

# SWM61

## Forbes Marshall Steam Water Mixer

### Description

The Forbes Marshall Steam Water Mixer is ideally suited for application where hot water is required for cleaning purposes. Each SWM61 is supplied with isolation valves, check valves, throttling globe valves, main steam and water mixing station with temperature cut-off element, high quality flexible hose pipe, hot water spray gun and stainless steel rack. The Steam Water Mixer is designed to provide hot water instantly, economically and safely at desired set temperatures with steady flow rates of steam and water.

### Size and Pipe Connections

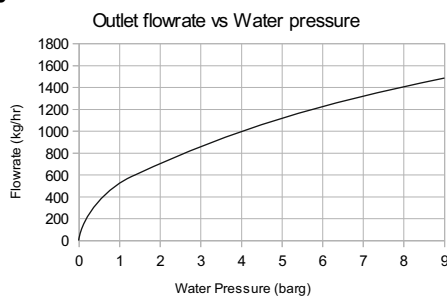
Steam & Water Inlet Connection	3/4" NPT
Hose Pipe 5 mtr./ 10 mtr./ 15 mtr./ 20 mtr.	3/4" BSPT (Male) x 3/4" BSPT (Female) Swivel Nut.
Spray Gun Connection	1/2" BSP (Female)

### Limiting Conditions

Maximum Steam Pressure	10 bar g
Maximum Water Pressure	10 bar g
Maximum Steam Temperature	180 °C
Pressure & Temp. Limits of Hose Pipe	10 bar g & 150 °C

**Recommended Inlet Water TDS – 150 ppm (max.)**

### Capacity Chart:



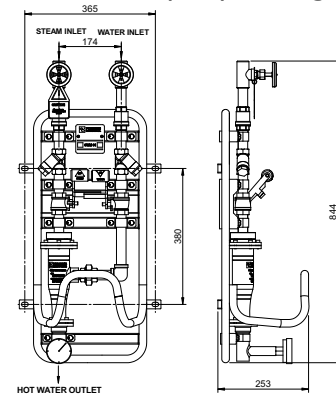
**Note:** In the above chart, steam pressure is always 1 bar g higher than the corresponding water pressure.

A minimum water supply pressure of 3 bar g is required to give a reasonable hot water spray velocity at the outlet of spray gun. Steam Pressure should always be greater than the Water Pressure by minimum 1 bar g.

All readings were taken keeping both steam and water control valves in fully open condition.

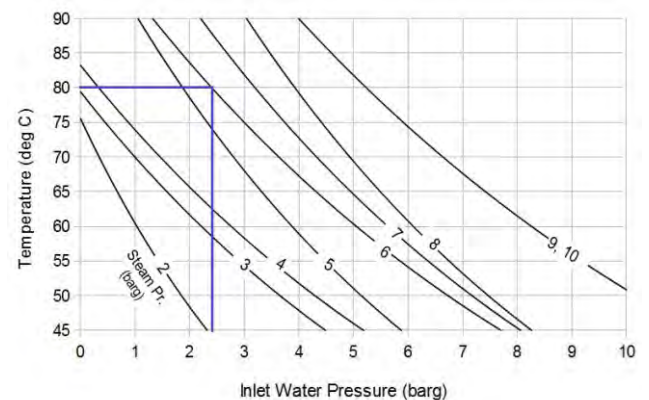
All readings were taken at inlet water temperature of 25 °C and would slightly vary with variation in inlet water temperature.

### Approximate Dimension (mm) & Weight (kg):



**Weight with hose & gun ~ 30 kg**

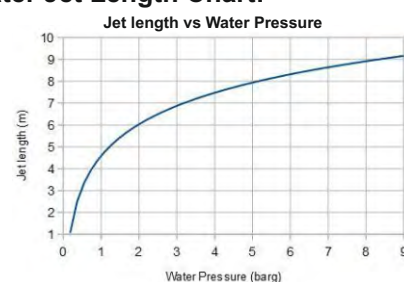
### Water Outlet Temperature Chart:



