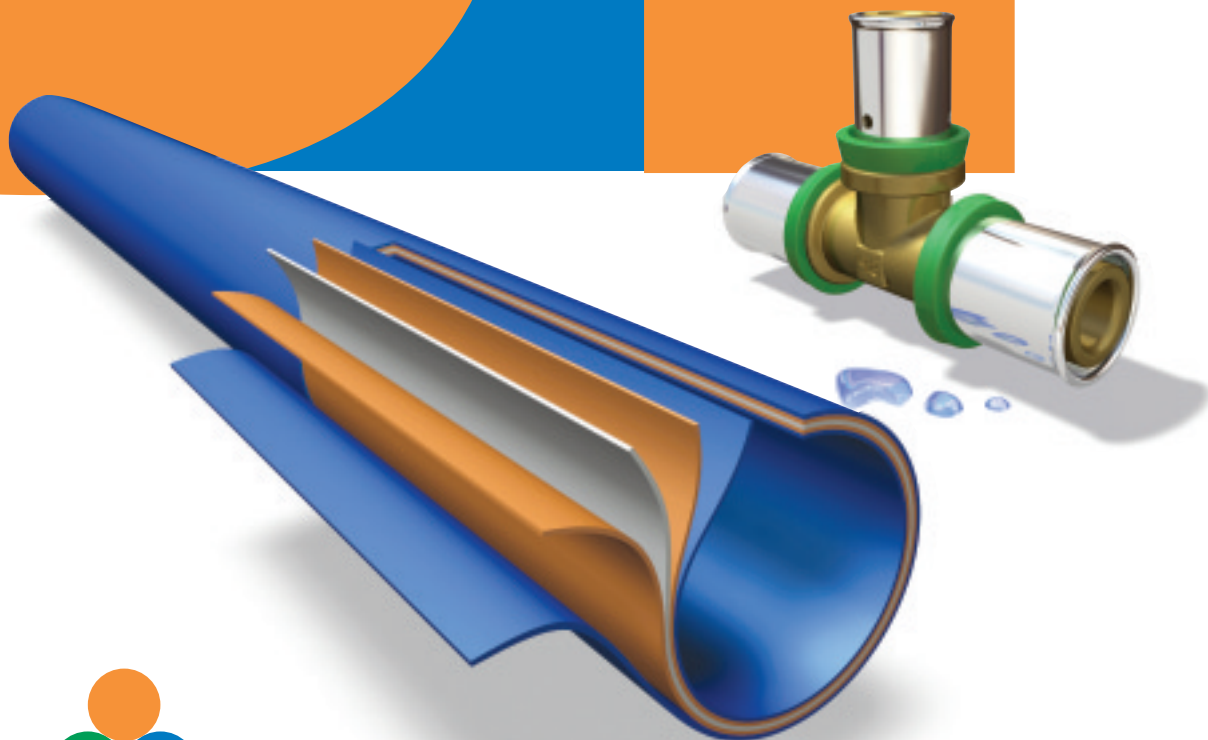


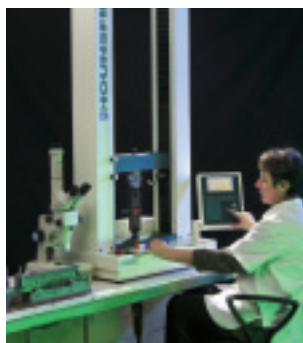
# CATALOGUE



**SP Metzerplas**

**SP A revolution in home plumbing. SP pipes are constructed of 5 layers: 2 layers of cross-linked polyethylene, surrounding a central layer of aluminum, bonded together by 2 adhesive layers. The result is a strong, lightweight pipe, which is flexible, sturdy, economical and easy to install.**

# A B O U T U S



## Company Profile

Metzerplas is privately owned by Kibbutz Metzer, located in Israel's central district. Metzerplas was established in 1970, and since has accumulated profound expertise and know-how in development, design, production, marketing and installation of agricultural and landscaping products and turn-key irrigation projects. Metzerplas products and systems are real-life tested and proven in the Kibbutz fields, enabling complete examination of its innovative, leading state of the art products, based on its experience and attending to regions with scarce and low quality water resources, benefiting its customers with its industrious solutions.



## Major Activities

Design, development and production of more advanced irrigation products: a large variety of dripper lateral lines — to fit specific requirements, new and innovative fixtures enabling a myriad of dedicated applications.

Versed in both production and actual application of these products, we are attentive and sensitive to the requirements and requests of the dripper lines manufacturers of the technology.



## Main Products

High speed production lines for both cylindrical and flat emitters; compensated and non-compensated drippers; irrigation systems and drip laterals; PE pipes and fittings for agriculture, electricity, & industry; SP piping designed for hot and cold water at high temperatures and pressures.

## International Standards

Metzerplas was granted and maintains the ISO 9002 certificate since 1997. Metzerplas production and service operate under strict ISO 9001:2000 Standards.

## Subsidiaries

**Metzerplas Irrigation** - 100% ownership - Markets in Argentina.

**Agrometzer** - 34% partnership - Produces and markets in Spain.

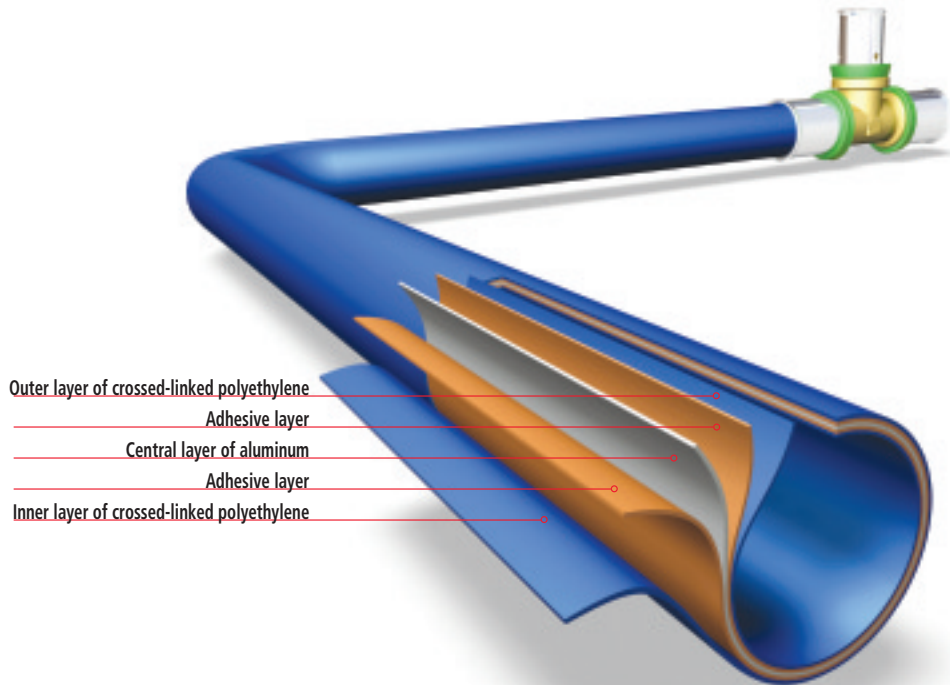
**Dura-Line (Israel)** - 6.66% partnership - Produces and markets telecommunication tubes and conduits in Israel.

