WHERE CANADA GOES FOR ALL THEIR INDUSTRIAL PROCESS NEEDS!

PREMIUM PROCESS SOLUTIONS
FROM PREMIUM MANUFACTURERS

CSQ
Conval Québec

RTK 3100 Control Valve

RTK 3100

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 A351 Gr CF8M
Certifications/Compliance:	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 connectuion options for varied procecss needs
- Quick-change internal components for minimal downtime
- Reliable control for moderate pressure and temperature range

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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 Stellited	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

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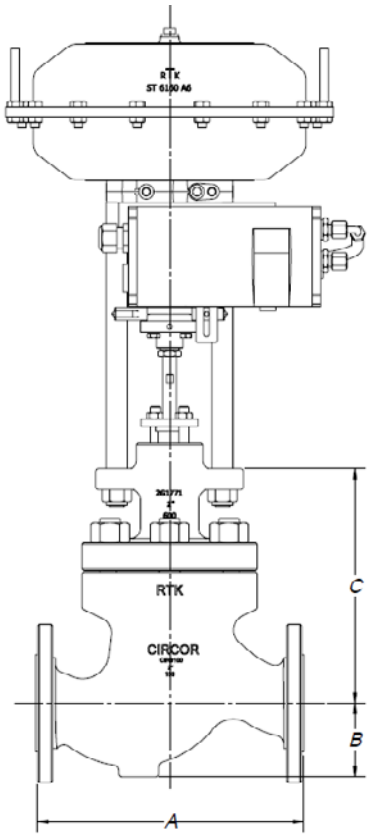

Raised Face (RF) DIMENSIONS Inches (mm)

		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)		-	-

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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)		-	-

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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

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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

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Conval Québec services Canadian industries coast to coast with high quality industrial process equipment including a complete line of manual and automated valves, actuation, fully lined pipe and fittings, strainers, filtration, spray nozzles, steam equipment and more.

Established in the 1940's, Conval Québec has grown to include several locations throughout the country. Our experienced staff strive to provide innovative, competitively priced solutions from premium manufacturers.

Our supplier partners manufacture products for a wide variety of industries including power, oil and gas, chemical, pharmaceutical, pulp and paper, food and beverage and many more.

Conval Québec is part of The PSS Group of Companies. We look forward to proving our value to you in the near future.

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