

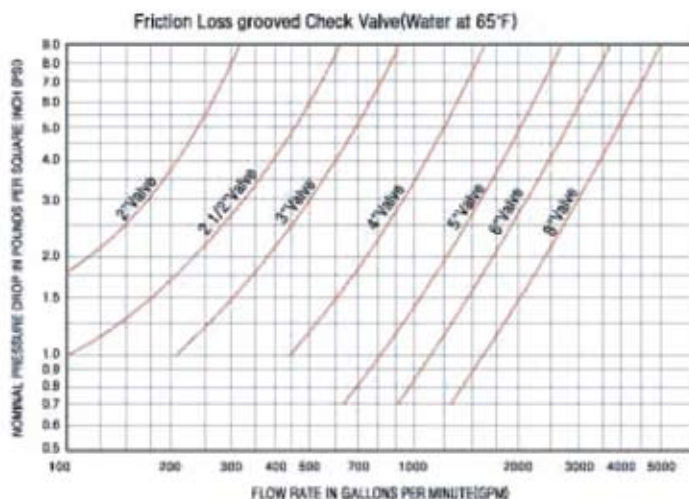
## Highriser® Grooved Check Valve

**Grooved Check Valves, UL/ULC Listed/FM Approved**  
**Grooved End, Size: 2-1/2", 3", 4", 6" and 8"**

Fig.No:DCG

### WORKING PRESSURE 300PSI/21BARS

The Check Valve is a compact, cost effective valve offering low pressure-drop, non-slam performance the Check valve assembly is lighter and fast to install, and costs less than flanged and wafer valve assemblies. In the fully-open position the clapper is held tightly against the valve body, out of the flow stream, to provide maximum flow area and prevention of clapper flutter. The clapper design produces quick, non-slam closure before flow reversal can occur, while meeting FM requirements for an anti-water hammer valve rating. Each valve is hydrostatically tested for leak tightness to 500 PSI. The clapper-seat design permits leak free sealing of back pressures in service conditions ranging from 300 PSI to as low as 5 P I



Check Valve									
Nominal Size	Pipe OD	Nominal Dimensions							Valve Weight
		A	B	C	D	E	F	G	
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Lbs./kg.
2	2.375	6 3/4	2 1/8	1 1/8	1 3/4	4 1/2	3 3/8	4 3/8	8.0
50	60.3	171	50	36	44	114	114	111	3.6
2 1/2	2.875	7 1/4	2 1/8	1 3/8	1 1/4	3 3/8	3 3/8	3 1/2	8.2
65	73.0	184	61	39	44	92	92	44	3.7
3	3.500	7 3/4	2 3/8	2	1 1/8	4 1/8	3 3/8	4 3/8	10.5
80	88.9	197	67	51	46	103	93	125	4.8
4	4.500	8 1/4	3 1/8	3 1/4	2 1/2	5 1/8	5 1/4	6	17.0
100	114.3	206	79	57	64	128	108	152	7.7
6	6.625	12 3/4	4 1/4	3	3 1/8	6 1/4	6 3/4	6 1/2	42.5
150	168.3	324	108	84	79	159	171	216	19.3
8	8.625	14 3/8	5 1/8	5 3/8	4	5 5/8	8	5 1/4	66.0
200	219.1	365	128	100	102	102	203	250	30.0

## Highriser® Grooved Check Valve

Fig.No.:DCG

### SPECIFICATIONS

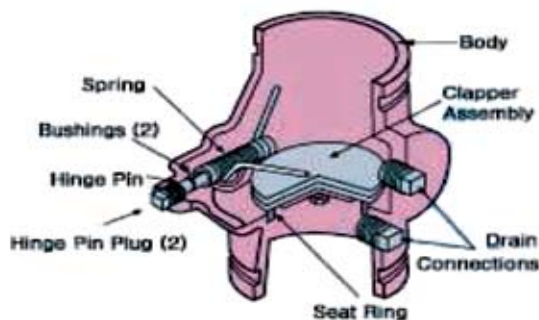
Working Pressure : 300 PSI (21 Bars)  
 Max. Test Pressure: 500 PSI (34.5 Bars)  
 Max. Working Temp : 250°F ( 120°C )



### Primary Materials:

Component	Material
Body	Ductile iron conforming toASTMA-536 epoxy coated
Color	Red or black (optional)
Clapper	2"-5" type 304 or 302 stainless Steel to ASTMA-167 6"-8" ductile iron conforming to ASTMA-536, grade 65-45-12
Clapper Facing	Grade E EPDM -40°F to 230°F ( -40°C to 110°C) Service Temperature range
Seat Ring	Type 304 stainless steel to ASTMA-123 ASTMA-213 ASTMA-312 or ASTMA-269
Spring	Type 302 stainless steel to ASTMA-313
Hinge Pin	Type 304 or 302 stainless steel to ASTMA-580
Hinge Pin Bushings	Sintered bronze to ASTMB-438

Flow Date-Friction Los (Ft. Pipe)							
Valves	Pipe	C=100			C=120		
Size	OD	Sch.10	Sch.30	Sch.40	Sch.10	Sch.30	Sch.40
In/mm	In/mm	Ft/m	Ft/m	Ft/m	Ft/m	Ft/m	Ft/m
2	2.375	10	--	8	14	--	11
50	60.3	3.0	---	2.4	4.3	----	3.4
2-1/2	2.875	14	--	10	20	--	15
65	73.0	4.3	---	3.0	6.1	---	4.6
3	3.500	17	--	12	23	--	17
80	88.9	5.2	---	3.7	7.0	--	5.5
4	4.500	17	--	13	23	--	18
100	114.3	5.2	---	4.0	7.0	--	5.5
5	5.562	14	--	11	20	--	15
125	141.3	4.3	---	3.4	6.1	---	4.6
6	6.625	23	--	19	33	--	26
150	168.3	7.0	---	5.8	10.1	---	7.9
8	8.625	35	32	30	50	43	43
200	21.9	10.7	9.6	9.1	15.2	13.1	13.7



### Dimensions & Weights :

