



West Division

**Inland
Valve
Corporation**



**REGELTECHNIK
KORNWESTHEIM**

RTK 3100 Control Valve



Specifications

Body Assembly Globe, Angle

Valve Size: 1" (DN 25) to 16" (DN 400)

Pressure Class: 1" to 8" - 150# to 2500#
10" to 16" - 150# to 600#

End Connections: Socket Weld (<2")
Buttweld (>2")
RF
RTJ

Plug Type: MZ plug (UB)1
Contour Plug (UB)
Drilled Cone Plug (UB/PiB)
Standard Plug (PiB/PB)

Cage Type: Standard Ported Cage
LoNoise I & II
AntiCav I
Zick Twist

Flow Characteristic: Linear
Equal Percentage
Modified

Packing Type: Single/Double PTFE
Single/Double Graphite
Low Emission PTFE/Graphite

Body Material: A216 Gr WCC

Leakage Class: A352 Gr LCC

Actuation: A217 Gr WC6

A217 Gr WC9

Certifications/Compliance: A351 Gr CF8M

Class IV and Class V

Pneumatic

Electric

Electro-Hydraulic

Hydraulic

IBR-ANSI B16.34 NACE

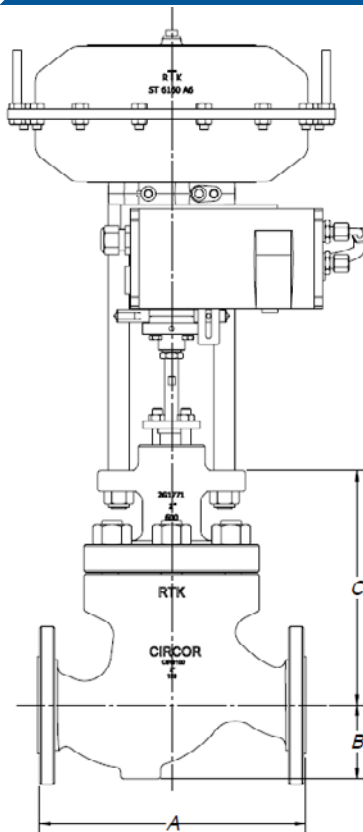
PED/CE

Flexible solutions for everyday process needs.

- 3100 Series and Reflex Series cover 2-way and 3-way applications
- Compact designs fit tight spaces without compromising performance
- Broad material and connection options for varied process needs
- Quick-change internal components for minimal downtime
- Reliable control for moderate pressure and temperature range



Trim Type	Trim Material	Max Service Temp	Cage/Seat Rtnr. Material	Plug & Seat Ring Material	Stem Material		Leakage Class
Post Guided (UB)	SS410	427°C / 800°F	SS410	SS410 Hardened	A479 TY316		IV & V
	DIN1.4122	593°C / 1100°F	DIN 1.4122	DIN 1.4122 Nitrided	DIN 1.4122 Nitrided		IV & V
Unbalanced Cage Guided (UB)	SS410	427°C / 800°	CA15 / SS410 Nitrided	CA15 / SS410 Nitrided	A479 TY316		IV & V
	SS316	427°C / 800°F	A351 CF8M Nitrided	A351 CF8M Nitrided	A479 TY316		IV & V
	SS316 ST	427°C / 800°F	A351 CF8M Nitrided	A351 CF8M Nitrided	A479 TY316		IV & V
	CA6NM Hi-Temp	538°C / 1000°F	ASTM A487 CA6NM Nitrided	ASTM A487 CA6NM Nitrided	ASTM A638 Gr 660 / Inconel X750		IV & V
Trim Type	Trim Material	Max Service Temp	Cage Material	Plug & Seat Ring Material	Stem Material	Plug Seal Material	Leakage Class
Plug Balanced – Cage Guided (PB)	SS410	427°C / 800°	CA15 / SS410 Nitrided	CA15 / SS410 Nitrided	A479 TY316	C300 Spring Loaded Seal 230°C / 446°F Max	V
						Flex Graphite 427°C / 800°F Max	IV
	SS316	427°C / 800°F	A351 CF8M Nitrided	A351 CF8M Nitrided	A479 TY316	C300 Spring Loaded Seal 230°C / 446°F Max	V
						Flex Graphite 427°C / 800°F Max	IV
	SS316 ST	427°C / 800°F	A351 CF8M Cr. Plated	A351 CF8M Stellite	A479 TY316	C300 Spring Loaded Seal 230°C / 446°F Max	V
						Flex Graphite 427°C / 800°F Max	IV
	CA6NM Hi-Temp	538°C / 1000°F	ASTM A487 CA6NM Nitrided	ASTM A487 CA6NM Nitrided	ASTM A638 Gr 660 / Inconel X750		IV
Trim Type	Trim Material	Max Service Temp	Cage Material	Plug & Seat Ring Material	Stem Material	Piston Ring Material	Leakage Class
Pilot Plug Balanced – Cage Guided (PiB)	SS410	427°C / 800°F	CA15 SS410 Nitrided	CA15 / SS410 Nitrided	A479 TY316	DIN 1.4086	IV & V
	CA6NM Hi-Temp	538°C / 1000°F	ASTM A487 CA6NM Nitrided	ASTM A487 CA6NM Nitrided	ASTM A638 Gr 660 / Inconel X750	DIN 1.4086	IV & V
	DIN 1.4122	593°C / 1099°F	DIN 1.4122	DIN 1.4122 Nitrided	DIN 1.4122 Nitrided	DIN 1.4086	IV & V



