

## FLAP VALVE



Clean water, that will not be used, is released to nature such as sea, lake or river and sewage is released to tanks by pipes.

If end of pipe is not covered, small animals like fish, frog or snake may go inside when there is no flow. According to diameter of pipe, even big size animals may go inside as well.

If water level rises outside, it may fill into pipe.

To prevent all these problems, a flap valve is mounted at the open end of pipe line.

Flap valve is a kind of check valve consists of a body and disc. It can be used in both sewage and clean water media as long as correct materials are selected.

When flow begins, disc is pushed forward by effect of flow. Disc closes by gravity when there is no flow.

Flap valve is used to drain water to nature like lake, pool or river.

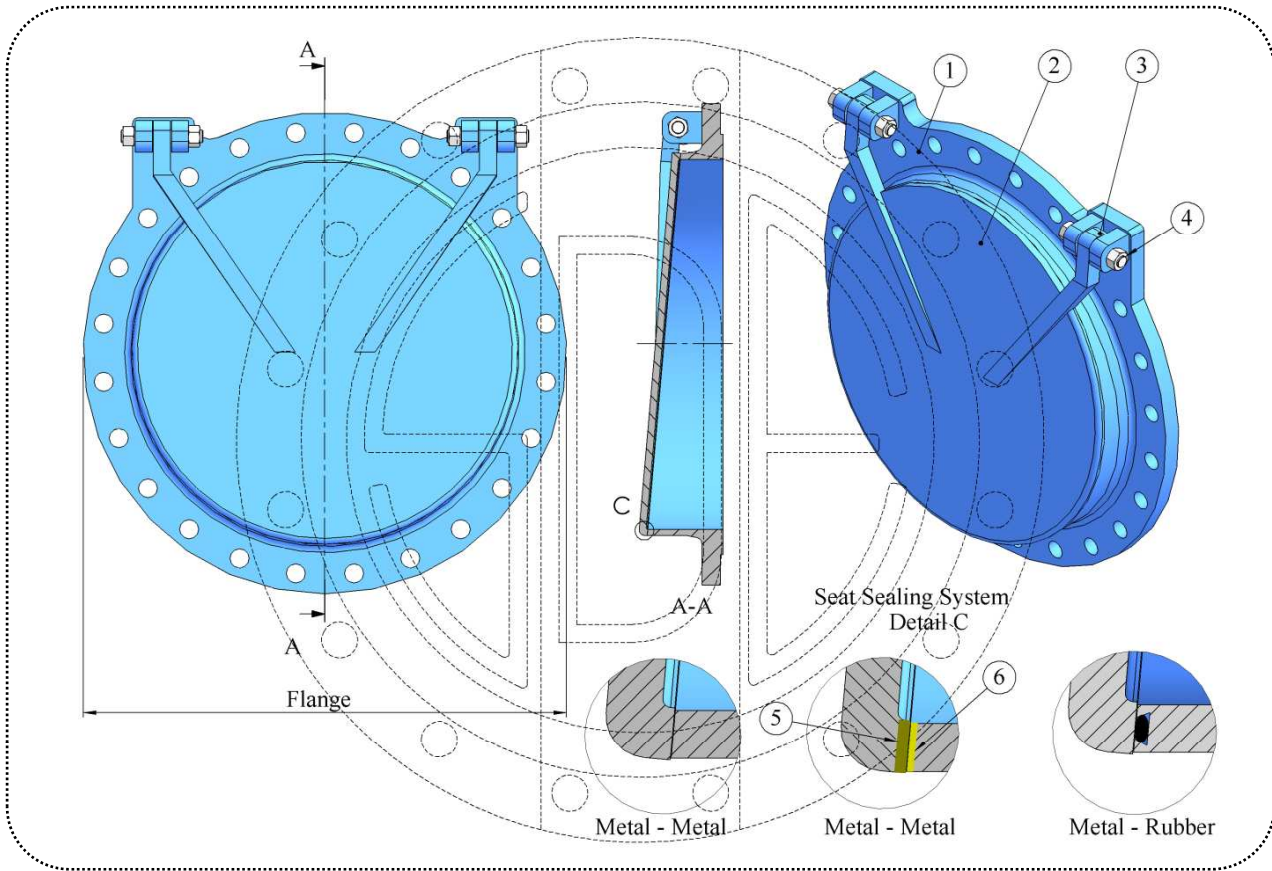
### Installation Position,

It is mounted at the end of horizontal pipe line. Shaft should be in horizontal and flange should be in vertical position.

