF06R	VLMF06B	3/8"	9,5	12	13,5	56,5	22,5	82	38	20
VLMF08R	VLMF08B	1/2"	15	15,5	16,5	70	29,5	100	43	25
VLMF12R	VLMF12B	3/4"	19	17	18	76,5	32	120	50	31
VLMF16R	VLMF16B	1"	24	21	22	92,5	40,5	120	54	40
VLMF20R	VLMF20B	1-1/4"	30	23	24	106	46,5	158	73	49
VLMF24R	VLMF24B	1-1/2"	38	23	24	113	51	158	79	54

BALL VALVE STANDARD HANDLE - FEMALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VL04R	VL04B	1/4"	8	12	45	22,5	82	38	20
VL06R	VL06B	3/8"	9,5	12	45	22,5	82	38	20
VL08R	VL08B	1/2"	15	15,5	59	29,5	100	43	25
VL12R	VL12B	3/4"	19	17	64	32	120	50	31
VL16R	VL16B	1"	24	21	81	40,5	120	54	40
VL20R	VL20B	1-1/4"	30	23	93	46,5	158	73	49
VL24R	VL24B	1-1/2"	38	23	102	51	158	79	54

Quality:

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No maintenance ever required
- Chrome plated brass ball for longer life
- Travel stops on body to avoid stresses at stem

Body:

- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Flow:

- Full port to DIN 3357 for maximum flow

Thread:

- EN 10226-1, ISO 228 Male thread: BSPT – Female thread: BSPP

Stem:

- Two FPM O-rings at the stem for maximum safety

Seals:

- Pure PTFE self-lubricating seats with flexible-lip design

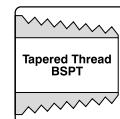
Working Pressure:

- 40 Bar (600 PSI)
- Non-shock cold working pressure

Operating Temperature:

- -40°C (-40°F)
- +170°C (+350°F)

STRAIGHT MALE

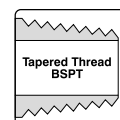


Part No.	Part No.	Tube ØD	Thread
MSM081/8R	MSM081/8B	8	1/8"
MSM081/4R	MSM081/4B	8	1/4"
MSM083/8R	MSM083/8B	8	3/8"
MSM101/4R	MSM101/4B	10	1/4"
MSM103/8R	MSM103/8B	10	3/8"
MSM123/8R	MSM123/8B	12	3/8"
MSM121/2R	MSM121/2B	12	1/2"

Description

Material: Brass, Nickel Plated. Seal: EPDM

90° SWIVEL MALE



Part No.	Part No.	Tube ØD	Thread
MSW081/8R	MSW081/8B	8	1/8"
MSW081/4R	MSW081/4B	8	1/4"
MSW083/8R	MSW083/8B	8	3/8"
MSW101/4R	MSW101/4B	10	1/4"
MSW103/8R	MSW103/8B	10	3/8"
MSW123/8R	MSW123/8B	12	3/8"
MSW121/2R	MSW121/2B	12	1/2"

Description

Material: Brass, Nickel Plated. Seal: EPDM

STRAIGHT FEMALE



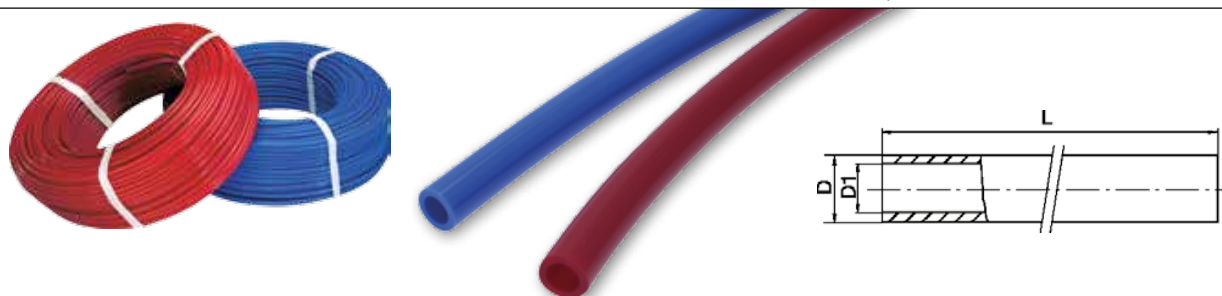
Part No.	Part No.	Tube ØD	Thread
MSF081/8R	MSF081/8B	8	1/8"
MSF081/4R	MSF081/4B	8	1/4"
MSF083/8R	MSF083/8B	8	3/8"
MSF101/4R	MSF101/4B	10	1/4"
MSF103/8R	MSF103/8B	10	3/8"
MSF123/8R	MSF123/8B	12	3/8"
MSF121/2R	MSF121/2B	12	1/2"