Raised Face (RF) DIMENSIONS Inches (mm)

		A						B						C			H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 600	900 ~ 1500	2500	150 ~ 600	900 ~ 1500	2500		
1 (25)		7.24 (184)	7.75 (197)	8.27 (210)	10.75 (273)		12.52 (318)	2.24 (57)			2.13 (54)		2.60 (66)	5.87 (149)	6.77 (172)	11.10 (282)	70.67 (1795)	71.57 (1818)	80.0 (2032)		
1.5 (40)		8.74 (222)	9.25 (235)	9.88 (251)	13.11 (333)		15.00 (381)	2.17 (55)			3.11 (79)		2.60 (66)	7.6 (193)	8.58 (218)	11.10 (282)	72.4 (1839)	73.38 (1864)	80.0 (2032)		
2 (50)	11.26 (286)	10 (254)	10.51 (267)	11.26 (286)	14.76 (375)		15.75 (400)	2.76 (70)			2.87 (73)		3.35 (80)	8.84 (225)		15.04 (382)	73.64 (1871)		83.93 (2132)		
3 (80)		11.73 (298)	12.52 (318)	13.27 (337)	17.36 (441)	18.11 (460)	19.61 (498)	3.54 (90)			3.54 (90)	3.77 (96)	3.94 (100)	11.14 (283)		15.04 (382)	75.94 (1929)		83.93 (2132)		
4 (100)		13.86 (352)	14.49 (368)	15.51 (394)	20.11 (511)	20.86 (530)	22.64 (575)	3.94 (100)			4.64 (118)	5.31 (135)	5.50 (140)	11.89 (302)		16.38 (416)	76.69 (1948)		85.27 (2166)		
6 (150)		17.76 (451)	18.62 (473)	20 (508)	28.11 (714)	30.23 (768)	32.25 (819)	5.91 (150)			6.77 (172)	7.28 (185)	6.70 (170)	14.1 (358)		17.00 (432)	78.9 (2004)		85.90 (2182)		
8 (200)		21.34 (543)	22.36 (568)	24.02 (610)	35.98 (914)	38.26 (972)	40.24 (1022)	7.6 (193)			8.66 (220)	9.5 (241)	10.63 (270)	16.78 (426)		20.47 (520)	78.39 (1991)		89.37 (2270)		
		A						B						C			H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 300	600	900	1500	150 ~ 300	600	900	1500
10 (250)		26.5 (673)	27.9 (708)	29.6 (752)	39.01 (991)	42.0 (1067)	-	9.7 (245)	9.3 (235)	11.71 (297)	11.71 (297)	12.73 (323)	-	22.7 (576)	23 (586)	24.31 (617)	26.43 (671)	84.31 (2142)	84.61 (2149)	93.18 (2367)	95.31 (2421)
12 (300)		29 (737)	30.5 (775)	32.2 (819)	44.48 (1130)	47.99 (1219)	-	10.6 (270)			13.30 (338)	14.19 (360)	-	23.9 (606)	24 (611)	27.5 (698)	29.86 (758)	85.51 (2172)	85.61 (2175)	96.37 (2448)	98.74 (2508)
16 (400)		40 (1016)	41.6 (1057)	43.6 (1108)	-	-	-	13.2 (334)	13.6 (345)	13.8 (350)	-	-	-	23.5 (599)		-	-	85.11 (2162)		-	-