**Metzerplas Australia Pty. Ltd.** - 100% ownership - Markets in Australia

**4** Press Fittings System   **5** The Ideal Combination   **8** Press Tools   **10** Tools

**12** Threaded Fitting System   **14** Special Fittings   **24** SP Around the world

# A R E V O L U T I O N



















## The Ideal Combination

The advantage of SP is a successful combination of metal and plastic, together in one pipe. It is completely corrosion and scale resistant, both internally and externally. SP is manufactured in outer diameters of: 14, 16, 18, 20, 25, 32 mm. in standard roll lengths of 50 and 100 meters. SP is color-coded: orange, blue, white and black for different uses and easy identification. It can be used in a wide variety of installations and can be simply and easily bent by hand. SP pipes are acoustically and thermally insulated, can be located quickly by metal detectors and can be easily attached to any existing system.

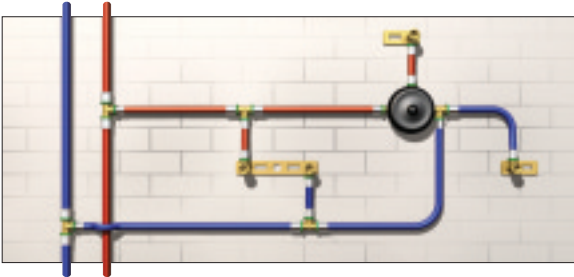


# CERTIFICATION

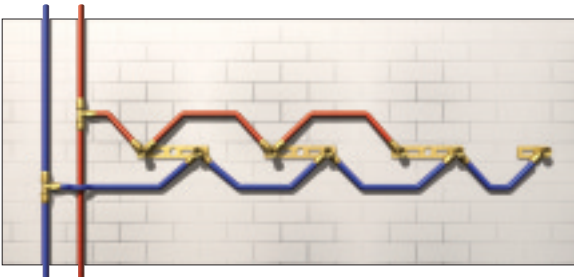
**SP pipe is approved by standards institutes around the world**

	<b>Institute</b>	<b>Certificate No.</b>	<b>Product</b>	<b>Standard</b>	<b>Country</b>
	<b>IAPMO</b>	4755	Pex-Al-Pex Composite pressure pipe system	ASTM F1281	<b>USA</b>
	<b>EME</b>	A-927/1993	Pex-Al-Pex Drinking water approval	A-2359/2004	<b>Hungary</b>
	<b>TIN</b>	AT/2002-02-1258	Pex-Al-Pex	Dz U Nr 107, z 1998-679 - Dz U Nr. B z 2002r	<b>Poland</b>
	<b>AENOR</b>	001/002865	Pex-Al-Pex Pipes for hot and cold water pressure system	UNE 53961:2002 EX	<b>Spain</b>
	<b>POCCHH</b>	77.06.49311.31377.10.2	Pex-Al-Pex Pipe drinking water approval	MDU OPDK	<b>Russia</b>
	<b>POCC</b>	184875	Pex-Al-Pex Composite pipe system	TY 2248-005-47621749-99	<b>Russia</b>
	<b>SKZ</b>	A254	Pex-Al-Pex Pipes	DIN EN 45001	<b>Germany</b>
	<b>KIWA</b>	K40651/01	Pex-Al-Pex Pipes for transport of gas	BRL-K 536 - E	<b>Holland</b>
	<b>KIWA</b>	K40663/01	Pex-Al-Pex System for transport of gas	BRL-K 536 - E	<b>Holland</b>
	<b>KIWA</b>	K20921/01	Pex-Al-Pex System for hot and cold drinking water	BRL-K 536 - E	<b>Holland</b>
	<b>KIWA</b>	K20920/01	Pex-Al-Pex Pipes for hot and cold drinking water	BRL-K 536 - E	<b>Holland</b>
	<b>KIWA</b>	K20924/01	Metal fittings for SP system	BRL-K 536	<b>Holland</b>
	<b>KOMO</b>	K20922/01	Pex-Al-Pex Pipes drinking water approval	BRL 5603 - BRL 5806	<b>Holland</b>
	<b>SII</b>	26869	Compression fittings with compression sleeve	2242-2	<b>Israel</b>
	<b>SII</b>	7600	Pex-Al-Pex Pipes for hot and cold water supply	2242-1	<b>Israel</b>
	<b>SII</b>	29570	ISO 9001:2000		<b>Israel</b>
	<b>IQNet</b>	9782	ISO 9001		
	<b>CISQ</b>	890	ISO 9001:2000		<b>Italy</b>

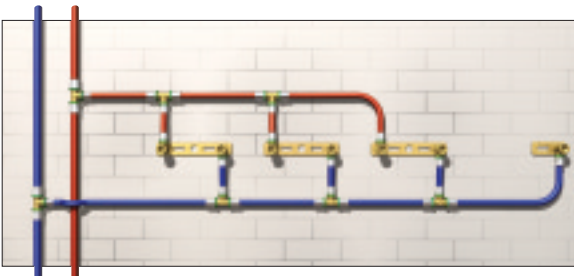
# I N S T A L L A T I O N



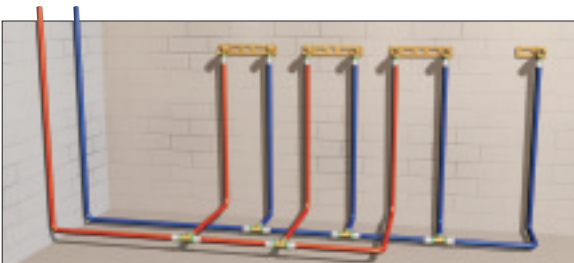
The complementary fittings for **SP** Piping suit every method of installation, and facilitate connection to every standard screw threading. The fittings enable you to carry out a quick and easy installation, while ensuring that your pipes are hermetically sealed. In order to secure the manufacturers' product guarantee, only those fittings approved by the Metzterplas factory should be used during the installation process.



