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MATTER MOST!



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FIRE PROTECTION

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About NCI Canada Inc.

Headquartered in the greater Toronto area, NCI Canada Inc. is an innovative, privately owned company that specializes in the development, manufacturing and distribution of high-quality valves, fittings, strainers and gauges. With over 20 years of industry experience, NCI Canada is recognized as one of Canada's leading master distributors of high-quality valves, fittings, strainers and gauges, and are proud to service wholesale, retail and OEM customers.

All NCI Canada high-quality valves, fittings, strainers and gauges are sold and supported through its network of authorized distributors and warehouses across Canada. NCI Canada stocks over 25,000 products within 150,000 sq feet of warehouse area in both central and western Canada.

With a large selection of high-quality valves, fittings, strainers and gauges products, NCI Canada services the

commercial construction, fire protection, HVAC, irrigation, pulp & paper, mining, water & wastewater, oil & gas, and power generation industries.

Our success in the high-quality valves, fittings, strainers and gauges industry is attributed primarily to our customer-centric team of sales personnel, service engineers and trained service staff that are collectively committed to providing quality products at a service and price you will come to love.

Contact NCI Canada today and discover the many ways we can help you and your organization with your high-quality valves, fittings, strainers and gauges needs.

Learn more at www.NCICanada.com

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Terms

BLV - Ball Valve	SB - Screw-in Bonnet
BFV - Butterfly Valve	SPEC - Specification
BRZ. - Bronze	SS - Stainless Steel
B.W. - Butt-Weld	STD - Standard
C.I. - Cast Iron (Gray Iron)	S.W. - Socket-weld
COP. - Copper	SWP - Steam Working Pressure
CS. - Carbon Steel	Temp - Temperature
CWP - Cold Working Pressure	Thrd - Threaded
D.I. - Ductile Iron	UB - Union Bonnet
°F - Degree Fahrenheit	WOG - Water-Oil-Gas Service
FF. FLG. - Flat Face Flange	WWP - Water Working Pressure
NRS - Non-Rising Stem	
OD - Outside Diameter	
OS&Y - Outside Screw & Yoke	
PSI - Pounds Per Square Inch	
RF. FLG. - Raised Face Flange	

Standards

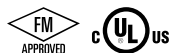
ANSI - American National Standards Institute
ASME - American Society of Mechanical Engineering
API - American Petroleum Institute
ASTM - American Society for Testing Material
AWWA - American Water Works Association
CSA - Canadian Standards Association
FM - Factory Mutual Fire Insurance Companies
MSS - Manufacturers Standardization Society of the Valve and Fittings Industry
NACE - The National Association of Corrosion Engineers
NFPA - National Fire Protection Association
NSF - National Sanitation Foundation, NSF/ANSI 61 Standard 61 for Potable Water Service
UL - Underwriters' Laboratories Inc.
ULC - Underwriters' Laboratories of Canada
UPC - Unified Plumbing Code by IAPMO

Fire Protection Products

Brass and Bronze Valves



NCI 2-Piece Brass Ball Valve
(T/S)FP600
150 SWP
• 600 CWP Size: 1/4"–2"
• 400 CWP Size: 2 1/2"–4"
• Threaded or Solder



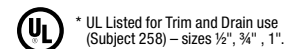
NIBCO 2-Piece Bronze Ball Valve
KT-585-70-UL / KT-580-70-UL
• 300 PSI Full Port, 1/4"–1"
• 300 PSI Standard Port, 1/4"–2"
• Threaded



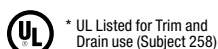
NIBCO Bronze Gate Valve
T-104-0
175 PSI, Outside Screwed & Yoke.
• Size: 1/2"–2" Threaded



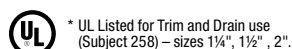
NIBCO Bronze Globe Valve
KT-65-UL
175 PSI, Screwed Over Bonnet, Rubber Disc.
• Size: 1/4"–1" Threaded



NIBCO Bronze Angle Valve
KT-67-UL
175 PSI, Screwed Over Bonnet, Rubber Disc.
• Size: 1/2"–1" Threaded



NIBCO Bronze Globe Valve
KT-211-W-UL
175 PSI, Screwed Over Bonnet, Rubber Disc.
• Size: 1 1/4"–3" Threaded



NIBCO Bronze Side Outlet 3-way Globe Valve
KT-291-W3
400 PSI, Screwed Over Bonnet, Rubber Disc.
• Size: 1/4" Threaded



