



Valves & Fittings





Double Flanged Bi-Directional Butterfly

Double Flanged, Bi-Directional, Double Eccentric, Gear operated Butterfly Valves to EN 593 (Replaces BS5155 & DIN 3354), AWWA C 207, DWS 2510 & SANS 1849. Gearboxes are Self locking close machined backlash free with ISO mounting flanges suitable for direct Actuator mounting. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Blade seal, SS seal retainer. Sizes from DN150 to DN2500 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Butterfly Hydraulic Check Valve

Double Flanged, Bi-Directional, Double Eccentric, Hydraulic operated Butterfly-Check Valves. EN 593 (Replaces BS5155 & DIN 3354), AWWA C 207, DWS 2510 & SANS1849. Hydraulic unit to suit client requirements. Valves feature FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Blade seal, SS seal retainer. Sizes from DN300 to DN1200 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Overspeed / Burst Control

Double Flanged, Bi-Directional, Double Eccentric, Hydraulic operated Butterfly-Check Valves. EN 593 (Replaces BS5155 & DIN 3354), AWWA C 207, DWS 2510 & SANS1849. Hydraulic unit to suit client requirements. Valves feature FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Blade seal, SS seal retainer. Sizes from DN300 to DN1200 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Tilting Disc Check Valve

Tilting Disc Check Valves. External Lever & Weight. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Blade seal, SS seal retainer. Optional Hydraulic Damper. Sizes from DN100 to DN1000 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Tilting Disc Check Valve

Tilting Disc Check Valves with adjustable Hydraulic damper. External Lever & Weight. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Blade seal, SS seal retainer. Sizes from DN100 to DN1000 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Slanted Seat Check Valve

Slanted Seat Check Valves. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Disc seal, SS seal retainer (Metal to metal option available). Sizes from DN100 to DN1000 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Slanted Seat with Lever & Weight

Slanted Seat Check Valves. External Lever & Weight and Hydraulic damper. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Disc seat, SS seal retainer (Metal to metal option available). Sizes from DN100 to DN1000 in pressure ratings PN10 to PN40. Flanged to clients requirements.



Silent Check

Silent Check Valves. FBE coated SG42 Body and Disc. Stainless Steel weld deposited ground & micro-finished body seat, EPDM Disc seal, SS seal retainer. Sizes from DN100 to DN1000 in pressure ratings PN10 to PN25. Flanged to clients requirements. Valves are suitable for direct mounting after a pump or bend.



Needle Valve

Needle (Plunger) valves. The piston and crank mechanism are located in teardrop shaped internal body. The piston is axially guided inside the internal body. The linear movement of the piston changed the cross section. Suitable for Reservoir Inlets, Flow Control, Pipe Burst Safety valve, Treatment Flow Control, Pressure Regulating and Turbine by-pass. Optional downstream Anti cavitation devices as required by the application. PN10 to PN40, Sizes DN200 to DN1600.



Nozzle Check Valve

This unique range is available in a range of configurations to suit virtually any application. Pressure PN10 to Class ANSI 2500 (PN400), sizes up to DN2200. Materials and Trim to suit the application. NOREVA Check valves have a proven record in reducing the effects of damaging water hammer. Full details on request. Valves are suitable for direct mounting after a pump or bend.



CO-Axial Check Valve

ERV Co-Axial wafer check valves. FBE coated SG iron body, 304 SS disc, EPDM 'O' ring seal, PN10 to PN40. Size range DN80 to DN500, Valves are suitable for direct mounting after a pump or bend.



DVD Wedge Gate Valves

DVD Wedge Gate Valves Sizes 50NB to 1200NB, PN10 to PN40. FBE coated SG iron or Cast Steel. Wide range of trims. Hand wheel, gearbox or actuated to client requirements.



BALEM BALEM

BALEM Valves. Mechanical Type Level Control valves. Available in full Stainless Steel and Chrome plated brass with SS lever and Float. Sizes from DN15 to DN50. Screwed BSP Female.