**Chain method**

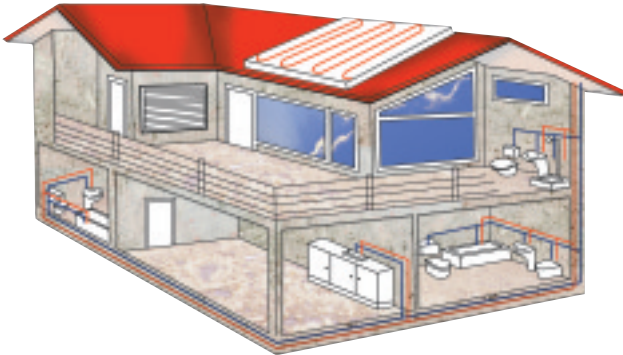


**Threaded fittings installed using the classic method**



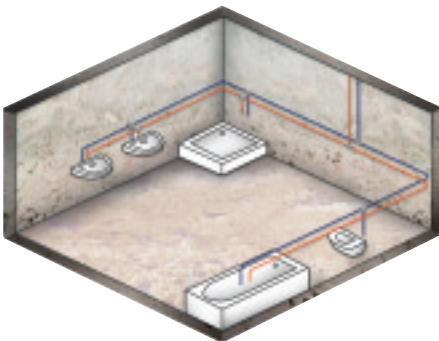
**Press fittings installed using the classic method**

# INSTALLATION



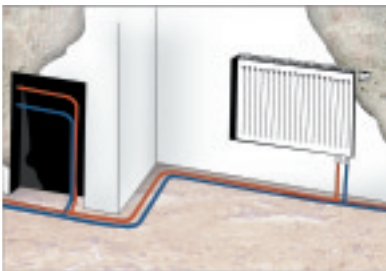
**SP** piping systems are suited to serve many purposes in the industrial field, domestic heating and the supply of hot and cold water for home uses.

The **SP** system for home water supply is very reliable and installation is fast and simple. The installation is done in straight lines for quick and easy maintenance and a minimal quantity of piping is required. Together resulting in an economical and energy saving system.



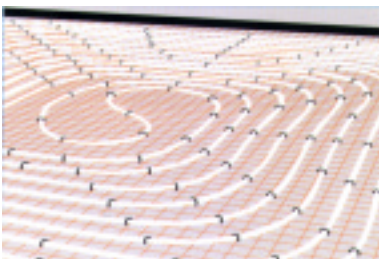
## Home water supply

Bathroom and shower. This simply designed system provides for the effective installation of a large number of plumbing fixtures. Requires minimal piping in walls.



## Heating Radiators

Domestic heating with radiators. Operated from a closed-circuit hot water source.



## Under Floor

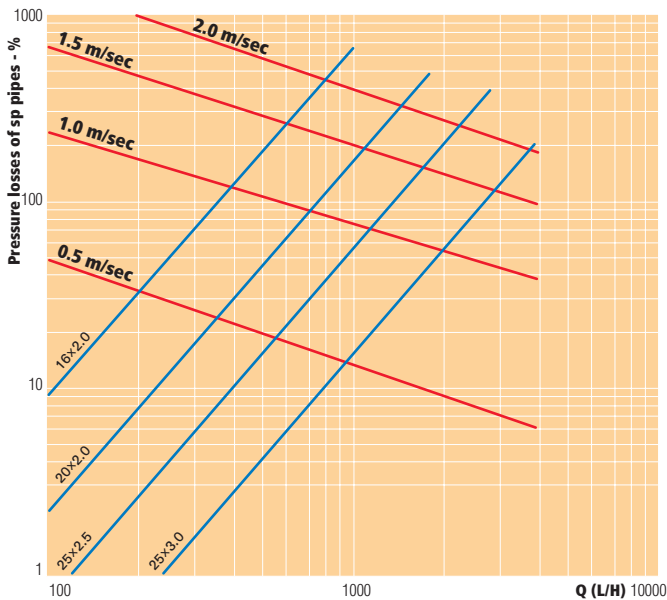
Domestic floor heating network of SP pipes operated from a closed-circuit hot water source.

# TECHNICAL DATA

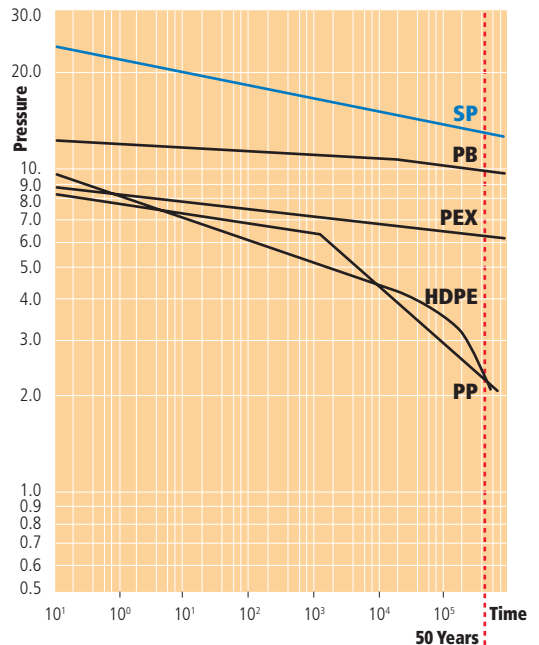
## Unitary pressure losses of SP pipes At a water temperature of 40°C