### Maintenance,

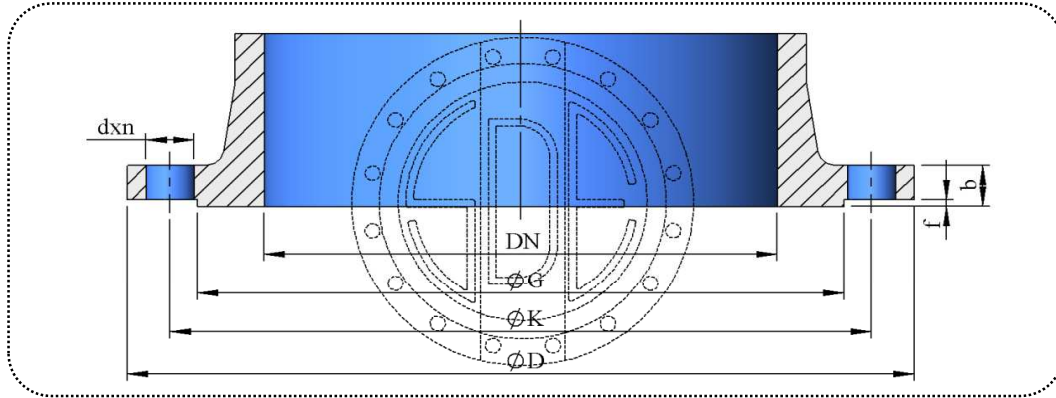
There is no need for maintenance for these valves that are installed especially in clean water pipe-line. If it is uninstalled, we recommend cleaning inside.

## FLAP VALVE



MATERIAL						DIMENSIONS					
No	Name	Material	Description	EN Standard	Material No	DN	Kg				
							PN 10	PN 16			
1-2	Body and Disc	GGG 40	Ductile Iron	EN-GJS-450-15	0.7040	200	19	19			
		GGG 50		EN-GJS-500-7	0.7050						
		304	Stainless Steel Casting	G - X6CrNi 18-9	1.4308				250	27	27
		316		G - X6CrNiMo 18-10	1.4408				300	38	39
		CC 331G-GS	Alüminyum Bronze	CuAl10Fe2-C	2.0940.01				350	48	52
3	Bearing	CC 331G-GS	Alüminyum Bronze	CuAl10Fe2-C	2.0940.01	400	59	66			
4	Shaft	420	Stainless Steel	X20Cr13	1.4021	450	71	84			
		304		X5CrNi 18-10	1.4301	500	87	110			
		316		X5CrNiMo17-12-2	1.4401	550	108	139			
		431		X17CrNi16-2	1.4057	600	131	170			
5	Disc Seat	GGG 40	Sfero Döküm	EN-GJS-450-15	0.7040	650	157	188			
		GGG 50		EN-GJS-500-7	0.7050	700	185	207			
		316 L	Stainless Steel Welding	12072	1.4430	750	218	243			
		CuAl8	Aluminium Bronze Welding	14640 S Cu 6100	2.0921	800	254	280			
6	Body Seat	GGG 40	Ductile Iron	EN-GJS-450-15	0.7040	900	323	357			
		GGG 50		EN-GJS-500-7	0.7050	1.000	419	478			
		316 L	Stainless Steel Welding	12072	1.4430	1.050	470	530			
		CuAl8	Aluminium Bronze Welding	14640 S Cu 6100	2.0921	1.100	525	585			
		NBR - EPDM	Rubber	-	-	1.200	651	747			
Coating		WRAS approved fusion bonded epoxy. 300 microns dft as standard.				1.300	777	854			
						1.400	873	970			
Maximum allowable working temperature for all types of our valves is 80 degrees Celcius.						1.500	1.016	1.181			
						1.600	1.215	1.369			
						1.700	1.373	1.548			
						1.800	1.549	1.743			
						1.900	1.769	1.989			
						2.000	1.996	2.243			

