

PDC[®] CHECK VALVE HANDLING AND LIFTING INSTRUCTIONS

Lifting of PDC[®] check valves must be accomplished in a safe, controlled manner. Attention to personal safety is required as PDC[®] check valves can be very heavy depending on the size and class of the valve. Ensure that all handling equipment is in accordance with current OSHA health and safety guidelines. Fiber slings/straps rated for the capacity of each lifting task should be used, properly choked, around the necks of the valve flanges. Never lift a valve with a single strap. Overhead cranes, forklifts, lifting apparatus, and any other equipment used must be rated for the weight of the valve.

Always secure any valve resting on a surface by using blocks or other means to prevent it from tipping over or rolling. Avoid abrupt motion to prevent slamming of the disc to the seat. Clean any dirt or debris from inside of valve body and follow the instruction manual to install the valve.

All valves in this product line may be safely lifted using two straps, rated for valve weight, one each on the valve neck behind each flanged end. Make sure slings are not loose and are choked properly to prevent valve from spinning. Use caution with lifts at sling-to-load angles less than 45° and do not make lifts at angles less than 30°. When possible, use longer slings to minimize angular tension by increasing the angle. Always keep the center of gravity in line with the suspension point by adjusting slings or using multiple legs. See table below for weight of each valve and center of gravity location.

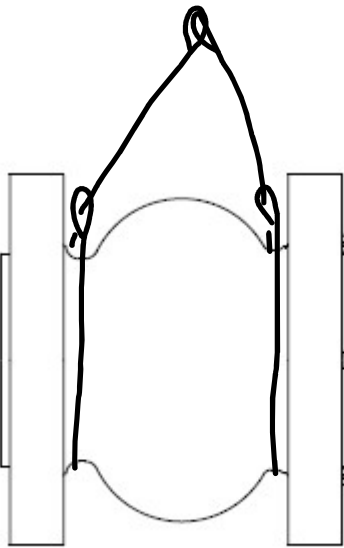


Figure 1: Lifting Configuration

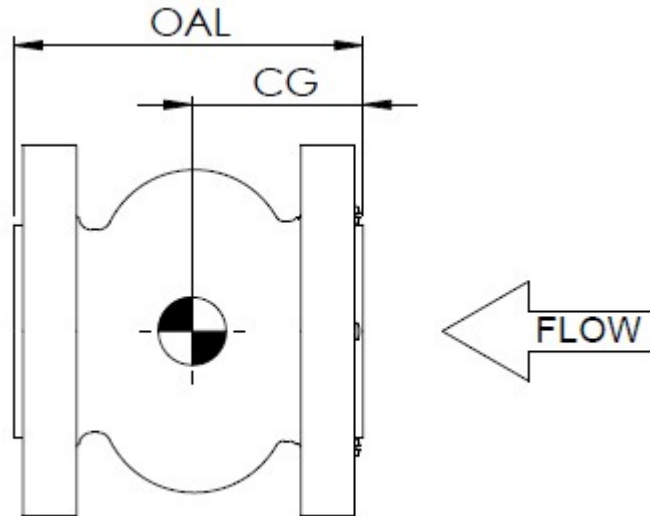


Figure 2: Overall length and CG location

Valve Size (NPS)	Class	Dimension "OAL": Overall Length (in.)	Dimension "CG": Center of Gravity Distance From Entrance Face (in.)	Weight (lb.)
2	900	14.50	6.84	68
2	1500	14.50	6.84	68
2	2500RTJ	17.88	8.60	110
3	600	14.00	6.54	57
3	900	15.00	6.99	90
3	1500	18.50	8.72	139
3	2500RTJ	23.00	11.15	263

4	150	11.50	5.01	62
4	300	14.00	6.21	83
4	600	17.00	7.79	120
4	900	18.00	8.29	148
6	150	14.00	6.31	94
6	300	17.50	7.90	149
6	600	22.00	10.18	267
6	900	24.00	10.99	336
6	1500	27.75	13.04	532
8	150	19.50	8.15	227
8	300	21.00	9.23	315
8	600	26.00	11.58	465
8	900	29.00	13.47	577
8	1500	32.75	15.65	1063
10	150	24.50	10.19	328
10	300	24.50	10.88	466
10	600	31.00	13.92	747
12	150	27.50	11.33	479
12	300	28.00	12.20	670
12	600	33.00	14.31	1079
12	900	38.00	17.38	1962
12	1500 RTJ	45.12	20.99	2616
16	300	34.00	14.83	1366
16	600	39.00	17.10	2064
20	300	40.00	18.22	2474
20	600	47.00	21.44	4062
26	900	76.50	25.10	8005

For valves not listed, weight is below 55 lb. Use proper lifting methods for these smaller valves.

For any questions regarding lifting or handling, contact DFT[®].