Flow Rates L/H	16x2		20x2		25x2.5		32x3	
	Speed m/sec	J 0/00	Speed m/sec	J 0/00	Speed m/sec	J 0/00	Speed m/sec	J 0/00
100	0.25	11						
200	0.49	36						
300	0.74	73						
400	0.98	121						
500	1.23	179	0.69	46				
600	1.47	247	0.83	63				
700	1.72	324	0.97	82	0.62	28		
800	1.97	410	1.11	104	0.71	36		
900	2.21	504	1.24	128	0.80	44	0.47	13
1000	2.46	607	1.38	154	0.88	53	0.52	15
1100			1.52	183	0.97	63	0.58	18
1200			1.66	213	1.06	74	0.63	21
1300			1.80	254	1.15	85	0.68	24
1400			1.94	279	1.24	96	0.73	28
1500			2.07	315	1.33	109	0.79	31
1600			2.21	353	1.42	122	0.84	35
1700			2.35	393	1.50	136	0.89	39
1800			2.49	434	1.59	150	0.94	43
1900			2.63	478	1.68	165	0.99	47
2000					1.77	181	1.05	52
2100					1.86	197	1.10	57
2200					1.95	214	1.15	61
2300					2.03	231	1.20	66
2400					2.12	249	1.26	72
2500					2.21	268	1.31	77
2600					2.30	287	1.36	82
2700					2.39	306	1.41	88
2800					2.48	327	1.47	94
2900					2.50	348	1.52	100
3000					2.65	370	1.57	106

## Pressure Losses of 100 m - SP pipes



## Long-term Durability

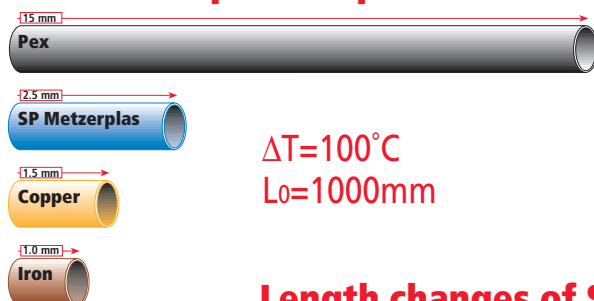


# TECHNICAL DATA

## Unitary pressure losses of SP pipes

Nominal diameter	mm	<b>16</b>	<b>20</b>	<b>25</b>	<b>32</b>				
	Inch	1/2"	3/4"	1"	1 1/4"				
Size	mm	16x2	20x2	25x2.5	32x3				
Pipe weight	kg/m	0.110	0.145	0.210	0.340				
Roll Lengths	m	200	100	100	50				
		100	50	50					
Bar length	m	–	–	5	5				
Water capacity	l/m	0.113	0.201	0.314	0.530				
max working Temperature	C°	95	95	95	95				
max working Pressure temp. 95°C	bar	10	10	10	8				
Internal roughness	mm	0.0004	0.0004	0.0004	0.0004				
Oxygen diffusion	Mg/l	0.000	0.000	0.000	0.000				
Radius of bend	mm	80	100	125	160				
Thermal expansion capacity	0.25 mm/meter to 10°C								
Heat capacity	0.45 W/m*k								
Pipe expansion	Dt*k	20	30	60	70	80	90	100	
in various temp.	mm/M	0.50	0.75	1.50	1.75	2.00	2.25	2.50	

## Thermal Expansion Properties Different Pipes Comparison



## Length changes of SP pipes at various temperatures

		Temperature in SP pipeline (C°)								
		20	30	40	50	60	70	80	90	
Length of pipe (m)	0.10	0.05	0.07	0.10	0.12	0.15	0.17	0.20	0.22	
	0.40	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	
	0.80	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	
	1.00	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	
	3.00	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	
	5.00	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	

# TECHNICAL DATA

## Nut Tightening Forces






Fitting size	Tightening force (N/m)
16 x 1/2"	40
16 x 3/4"	50
18 x 1/2"	50
18 x 3/4"	60
20 x 3/4"	80
25 x 3/4"	100
25 x 1"	100

Table of nut tightening forces during assembly of inserted thread connector fittings system

## Pressure Table

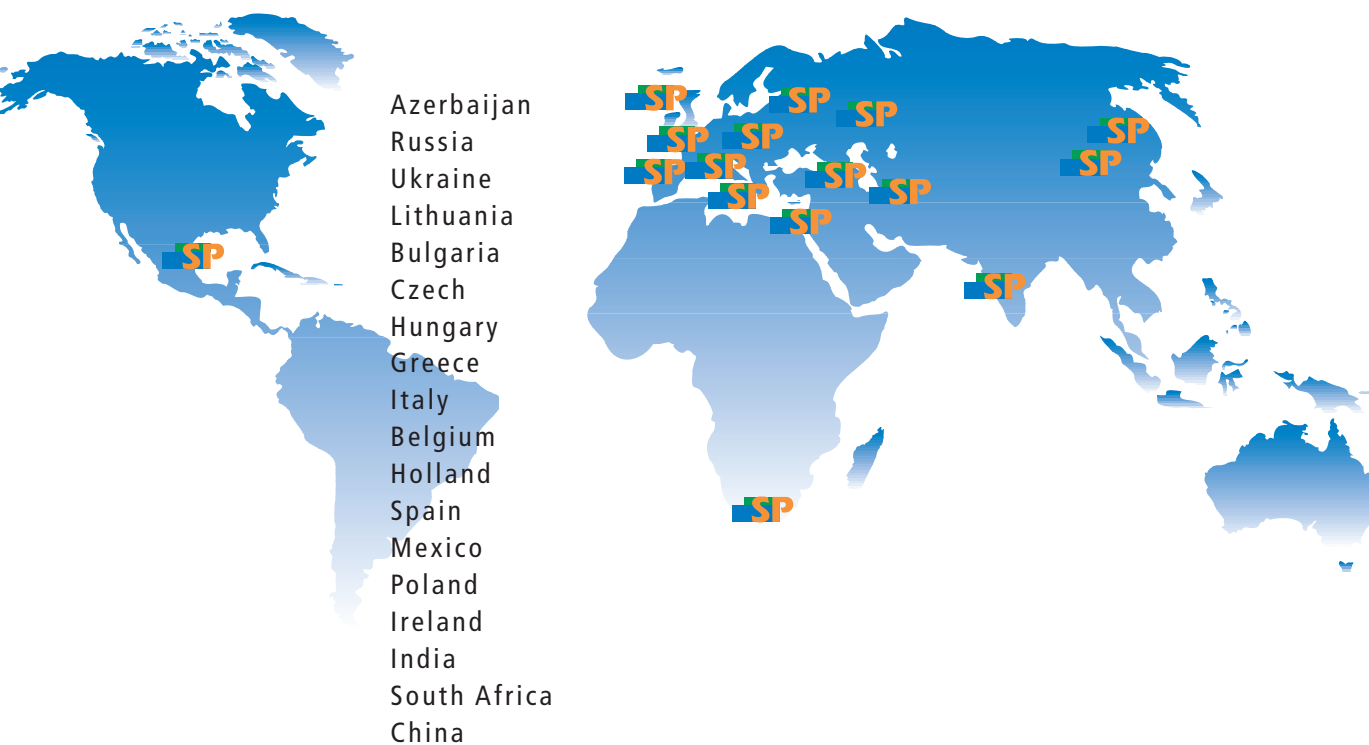
Water Temp. (C°)	Max. Work Pressure (bar)
To 20	24
From 21 - To 80	16
From 10 - To 95	10

