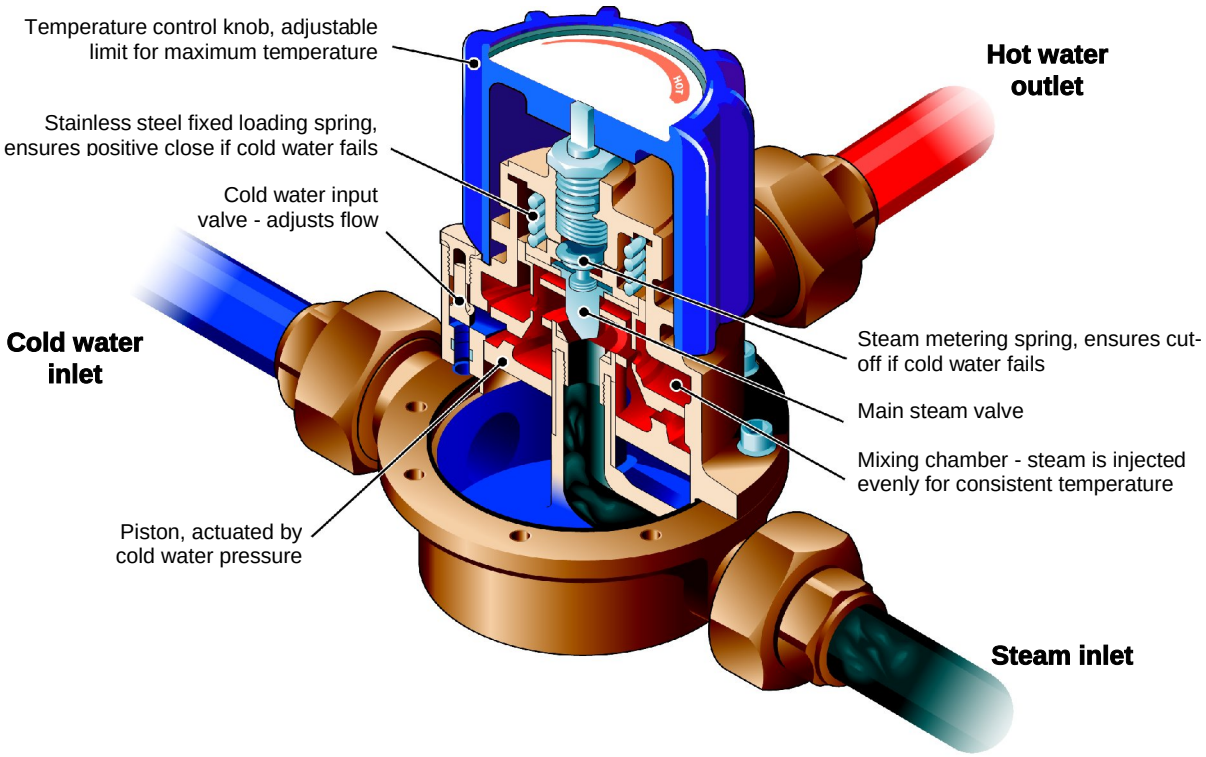
FACT SHEET

STEAM AND WATER MIXING VALVE MODEL 2000



BENEFITS

- Instantaneous hot water
- Outstanding economy – up to 80% cost savings
- Steam shuts off automatically if cold water supply fails
- Easy to service with unions allowing valve removal without disturbing pipework
- Full spares availability
- Available in four sizes 15mm (½"), 20mm (¾"), 25mm (1") and 40mm (1½")
- Variety of finishes:- natural gunmetal, dull chrome, Teflon coated, electro-less nickel and 20mm (¾") valve available in stainless steel.
- Unique, proven over 40 years international experience.

SUPPLY REQUIREMENTS

1. Valve must be sized correctly (see charts overleaf) and within 1 – 10 bar pressures.
2. Steam and water mains must be large enough to cope with demand
3. Incoming/dropper pipework to suit valve i.e: 15mm bore pipe to 15mm valve, not reduced in bore.
4. It is recommended that water supply is softened (in hard water areas) to reduce lime-scale build up in valve.
5. Constant steam and water supplies are required to maintain set outlet temperature.
6. All valves and fittings to be full bore (as little restriction as possible)
7. Ensure strainer baskets are cleaned periodically to eliminate restrictions to valve.
8. On new installations, ensure pipework is flushed out before fitting valve.

