

Current (Active) CRN's

Province	CRN (base no.)	CRN	Products
Ontario	0C14331	0C14331.5	AN / TN
Ontario	0C14767	0C14767.5	B16.34
Quebec Manitoba Saskatchewan	0C14767	0C14767.56	B16.34
New Brunswick Newfoundland and Labrador Northwestern Territories Nova Scotia Nunavut Prince Edward Island Yukon	0C14767	0C14767.59087YTN	B16.34
Ontario	0C14766	0C14766.5	Check Valves Sampling Valves
Quebec Manitoba Saskatchewan	0C14766	0C14766.56	Check Valves Sampling Valves
New Brunswick Newfoundland and Labrador Northwestern Territories Nova Scotia Nunavut Prince Edward Island Yukon	0C14766	0C14766.59087YTN	Check Valves Sampling Valves
Ontario	0C15027	0C15027.5	Series 8 and 9

Identification of CRN suffixes

ID	Province / Territory
1	British Columbia
2	Alberta
3	Saskatchewan
4	Manitoba
5	Ontario
6	Quebec
7	New Brunswick
8	Nova Scotia
9	Prince Edward Island
0	Newfoundland
T	Northwest Territories
Y	Yukon Territory
N	Nunavut

Notes: - CRN's not required for British Columbia or Saskatchewan

- *.56 indicates coverage in the following:

Ontario (5)

Quebec (6)

- coverage in Quebec (6) includes:

Saskatchewan (3)

Manitoba (4)

- e.g. 0C14766.56 is coverage in:

Ontario

Quebec

Saskatchewan

Manitoba

CRN Application - SR575058
Product Coverage

THIS IS PART OF
CRN 0C 14767-F
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

PBM, Inc.
8/3/11

P.1

Materials of construction: all materials listed in ASME B16.34, Table 1, Groups 1, 2, and 3.
Bolting materials: all materials covered by ASME B16.34, Table 1, Group 4.

For AF Series 1 & 3, sizes 1", 1-1/2", and 6" only, the pressure class is limited to 150#.

Product	Series	Sizes	Pressure Class	End Connections
SP	5	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
SP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
SP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
SP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
SD	5	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
SD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
SD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
SD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
DP	5	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
DP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
DP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
DP	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
DD	5	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
DD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
DD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
DD	5	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
FT	5	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
FT	5	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
FT	5	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
FT	5	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
FD	5	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6	150# and 300#	Flange end fittings (B16.5)
FD	5	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
FD	5	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
FD	5	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)

Product	Series	Sizes	Pressure Class	End Connections
SP	6	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"	150# and 300#	Flange end fittings (B16.5)
SP	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
SP	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
SP	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
FT	6	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"	150# and 300#	Flange end fittings (B16.5)
FT	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
FT	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
FT	6	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
MP	5	1/2", 1", 1-1/2", 2", 3", 4"	150# and 300#	Flange end fittings (B16.5)
MP	5	1/2", 1", 1-1/2", 2", 3", 4"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
MP	5	1/2", 1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
MP	5	1/2", 1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
MP	4	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Flange end fittings (B16.5)
MP	4	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
MP	4	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
MP	4	1/2", 3/4", 1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
AF	1	1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Flange end fittings (B16.5)
AF	1	1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
AF	1	1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
AF	1	1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
AF	3	1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Flange end fittings (B16.5)
AF	3	1", 1-1/2", 2", 3", 4", 6"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
AF	3	1", 1-1/2", 2"	150# and 300#	Threaded end fittings (B16.34, Table 4)
AF	3	1", 1-1/2", 2"	150# and 300#	Socket Welded end fittings (B16.34, Table 4)
IM	6	1/2", 3/4", 1"	150# thru 2500# inclusive	Flange end fittings (B16.5)
IM	6	1/2", 3/4", 1"	150# thru 2500# inclusive	Buttweld end fittings, Schedule 40 (B16.9)
IM	6	1/2", 3/4", 1"	150# thru 2500# inclusive	Threaded end fittings (B16.34, Table 4)
IM	6	1/2", 3/4", 1"	150# thru 2500# inclusive	Socket Welded end fittings (B16.34, Table 4)
DP	1	3", 4"	150# and 300#	Flange end fittings (B16.5)
DP	1	3", 4"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)
SP	1	3", 4"	150# and 300#	Flange end fittings (B16.5)
SP	1	3", 4"	150# and 300#	Buttweld end fittings, Schedule 40 (B16.9)

THIS IS PART OF
CRN OC 14767.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

CRN Application - SR584714
Product Coverage

PBM, Inc.
9/2/11

Design Standards: ASME BPE, B31.1, and B31.3

Product	Sizes	Materials of construction	CWP (psi)	MAWP	End Connections
HC	1/2", 3/4", 1", 1-1/2", 2"	ASTM A479, S31603 & B574, N06022	175	125	Tri-Clamp Ferrule and Weld Ends
HC	3"	ASTM A479, S31603 & B574, N06022	150	110	Tri-Clamp Ferrule and Weld Ends
HC	4"	ASTM A479, S31603 & B574, N06022	100	70	Tri-Clamp Ferrule and Weld Ends
VC	1/2", 3/4", 1", 1-1/2", 2"	ASTM A479, S31603 & B574, N06022	175	125	Tri-Clamp Ferrule and Weld Ends
VC	3"	ASTM A479, S31603 & B574, N06022	150	110	Tri-Clamp Ferrule and Weld Ends
VC	4"	ASTM A479, S31603 & B574, N06022	100	70	Tri-Clamp Ferrule and Weld Ends
S-	1/2", 3/4", 1", 1-1/2", 2"	ASTM A479, S31603	150	110	Tri-Clamp Ferrule and Weld Ends
S2	1/2", 3/4", 1", 1-1/2", 2"	ASTM A479, S31603	150	110	Tri-Clamp Ferrule and Weld Ends
S3	1/2", 3/4", 1", 1-1/2", 2"	ASTM A479, S31603	150	110	Tri-Clamp Ferrule and Weld Ends

