

MASTERFLEX 900 Injection Hose

The Product as Sales unit



MASTERFLEX 900 Injection Hose

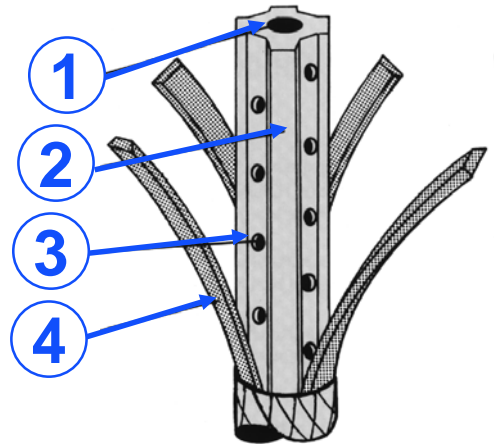
The Product Content of Sales unit

	Content	
Masterflex 900 Type 1 Injection Hose blue	200	m
PVC hose Type 1 transparent	20	m
PVC hose Type 1 green	20	m
Shrink-on sleeve Type 1 black	5	m
Connecting nozzles Type 1 white	2.5	m
Closure plugs Type 1 yellow	50	pcs.
Rapid glue 20 g	1	pc.
Insulating tape yellow 10m	1	pc.
Clips Type 1 white	1000	pcs.
Partlist and instruction manual	1	pc.

	Content	
Masterflex 900 Type 1 Injection Hose blue	25	m
PVC hose Type 1 transparent	4	m
PVC hose Type 1 green	4	m
Shrink-on sleeve Type 1 black	0.7	m
Connecting nozzles Type 1 white	0.4	m
Closure plugs Type 1 yellow	10	pcs.
Rapid glue 20g	1	pc.
Insulating tape yellow 10m	1	pc.
Clips Type 1 white	150	pc.
Partlist and instruction manual	1	pc.

MASTERFLEX 900 Injection Hose

The Product Design



The MF 900 principle

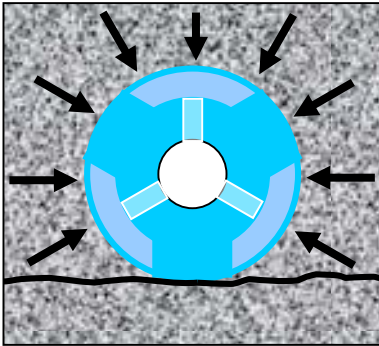
- 1 = Injection channel
- 2 = Solid core
- 3 = lateral openings
- 4 = Neoprene strip



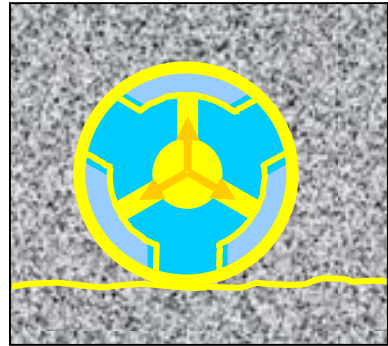
MASTERFLEX 900 Injection Hose

The Product Function

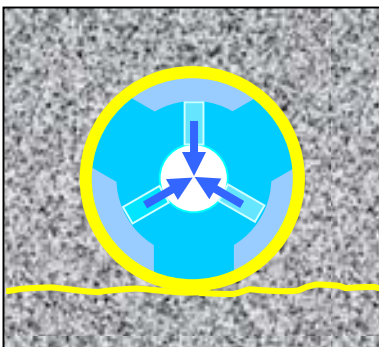
Concrete



Injection



Vacuum



Testing



[4 Valve Animation.mpg](#)

MASTERFLEX 900 Injection Hose

The Product Function

Phase 1. Neoprene valve keeps hose tight against concrete pressure

Phase 2. Due to injection pressure the Neoprene valve is compressed. Resin is released into the joint

Phase 3. Resin is removed by means of vacuum and inner hose cleaned with water being sucked through by under pressure

