



Valve Seating Torques (N.M)

GDVAL wafer & lug butterfly valve

SIZE	STANDARD DISC DIFFERENTIAL PRESSURE				
	50 PSI ΔP	75 PSI ΔP	100 PSI ΔP	150 PSI ΔP	200 PSI ΔP
DN50	13	13	13	14	16
DN65	14	14	14	16	18
DN80	20	21	21	22	24
DN100	32	34	35	37	40
DN125	49	52	54	58	62
DN150	76	81	85	99	102
DN200	137	145	154	173	192
DN250	215	232	249	286	323
DN300	314	343	371	429	490
DN350	401	434	466	550	625
DN400	499	565	632	755	846
DN450	653	742	831	1012	1131
DN500	837	965	1093	1350	1431
DN600	1308	1494	1679	2111	2301
DN700			3010	3272	
DN750	3200		3487	3767	
DN800			3963	4308	
DN900	4590		4913	5257	
DN1000	7788		8367	8926	
DN1050	7881		8433	9024	
DN1200	10915		11733	12555	

*The seat material is EPDM or NBR.

*All torque values shown on the chart are for "wet" (water and other non-lubricating media) on-off service. For "dry" service (non-lubricating, dry gas media), multiply values by 1.8. For "lubbed" service (clean, non-abrasive lubricating media), multiply values by 0.9. When sizing actuators for single valve applications, multiply values by 1.25. When sizing for 3-way ("tee") applications multiply values by 1.5.

* Under certain conditions, hydrodynamic torque can meet or exceed seating and unseating torques. When designing valve systems, hydrodynamic torque must be considered to help ensure correct selection of application.

GdVAL flanged butterfly valve

SIZE	STANDARD DISC DIFFERENTIAL PRESSURE		
	75 PSI ΔP	150 PSI ΔP	200 PSI ΔP
DN100	55	70	240
DN150	121	175	340
DN200	190	328	574
DN250	290	545	847
DN300	490	894	1358
DN350	804	1269	1905
DN400	1074	1534	2528
DN450	1328	2252	3508
DN500	1650	2694	4329
DN600	2489	4270	7396
DN700	3640	6425	9873
DN750		6660	11716
DN800	5143	9022	13765
DN900	6950	11877	19398
DN1000	9187	15630	22626
DN1200	8632	22688	33920
DN1400	22887	27762	63639
DN1600	26897	36978	93256
DN1800	36730	56668	126914
DN2200	50346	75006	
DN2400	65387	105000	
DN2600	92429	152737	
DN2800	145662		
DN3000	179296		

*The seat material is EPDM or NBR.

*All torque values shown on the chart are for "wet" (water and other non-lubricating media) on-off service.For "dry" service (non-lubricating,dry gas media),multiply values by 1.8. For "lubbed" service (clean,non-abrasive lubricating media),multiply values by 0.9.When sizing actuators for single valve applications,multiply values by 1.25.When sizing for 3-way ("tee") applications multiply values by 1.5.

* Under certain conditions,hydrodynamic torque can meet or exceed seating and unseating torques.When designing valve systems,hydrodynamic torque must be considered to help ensure correct selection of application.

GDVAL high performance butterfly valve

SIZE	STANDARD DISC DIFFERENTIAL PRESSURE		
	75 PSI ΔP	150 PSI ΔP	200 PSI ΔP
DN50	40	80	80
DN65	50	85	100
DN80	60	95	120
DN100	80	110	150
DN125	130	150	240
DN150	170	210	350
DN200	210	380	580
DN250	500	600	950
DN300	720	850	1450
DN350	850	1160	1850
DN400	1100	1500	2400
DN450	1480	1900	3050
DN500	1800	2500	3780
DN600	3100	3400	5430
DN700	3900	4500	7400
DN800	5000	6030	9650
DN900	7200	7650	12200
DN1000	9000	9500	15000
DN1200	12000	14000	21800
DN1400	16500	18500	29500
DN1600	23800	24200	38600
DN1800	28800	30050	48900
DN2000			

*The above torques do not include the safety factors.

*A safety factor of 1.3-1.5 is recommended.

GDVAL metal seal butterfly valve

SIZE	STANDARD DISC DIFFERENTIAL PRESSURE		
	75 PSI ΔP	150 PSI ΔP	200 PSI ΔP
DN50	80	100	100
DN65	85	120	120
DN80	95	150	150
DN100	110	210	210
DN125	180	290	320
DN150	250	430	460
DN200	430	680	720
DN250	680	1000	1100
DN300	970	1650	1800

*The above torques do not include the safety factors.

*A safety factor of 1.3-1.5 is recommended.

GDVAL VALVE