Balem Pistek

BALEM PISTEK. Angle Pattern Hydraulic Level Control Valves for end line service. Valves feature a unique Piston design requiring no more than 1m to open fully. FBE coated Cast Iron Body with SS trim. Chrome plated brass BALEM pilot and Hot Dip galvanised discharge pipe. (This valve is offered with an optional adjustable BI-Level Pilot). Sizes from DN65 to DN250.PN10. FlangedBS4504Table10.



Balem Combi

BALEM COMBI. PN10. Compact Hydraulic Type End Line Level Control valves. Available in full Stainless Steel and Bronze with SS lever and Float. Screwed BSP male. Sizes from DN15 to DN80.



OOVAL

OOVAL. An innovative range of diaphragm operated Hydraulic Control Valves. Optional Pilots for Rate of Flow, Pressure reducing and Solenoid operation. Available in High strength corrosion free Glass reinforced Nylon and FBE coated SG iron. Sizes from DN25 to DN300, PN16. Flanged, screwed and quick coupling versions.



ERV FHC Hydraulic Control Valve

ERV FHCV Hydraulic Control Valves. Globe type, FBE coated SG42 Body/bonnet, SS trim. Optional Pilots for Rate of Flow, Pressure relief/sustaining, Booster Pump and Pressure reducing. Sizes from DN50 to DN600, PN10 to PN40. Flanges to suit pressure rating.



RSV

A comprehensive range of Resilient Seal Gate Valves, Ball Check Valves and Swing Check Valves.PN10 to PN25. RSV valves up to 1200NB.



ARI D060HFNS

ARI D060HFNS. Anti Shock Air Release & Vacuum Break Valves for potable water. Fusion Bond Epoxy Coated SG42 body/bonnet. EPDM trim. Sizes DN25 to DN200, PN10 to PN40,



ARI SAAR

ARI SAAR. Air Release & Vacuum Break Valves for sewage and slurry pipelines. Sizes DN25 to DN200, PN16. Available in various materials of construction, screwed and flanged.



ARI Barak

ARI BARAK. Air Release & Vacuum Break Valves for potable water. Sizes DN25 to DN50, PN16/25. Glass reinforced nylon body with optional vandal proof metal external casing, screwed BSP.



ARI D070 Dynamic

ARI D-070 Dynamic Air Release & Vacuum Break Valve. The D-070 Combination Dynamic Air Valve is a unique valve operating without a float, utilizing the rolling diaphragm principle. This unique design allows the dynamic valves to release air from the system in a controlled and gradual manner alleviating surge and water hammer. Sizes DN50 to DN200. PN1600.



ERV Uni Directional Knife Gate

ERV UNI-DIRECTIONAL KNIFE GATE VALVE. Wafer Pattern General Purpose Uni-Directional Knife valve, FBE coated Cast Iron body, SS blade, EPDM seal. Sizes from DN50 to DN300, PN10, Suitable for bolting between BS4504 Table 10 flanges only. (NOTE: All Knife Gate valves have severe unbalanced pressure limitations – details on request).



ERV BI Directional Knife Gate

ERV BVC BI-DIRECTIONAL KNIFE GATE VALVE. Wafer Pattern General Purpose Bi-Directional "Pocket-less" Knife Gate valve, FBE coated SG Iron body, (alternatively in full SS) SS precision surface ground blade, EPDM seal. Sizes from DN50 to DN1000, PN10, Suitable for bolting between flanges. (NOTE: All Knife Gate valves have severe unbalanced pressure limitations – details on request) This valve is available with a large number of options such as rubber lining, Ni-Hard deflector cones etc.



Clampon

CLAMPON A unique range of Pinch Valves suitable for slurries and waste water. The valves are interchangeable with Diaphragm Valves and feature a split body arrangement facilitating ease of sleeve replacement. Sleeve Polymers to suit a wider range of applications. Size range DN50 to DN400. PN10 to PN25.