Buttweld (BWE) DIMENSIONS in Inches (mm)

		A						B						C			H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 600	900 ~ 1500	2500	150 ~ 600	900 ~ 1500	2500		
1 (25)		8.27 (210)			10.98 (279)		12.52 (318)	2.24 (57)		2.13 (54)		2.60 (66)	5.87 (149)	6.77 (172)	11.10 (282)	70.67 (1795)	71.57 (1818)	80.0 (2032)			
1.5 (40)		9.88 (251)			12.99 (330)		12.52 (318)	2.17 (55)		3.11 (79)		2.60 (66)	7.6 (193)	8.58 (218)	11.10 (282)	72.4 (1839)	73.38 (1864)	80.0 (2032)			
2 (50)		11.25 (286)			14.8 (375)		12.52 (318)	2.76 (70)		2.87 (73)		3.35 (80)	8.84 (225)		15.04 (382)	73.64 (1871)		83.93 (2132)			
3 (80)		13.26 (337)			18.11 (460)		15 (381)	3.54 (90)		3.54 (90)	3.77 (96)	3.94 (100)	11.14 (283)		15.04 (382)	75.94 (1929)		83.93 (2132)			
4 (100)		15.5 (394)			20.9 (530)		16 (406)	3.94 (100)		4.64 (118)	5.31 (135)	5.50 (140)	11.89 (302)		16.38 (416)	76.69 (1948)		85.27 (2166)			
6 (150)		20 (508)			30.23 (768)		24 (610)	5.91 (150)		6.77 (172)	7.28 (185)	6.70 (170)	14.1 (358)		17.00 (432)	78.9 (2004)		85.90 (2182)			
8 (200)		24 (610)			32.75 (832)		30 (762)	7.6 (193)		8.66 (220)	9.5 (241)	10.63 (270)	16.78 (426)		20.47 (520)	78.39 (1991)		89.37 (2270)			
		A						B						C			H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 300	600	900	1500	150 ~ 300	600	900	1500
10 (250)		29.6 (752)			30.0 (762)		-	9.7 (245)		9.3 (235)	11.71 (297)	12.73 (323)	-	22.7 (576)	23 (586)	24.31 (617)	26.43 (671)	84.31 (2142)	84.61 (2149)	93.18 (2367)	95.31 (2421)
12 (300)		32.2 (819)			35.98 (914)		-	10.6 (270)		-	13.30 (338)	14.19 (360)	-	23.9 (606)	24 (611)	27.5 (698)	29.86 (758)	85.51 (2172)	85.61 (2175)	96.37 (2448)	98.74 (2508)
16 (400)		43.6 (1108)			-	-	-	13.6 (345)		13.8 (350)	-	-	-	23.5 (599)		-	-	85.11 (2162)		-	-

Ring Type Joint (RTJ) DIMENSIONS Inches (mm)

