

Rubber Duckbill Check Valve

RUA Rubber Duckbill Check Valve is an very reliable and cost effective check valve compare to flap check valves and other conventional check valves.

Rubber Check Valves require minimal maintenance; the simple one-piece design and reinforced rubber construction eliminate the mechanical and metal components that rust and seize in conventional flap-gates and check valves.

Duckbill Check Valve is a passive - reactive device requiring no external mechanisms or power source to operate. The flexible rubber sleeve is normally closed but will react and open with as little as 1 inch of head pressure and always providing maximum flow with minimal pressure drop across the valve. This ease of operation reduces standing water in sewer pipes where mosquitoes and other pests can thrive.

The all flexible construction will pass large objects without blockage yet offers exceptional back flow prevention and can even seal around trapped solids with as little as 1 psi of back pressure.

RUA Rubber Duckbill Check Valve is manufactured with top quality materials including an outer layer specially formulated to repel growth of marine organisms.



Typical Applications

- Storm water outfall
- Flood control systems
- Pumping stations / Wet wells
- Sewer interceptor check valve
- CSO / SSO / Effluent discharge
- Submerged outfall diffuser nozzles
- Coarse bubble air diffusers

Available Elastomers

Standard construction is a natural gum rubber inner tube with a multi-resistant Neoprene outer cover. Neoprene is also commonly used for the inner tube in sewage and treated effluent applications. Other elastomers are available but not often required where this style of valve would be used.

Flanged Duckbill Check Valve

RUA Flanged Duckbill Check Valve is manufactured with an integral reinforced rubber flange complete with metal backing rings, which can be bolted directly to a headwall, tank wall or pipe flange.



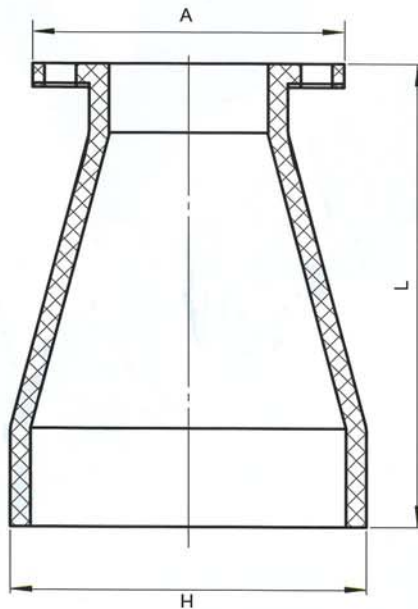
Fig. DV10

Features

- Quiet operation
- Non slamming
- Minimal maintenance
- Seals around trapped objects
- Low head loss
- Reliable performance

Applications

- Sewer Interceptors
- Outfall Lines
- Wet/Dry Wells
- Storm water discharge
- Submerged outfall diffuser nozzle



Dimensions(mm)

Pipe Size ID		Length L	Height H	Flange Outside Diameter A
DN	NPS			
50	2	150	100	150
80	2 1/2	220	140	200
100	3	250	200	225
150	6	340	265	275
200	8	420	325	338
250	10	520	425	400
300	12	620	525	485
350	14	700	625	525
400	16	800	725	588
450	18	900	825	625
500	20	980	925	688
600	24	1120	1025	800
700	28	1180	1125	969
800	32	1350	1400	1080
900	36	1500	1525	1150
1000	40	1600	1725	1325
1200	48	1840	1950	1485

Insertable Duckbill Check Valve

RUA Insertable Duckbill Check Valves are designed to fit right inside the pipe. No valve body is required.

This feature not only saves money but also permits installation in otherwise difficult situations such as tank outlets, floor drains, sewer interceptors, overflow systems, retention basins and manhole outlets.

DV20-E fits directly inside the pipe and is secured in place by an expandable clamp ring made of stainless steel.

DV20-F also fits directly inside the pipe and is bolted in place between the pipe flanges.

