

# Ball Valves For Steam Service

## SP Ratings

	Valve Type	Valve Size		Seat Material	Steam Pressure			
		NPS	DIN		psi	bar		
2-Pc	600F & R	1/4" - 4"F & 1/2" - 2" R	8 - 100F & 15 - 50R	PTFE*	125	8.6		
	9000F & R	1/4" - 3"F & 1/2" - 2" R	8 - 80F & 15 - 50R	RPTFE**	125	8.6		
3 - Piece	4600F & R	1/4" - 2-1/2"F & 1/2" - 3"R	8 - 65F & 15-80R	PTFE*	125	8.6		
	4700F	1/2" - 4"	15 - 100	RPTFE*	200	13.8		
		1/2" - 2"	15 - 50	CRPTFE	275	19.0		
		2-1/2" - 4"	65 - 100	CRPTFE	250	17.2		
		1/2" - 4"	15 - 100	50% SSPTFE	350	24.1		
	8700F	1/2" - 2"	15 - 50	RPTFE**	200	13.8		
				CRPTFE	275	19.0		
				50% SSPTFE	350	24.1		
	KF8900F	1/2" - 4"	8 - 100	PTFE*	30	2.1		
	3000F & R	1/4" - 1-1/2"F & 1/2" - 2"R	8 - 32F & 15 - 50R	PTFE*	125	8.6		
				RPTFE**	200	13.8		
		2" - 3"F & 2-1/2" - 4"R	50 - 80F & 65 - 100R	PTFE*	100	6.9		
				RPTFE**	200	13.8		
		1/4" - 2-1/2"F & 1/2" - 3"R	8 - 65F & 15- 80R	CRPTFE	275	19.0		
					3"F & 4"R	80F & 100R	250	17.2
		1/4" - 2-1/2"F & 1/2" - 3"R	8 - 65F & 15 - 80R	PEEK	350	24.1		
					3"F & 4"R	80F & 100R	300	20.7
	1/4" - 3"F & 1/2" - 4"R	8 - 80F & 15 - 100R	CPEEK	450	31.0			
	MS3000	1/2" - 2"	15 - 50	Marwinit M6‡	500	34.5		
				Marwear W4 & W6	600	41.4		
10000	1/4" - 1"	8 - 25	CRPTFE	275	19.0			
			PEEK	350	24.1			
			CPEEK	450	31.0			
MS10000	1/4" - 2"	8 - 50	Marwear W4 & W6	600	41.4			
Class 150 FE	2000F-F1 2000R-F1	1/2" - 6"F & 2" - 4"R	15 - 150F & 50 - 100R	RPTFE**	150	10.3		
				CRPTFE	200	13.8		
	5000F & R+ 5800F & R++	1/2" - 4"F & 1/2" - 6"R	15 - 100F & 15 - 150R	RPTFE**	200	13.8		
				CRPTFE	200	13.8		
Class 300 FE	2000F-F3	1" - 2"	25 - 50	RPTFE**	225	15.5		
					200	13.8		
				3" - 6"	80 - 150	CRPTFE	275	19.0
							250	17.2
	6000F & R+	1/2" - 4"F & 1/2" - 6"R	15 - 100F & 15 - 150R	RPTFE*	250	17.2		
				CRPTFE	300	20.7		
		6" - 8"F & 8" - 10"R	150 - 200F & 200 - 250R	RPTFE**	200	13.8		
				CRPTFE	250	17.2		
	6800F & R+	1/2" - 4"F & 1/2" - 6"R	15 - 100F & 15 - 150R	RPTFE**	250	17.2		
				CRPTFE	250	17.2		
		6" - 8"F & 8" - 10"R	150 - 200F & 200 - 250R	RPTFE**	200	13.8		
				CRPTFE	250	17.2		

CRPTFE will give longer service life in steam service and is preferred over RPTFE where available.

\* PTFE is not recommended for throttling or high cycle isolation service.

\*\* RPTFE is not recommended for throttling service

‡ Superheated steam only with 50°F minimum superheat up to 700°F maximum temperature

+ 1/2" - 1"F and 1/2" - 10"R 5000 and 6000 Series are unibody design and require EPDM body seal O-rings.

++ 5800 and 6800 Series require special EPDM stem and body seal O-rings.



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