Karon Fixed Cone

KARON FIXED CONE VALVE. Double Flanged, Sizes from DN100 to DN3000 in pressure ratings PN10 to PN40, commonly used as a turbine bypass valve. Linear flow control. Zero vibration and high discharge coefficient of 0.86.



Karon Multi Sleeve

KARON MULTI SLEEVE VALVE. Double Flanged, Sizes from DN100 to DN3000 in pressure ratings PN10 to PN40. Ultimate in control valve, regulate pressure or control flow without any operating limitation. Extremely short face to face dimensions.



ERV End Line Fabricated Flap

ERV End line fabricated Flap Valve. Fabricated from Mild Steel or Stainless Steel. Fusion Bond Epoxy Coated or Hot Dip Galvanised corrosion protection. Sizes DN50 to DN1200.



ERV Jet Dispenser

ERV Jet Dispenser. FBE coated steel, Size 100NB to 300NB. Used on the discharge side of scour valve piping. Flanged to client requirements.



ERV Basket Strainer

ERV Basket Strainer. Fabricated from Mild Steel Fusion Bond Epoxy coated or Hot Dip Galvanised. Stainless steel Screen. Optional "Blow Down" Facility. Sizes DN300 to DN600, PN10 to PN25.



ERV Wafer Pattern Butterfly

ERV Wafer pattern Butterfly Valves. Valves feature a replaceable Cartridge liner, Positive drive disc to shaft connection. Wide choice of Discs materials such as 304SS, Nickle Plated CI, Aluminium Bronze etc. Liners in EPDM, NBR, Viton & PTFE. Operated by Lever, Gearbox, Pneumatic or Electric Actuator. Size range DN50 to DN1000. PN10 to PN25.



ERV ZD Rubber Lined Double Off Set Butterfly Valve

ERV ERL Double Flanged Butterfly Valve, Gearbox operated. Double Offset offset disc. SG42 body/disc. Internally Ebonite rubber lined body & disc, SS Disc seal retainer, EPDM disc seal. Suitable for low PH water. Pressure ratings PN16. Sizes DN50 to DN1200.



ERV Centric Double Flanged Butterfly Valve

ERV Centric Double flanged Butterfly Valve. Valves feature a vulcanised rubberliner, Discs materials such as 304SS, Nickle Plated CI & Aluminium Bronze. Liners in EPDM, NBR & Viton. Operated by Gearbox, Pneumatic or Electric Actuator. Sizes DN50 to DN1200. Pressure PN16.



ERV Center Line U Flange Butterfly Valve

ERV Centre Line U Flange Type Butterfly Valve. Valves feature a replaceable Cartridge liner, Positive drive disc to shaft connection. Wide choice of Discs materials such as 304SS, Nickle Plated CI & Aluminium Bronze. Liners in EPDM, NBR & Viton. Operated by Gearbox, Pneumatic or Electric Actuator. Sizes DN200 to DN1200. Pressure PN16.



ERV Wafer Pattern Double Door Check

ERV Wafer Pattern Double Door Check Valves. Body materials FBE coated caast Iron. 316SS & Aluminium bronze. Disc material 316SS, Nickel plated CI, Aluminium Bronze. Body Sizes DN50 to DN1000. PN10 to PN40.



ERV Wafer Pattern Single Door Check

ERV Wafer Pattern Single Door Check Valves. Body materials FBE coated Cast Iron, 316SS & Aluminium Bronze. Discs materials in 304SS, Nickel Plated CI & Aluminium Bronze. Body Sizes DN50 to DN600. PN10 to PN25.