### How to read the chart:

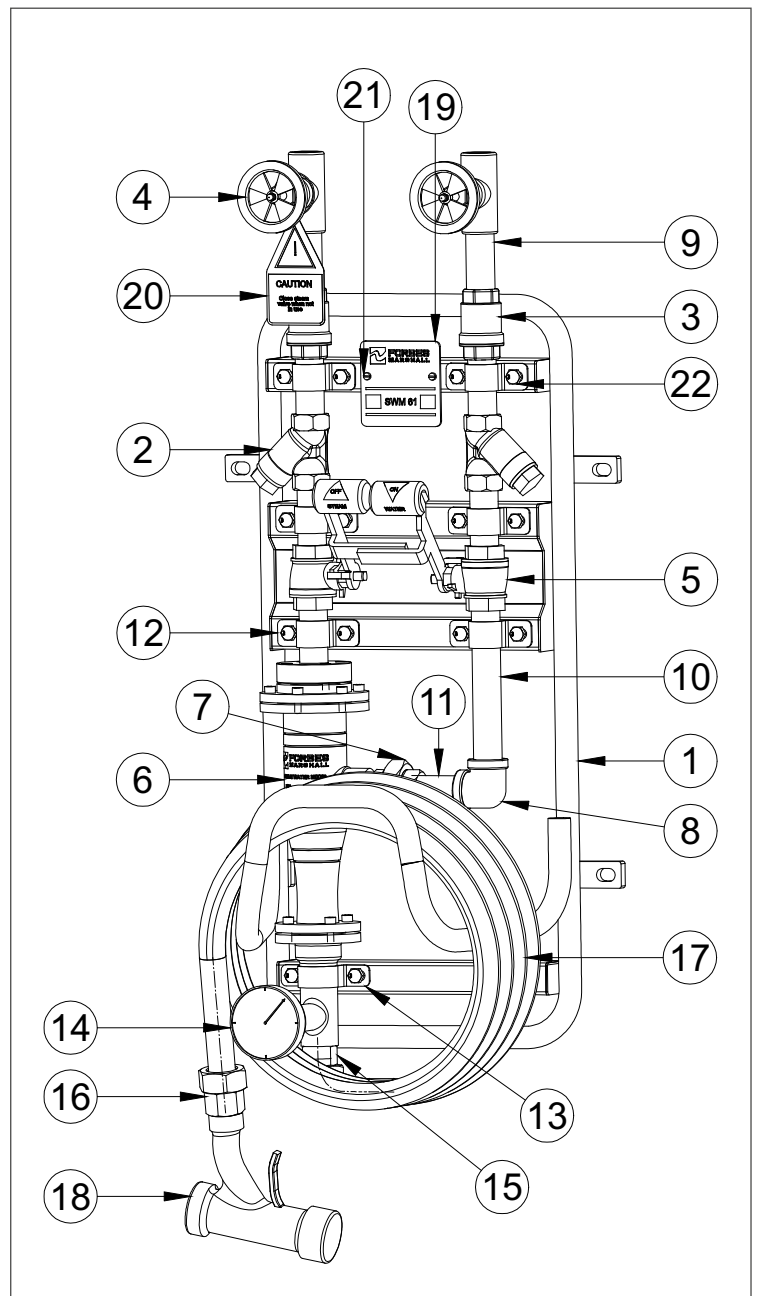
This chart will help in deciding the minimum inlet water pressure for a required hot water temperature. If, for example, the required hot water temperature is 80 °C and available steam pressure is 6 bar g, locate 80 °C on the Y-axis. Draw a horizontal line from that point till it meets the the 6 bar g steam pressure curve in the chart and move vertically down. The corresponding value on the X-axis represents the inlet water pressure, which in this case, is around 2.5 bar g.

### Outlet Water Jet Length Chart:



## Material

Sr.No.	Description	Material	Qty.
1	PANEL	SS PIPING WITH MS PLATES	1
2	20 NB STRAINER	CF8	2
3	20 NB NRV	CF8	2
4	20 NB GLOBE VALVE	CF8	2
5	20 NB BALL VALVE	CF8	2
6	SWM ASSEMBLY	SS	1
7	20 NB UNION	CF8	1
8	20 NB ELBOW	CF8	1
9	80mm PIPE	SS316	7
10	162mm PIPE	SS316	1
11	50.2mm PIPE	SS316	1
12	U-CLAMP	MS WITH BLUE ZINC PLATING	6
13	HOTWATER OUTLET CLAMP	MS WITH BLUE ZINC PLATING	1
14	TEMPERATURE GAUGE	STAINLESS STEEL	1
15	3/4" NPT(M) TO 3/4" BSPT(M) ADAPTER	SS304	1
16	3/4" BSPT(F) TO 1/2" BSP(M) ADAPTER	SS304	1
17	HOSE PIPE- 5mtr./10mtr./15mtr/20mtr	SS BRAIDED RUBBER HOSE	1
18	SPRAY GUN	BRASS	1
19	NAME PLATE	SS304	1
20	CAUTION TAG	MS	1
21	M4X0.7, BOLT & NUT	SS304	2
22	M 8 HEX BOLT & NUT	MS WITH Al-Zn COATING	14



## Available Spares

Sr.No	Description	Spares Code No.
1	Diffuser Assembly	SPARE-SWM61-MDKIT
2	Gaskets & O-Ring	SPARE-SWM61-GOKIT
3	Spring, Pin, Ball, Seat, Gaskets & O-Ring	SPARE-SWM61-MKIT
4	Element Holder	SPARE-SWM61-EHKIT
5	Spray Gun	SPARE-SWM61-SGKIT
6	Wax Element	SPARE-SWM61-WEKIT
7(a)	Hose 5mtr.	SPARE-SWM61-HPKIT-05M
7(b)	Hose 10mtr.	SPARE-SWM61-HPKIT-10M
7(c)	Hose 15mtr.	SPARE-SWM61-HPKIT-15M
7(d)	Hose 20mtr.	SPARE-SWM61-HPKIT-20M

## How to Order:

Example: 1 No. Forbes Marshall Steam Water Mixer, SWM61 3/4" NPT connection, 10mtr. hose pipe.

**Note:** Always specify available steam and water pressure, required flow rate of hot water, desired set temperature of hot water & hose length while ordering this product.

## How to Order Spares:

Always order spare parts by using the description given in the table above & Spares code

**eg.** Gaskets & O-Ring, SPARE-SWM61-GOKIT



www.forbesmarshall.com

Forbes Marshall Arca

Codel International

Krohne Marshall

Forbes Vyncke

Forbes Marshall Steam Systems

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