		A						B						C				H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 300	600	900 ~ 1500	2500	150 ~ 300	600	900 ~ 1500	2500	
1 (25)		7.75 (197)	8.27 (210)	8.27 (210)	10.75 (273)		12.52 (318)	2.24 (57)			2.13 (54)		2.60 (66)	5.87 (149)	6.77 (172)	11.10 (282)	11.10 (282)	70.67 (1795)		71.57 (1818)	80.0 (2032)	
1.5 (40)		9.25 (235)	9.76 (248)	9.88 (251)	13.11 (333)		15.12 (384)	2.17 (55)			3.11 (79)		2.60 (66)	7.6 (193)	8.58 (218)	11.10 (282)	11.10 (282)	72.4 (1839)		73.38 (1864)	80.0 (2032)	
2 (50)		10.5 (267)	11.14 (283)	11.37 (289)	14.88 (378)		15.87 (403)	2.76 (70)			2.87 (73)		3.35 (80)	8.84 (225)		15.04 (382)		73.64 (1871)		83.93 (2132)		
3 (80)		12.24 (311)	13.12 (334)	13.4 (340)	17.5 (444)	18.22 (463)	19.84 (504)	3.54 (90)			3.54 (90)	3.77 (96)	3.94 (100)	11.14 (283)		15.04 (382)		75.94 (1929)		83.93 (2132)		
4 (100)		14.37 (365)	15.1 (384)	15.62 (397)	20.23 (514)	21 (533)	23 (585)	3.94 (100)			4.64 (118)	5.31 (135)	5.50 (140)	11.89 (302)		16.38 (416)		76.69 (1948)		85.27 (2166)		
6 (150)		18.26 (464)	19.25 (489)	20.11 (511)	28.22 (717)	30.5 (774)	32.76 (832)	5.91 (150)			6.77 (172)	7.28 (185)	6.70 (170)	14.1 (358)		17.00 (432)		78.9 (2004)		85.90 (2182)		
8 (200)		21.9 (556)	23 (584)	24.13 (613)	36.1 (917)	38.7 (982)	40.87 (1038)	7.6 (193)			8.66 (220)	9.5 (241)	10.63 (270)	16.78 (426)		20.47 (520)		78.39 (1991)		89.37 (2270)		
		A						B						C				H (1) (Max Overall Height)				
SIZE	NPT	150	300	600	900	1500	2500	150	300	600	900	1500	2500	150 ~ 300	600	900	1500	150 ~ 300	600	900	1500	
10 (250)		27 (686)	28.5 (724)	29.7 (755)	39.13 (994)	42.40 (1133)	-	9.7 (245)			9.3 (235)	11.71 (297)	12.73 (323)	-	22.7 (576)	23 (586)	24.31 (617)	26.43 (671)	84.31 (2142)	84.61 (2149)	93.18 (2367)	95.31 (2421)
12 (300)		29.5 (750)	31.1 (791)	32.4 (822)	44.60 (1077)	48.62 (1235)	-	10.5 (270)			13.30 (338)	14.19 (360)	-	23.9 (606)	24 (611)	27.5 (698)	29.86 (758)	85.51 (2172)	85.61 (2175)	96.37 (2448)	98.74 (2508)	
16 (400)		40.5 (1029)	42.2 (1073)	43.7 (1111)	-	-	-	13.2 (334)	13.6 (345)	13.8 (350)	-	-	-	23.5 (599)		-	-	85.11 (2162)		-	-	