OUTLET RECOMMENDATIONS

1. Only 15mm (½") and 20mm (¾") valves to be used as hose washdown stations.
2. Large valves 25mm (1") and 40mm (1½") to be used for tank filling, multipoint applications.
3. No restrictions on outlet as back pressure will stop valve from working.
4. When fitting sprayballs/jet spinners, they must be correctly sized to give correct flow for valve; i.e. no restriction
5. Top or bottom outlet can be used
6. Recommended maximum of 15 meters of ¾" bore hose on outlet with ¾" gun.

SERVICING/MAINTENANCE

It is recommended that the valve is serviced *at least* every 12 months by a suitably qualified person

HOW TO CHOOSE THE CORRECT SIZE MIXING VALVE FOR YOUR APPLICATION

The tables below give the hot water output achievable for a range of temperatures and pressures, for the 4 different sizes of valve.

1. To choose the correct valve:-
2. Ascertain the hot water temperature required - for example: washdown systems typically require **60ºC.**
3. Ascertain the amount of hot water required - for example: washdown systems typically use **50 l/min.**
4. Confirm the running water and steam pressures available on site.
5. From Table 1, select the smallest valve which can deliver the required flow rate at the running water pressure available.
6. From Table 2, check that this valve can deliver the hot water at the flow rate and temperature required, with the steam pressure available.
7. If there is not enough steam, choose the next size valve and check that this valve can deliver your requirements.
8. Ensure that the minimum flow rate of the valve is lower than the quantity of water which the steam can heat. If it is higher, it will be necessary to increase the steam pressure.

TABLE 1 - COLD WATER CAPACITY			Valve size	TABLE 2 - STEAM CAPACITY							
Running water pressure (bar)	Max flow rate input valve open (l/min)	Min flow rate input valve closed (l/min)		Running steam pressure (bar)	Steam feed requirement (kg/hr)	Max flow rate obtainable with open outlet (l/min)					
						at 40ºC	at 50ºC	at 60ºC	at 70ºC	at 80ºC	at 90ºC
1	23	10		1	62	26	16	12	10	STEAM PRESSURE TOO LOW	
2	35	13		2	85	37	24	18	14		
3	43	15	15mm (½")	3	125	53	32	25	20	17	14
4	50	16		4	157	61	40	31	26	22	18
5	56	17		5	174	73	45	34	28	24	21
6	63	18		6	191	80	49	38	31	26	22
7	69	19		7	208	STEAM	53	41	33	28	24
8	75	20		8	225	PRESSURE	58	44	36	31	26
9	79	20		9	242	TOO	62	48	39	33	28
10	83	21		10	263	HIGH	67	51	42	35	30
1	26	12		1	120	44	30	24	20	16	14
2	44	16		2	174	77	44	34	27	23	19
3	58	22		3	247	88	63	48	40	34	29
4	69	25		4	306	110	79	60	49	41	36
5	78	28	20mm	5	337		86	67	54	46	39
6	85	31	(¾")	6	382		100	75	60	53	44
7	93	33		7	447	STEAM		88	71	60	51
8	100	36		8	506	PRESSURE		100	81	69	59
9	106	38		9	551	TOO		108	88	74	64
10	112	41		10	566	HIGH		111	90	75	66
1	79	22		1	213	90	56	STEAM PRESSURE TOO LOW			
2	104	29		2	350	146	90	68	56	48	40
3	120	33		3	420	175	108	82	67	57	49
4	138	39		4	490		126	94	78	66	57
5	152	46	25mm	5	554		142	102	88	74	64
6	164	49	(1")	6	622		160	118	99	84	72
7	177	52		7	689	STEAM	177	135	110	92	79
8	187	55		8	757	PRESSURE	195	149	121	102	86
9	194	57		9	824	TOO		162	131	112	94
10	198	60		10	886	HIGH		174	140	120	102
1	112	47		1	243	105	65	STEAM PRESSURE TOO LOW			
2	162	69		2	394	165	100	70			
3	197	80		3	545	225	140	100	88	72	62
4	230	91		4	688	275	180	132	110	93	80
5	252	100	40mm	5	830	345	215	165	132	112	97
6	273	110	(1½")	6	957		245	190	155	135	110
7	293	119		7	1064	STEAM	275	210	170	147	123
8	315	128		8	1158	PRESSURE	295	230	185	162	135
9	338	135		9	1231	TOO	320	245	198	167	145
10	357	142		10	1285	HIGH	330	255	210	172	150

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