Description

Material: Brass, Nickel Plated. Seal: EPDM

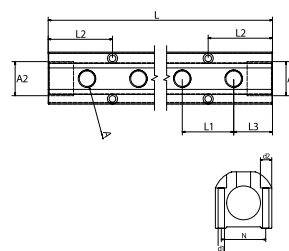
PUSH-IN TUBE

POLYURETHANE TUBING FOR PUSH-IN FITTINGS - TEMPERATURE MAX 80°C / PEAK 100°C



Part No.	Description	D (mm)	D1 (mm)	Burst Pressure*		Bend Radius (mm)*	Coil Length L	Colour
				psi	bar			
PPU8B	Pneumatic Polyurethane Tubing 8mm x 5.5mm	8	5.5	741	51	31	30m	Blue
PPU8R	Pneumatic Polyurethane Tubing 8mm x 5.5mm	8	5.5	741	51	31	30m	Red
PPU10B	Pneumatic Polyurethane Tubing 10mm x 7mm	10	7	706	49	40	30m	Blue
PPU10R	Pneumatic Polyurethane Tubing 10mm x 7mm	10	7	706	49	40	30m	Red
PPU12B	Pneumatic Polyurethane Tubing 12mm x 8mm	12	8	800	55	43	30m	Blue
PPU12R	Pneumatic Polyurethane Tubing 12mm x 8mm	12	8	800	55	43	30m	Red

3/4" INLINE ANODIZED MANIFOLD

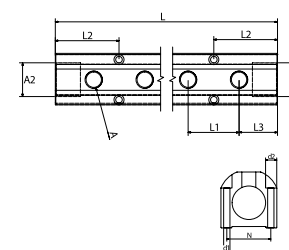


Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM3-4-1/4-R	Red	4	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	190,5
IM3-4-1/4-B	Blue	4	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	190,5
IM3-6-1/4-R	Red	6	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	266,7
IM3-6-1/4-B	Blue	6	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	266,7
IM3-8-1/4-R	Red	8	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	342,9
IM3-8-1/4-B	Blue	8	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	342,9

Description

Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unrestricted Flow Rates Possible
Standard or Custom Designs Available

1" INLINE ANODIZED MANIFOLD

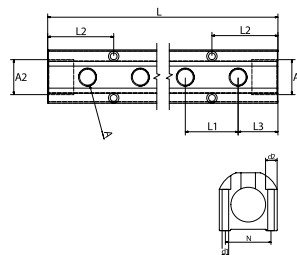


Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM4-4-1/4-R	Red	4	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	190,5
IM4-4-1/4-B	Blue	4	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	190,5
IM4-4-3/8-R	Red	4	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	228,6
IM4-4-3/8-B	Blue	4	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	228,6
IM4-6-1/4-R	Red	6	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	266,7
IM4-6-1/4-B	Blue	6	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	266,7
IM4-6-3/8-R	Red	6	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	330,2
IM4-6-3/8-B	Blue	6	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	330,2
IM4-8-1/4-R	Red	8	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	342,9
IM4-8-1/4-B	Blue	8	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	342,9
IM4-8-3/8-R	Red	8	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	431,8
IM4-8-3/8-B	Blue	8	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	431,8
IM4-10-3/8-R	Red	10	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	533,4
IM4-10-3/8-B	Blue	10	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	533,4
IM4-12-3/8-R	Red	12	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	635
IM4-12-3/8-B	Blue	12	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	635

Description

Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unrestricted Flow Rates Possible
Standard or Custom Designs Available

1-1/2" INLINE ANODIZED MANIFOLD

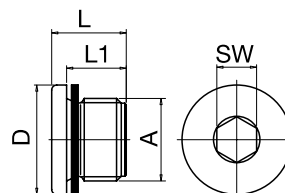


Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM6-4-1/2-R	Red	4	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	254
IM6-4-1/2-B	Blue	4	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	254
IM6-6-1/2-R	Red	6	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	355,6
IM6-6-1/2-B	Blue	6	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	355,6
IM6-8-1/2-R	Red	8	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	457,2
IM6-8-1/2-B	Blue	8	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	457,2
IM6-10-1/2-R	Red	10	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	558,8
IM6-10-1/2-B	Blue	10	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	558,8
IM6-12-1/2-R	Red	12	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	660,4
IM6-12-1/2-B	Blue	12	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	660,4