## FLANGE DIMENSIONS



Nominal Dia	Outside Dia	Raised Face		Flange Holes			Flange Thickness	Outside Dia	Raised Face		Flange Holes			Flange Thickness
DN	D	G	f	K	d	n	b	D	G	f	K	d	n	b
PN 10								PN 16						
100	220	158	3	180	19	8	19	220	158	3	180	19	8	19
125	250	188	3	210	19	8	19	250	188	3	210	19	8	19
150	285	212	3	240	23	8	19	285	212	3	240	23	8	19
200	340	268	3	295	23	8	20	340	268	3	295	23	12	20
250	395	320	3	350	23	12	22	405	320	3	355	28	12	22
300	445	370	4	400	23	12	25	460	378	4	410	28	12	25
350	505	430	4	460	23	16	25	520	438	4	470	28	16	27
400	565	482	4	515	28	16	25	580	490	4	525	31	16	28
450	615	532	4	565	28	20	26	640	550	4	585	31	20	30
500	670	585	4	620	28	20	27	715	610	4	650	34	20	32
600	780	685	5	725	31	20	30	840	725	5	770	37	20	36
700	895	800	5	840	31	24	33	910	795	5	840	37	24	40
800	1.015	905	5	950	34	24	35	1.025	900	5	950	41	24	43
900	1.115	1.005	5	1.050	34	28	38	1.125	1.000	5	1.050	41	28	47
1.000	1.230	1.110	5	1.160	37	28	40	1.255	1.115	5	1.170	44	28	50
1.200	1.455	1.330	5	1.380	41	32	45	1.485	1.330	5	1.390	50	32	57
1.400	1.675	1.535	5	1.590	44	36	46	1.685	1.530	5	1.590	50	36	59
1.500	1.785	1.640	5	1.700	44	36	48	1.820	1.640	5	1.710	57	36	63
1.600	1.915	1.760	5	1.820	50	40	49	1.930	1.750	5	1.820	57	40	65
1.800	2.115	1.950	5	2.020	50	44	52	2.130	1.950	5	2.020	57	44	69
2.000	2.325	2.150	5	2.230	50	48	55	2.345	2.150	5	2.230	62	48	73
2.200	2.550	2.370	5	2.440	57	52	59	2.555	2.360	5	2.440	62	52	80
PN 25								PN 40						
100	235	162	3	190	23	8	19	235	162	3	190	23	8	19
125	270	188	3	220	28	8	19	270	188	3	220	28	8	24
150	300	218	3	250	28	8	20	300	218	3	250	28	8	26
200	360	278	3	310	28	12	22	375	285	3	320	31	12	30
250	425	335	3	370	31	12	25	450	345	3	385	34	12	35
300	485	395	4	430	31	16	28	515	410	4	450	34	16	40
350	555	450	4	490	34	16	30	580	465	4	510	37	16	44
400	620	505	4	550	37	16	32	660	535	4	585	41	16	48
450	670	548	4	600	37	20	34	685	560	4	610	41	20	50
500	730	615	4	660	37	20	37	755	615	4	670	44	20	52
600	845	720	5	770	41	20	42	890	735	5	795	50	20	58
700	960	820	5	875	44	24	47	995	840	5	900	50	24	63
800	1.085	930	5	990	50	24	51	1.140	960	5	1.030	57	24	68
900	1.185	1.030	5	1.090	50	28	56	1.250	1.070	5	1.140	57	28	73
1.000	1.320	1.140	5	1.210	57	28	60	1.360	1.180	5	1.250	57	28	80
1.200	1.530	1.360	5	1.420	57	32	69	1.575	1.385	5	1.460	62	32	88
1.400	1.755	1.570	5	1.640	62	36	74	1.795	1.600	5	1.680	62	36	98
1.500	1.865	1.680	5	1.750	62	40	75	1.910	1.700	5	1.790	70	40	102
1.600	1.975	1.790	5	1.860	62	40	81	2.025	1.815	5	1.900	70	40	108
1.800	2.195	2.000	5	2.070	70	44	88							
2.000	2.425	2.230	5	2.300	70	48	95							