NIBCO Bronze Angle Valve
T-301-W
175 PSI, Screwed Over Bonnet, Rubber Disc.
• Size: 1 1/4"–3" Threaded



NIBCO Bronze Swing Check Valve
KT-403-W
200 PSI, Horizontal Swing, Rubber Disc.
• Size: 1/2"–3" Threaded



NCI Bronze Swing Check Valve
CKVA-(T/S)BZ2361
300 PSI, Y-Pattern Design, Teflon Disc Ring, Integral Seat.
• Sizes 1/4"–3" Threaded



NCI Bronze Lift Check Valve
CKVB-TBZ2373
300 PSI, Spring Actuated In-Line Lift, NBR Disc Ring, Integral Seat.
• Sizes 1/2"–2" Threaded



NIBCO Bronze Lift Check Valve
T-480
250 PSI, Spring Actuated In-Line Lift, Buna-N Disc, Integral Seat.
• Sizes 1/2"–2" Threaded

Iron Valves



NCI Gate Valve
GTVAG-FDI3151-HW
300 PSI, Lead Free, D.I. Body, OS & Y, Resilient seated.
• Size: 2"-24" FLG x FLG
• AWWA515, NSF/ANSI 372



NCI Gate Valve
GTVAG-GDI3151-HW
300 PSI, Lead Free, D.I. Body, OS & Y, Resilient seated.
• Size: 2"-24" GRV x GRV
• AWWA515, NSF/ANSI 372



NCI Gate Valve
GTVBG-FDI3151-SN
300 PSI, Lead Free, D.I. Body, N.R.S., Resilient seated.
• Size: 2"-24" FLG x FLG
• AWWA515, NSF/ANSI 372



NCI Gate Valve
GTVBG-CDI3151-SN
300 PSI, Lead Free, D.I. Body, N.R.S., Resilient seated, Indicator Post Pattern.
• Size: 2"-24" FLG x GRV
• AWWA515, NSF/ANSI 372



NIBCO Gate Valve
F-607-RWS
300 PSI, Lead Free, D.I. Body, OS & Y, Bolted Bonnet, Solid Resilient Wedge.
• Size: 2½"-12" FLG x FLG
• AWWA509/515, NSF/ANSI 372



NIBCO Gate Valve
F-609-RW
300 PSI, Lead Free, D.I. Body, Resilient Wedge, Indicator Post Pattern.
• Size: 4"-12" FLG x FLG
• AWWA509/515, NSF/ANSI 372



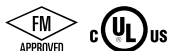
NIBCO Gate Valve
M-609-RW
300 PSI, Lead Free, D.I. Body, Resilient Wedge, Indicator Post Pattern.
• Size: 4"-12" FLG x Mechanical
• AWWA509/515, NSF/ANSI 372



NIBCO Gate Valve
F607-OTS
175 PSI, C.I. Body, OS & Y, Solid Wedge.
• Size: 2½"-12" FLG x FLG



NIBCO Gate Valve
F609/M609
175 PSI, C.I. Body, N.R.S., Solid Wedge, Indicator Post Pattern.
• Size: 4"-12" FLG or Mechanical



NIBCO Gate Valve
F-697-0
350 PSI, C.I. Body, OS & Y, Solid Wedge.
• Size: 2½"-10" FLG x FLG



NCI Riser Check Valve
CKVE-GD8351
350 PSI, D.I. Body, Shotgun Style, Bronze Seat.
• Size: 2"-8" Grooved



NCI Swing Check Valve
CKVA-GD8351
350 PSI, D.I. Body, Rubber Disc, Bronze Seat.
• Size: 2"-8" Grooved



Fire Protection Products



NIBCO Wafer Check Valve

KW-900-W-LF

250 PSI, Lead Free, D.I. Body.

- Size: 2½"–12" Wafer
- NSF/ANSI 372



NIBCO Wafer Check Valve

KW-900-W-LF

250 PSI, Lead Free, D.I. Body.

- Size: 14"–16" Wafer
- NSF/ANSI 372



NIBCO Grooved Check Valve

KG-900-W-LF

250 PSI, Lead Free, D.I. Body, Bronze Disc, Spring Actuated.

- Size: 2½"–12" Grooved
- AWWA C606, NSF/ANSI 372



NIBCO Grooved Check Valve

KG-900-W

350 PSI, Lead Free, D.I. Body, Bronze Disc, Spring Actuated.

- Size: 2½"–10" Grooved
- AWWA C606, NSF/ANSI 372

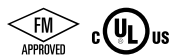


NIBCO Swing Check Valve

F-908-W

175 PSI, C.I. Body, Bolted Bonnet, Rubber Disc.

- Size: 2½"–12"
- FLG Connection



NIBCO Wall Indicator Post

NIP-3AJ

Wall indicator post for operating non-rising stem gate valves.