Description

Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unrestricted Flow Rates Possible
Standard or Custom Designs Available

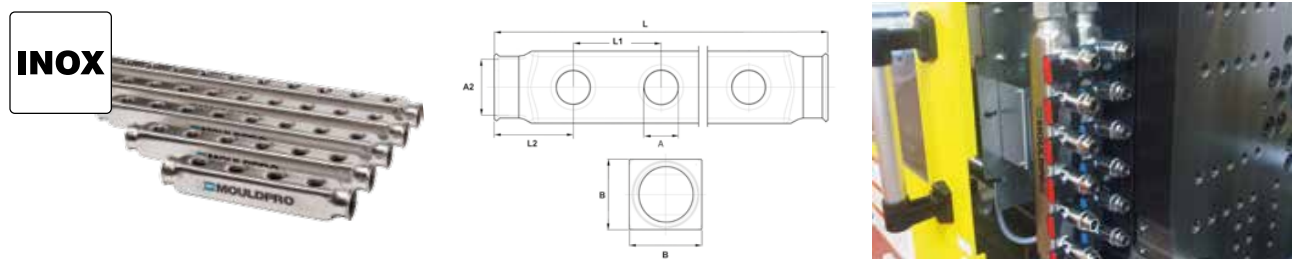
BLANKING PLUGS



Part No.	A	D	L	L1	SW	VPE
DR3/4	G3/4"	32	21	16	12	1
DR1	G1"	40	22,5	16	17	1
DR1-1/2*	G1-1/2"	55	22,5	16	24	1

* With O-Ring

1" INLINE STAINLESS STEEL MANIFOLD



Part No.	Ports	A (BSPP)	A2 (BSPP)	L	L1	L2	B
-1/2	4	1/2"	1"	240	50	45	40
SSIM4-6-1/2	6	1/2"	1"	340	50	45	40
SSIM4-8-1/2	8	1/2"	1"	440	50	45	40
SSIM4-10-1/2	10	1/2"	1"	540	50	45	40
SSIM4-12-1/2	12	1/2"	1"	640	50	45	40
SSIM5-4-1/2	4	1/2"	1-1/4"	240	50	45	50
SSIM5-6-1/2	6	1/2"	1-1/4"	340	50	45	50
SSIM5-8-1/2	8	1/2"	1-1/4"	440	50	45	50
SSIM5-10-1/2	10	1/2"	1-1/4"	540	50	45	50
SSIM5-12-1/2	12	1/2"	1-1/4"	640	50	45	50

Description

Stainless steel AISI 304
Perfect for aggressive water and oil.

BRACKETS FOR STAINLESS STEEL MANIFOLDS



Part No.	Type
SS-Bracket	1"
SS-5-Bracket	1-1/4"

Description

Electro plated steel - bracket for installation of 2 manifolds.
2 Brackets needed for correct installation.

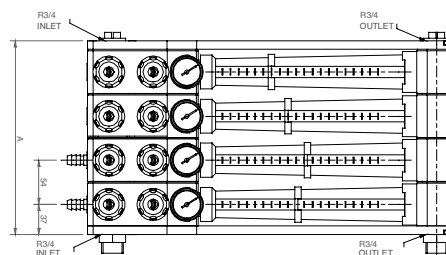
BLANKING PLUG



Part No.	Thread	Seal
SSEC1	1"	Viton
SSEC1-1/4	1-1/4"	Viton

FLOW REGULATOR/INDICATOR

WATERFLOW REGULATOR



Part No.	Main Connections inlet / outlet	Max.Temp.	Zones	Zone Connection	Dimension A
MPR02R	R 3/4"	95°C	2	R 3/8"	126
MPR04R	R 3/4"	95°C	4	R 3/8"	231
MPR06R	R 3/4"	95°C	6	R 3/8"	339
MPR08R	R 3/4"	95°C	8	R 3/8"	444
MPR10R	R 3/4"	95°C	10	R 3/8"	552
MPR12R	R 3/4"	95°C	12	R 3/8"	659

Description

Water flow regulators are ideal for regulating the flow rate of water passing through them as well as the water outlet temperature. The high quality construction and design make the unit one of the most competitive.

