

# VALVE TORQUE



Torques* in Nm for													
DN	Rubber lined valves and Rubber seated Isolex and Nova valves								PTFE seated Isolex** valves			PTFE seated Nova valves	
	Max.Working Pressure ( $\Delta P$ )								Max.WP ( $\Delta P$ )			Max.WP ( $\Delta P$ )	
	3 bar	4 bar	6 bar	8 bar	10 bar	12 bar	16 bar	25 bar	10 bar	16 bar	25 bar	16 bar	25 bar
25	15	17	20	22	<b>25</b>	28	<b>30</b>	<b>50</b>	-	-	-	-	-
32	15	17	20	22	<b>25</b>	28	<b>30</b>	<b>50</b>	-	-	-	-	-
40	15	17	20	22	<b>25</b>	28	<b>30</b>	<b>50</b>	-	-	-	-	-
50	15	17	20	22	<b>25</b>	28	<b>30</b>	<b>50</b>	-	-	-	-	-
65	20	22	25	27	<b>30</b>	32	<b>35</b>	<b>55</b>	<b>40</b>	<b>45</b>	<b>75</b>	<b>45</b>	<b>75</b>
80	25	27	30	32	<b>33</b>	35	<b>40</b>	<b>65</b>	<b>40</b>	<b>50</b>	<b>80</b>	<b>50</b>	<b>80</b>
100	30	32	35	37	<b>40</b>	44	<b>50</b>	<b>80</b>	<b>50</b>	<b>60</b>	<b>95</b>	<b>60</b>	<b>95</b>
125	40	44	50	54	<b>60</b>	72	<b>90</b>	<b>150</b>	<b>75</b>	<b>110</b>	<b>180</b>	<b>110</b>	<b>180</b>
150	50	58	70	80	<b>90</b>	95	<b>130</b>	<b>210</b>	<b>110</b>	<b>160</b>	<b>250</b>	<b>160</b>	<b>250</b>
175	95	105	<b>135</b>	150	<b>165</b>	180	<b>200</b>	<b>320</b>	<b>200</b>	<b>240</b>	<b>380</b>	<b>240</b>	<b>380</b>
200	120	135	<b>160</b>	175	<b>190</b>	210	<b>240</b>	<b>380</b>	<b>230</b>	<b>290</b>	<b>460</b>	<b>290</b>	<b>460</b>
250	200	215	<b>240</b>	270	<b>300</b>	360	<b>440</b>	<b>690</b>	<b>360</b>	<b>530</b>	<b>830</b>	<b>530</b>	<b>830</b>
300	300	330	<b>400</b>	450	<b>500</b>	590	<b>700</b>	<b>1100</b>	<b>600</b>	<b>840</b>		<b>840</b>	<b>1320</b>
350	430	470	<b>650</b>	705	<b>760</b>	840	<b>1000</b>	<b>1570</b>	<b>920</b>	<b>1200</b>		<b>1200</b>	<b>1880</b>
400	580	670	<b>850</b>	1000	<b>1150</b>	1300	<b>1450</b>	<b>2270</b>	<b>1380</b>	<b>1740</b>		<b>1740</b>	<b>2720</b>
450	1100	1170	<b>1300</b>	1485	<b>1670</b>	1800	<b>2050</b>	<b>3210</b>	<b>2010</b>	<b>2460</b>		<b>2460</b>	<b>3850</b>
500	1400	1530	<b>1800</b>	1900	<b>2000</b>	2400	<b>2800</b>	<b>4380</b>	<b>2400</b>	<b>3360</b>		<b>3360</b>	<b>5250</b>
550	1700	1900	<b>2200</b>	2700	<b>2850</b>	3400	<b>3900</b>	<b>6100</b>	<b>3420</b>	<b>4680</b>		<b>4680</b>	<b>7320</b>
600	2000	2260	<b>2800</b>	3400	<b>4000</b>	4350	<b>5000</b>		<b>4800</b>	<b>6000</b>		<b>6000</b>	
650	3000	3400	<b>4000</b>	4500	<b>5000</b>	5300	<b>6400</b>		<b>6000</b>	<b>7680</b>		<b>7680</b>	
700	4000	4400	<b>5200</b>	5530	<b>5850</b>	6200	<b>7800</b>		<b>7020</b>	<b>9360</b>		<b>9360</b>	
750	4200	4950	<b>6200</b>	6550	<b>6900</b>	7550	<b>9500</b>		<b>8280</b>			<b>11400</b>	
800	4400	5450	<b>7600</b>	7900	<b>8200</b>	9000	<b>12800</b>		<b>9840</b>			<b>15360</b>	
900	6100	7500	<b>10600</b>	11550	<b>12500</b>	14000	<b>16500</b>		<b>15000</b>			<b>19800</b>	
1000	11400	12600	<b>15000</b>	17000	<b>19000</b>	20800	<b>23000</b>		<b>22800</b>			<b>27600</b>	
1200	14000	15800	<b>20500</b>	23500	<b>26000</b>	29500	<b>35000</b>		<b>31200</b>			<b>42000</b>	
1300	15000	22000	<b>22500</b>	26250	<b>30000</b>	34000	42000						
1350	15500	24000	<b>27000</b>	31500	<b>36000</b>	40000	48000						
1400	16000	27000	<b>30000</b>	36500	<b>43000</b>	47333	56000						
1500	20500	<b>33500</b>	36500	44750	53000	56333	63000						
1600	36000	<b>43000</b>	46500	57250	68000	69500	72500						
1800	42500	<b>47000</b>	55000										
2000	48000	<b>60000</b>	63500										

\*\* For WVFL-Isolex see Nova

Our Valves are produced in steps of max.seat-tightness of 4, 6, 10, 16 and 25 bar. Indicated by the **bold printed** torques.

Valve size	Shaft $\varnothing$ mm	Torque* regulating valves in Nm. Type: WWSK-70-3 / WWSK-70-3-K3 For shaft packing on upper shaft			Torque* regulating valves in Nm. Type: WWSK-70-3 / WWSK-70-3-K3 For O-ring seal on upper shaft		
		$\Delta P$ 0,5 bar	$\Delta P$ 2 bar	$\Delta P$ 5 bar	$\Delta P$ 0,5 bar	$\Delta P$ 2 bar	$\Delta P$ 5 bar
80	16	4	14	25	4	11	20
100	16	6	21	30	5	17	24
125	20	8	29	40	6	23	32
150	20	10	36	50	8	29	40
200	22	19	68	120	15	54	96
250	30	40	135	200	32	108	160
300	30	45	150	380	36	120	304
350	35	60	210	430	48	168	344
400	40	80	285	580	64	228	464
450	45	150	525	1100	120	420	880
500	45	200	735	1400	160	588	1120
600	60	225	810	1800	180	648	1440
700	70	300	1200	2800	240	960	2240

\* These torques are selection torques including the normal increase of torque at **favourable** circumstances. In case of severe circumstances by corrosion, deposits or chemical attack these torques may easily be **multiplied**.