NIBCO Upright Adjustable Indicator Post

NIP-1AJEE

Adjustable upright indicator post for operating non-rising stem gate valves in buried service.



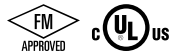
Butterfly Valves



NCI Bronze Butterfly Valve

BFVA-TB / GB 3941
300 PSI, Bronze Body, Viton Seat, Gear Operator with Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 1¼"–2½" Threaded or Grooved

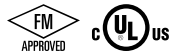


NIBCO Butterfly Valve (Normally Open)

GD-4865-8N

300 PSI, Polyamid Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–10" Grooved



NCI Butterfly Valve (Normally Open)

BFVAX-GD3551-TM2

300 PSI, Epoxy Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–10" Grooved





NIBCO Butterfly Valve (Normally Closed)

GD-4865-C-8N

300 PSI, Polyamid Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–10" Grooved



NCI Butterfly Valve (Normally Closed)

BFVAX-GD3551-CTM2

300 PSI, Epoxy Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–8" Grooved



NIBCO Butterfly Valve (Normally Open)

WD3510-4/8

250 PSI, D.I. Body, D.I. Disc, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2"–12" Wafer



NCI Butterfly Valve (Normally Open)

BFVAX-WD3551-TM2

300 PSI, Epoxy Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–8" Wafer



NIBCO Butterfly Valve (Normally Closed)

WD3510-C-8

250 PSI, D.I. Body, D.I. Disc, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–8" Wafer



NCI Butterfly Valve (Normally Closed)

BFVAX-WD3551-CTM2

300 PSI, Epoxy Coated D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

- Size: 2½"–8" Wafer



NIBCO Butterfly Valve

LD3510-4/8

250 PSI, D.I. Body, D.I. Disc, Flag Indicator, Includes 2 External Supervisory Switches, C.I. Class 125 & Steel Class 150 Drill.

- Size: 2"–12" Lug



NIBCO Butterfly Valve (Normally Closed)

LD3510-C-8

250 PSI, D.I. Body, D.I. Disc, Flag Indicator, Includes 2 External Supervisory Switches, C.I. Class 125 & Steel Class 150 Drill.

- Size: 2½"–8" Lug



NIBCO Butterfly Valve

GD6865-8N

350 PSI, D.I. Body, D.I. Disc with EPDM Coating, Flag Indicator, Includes 2 External Supervisory Switches.

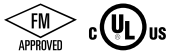
- Size: 2½"–8" Grooved



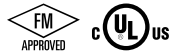
Steel Nipples and Weld Outlets



Sch.40 CS Pipe Nipples
Black / Galvanized



Sch.80 CS Pipe Nipples
Black / Galvanized



XXH CS Pipe Nipple
Black



Sch.40 CS Single Run Assortments
Black / Galvanized



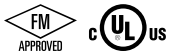
Sch.40 Tote Assortments
Black / Galvanized



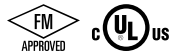
Class 300 Weld Outlet
61FT1
• Threaded x Bevel



Class 300 Weld Outlet
61CG1
• Grooved x Bevel



Adapter Nipple
61TG4
• Grooved x Threaded



Adapter Nipple
61GG4
• Grooved x Grooved



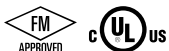
Adapter Nipple
61GG4
• Grooved x Bevel



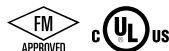
Grooved Couplings



Standard Flexible Coupling
GRCF0010 - 0120
• Size: 1"-12"



Standard Rigid Coupling
GRCR0010-0120
• Size: 1"-12"



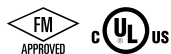
Heavy Duty Flexible Coupling
GRCF-H-0010-0120
• Size: 1"-12"





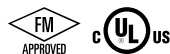
Heavy Duty Rigid Coupling
GRCR-H-0010-0120

• Size: 1"–12"



Reducing Coupling
GRRC2014-8060

• Size: 1½"–8"



Gasket Options

- EPDM -34°C ~ 150°C
- Silicon -40°C ~ 177°C
- Nitrile -29°C ~ 82°C

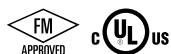


Grooved Elbows



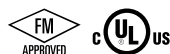
**90° Elbow
 Short Radius**
GRES0010-0120

• Size: 1"–12"



**90° Elbow
 Standard Radius**
GREL0010-0120

• Size: 1"–12"