Phase 4. Joint is tested against leakage by means of pressurising the joint

Phase 5. In case of leakage the joint can be re-injected at any time

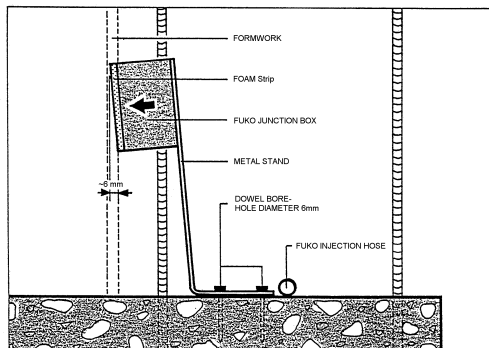
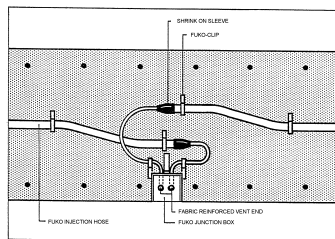
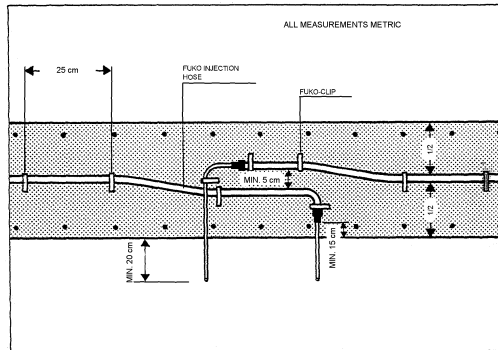
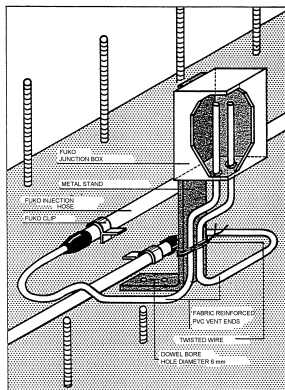
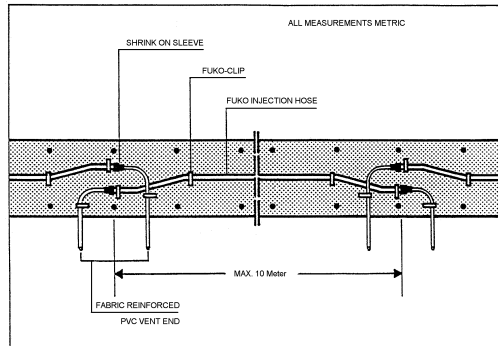
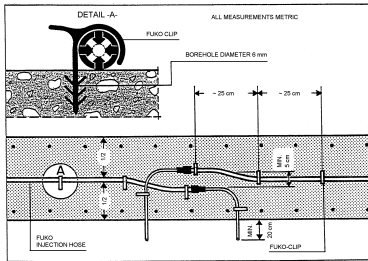
MASTERFLEX 900 Injection Hose

The Product Assembly

[MBT Fabrication](#)
[Instruction MF 900](#)
[special.ppt](#)

MASTERFLEX 900 Injection Hose

Installation drawings



MASTERFLEX 900 Injection Hose

The Product Application



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The Product Injection



[MBT Injection.ppt](#)

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The Product Spec's

[Tender specs MF 900.pdf](#)

[MF 900 Type 1.doc](#)

[PVC Hose.doc](#)

[Junction Box.doc](#)

MASTERFLEX 900 Injection Hose

The Product specifying

Describe main features such as:

- re-injectable hose for construction joints
- Secure one-way valve system
- Highly flexible hose
- Injection with Micro-cement or Acrylate
- Joint testing after injection
- High safety in installation
- Easy and fast to install
- Easy quality control after installation
- no kickers required
- access to joint is given at any time for future re-injection

MASTERFLEX 900 Injection Hose

Recent References

- | | |
|---------------------------------|--------|
| -Boston Artery Tunnel Project | USA |
| -Burj al Arab | UAE |
| -Ute Dique Monaco | Monaco |
| -Changi Water reclamation plant | SG |
| -Kloten Airport Dock Midfield | CH |
| -Xiaolangdi Dam | CN |
| -Dubai Airport Terminal 2 | UAE |

MASTERFLEX 900 Injection Hose

Main Applications

- Drinking water storage facilities
- below ground storage
- Waste water treatment plants
- Banks, museums and archives
- Production facilities
- storage tanks, digesters
- swimming pools
- in-situ tunnel, below ground stations
- housing

Specially where high safety standards are required.

MASTERFLEX 900 Injection Hose

Competition

The number of competitors has increased in the past 18 years. Most of them selling single injection hoses for the use with Polyurethane. Some provide special hoses for Portland cement, combined products as injectable swelling gaskets, special U-shaped profiles. The number of designs is “endless”. A very few of them claim to have re-injectable hoses but only 2 of them function in this way under best circumstances. The major problem in re-injection is the kind of resin or grout to be used. Only water based products allow re-injection. None of the other Acrylates fulfil the requirements to be used in hot and cold climates. Therefore most competitors sell products only, knowing their short comings with the resin and their lack of technical expertise. Because of this, contractors look at product prices instead of cost for solutions.

[Technic Injection hoses.doc](#)

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Case History

[Joint Testing Systems for Immersed Structures.ppt](#)