

Swing Check Valve Data Sheet



FEATURES:

- Fully thermoplastic body construction allows for excellent corrosion resistance and long service life in aggressive media
- Suitable for both horizontal and vertical installation, providing flexibility in piping design
- Molded flow direction arrow ensures correct installation and reduces field installation errors
- Top-access bonnet cover allows easy in-line maintenance without removing the valve from the pipeline
- Manufactured in high-impact PVC for improved strength and durability
- Designed for minimum flow resistance, delivering low pressure drop and high CV for efficient system performance
- Fully vacuum rated across all sizes
- Low back pressure required for full disc seating, improving sealing performance at low differential pressures
- PVC and PP valve versions are supplied with EPDM seals as standard for broad chemical compatibility

OPTIONS:

- PTFE or FKM seat and o-rings
- External spring to assist the disc in closing faster and minimizing water hammer
- External lever and weight to assist the disc in closing faster

PRESSURE VS. TEMPERATURE (PSI, WATER, NON-SHOCK):

Body Material	Temperature (F)	inches (mm)		
		3/4" - 3" (20 - 80)	4" - 6" (100 - 150)	8" (200)
PVC	30° - 120°	150	100	70
PP	-5° - 175°	150	100	70
PVDF	-5° - 210°	150	100	70

SPECIFICATIONS:

SIZES: 3/4" - 8"
MODELS: Flanged (ANSI)
BODY MATERIALS: HI-PVC, PP, PVDF
SEATS: EPDM, FKM, PTFE
SEALS: EPDM, FKM, PTFE

WEIGHTS (LBS.):

Nominal Size		Weight
inches	mm	
3/4	20	2.20
1	25	4.40
1-1/2	40	6.61
2	50	10.14
2-1/2	65	14.33
3	80	16.53
4	100	26.45
5	125	44.00
6	150	59.52
8	200	92.59

CV VALUES:

Nominal Size		Cv
inches	mm	
3/4	20	14
1	25	24
1-1/2	40	81
2	50	140
2-1/2	65	250
3	80	280
4	100	510
5	125	750
6	150	1100
8	200	1900

MINIMUM BACK PRESSURE TO CLOSE VALVE (PSI):

Nominal Size		Seat Material	
inches	mm	EPDM, FKM	PTFE
3/4	20	2.8	5.0
1	25	5.0	8.5
1-1/2	40	5.0	8.5
2	50	5.0	8.5
2-1/2	65	5.0	8.5
3	80	5.7	8.5
4	100	5.7	9.2
5	125	5.7	9.2
6	150	6.4	10.0
8	200	6.4	10.0