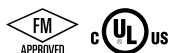
45° Elbow
GRE40010-0120

• Size: 1"–12"



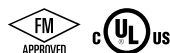
22 ½° Elbow
GRE20010-0120

• Size: 1"–12"



11 ¼° Elbow
GRE10010-0120

• Size: 1"–12"



Adapter Elbow
GRAE1204-2410

- Size: 1¼ x ½"–2½ x 1"
- Grooved x Threaded

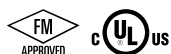


Grooved and Mechanical Tees



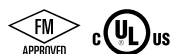
Tee Short Radius
GRTS0010-0120

• Size: 1"–12"



Tee Standard Radius
GRTL0010-0120

• Size: 1"–12"



Reducing Tee
GRTT/GRTG1210-6040

- Size: 1½" x 1"–6" x 4"
- Threaded & Grooved

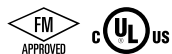


Fire Protection Products



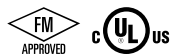
Mechanical Tee
GRMT1410-8040

- Size: 1½" x 1"–8" x 4"
- Threaded



Mechanical Tee
GRMG2010-8040

- Size: 2" x 1"–8" x 4"
- Grooved



Strap Tee
GRMU1004-2410

- Size: 1" x ½"–2½" x 1"
- Threaded

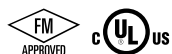


Grooved Reducers and Flanges



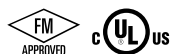
Concentric Reducer
GRRG1412-8050

- Size: 1½" x 1¼"–8" x 5"
- Grooved



Concentric Reducer
GRRT1410-8040

- Size: 1½" x 1"–8" x 4"
- Threaded



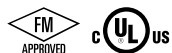
Eccentric Reducer
GRRE1412-8050

- Size: 1½" x 1¼"–6" x 5"



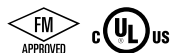
Hinged Flange
GRFL0020-0080

- Size: 2"–8"



Flange Adapter
GRFG0020-0012

- Size: 2"–12"
- Grooved



Flange Adapter
GRFT0020-0040

- Size: 2"–4"
- Threaded

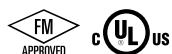


Grooved Caps and Cross



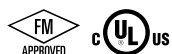
Cap
GRCP0010-0120

- Size: 1"–12"



Drain Cap
GRDC0020-0080

- Size: 2"–8"



Cross
GRCS0010-0120

- Size: 1"–12"



Pressure and Temperature Rating

Carbon Steel

A105 (A216 WCB CARBON STEEL)						
TEMP. (°F)	WORKING PRESSURE IN PSIG BY CLASS					
	150	300	600	900	1500	2500
-20 to 100	285	740	1480	2220	3705	6170
200	260	675	1350	2025	3375	5625
300	230	655	1315	1970	3280	5470
400	200	635	1270	1900	3170	5280
500	170	600	1200	1795	2995	4990
600	140	550	1095	1640	2735	4560
650	125	535	1075	1610	2685	4475
700	110	535	1065	1600	2665	4440
750	95	505	1010	1510	2520	4200
800	80	410	825	1235	2060	3430
850	65	270	535	805	1340	2230
900	50	170	345	515	860	1430
950	35	105	205	310	515	860
1000	20	50	105	155	260	430

Table from ANSI B16.34

Stainless Steel

A182 - F316 (A351 CF8M, CF3M STAINLESS STEEL)						
TEMP. (°F)	WORKING PRESSURE IN PSIG BY CLASS					
	150	300	600	900	1500	2500
-20 to 100	275	742	1440	2160	3600	6000
200	240	620	1240	1860	3095	5160
300	215	560	1120	1680	2795	4666
400	195	515	1030	1540	2570	4280
500	170	480	955	1435	2390	3980
600	140	450	905	1355	2255	3760
650	125	445	890	1330	2220	3700
700	110	430	865	1295	2160	3600
750	95	425	845	1270	2110	3520
800	80	415	830	1245	2075	3460
850	65	405	810	1215	2030	3320
900	50	395	790	1180	1970	3280
950	35	385	775	1160	1930	3220
1000	20	365	720	1090	1820	3030

Table from ANSI B16.34

Bronze Alloy

ASTM B62 AND B61 BRONZE ALLOY				
TEMP. (°F)	PRESSURE CLASS BY MATERIAL AND END STYLE			
	ASTM B62		ASTM B61	
	1252.3	1503	2003	3003
	Thread	Thread	Thread	Thread
-20 to 100	200	300	400	600
200	185	270	375	560
250	170	240	350	525
300	155	210	325	490
350	140	180	300	450
400	--	--	275	410
406	1251	1501	--	--
450	120	145	250	375
500	--	--	225	340
550	--	--	200	300

Table from MSS SP-80

- Some Codes (i.e. ASME BPVC, Section 1) limit the rating temperature of indicated material to 406°F.
- Buna-N disc valves limited to 180°F temperature.
- PTFE disc valves limited to 450°F temperature.
- The Pressure & temperature ratings of Solder end valves vary with the solder & the size.