Technical characteristics

- The tube is made of Polyamide (standard).
- Zone Flow Capacity 0-18 L/M
- Interior and exterior bodies are made of PA 6 with 30% fibre glass.
- Brass regulating taps.
- Thermometers (standard).
- Stainless steel interior tie-rods.
- Vitritic rubber o-rings (hardness: 70 SHA).
- Brass inlet and outlet valves inserted in the body.

FLOW INDICATOR



Part No.	Flow Rate H ₂ O LPM		Length	Ø mm	Thread	AF	Max Pressure (bar)
	Min	Max					
CFV1BN	1	10	59	25	1/4"	19	10
CFV2BN	2	20	71	30	3/8"	24	8
CFV3BN	3	30	71	30	1/2"	24	8
CFV4BN	4	40	106	47	3/4"	40	5
CFV5BN	6	60	106	47	1"	40	5

Use:

The CFV impeller flow indicators are generally used to monitor the correct flowing and circulation of a fluid into a pipeline. They are ideal for cooling and heating circuits, water treatment, and plastics processing equipment.

Note:

Flow rates refer to a vertical mounting with fluid inlet upwards.

Specifications:

Body	Nickel-plated brass
Impeller	Red Hostaform
Glass	Pirex
Seals	NBR
Max temperature	90°C

VORTEX DIGITAL SINGLE ZONE MONITOR



Part No.	Flow capacity	Connection	Voltage
SZ-120	1-20 l/m	G 1/2	18..30DC
SZ-240	2-40 l/m	G 1/2	18..30DC
SZ-5100	5-100 l/m	G 3/4	18..30DC

Description

- Integrated Temperature measurement
- Flow measurement
- Limit setting of flow and Temperature
- Alarm indicator
- Dual alarm or data output (temp/flow)
- Rotatable display

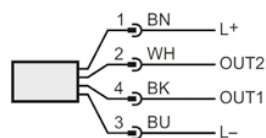
Material: Stainless steel body and connection
 Pressure: 12 bar
 Temperature: from -10 to +90 C°
 Protection class: IP 65/IP67.

POWER SUPPLY



Part No.	Voltage input	Connection	Voltage output
SZP-100	120..230 V.	DIN Rail	24DC

POWER AND DATA CABLE M12



Part No.	Length	Connection	Voltage range
SZC-3000	3 m.	M12	24DC



Mouldflo Flow Monitoring System

For the first time Mouldflo offers Injection Moulders an affordable solution for monitoring flow and temperature circuits within an injection mould.

The Mouldflo system will digitally monitor all of the flow circuits within the mould recording data, both flow and temperature, for every circuit.

Often overlooked by many moulders, the efficiency of the mould cooling circuit(s) are critical to a stable process and the manufacturer of high quality, dimensionally stable parts. Mouldflo can protect your mould and improve quality by quickly identifying cooling problems and alerting the user to various common cooling circuit problems, such as:

- No water flow from the mould heater
- Blocked waterways
- Scale / rust build up
- Incorrect piping



Request the latest mouldflo brochure
or visit www.mouldflo.com and....

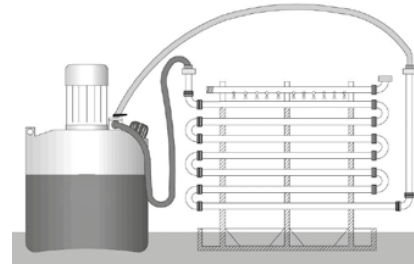
change the way you work!

Do you really know how much
water is going around your mould?

Mouldflo



DE-SCALING PUMP - WITH FLOW REVERSER



Part No.	Tank Capacity	Flow Rate	Reverse system	Fittings	HP
DP15M	15 l.	48 l/min.	Manual	1/2"	0,2
DP15A	15 l.	40 l/min	Automatic	1/2"	0,17
DP30M	24 l.	90 l/min.	Manual	1/2"	0,45
DP30A	24 l.	91 l/min.	Automatic	1/2"	0,45

Description

Use for clearing blocked or badly corroded heating and cooling circuits on Injection Moulding Machines and Moulds. Even when not blocked a relatively thin layer of scale or corrosion can act as an insulator and have a huge impact on the efficiency of your circuit. Simply fill up the pump with the descaling fluid, connect the pump to the inlet and outlet of the circuit and turn on the pump. Regular reversal of flow direction, either manual or automatic, speeds up operation and assists in dislodging any solid matter present in pipework and cooling circuits.