## Factors of local resistance for SP press fittings

Name of fittings	Water flow direction	16 x 2	18 x 2	20 x 2	25 x 2.5	32 x 3
Angle 90		3.40	2.90	2.60	2.40	2.10
Muff		1.30	1.10	1.00	0.90	0.80
T - joint "offshut"		4.00	3.40	3.10	2.80	2.40
T - joint "pass"		0.90	0.80	0.70	0.70	0.60
T - joint "countercurrent"		3.59	3.00	2.80	2.50	2.10

SP pipe	16 x 2	18 x 2	20 x 2	25 x 2.5	32 x 3
Diameters of through passage sections SP press fitting	8.30	9.80	11.70	15.00	2.70

## SP AROUND THE WORLD









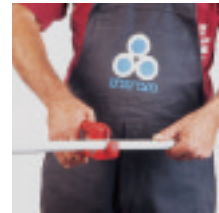
# Press Fittings

## A Fitting for all needs

In 1998 SP Metzerplas introduced a system of press connection fittings that is more efficient, economical and easier to use. SP press connectors provide a strong, secure and durable seal.

The wide range of pipes, connectors and accessories allow quick and easy installation of the piping system, inside the home and out (for plumbing, heating, compressed air, and more) and enable it's connection to any existing system.

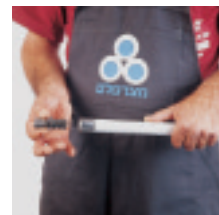
-  White 16 mm
-  Blue 18 mm
-  Green 20 mm
-  Black 25 mm
-  Brown 32 mm
-  Yellow Gas



**1**  
Cut pipe



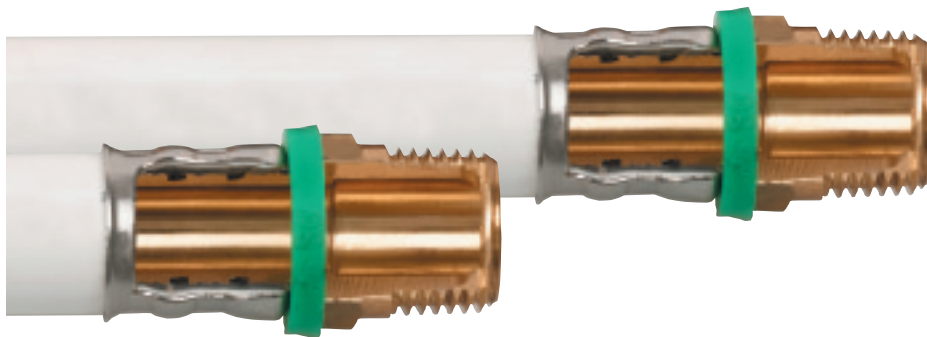
**2**  
Ream pipe



**3**  
Insert connector



**4**  
Crimp sleeve



## The hermetic solution

The pressing sleeve is firmly clamped to the pipe and inserted connector with the use of a pressing device\*. The addition of the two O-rings found on the inserted connector, guarantee a hermetic seal for hot and cold water systems.

The stainless steel sleeve protects the pipe ends and increases durability, as well as improving the pipes appearance, be it inside a wall or on any exposed installations.

\*Additional advantage - The pressing device automatically produces the right amount of pressure needed for proper sealing.



# PRESS FITTING SYSTEM

## SP Pipes

Size	Cat. No.	Pc. per Pack
16 x 2	770001	100, 200
18 x 2	770005	100, 200
20 x 2	770006	50, 100
25 x 2.5	770009	50, 100
32 x 3.0	770010	50
16 x 2 - Insulated	766001	50
20 x 2 - Insulated	766006	50
25 x 2.5 - Insulated	766009	50

## Connectors

Size	Cat. No.	Pc. per Pack
16 - 16	780102	150
18 - 18	780103	120
20 - 20	780104	100
25 - 25	780105	90
32 - 32	780106	60

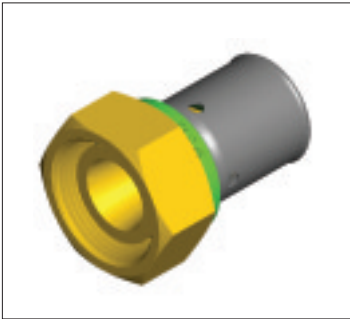
## Connectors

Size	Cat. No.	Pc. per Pack
18 - 16	780113	150
20 - 16	780115	150
20 - 18	780116	150
25 - 16	780118	100
25 - 18	780119	100
25 - 20	780120	90
32 - 25	780125	60