CV- Values of Unbalanced (UB), Top Guided								
Valve Size		Stroke		Rating		Low Flow Plug - Linear		
1 Inch - Micro Flow		20 mm		150~2500		0.12, 0.25, 0.5, 0.75, 1.25		
1.5 Inch - Micro Flow		20 mm		150~2500		0.25, 0.5, 0.75, 1.25		
1 & 1.5 Inch - MZ Plug		20 mm		150~2500		0.12, 0.25, 0.4		
1 & 1.5 Inch - MZ Plug		25 mm		150~2500		0.07, 0.1, 0.16, 0.3, 0.5, 0.75, 1, 1.6, 2		
CV- Values of Unbalanced (UB), Top Guided								
Valve Size	Stroke	Rating	Contour Plug Linear	Contour Plug Equal	Contour Plug Modified	Drilled Cone Linear	Drilled Cone Equal	Drilled Cone Modified
1 Inch (DN 25)	20 mm	150~1500	3.5, 6, 9, 11			3.5, 6, 9,11	3.5, 6	
1.5 Inch (DN 40)	20 mm	150~1500	3.5, 6, 9			3.5, 6, 9	3.5, 6	
	30 mm	150~1500	14, 23, 32			14, 23, 32	10	12
2 Inch (DN 50)	20 mm	150~1500	3.5, 9	3.5, 6		3.5, 6		
	30 mm	150~1500	14, 23			14, 23	10	12
	40 mm	150~1500	35, 45, 49			32, 45, 49	20, 27	20, 30
3 Inch (DN 80)	40 mm	150~1500	35, 49, 75, 95			32, 49, 75	27	30
	50 mm	150~1500	-			95	45	55
4 Inch (DN 100)	40 mm	150~1500	49, 75			49	-	
	50 mm	150~1500	110, 175			95	45	55
CV-Values of Plug Balanced (PB) & Pilot Balanced (PiB) – Cage Guided								
Valve Size	Stroke	Rating	Ported Cage Linear	Ported Cage Eq %	AntiCav I Linear	LoNoise I Linear	LoNoise II Linear	
2 Inch (DN 50)	40 mm	150~1500	30, 45, 60	27, 41, 54	34, 51	26, 43	18, 30	
3 Inch (DN 80)	50 mm	150~1500	62, 93, 124	56, 84, 112	61, 91	55, 86, 100	75, 90	
4 Inch (DN 100)	50 mm	150~1500	96, 144, 192	86, 130, 173	71, 112	86, 122, 160	100, 125	
6 Inch (DN 150)	60 mm	150~1500	180, 270, 360, 400	160, 240	162, 243, 324	159, 223, 303	140, 180	
8 Inch (DN 200)	75 mm	150~600	320, 480, 640	302, 454, 605	243, 350, 471, 578	276, 423, 551	220, 280	
		900~1500	288, 432, 576	272, 408, 544	213, 304, 411, 502	293, 440	200, 245	
10 Inch (DN 250)	100 mm	150~600	520, 780, 1040, 1300	440, 660, 880, 1100	365, 547, 750	411, 616, 792	360, 450	
12 Inch (DN 300)	100 mm	150~600	720, 1080, 1440, 1800	576, 864, 1152, 1440	426, 629, 831, 1095	469, 675, 909, 1114	450, 550	
16 Inch (DN 400)	125 mm	150~600	1240, 1860, 2300, 2800	920, 1380, 1840, 2300	735, 1115, 1470, 1749	871, 1271, 1707	675, 810	

CV-Values of Unbalanced (UB), Top Guided (2500#)								
Valve Size	Stroke	Rating	Contour Plug Linear	Contour Plug Equal	Contour Plug Modified	Drilled Cone Linear	Drilled Cone Equal	Drilled Cone Modified
1 Inch (DN 25)	20 mm	2500	3.5, 6, 9			3.5, 6, 9	3.5, 6	
1.5 Inch (DN 40)	20 mm	2500	3.5, 6, 9			3.5, 6, 9	3.5, 6	
	30 mm	2500	14			14	10	12
2 Inch (DN 50)	20 mm	2500	3.5, 9	3.5		3.5	3.5, 6	
	30 mm	2500	14, 23			14, 23	10	12
	40 mm	2500	35			32	20, 27	20, 30
3 Inch (DN 80)	20 mm	2500	3.5, 9	3.5		3.5	3.5, 6	
	30 mm	2500	14, 23			14, 23	10	12
	40 mm	2500	35, 45, 49			32, 45, 49	20, 27	20, 30
4 Inch (DN 100)	40 mm	2500	35, 49, 75, 95			32, 49, 75	27	30
	50 mm	2500	-			95	45	55
CV-Values of Plug Balanced (PB) & Pilot Balanced (PiB) – Cage Guided (2500#)								
Valve Size	Stroke	Rating	Ported Cage Linear		Ported Cage Eq %	AntiCav I Linear	LoNoise I Linear	LoNoise II Linear
2 Inch (DN 50)	40 mm	2500	30		27	34	26	18, 30
3 Inch (DN 80)	40 mm	2500	30, 45, 60		27, 41, 54	34, 51	26, 43	18, 30
4 Inch (DN 100)	50 mm	2500	62, 93, 124		56, 84, 112	61, 91	55, 86, 100	75, 90
6 Inch (DN 150)	50 mm	2500	96, 144, 192		86, 130, 173	71, 112	86, 122, 100	100, 125
8 Inch (DN 200)	60 mm	2500	180, 270, 360 400		160, 240, 320	162, 243, 324	159, 223, 303	140, 180

Brands Available from IVC



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IVC | **Inland Valve Corporation**
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