By using the pump together with the recommended range of descaling fluids to remove both rust and limescale deposits. The descaling fluid contains a colour change indicator to monitor performance; the translucent tank means that the user can see when the red colour runs clear and is no longer effective. Use the neutralising fluid to create a pH neutral fluid which can be easily disposed of.

Easy, safe and professional maintenance of mould cooling circuits and temperature controllers

- Compact and portable
- Safe and easy to use
- Flow reversing system
- Full range of cleaning products available
- 4 models available to suit your application

Mould Cooling circuits which are corroded or partly blocked by scale cause:

- Reduced flow
- Reduced efficiency
- Longer cycle times
- Temperature problems
- Increased maintenance
- Faulty parts



DE-SCALING

DE-SCALING SOLUTION



Part No.		kg.	Weight	Copper	Steel	Stainless Steel	Aluminium	Brass	Tin	Light alloys	Galvanised Iron
DESCALING CHEMICALS											
RL10	Remover Liquid	10	10 kg.	•	•			(•)			
RL10P	Remover Plus Liquid	10	10 kg.	•	•			(•)			
RP10	Remover Plus Powder	10	10 kg.			•	•	•	•	•	
NEUTRALIZING CHEMICALS											
NP10	Neutralizer	10	10 kg.	•	•	•	•	•	•	•	•

Remover Liquid

Concentrated descaling liquid with powerful reaction for systems and heat exchangers.

Remover Plus Liquid

Concentrated descaling liquid (non-fuming), with degreasing action, for systems and heat exchangers.

Remover Plus Powder

Concentrated descaling powder (non-corrosive, non-fuming) for systems and heat exchangers.

Neutralizer

Neutralizing powder to remove residual acidity after descaling systems and heat exchangers. Also suitable for neutralizing descaling chemicals after use, thus making it possible to drain them.

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PRESSURE TEST UNIT



Part No.	Pressure (BAR)	Weight
MP-60	0-60	5,5 kg.

Description

Pressure test unit - for easy leakage test of Mould circuits
Supplied with connecting hose and water tank

PTFE TAPE



Part No.	Size	Length
TEF	12 mm.	12 m

Description

Excellent for sealing all thread sizes
Temperature range: up to 230°C

THREAD LOCKER



Part No.	Size	Max Thread	Temperature range
77	50 ml.	< M80	-50°C - +150°C

Description

Anaerobic Thread locker for permanent sealing of metal threaded fittings
Single component, liquid adhesive that cures hard in the absence of air or oxygen
Maximum Thread Size: M80
Disassembly strength: High
Temperature range: -50°C - +150°C
Breakaway torque: 32 Nm
Pack sizes: 50ml

SEALANT AND ADHESIVE

PIPE SEALANT



Part No.	Size	Max Thread	Temperature range
542	50 ml.	< 3/4"	-50°C - +150°C

Description

Anaerobic thread sealant for fine metal threaded fittings, especially hydraulic pipes
 Single component, liquid adhesive that cures hard in the absence of air or oxygen
 Maximum pipe size: 3/4"
 Disassembly strength: Medium
 Temperature range: -50°C - +150°C
 Breakaway torque: 15 Nm
 Pack sizes: 50ml

PIPE SEALANT

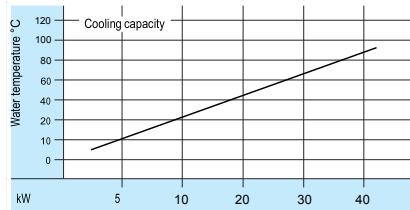
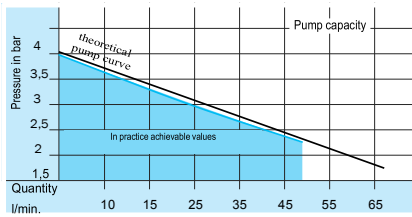


Part No.	Size	Max Thread	Temperature range
577	50 ml.	< 3"	-50°C - +150°C
577-2	250 ml.	< 3"	-50°C - +150°C