## Male Thread Connectors

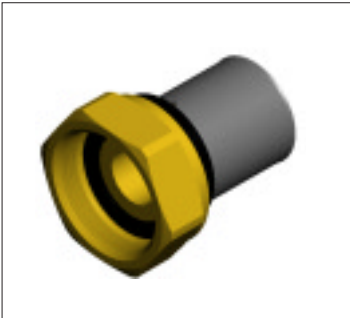
Size	Cat. No.	Pc. per Pack
16 - 1/2	780141	150
16 - 3/4	780142	100
18 - 1/2	780143	100
18 - 3/4	780144	100
20 - 1/2	780145	100
20 - 3/4	780146	100
25 - 3/4	780147	60
25 - 1Ó	780148	60
32 - 1Ó	780149	50
32 - 1¼Ó	780150	50

## PRESS FITTING SYSTEM



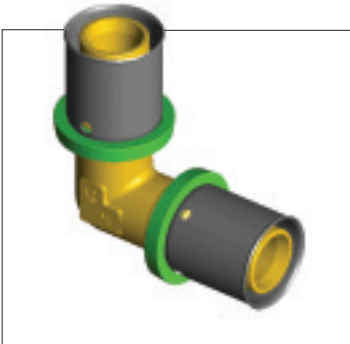
### SP Swivel Connectors

Size	Cat. No.	Pc. per Pack
16 - 1/2 (R)	<b>780181</b>	200
16 - 3/4 (R)	<b>780182</b>	160
18 - 1/2 (R)	<b>780183</b>	120
18 - 3/4 (R)	<b>780184</b>	120
20 - 1/2 (R)	<b>780185</b>	150
20 - 3/4 (R)	<b>780186</b>	100
25 - 3/4 (R)	<b>780187</b>	100
25 - 1" (R)	<b>780188</b>	50
32 - 1" (R)	<b>780189</b>	40



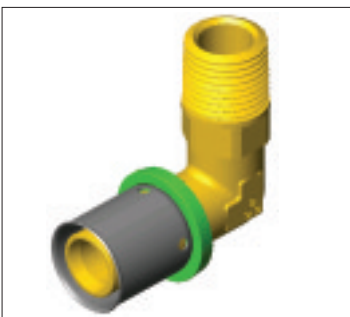
### Flat Swivel Connectors

Size	Cat. No.	Pc. per Pack
16 - 1/2	<b>780191</b>	200
16 - 3/4	<b>780192</b>	160
18 - 1/2	<b>780193</b>	120
18 - 3/4	<b>780194</b>	120
20 - 1/2	<b>780195</b>	150
20 - 3/4	<b>780196</b>	100
25 - 3/4	<b>780197</b>	100
25 - 1"	<b>780198</b>	50
32 - 1"	<b>780199</b>	40



### Elbows 90°

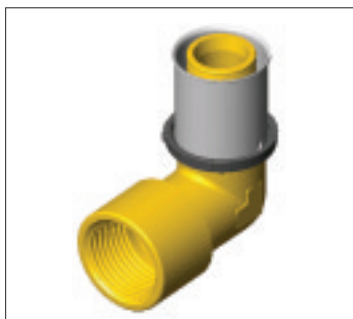
Size	Cat. No.	Pc. per Pack
16 - 16	<b>780201</b>	120
18 - 18	<b>780202</b>	100
20 - 20	<b>780203</b>	100
25 - 25	<b>780204</b>	50
32 - 32	<b>780205</b>	40



### Elbows Male Thread

Size	Cat. No.	Pc. per Pack
16 - 1/2	<b>780241</b>	120
18 - 1/2	<b>780243</b>	100
20 - 1/2	<b>780245</b>	100

## PRESS FITTING SYSTEM



### Elbows Female Thread

Size	Cat. No.	Pc. per Pack
16 - 1/2	<b>780261</b>	50
18 - 1/2	<b>780263</b>	40
20 - 1/2	<b>780265</b>	
20 - 3/4	<b>780266</b>	
25 - 3/4	<b>780267</b>	
32 - 1	<b>780269</b>	



### Tap Connectors

Size	Cat. No.	Pc. per Pack
16 - 1/2	<b>780611</b>	60
18 - 1/2	<b>780612</b>	60
20 - 1/2	<b>780613</b>	60
20 - 3/4	<b>780614</b>	60
25 - 3/4	<b>780615</b>	40



### Double Tap Connector 90°

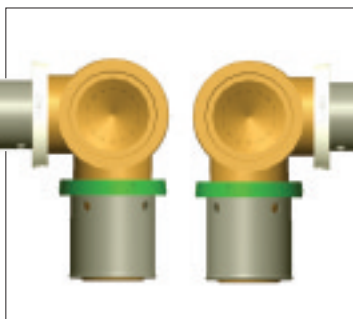
Size	Cat. No.	Pc. per Pack
16 - 1/2 - 16	<b>780625</b>	60
18 - 1/2 - 18	<b>780626</b>	60
20 - 1/2 - 20	<b>780627</b>	60



### Double Tap Connectors 180°

Size	Cat. No.	Pc. per Pack
16 - 1/2 - 16	<b>780621</b>	
18 - 1/2 - 18	<b>780642</b>	
20 - 1/2 - 20	<b>780623</b>	
20 - 1/2 - 16	<b>780631</b>	

## PRESS FITTING SYSTEM



### Reduce Tap Connector 90°

Size	Cat. No.	Pc. per Pack
16 - 1/2 - 20	<b>780634</b>	60
20 - 1/2 - 16	<b>780635</b>	60



### Shifted Tap Connectors 180°

Size	Cat. No.	Pc. per Pack
16 - 1/2 - 16	<b>780622</b>	
18 - 1/2 - 18	<b>780643</b>	
20 - 1/2 - 20	<b>780624</b>	
16 - 1/2 - 20	<b>780636</b>	
20 - 1/2 - 16	<b>780637</b>	