Features

- Quiet operation
- Non slamming
- Minimal maintenance
- Seals around trapped objects
- Low head loss
- Reliable performance

Applications

- Sewer Interceptors
- Outfall Lines
- Wet/Dry Wells
- Storm water discharge
- Submerged outfall diffuser nozzle



Dimensions(mm)

Pipe Size ID		Length L	Height H	Flange Outside Diameter A
DN	NPS			
50	2	125	47	150
80	3	175	72	200
100	4	225	97	225
150	6	320	47	275
200	8	375	197	338
250	10	475	247	400
300	12	560	297	485
350	14	625	344	525
400	16	700	394	588
450	18	780	444	625
500	20	880	494	688
600	24	1000	494	800
700	28	1100	694	969
800	32	1260	794	1080
900	36	1400	894	1150
1000	40	1520	988	1250
1200	48	1725	1188	1485

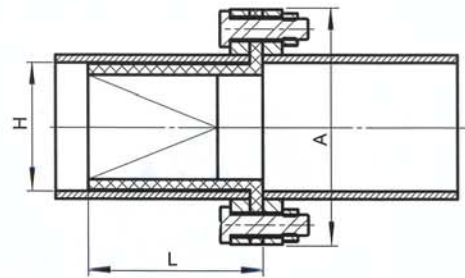


Fig.DV20-F

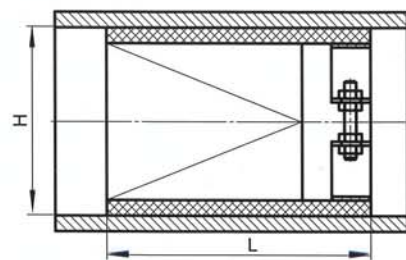


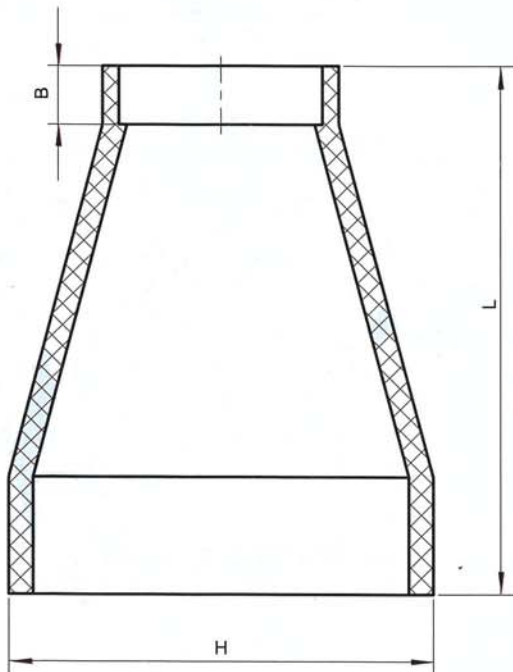
Fig.DV20-E

Slip-On Duckbill Check Valve

RUA Slip-On Duckbill Check Valve is manufactured with an integral reinforced flexible sleeve end complete with heavy duty clamps, which can be easily attached directly over the pipe end.



Fig.DV30



Features

- Quiet operation
- Non slamming
- Minimal maintenance
- Seals around trapped objects
- Low head loss
- Reliable performance

Applications

- Sewer Interceptors
- Outfall Lines
- Wet/Dry Wells
- Storm water discharge
- Submerged outfall diffuser nozzle

Dimensions(mm)

Pipe Size ID		Length L	Height H	Embed Depth B
DN	NPS			
50	2	158	100	25
80	3	232	140	40
100	4	270	200	40
150	6	360	265	50
200	8	450	325	50
250	10	560	425	75
300	12	650	525	115
350	14	750	625	115
400	16	850	725	135
450	18	950	825	150
500	20	1060	925	200
600	24	1200	1025	200
700	28	1260	1125	200
800	32	1450	1400	250
900	36	1620	1525	250
1000	40	1720	1725	250
1200	48	2010	1950	300
1400	56	2280	2320	320
1600	64	2600	2650	350
1800	72	2920	2960	400
2000	80	3150	3300	450
2200	88	3450	3580	500
2400	96	3760	3925	550
2600	104	3900	4250	600
2800	112	4200	4580	650
3000	120	4500	4990	700