Flange Drilling Table

Valve sizes in inches and mm		BS 10 Table D				BS 10 Table E				BS 10 Table F				BS 10 Table H			
		No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.
1/2"	15	4	14	67	95	4	14	67	95	4	14	67	95	4	17	83	114
3/4"	20	4	14	73	102	4	14	73	102	4	14	73	102	4	17	83	114
1"	25	4	14	83	114	4	14	83	114	4	17	87	121	4	17	87	121
1 1/4"	32	4	14	87	121	4	14	87	121	4	17	98	133	4	17	98	133
1 1/2"	40	4	14	98	133	4	14	98	133	4	17	105	140	4	17	105	140
2"	50	4	17	114	152	4	17	114	152	4	17	127	165	4	17	127	165
2 1/2"	65	4	17	127	165	4	17	127	165	8	17	146	184	8	17	146	184
3"	80	4	17	146	184	4	17	146	184	8	17	165	203	8	17	165	203
4"	100	4	17	178	216	8	17	178	216	8	17	191	229	8	17	191	229
5"	125	8	17	210	254	8	17	210	254	8	22	235	279	8	22	235	279
6"	150	8	17	235	279	8	22	235	279	12	22	260	305	12	22	260	305
8"	200	8	17	292	337	8	22	292	337	12	22	324	368	12	22	324	368
10"	250	8	22	356	406	12	22	356	406	12	25	381	432	12	25	381	432
12"	300	12	22	406	457	12	25	406	457	16	25	438	489	16	25	438	489

Valve sizes in inches and mm		BS EN 1092-1 Table 10				BS EN 1092-1 Table 16				BS EN 1092-1 Table 25				BS EN 1092-1 Table 4-			
		No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.
1/2"	15	4	14	65	95	4	14	65	95	4	14	65	95	4	14	65	95
3/4"	20	4	14	75	105	4	14	75	105	4	14	75	105	4	14	75	105
1"	25	4	14	85	115	4	14	85	115	4	14	85	115	4	14	85	115
1 1/4"	32	4	18	100	140	4	18	100	140	4	18	100	140	4	18	100	140
1 1/2"	40	4	18	110	150	4	18	110	150	4	18	110	150	4	18	110	150
2"	50	4	18	125	165	4	18	125	165	4	18	125	165	4	18	125	165
2 1/2"	65	4	18	145	185	8*	18	145	185	8	18	145	185	8	18	145	185
3"	80	8	18	160	200	8	18	160	200	8	18	160	200	8	18	160	200
4"	100	8	18	180	220	8	18	180	220	8	22	190	235	8	22	190	235
5"	125	8	18	210	250	8	18	210	250	8	26	220	270	8	26	220	270
6"	150	8	22	240	285	8	22	240	285	8	26	250	300	8	26	250	300
8"	200	8	22	295	340	12	22	295	340	12	30	310	360	12	30	320	375
10"	250	12	22	350	395	12	26	355	405	12	33	370	425	12	33	385	450
12"	300	12	22	400	445	12	26	410	460	16	33	430	485	16	33	450	515
14"	350	16	22	460	505	16	26	470	520	16	36	490	555	16	36	510	580
16"	400	16	26	515	565	16	30	525	580	16	39	550	620	16	39	585	660
18"	450	20	26	565	615	20	30	585	640	20	39	600	670	20	39	610	685
20"	500	20	26	620	670	20	33	650	715	20	42	660	730	20	42	670	755
24"	600	20	30	725	780	20	36	770	840	20	48	770	845	20	48	795	890
28"	700	24	30	840	895	24	36	840	910								
32"	800	24	33	950	1015	24	39	950	1025								
36"	900	28	33	1050	1115	28	39	1050	1125								
40"	1000	28	36	1160	1230	28	42	1170	1255								
48"	1200	32	39	1380	1455	32	48	1390	1485								

* The flanges in this DN and PN may be supplied with 4 holes.

SANS 1123 (Drillings that differ from BS EN 1092-1)

Valve sizes in inches and mm		SANS 1123/2011 1000				SANS 1123/2011 1600				SANS 1123/2011 2500				SANS 1123/2011 4000			
		No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.
10"	250	12	22	350	395	12	26	355	405	12	26	370	425	12	33	385	450
18"	450	20	26	565	615	20	26	585	640	20	33	600	670	20	39	610	68
24"	600	20	26	725	780	20	33	770	840	20	39	770	845				
28"	700	24	26	840	895	24	33	840	910								
40"	1000	28	33	1160	1230	28	39	1170	1255								
48"	1200	32	39	1380	1455	32	45	1390	1485								