Description

General purpose anaerobic thread sealant for all coarse metal threads
 Single component, liquid adhesive that cures hard in the absence of air or oxygen
 Maximum Pipe Size: 3"
 Disassembly strength: Medium
 Temperature range: -50°C - +150°C
 Breakaway torque: 11 Nm
 Pack sizes: 50ml, 250ml

TEMPERATURE CONTROL TCU90



2 YEARS WARRANTY



Features

- PID temperature control in cooling and heating process
- Hose rupture and leakage monitor
- Sensor failure monitor
- Regular or Vacuum (reverse) operation feature
- Low Energy Pump
- User friendly digital control display
- Automatic refill
- 60 l/m Flow capacity
- Up to 90°C
- 400 Volt
- Double electrovalves one for cooling one for filling
- Entire Cooling Sytem, heaters and thermocouples in stainless steel

Options

- Flow rate control
- Serial interface 4-20mA, RS 485, 0-10 volt
- External sensor
- PT100 process sensor
- Return temperature sensor
- Acoustic alarm
- Machine Interface



Solid construction, all circuit parts made of stainless steel. All electronic components, heaters, thermocouples and sensors are high-end quality.

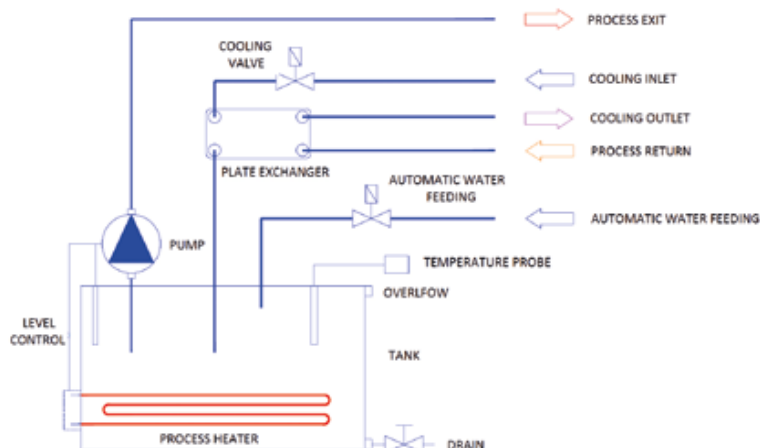
The pump is a low energy with high performance skills.

24 months warranty.

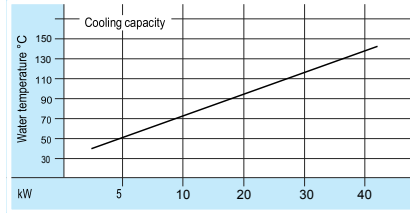
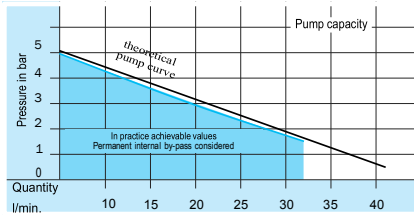
Technical data

Temperature range water	up to 90°C / 194°F
Temperature control	Electronic PID temperature Control
Heating Capacity	9 kW
Cooling Capacity	40 kW at 90°C
Pump Capacity	motor 0,5 kW max. 3,8 bar / max. 60 l/min
Pump Material	AISI 304 Stainless steel
Filling	Automatic
Tank Volume	12 l.
Noise Level	< 70 dB A
Voltage	400 V.
Connections	3/4" BSP thread
Dimensions (LxWxH)	575 x 295 x 495 mm, incl. wheels
Weight	40 kg

Principle of operation



TEMPERATURE CONTROL TCU150



2 YEARS WARRANTY



Features

- PID temperature control in cooling and heating process
- Magnetic Pump
- Hose rupture and leakage monitor
- Sensor failure monitor
- User friendly digital control display
- Automatic refill
- 40 l/m Flow capacity
- Up to 150°C
- 400 Volt
- Double electrovalves one for cooling one for filling
- Entire Cooling Sytem, heaters and thermocouples in stainless steel

Optional

- Flow rate control
- External sensor
- PT100 process sensor
- Return temperature sensor
- Machine Interface
- Serial interface 4-20mA, RS 485, 0-10 volt
- Acoustic Alarm



Solid construction, all circuit parts made of stainless steel. All electronic components, heaters, thermocouples and sensors are high-end quality.