Cast and Ductile Iron

CAST IRON AND DUCTILE IRON						
TEMP. (°F)	PRESSURE CLASS BY MATERIAL AND VALVE SIZE					
	Cast Iron					Ductile Iron
	Class 125			Class 250		Class 150
	2"-12"	14"-24"	30"-48"	2"-12"	14"-24"	2"-12"
-20 to 100	200	150	150	500	300	285
150	200	150	--	500	300	243
200	190	135	115	460	280	235
225	180	130	100	440	270	--
250	175	125	85	415	260	225
275	170	120	65	395	250	--
300	165	110	50	375	240	215
325	155	105	--	355	230	--
350	150	100	--	335	220	210
375	145	--	--	315	210	--
400	140	--	--	290	200	200
425	130	--	--	270	--	--
450*	125	--	--	250	--	185
500	--	--	--	--	--	170
550	--	--	--	--	--	155
600	--	--	--	--	--	140
650	--	--	--	--	--	125

The temperature shown for the corresponding rating shall be the material temperature of the pressure rating parts. It shall be assumed that the metal temperature will be the temperature of the contained fluid. Use of a pressure rating at a metal temperature other than that of the contained fluid shall be the responsibility of the user.

- Buna-N disc valves limited to 180 °F or PTFE disc valves limited to 450°F; * Maximum temperature for bronze trim or PTFE.

Quality Products by NCI Canada Inc.

Fire Protection Valves

- FP. Brass and Bronze Ball Valves
- FP. Bronze Gate, Globe and Check valves
- FP. Iron Gate Valves and Indicator Posts
- FP. Resilient Seat Gate Valves
- FP. Butterfly Valves
- FP. Check valves



Metal Fittings

- Grooved Couplings and Fittings
- Press System
- H.P. Copper Fittings for ACR applications
- Schedule 40, 80 and XXH Seamless Steel Nipples
- Schedule 40 Welded Steel Nipples
- Bronze Fittings and Brass Nipples
- Weld Outlets



Commercial and Industrial Valves

- Brass and Bronze Ball Valves
- Bronze Gate, Globe and Check Valves
- Cast Iron Gate, Globe and Check valves
- Commercial Butterfly Valves
- Gas Ball Valves
- Carbon Steel and Stainless Steel Ball Valves
- Carbon Steel and Stainless Steel Gate, Globe and Check Valves
- Double Door and Silent Check valves
- Y-Strainers and Basket Strainers



Plastic Pipe, Valves and Fittings

- ABS Fittings
- PVC Schedule 40 & 80 Valves and Fittings
- CPVC-CTS Pipe and Fittings
- CPVC Schedule 80 Valves and Fittings
- PP Schedule 80 Pipe, Valves and Fittings
- PVDF Schedule 80 Pipe, Valves and Fittings
- Flexible Couplings and Connectors
- PVC & Nylon Insert Fittings



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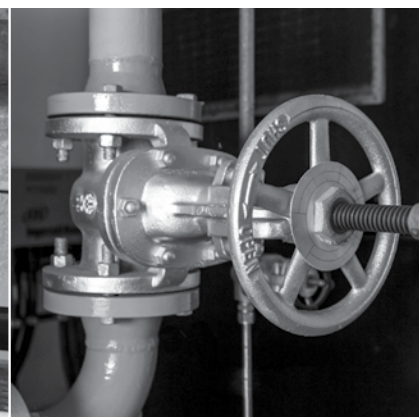
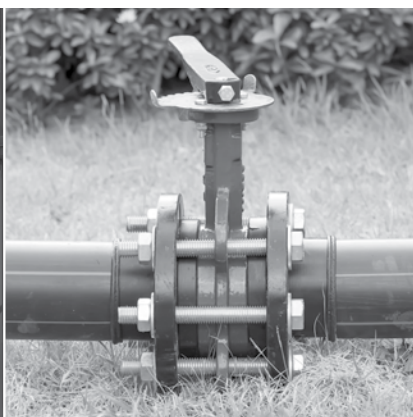
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