Valve sizes in inches and mm		ANSI 150				ANSI 300				ANSI 600				COLD WORKING PRESSURE RATING			
		No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	No of Holes	Hole Dia.	P.C.D.	Flange O.D.	DIN PN	CWP kPa	ANSI	CWP kPa
1/2"	15	4	16	60	89	4	16	67	95	4	16	67	95	10	1000	CL125	1250
3/4"	20	4	16	70	98	4	19	83	117	4	19	83	117	16	1600	CL150	1950
1"	25	4	16	79	108	4	19	89	124	4	19	89	124	25	2500	CL300	5100
1 1/4"	32	4	16	89	117	4	19	98	133	4	19	98	133	40	4000	CL600	10000
1 1/2"	40	4	16	98	127	4	22	114	156	4	22	114	156	64	6400	CL900	14900
2"	50	4	19	121	152	8	19	127	165	8	19	127	165	100	10000	CL1500	25000
2 1/2"	65	4	19	140	178	8	22	149	191	8	22	149	191	There is a different method used for determining Press/Temp. Ratings for DIN & ANSI class ratings above are all at 20 degrees C	BS 10 T		
3"	80	4	19	152	191	8	22	168	210	8	22	168	210		T (D)	700	
4"	100	8	19	191	229	8	22	200	254	8	25	216	273		T (E)	1380	
5"	125	8	22	216	254	8	22	235	279	8	29	267	330		T (F)	2050	
6"	150	8	22	241	279	12	22	270	318	12	29	292	356		T (H)	3450	
8"	200	8	22	298	343	12	25	330	381	12	32	349	419		If in doubt please ask.		
10"	250	12	25	362	406	16	29	387	445	16	35	432	508				
12"	300	12	25	432	381	16	32	451	521	20	35	489	559				

Uni-Flo Wafer Pattern Semi Lug Butterfly Valves. Pn16. Unique Cartridge Type Liner.

PART	MATERIALS (STOCK ITEMS)	OPTIONAL MATERIALS
BODY	CAST IRON	STAINLESS STEEL
**SEAT	BUNA-N OR EPDM	PTFE, HYPALON
DISC	NI PL DUCTILE IRON ALT 304 SS	316 SS, ALU-BRONZE
SHAFT	SS410	316 SS, MONEL
O-RING	BUNA-N	NONE



**TEMPERATURE MAX: EPDM-120oC, NBR-80oC, VITON-150oC, PTFE-180oC.

Torques (T) = NM. Shaft dimensions = Square (S) or round with Keyway = (R) , FM = mounting flange detail, Face to Face = F2F

DN	TORQUE T=N.M PN10/16	SHAFT SQ OR R IN MM	FM=NO OF HOLES X DIA X PCD	F2F	DN	TORQUE T=N.M PN10/16	SHAFT SQ OR R IN MM	FM=NO OF HOLES X DIA X PCD	F2F
50	10/13	SQ/11MM	4 X 9 X 70	43	250	164/262	SQ/22MM	4 X 11 X 102	68
65	12/15	SQ/11MM	4 X 9 X 70	46	300	203/264	SQ/22MM	4 X 11 X 102	78
80	16/21	SQ/11MM	4 X 9 X 70	52	350	432/562	R/31.6MM	4 X 18 X 140	78
100	23/30	SQ/11MM	4 X 9 X 70	56	400	622/870	R/33.15MM	4 X 18 X 140	87
125	41/53	SQ/14MM	4 X 9 X 70	56	450	830/1161	R/38MM	4 X 18 X 140	103
150	53/69	SQ/14MM	4 X 9 X 70	60	500	1036/1450	R/41.15	4 X 18 X 140	127
200	77/100	SQ/17MM	4 X 9 X 70	60	600	1313/1839	R/50/65MM	4 X 22 X 165	152

50NB to 450NB valves are suitable for bolting between T/D,T/10,T/16 flanges. 500NB & 600NB T/10, T/16 only, can be multi-drilled to T/D at extra cost.

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