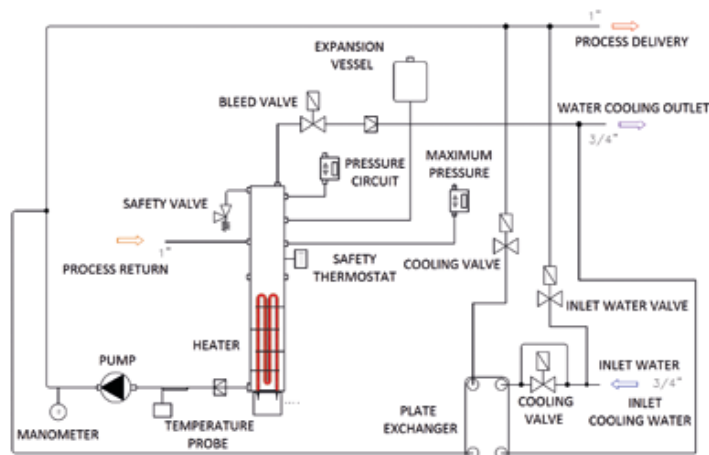
The pump is a low energy with high performance skills.

24 months warranty.

Technical data

Temperature range water	up to 150°C / 302°F
Temperature control	Electronic PID temperature Control
Heating Capacity	9 kW
Cooling Capacity	40 kW
Pump Capacity	motor 0,5 kW max. 5 bar / max. 40 l/min
Pump Material	AISI 304 Stainless steel
Filling	Automatic
Noise Level	<70 dB A
Voltage	400 V.
Connections	3/4" BSP thread
Dimensions (LxWxH)	575 x 295 x 585 mm, incl. wheels
Weight	47 kg

Principle of operation



STAINLESS STEEL IN-LINE FILTER - MPF-80-200

Part No.
MPF-80-200

MPF-80-200
with maintenance
indicator



Dirt particles in coolants often result in blockages in small cooling channels and can render mould inserts useless. This maintenance friendly Mouldpro stainless steel in-line filter MPF-80-200 offers superior low cost protection against foreign body particles, in particular for conformal cooling channel of injection moulding tools.

The filter can be flanged to the mould or operated in conjunction with temperature control units.

Sure protection of your temperature cooling channels

High filter performance is based on a starshaped folded stainless steel sieve that prevents the ingress of all particles of $>200\text{ }\mu\text{m}$ into the cooling channel.

Versatile use

The filter is suitable for use with water- or oil-based coolants with a flow volume of up to 80 l/min and offers versatile application possibilities within a temperature range of -10 to 260°C.

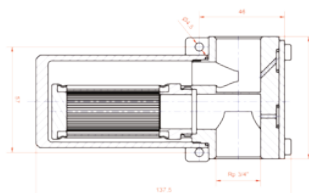
Simple maintenance

A maintenance friendly concept allow easy removal of the filter insert, which can be cleaned with compressed air, in an ultrasound bath or by means of a high pressure cleaner. The filter housing remains in the system circuit.

The MPF-80-200 can be supplied with an optional maintenance indicator.

All advantages at a glance:

- Low cost with high filter performance
- Simple maintenance and cleaning
- Suitable for high flow volumes
- Large temperature range



Part No. MPF-F
Filter insert



Part No. MPF-M
Maintenance indicator

Part No. MPF-0
O-Ring

Technical data

Material	Stainless steel 1.4305
Connection thread	G 3/4"
Coolant	Water / oil
Pressure range	PN 16
Operating temperature	-10°C / 260°C
Seal	PTFE
Dimensions	76 x 56 x 131 mm (L x W x H)
Weight	approx. 1.3 kg

Design according to:

Pressure Equipment Directive 97/23/EU, pressure equipment type acc. to Art.

1: container, fluid acc. to Art. 9: group

2: others acc. to Art. 3, para.

3: good engineering practice, suitable for max. 1,000 full cycle motions.

Filter insert

Material	Stainless steel 1.4305, adhesive-free, rolled
Mesh width	200 μm
Filter surface	approx. 150 cm^2
Connection	Thread connector
Dimensions	\varnothing 32 X 76 mm

Maintenance indicator (optional)

Principle	Differential pressure measurement
Seal	PTFE O-ring
Dimensions	45 x 30 x 66 mm (L x W x H)

O-Ring

Material	PTFE
Dimensions	Ø 45 X 1.5 mm