### Flanged Tap Connector

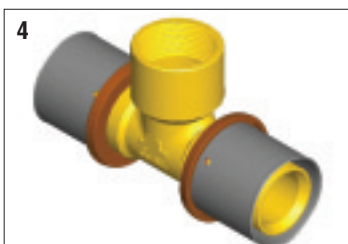
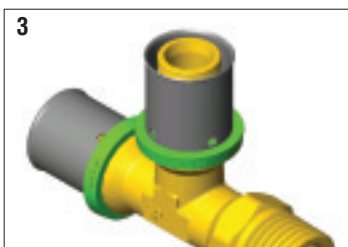
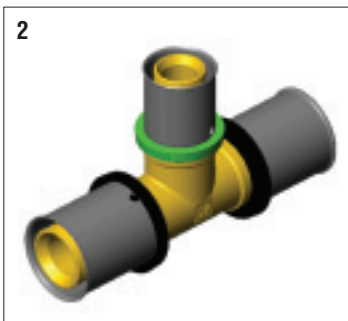
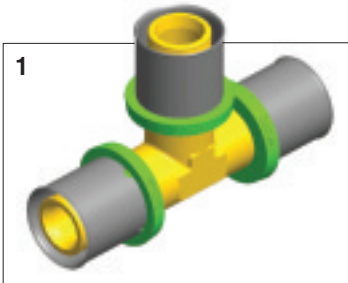
Size	Cat. No.	Pc. per Pack
16 - 1/2	<b>780661</b>	
18 - 1/2	<b>780662</b>	
20 - 1/2	<b>780663</b>	



### Radiator Connectors

Size	Cat. No.	Pc. per Pack
16 - 300	<b>780811</b>	
18 - 300	<b>780812</b>	
16 - 16 - 300	<b>780821</b>	
18 - 18 - 300	<b>780822</b>	
20 - 20 - 300	<b>780823</b>	

# PRESS FITTING SYSTEM



## T Connectors

	Size	Cat. No.	Pc. per Pack
1	16 - 16 - 16	780301	60
	18 - 18 - 18	780302	60
	20 - 20 - 20	780303	60
	25 - 25 - 25	780304	30
2	32 - 32 - 32	780305	30
	16 - 18 - 16	780317	60
	16 - 20 - 16	780318	40
	18 - 16 - 16	780343	60
	18 - 16 - 18	780322	60
	20 - 25 - 20	780329	60
	20 - 25 - 16	780382	30
	20 - 16 - 16	780345	50
	20 - 18 - 18	780346	40
	20 - 20 - 16	780365	40
	20 - 16 - 20	780327	40
	20 - 18 - 20	780328	30
	25 - 18 - 25	780333	40
	25 - 20 - 25	780334	50
	25 - 16 - 16	780348	50
	25 - 20 - 20	780350	27
	25 - 16 - 25	780332	27
	25 - 25 - 16	780368	30
	25 - 25 - 20	780370	30
	25 - 16 - 20	780381	30
	25 - 20 - 16	780380	30
	25 - 32 - 25	780355	30
	32 - 25 - 25	780335	80
	32 - 20 - 32	780339	60
	32 - 25 - 32	780340	40
32 - 16 - 25	780384	30	
32 - 20 - 25	780386	80	
32 - 25 - 16	780388	60	
32 - 25 - 20	780389		
32 - 32 - 20	780374		
32 - 32 - 25	780375		
3	16 - 16 - 1/2	780421	
	20 - 20 - 1/2	780424	
4	16 - 1/2 - 16	780411	
	18 - 1/2 - 18	780412	
	20 - 1/2 - 20	780413	
	18 - 1/2 - 16	780431	
	25 - 3/4 - 25	780414	
	32 - 3/4 - 25	780438	
	32 - 3/4 - 32	780415	

## PRESS TOOLS



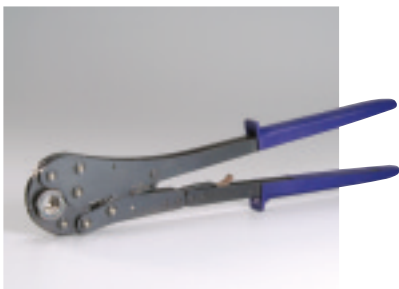
### Battery Crimping Tool Mini Series - K

Description	Size	Cat. No.
Battery crimping tool		780956
Including Jaws 16, 20, 25 mm - Battery + Charger		
Battery		780992
Charger		780993
16 mm Jaw		780936
18 mm Jaw		780937
20 mm Jaw		780938
25 mm Jaw		780939
32 mm Jaw		780940



### Electric Crimping Tool Series - K

Description	Size	Cat. No.
Electric crimping tool		780955
16 Pressing Jaw		780941
18 Pressing Jaw		780942
20 Pressing Jaw		780943
25 Pressing Jaw		780944
32 Pressing Jaw		780945



### Manual Crimping Tool

Description	Cat. No.
Manual Crimping	780951
16	780901
18	780902
20	780903



### Sleeve

Size	Cat. No.	Pc. per Pack
16	780016	
18	780018	
20	780020	
25	780025	
32	780032	

## TOOLS



### Cutting Tool

Description	Cat. No.	Pc. per Pack
SP Cutter	770400	15



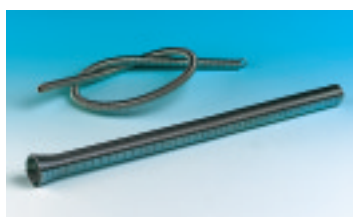
### Wrench 25 - 32 mm

Description	Cat. No.	Pc. per Pack
1/4-3/4 Special Wrench	770432	1
1/2 Special Wrench		1



### Reamer

Size	Cat. No.	Pc. per Pack
16	760293	1
18	760294	1
20	760295	1
25	760296	1
32	760297	1
		1
		1
		1



### Bending Spring

Size	Cat. No.	Pc. per Pack
16	770420	1
18	770421	1
20	770424	1
25	770423	1
16 - External	770426	1
20 - External	770427	1
25 - External	770428	1



### Mounting Plates

Description	Cat. No.	Pc. per Pack
Double 150 mm	770212	100
Double 100 mm	770214	120
Single	770215	200



### Combi Clamps

Size	Cat. No.	Pc. per Pack
16	760371	100
20	760373	100
25	760374	50

## SPECIAL FITTINGS



### Distributor m/f

Size	Cat. No.	Pc. per Pack
2 - 1/2 - 3/4	770233	1
3 - 1/2 - 3/4	770234	1
4 - 1/2 - 3/4	770235	1
2 - 1/2 - 1"	770220	
3 - 1/2 - 1"	770222	
4 - 1/2 - 1"	770221	



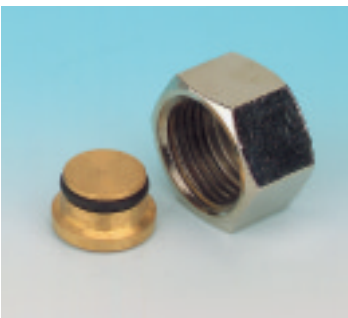
### Distributor m/f Inlet

Size	Cat. No.	Pc. per Pack
2 - 1/2 - 3/4	770282	1
3 - 1/2 - 3/4	770283	1
2 - 1/2 - 1"	790512	1
3 - 1/2 - 1"	790513	



### Plug Stopper (m)

Size	Cat. No.	Pc. per Pack
3/4	770340	200
1"	770341	200



### Cap Stopper (f)

Size	Cat. No.	Pc. per Pack
1/2	770345	200



### Screw for Tap Connector

Size	Cat. No.	Pc. per Pack
1/2	771200	200

# Threaded Connectors

## The optimum combination

For over a decade Metzerplas's SP threaded fittings system has successfully proven itself. The SP threaded connectors provide a complete system of pipes and fittings for installations of any commercial or home piping system, inside and out, for plumbing, heating, compressed air, and more.

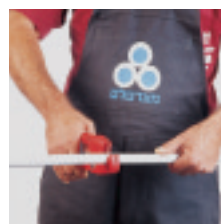
These threaded connectors allow the optimum combination of ease and functional efficiency, thus supplying the means to successfully meet all your different piping needs.



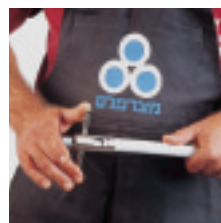
## A stable seal

After insertion of the connector into the pipe, the threaded nut is then tightened on to the pipe end, which produces pressure on the connector sleeve. This sleeve presses against the pipe, producing a sure, strong and stable seal.

The connecting nut is removable, whereas the inserted connector remains firmly placed in the pipe, and thus enables its use with other fittings without loss in the integrity of the connection.



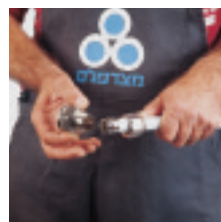
**1**  
Cut pipe



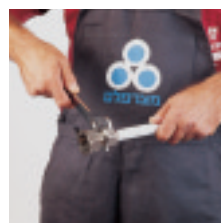
**2**  
Ream pipe



**3**  
Place nut and insert connector



**4**  
Attach end fitting



**5**  
Tighten



# THREADED FITTING SYSTEM



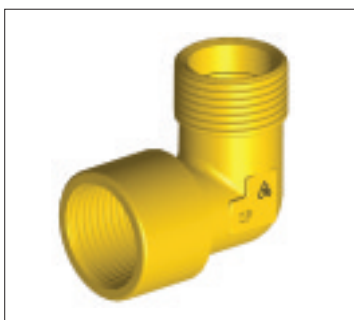
## Bushing

Size	Cat. No.	Pc. per Pack
1/2 - 1/2 (m/f)	<b>770061</b>	200
3/4 - 3/4 (m/f)	<b>770062</b>	80
1" - 1" (m/f)	<b>770063</b>	80
1/2(m) - 3/4(f)	<b>770064</b>	120
3/4(m) - 1"(f)	<b>770065</b>	80
3/4(m) - 1/2(f)	<b>770066</b>	200



## Elbow 90° m/m

Size	Cat. No.	Pc. per Pack
1/2	<b>770071</b>	120
3/4	<b>770072</b>	80



## Elbow 90° m/f

Size	Cat. No.	Pc. per Pack
1/2	<b>770075</b>	200
3/4	<b>770076</b>	80



## Socket

Size	Cat. No.	Pc. per Pack
1/2	<b>770081</b>	160
3/4	<b>770082</b>	100

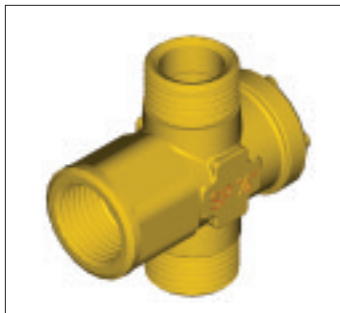


## THREADED FITTING SYSTEM



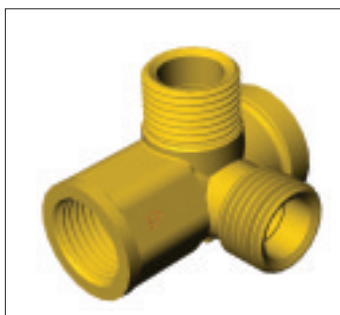
### Tap Connector

Size	Cat. No.	Pc. per Pack
1/2(f) - 1/2	<b>770200</b>	60
3/4(f) - 3/4	<b>770210</b>	



### Double Tap Connector 180°

Size	Cat. No.	Pc. per Pack
1/2(f) - 1/2 - 1/2	<b>770202</b>	60
1/2(f) - 1/2 - 3/4	<b>770204</b>	60
3/4(f) - 1/2 - 3/4	<b>770208</b>	60



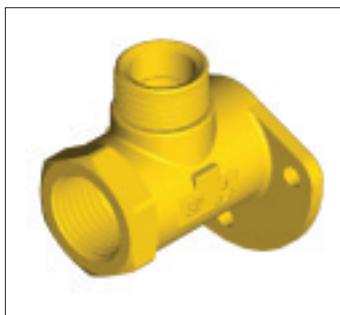
### Double Tap Connector 90°

Size	Cat. No.	Pc. per Pack
1/2(f) - 1/2 - 1/2	<b>770203</b>	60
3/4(f) - 1/2 - 3/4	<b>770209</b>	60



### Cross Tap Connector

Size	Cat. No.	Pc. per Pack
1/2(f) - 1/2 - 1/2 - 1/2	<b>770205</b>	60
1/2(f) - 3/4 - 1/2 - 3/4	<b>770207</b>	40



### Flanged Tap Connector

Size	Cat. No.	Pc. per Pack
1/2(f) - 1/2	<b>770206</b>	60



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