CWP = Cold Working Pressure (-20°F to 100°F)

MAWP = Maximum Allowable Working Pressure (@ 325°F)

(MAWP determined through interpolation of data from ASME B31.1, Table 3-1)

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 Safety Program

Allowable Working Pressures and Temperatures (AN & TN - ASME B16.34, B16.10, & B16.5)

Product (Type)	Series	PBM Material designation	ASME Mat'l Group	Size (Inches)	ØBore (in)	150# OD (in)	150# wall thk.	ASME 150# min. wall thk.	300# OD (in)	300# wall thk.	ASME 300# min. wall thk.	Design Standard	CWP & MAWP (psig)							
													150# Flanged		300# Flanged		300# Flanged		300# Flanged	
													-20°F to 100°F	300°F	450°F	100°F	300°F	450°F	-20°F to 100°F	300°F
AN	1	316 SS/316L	2.2	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	8	13.500	14.900	0.700	0.410	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	316 SS/316L	2.2	10	17.000	18.500	0.750	0.460	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	1	C-276	3.8	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	8	13.500	14.900	0.700	0.410	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	C-276	3.8	10	17.000	18.500	0.750	0.460	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	8	13.500	14.900	0.700	0.410	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	1	Carbon Stl.	1.1	10	17.000	18.500	0.750	0.460	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	316 SS/316L	2.2	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	275	215	180	n/a	n/a	n/a		
AN	3	C-276	3.8	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		
AN	3	C-276	3.8	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	230	200	180	n/a	n/a	n/a		

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Boilers & Pressure Vessels
Safety Program

Product (Type)	Series	PBM Material designation	ASME Mat'l Group	Size (inches)	ØBore (in)	150# OD (in)	150# wall thk.	ASME 150# min. wall thk.	300# OD (in)	300# wall thk.	ASME 300# min. wall thk.	Design Standard	CWP & MAWP (psig)							
													150# Flanged		300# Flanged		150# Flanged		300# Flanged	
													-20°F to 100°F	300°F	450°F	-20°F to 100°F	300°F	450°F	-20°F to 100°F	300°F
AN	3	Carbon Stl.	1.1	1/2	1.375	1.860	0.243	0.180	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	3/4	1.625	2.120	0.248	0.197	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	1	1.875	2.380	0.253	0.210	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	1 1/2	2.750	3.380	0.315	0.240	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	2	3.465	4.190	0.363	0.249	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	3	4.843	5.390	0.274	0.264	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	4	7.000	7.750	0.375	0.300	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	3	Carbon Stl.	1.1	6	10.875	11.810	0.468	0.360	n/a	n/a	n/a	B16.34	285	230	185	n/a	n/a	n/a		
AN	5	316 SS/316L	2.2	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	2	3.377	3.880	0.252	0.248	4.000	0.312	0.295	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	275	215	180	720	560	495		
AN	5	316 SS/316L	2.2	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	275	215	180	720	560	495		
AN	5	C-276	3.8	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	2	3.377	3.880	0.252	0.248	4.000	0.312	0.295	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	230	200	180	600	520	475		
AN	5	C-276	3.8	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	230	200	180	600	520	475		
AN	5	Carbon Stl.	1.1	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	2	3.377	3.880	0.252	0.248	4.000	0.312	0.295	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	285	230	185	740	655	620		
AN	5	Carbon Stl.	1.1	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	285	230	185	740	655	620		
AN	6	316 SS/316L	2.2	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	2	3.377	3.880	0.252	0.248	4.000	0.312	0.295	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	275	215	180	720	560	495		
AN	6	316 SS/316L	2.2	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	275	215	180	720	560	495		
AN	6	C-276	3.8	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	2	3.377	3.880	0.252	0.248	4.000	0.312	0.295	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	230	200	180	600	520	475		
AN	6	C-276	3.8	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	230	200	180	600	520	475		

THIS IS PART OF
CRN 0C14331.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

Product (Type)	Series	PBM Material designation	ASME Mat'l Group	Size (Inches)	Ø Bore (in)	150# OD (in)	150# wall thk.	ASME 150# min. wall thk.	300# OD (in)	300# wall thk.	ASME 300# min. wall thk.	Design Standard	CWP & MAWP (psig)							
													150# Flanged		150# Flanged		300# Flanged		300# Flanged	
													-20°F to 100°F	300°F	450°F	180	-20°F to 100°F	300°F	450°F	180
AN	6	C-276	3.8	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	230	200	180	600	520	475		
AN	6	Carbon Sli.	1.1	1/2	1.066	1.440	0.187	0.160	1.440	0.187	0.175	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	3/4	1.375	1.790	0.208	0.180	1.790	0.208	0.200	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	1	1.877	2.380	0.252	0.211	2.380	0.252	0.231	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	1 1/2	2.750	3.250	0.250	0.240	3.310	0.280	0.270	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	2	3.890	3.890	0.252	0.248	4.000	0.312	0.295	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	3	4.875	5.440	0.283	0.265	5.600	0.363	0.345	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	4	6.880	7.620	0.370	0.298	7.870	0.495	0.406	B16.34	285	230	185	740	655	620		
AN	6	Carbon Sli.	1.1	6	10.375	11.090	0.358	0.350	11.440	0.533	0.520	B16.34	285	230	185	740	655	620		
TN	1	316 SS/316L	2.2	6	10.560	11.690	0.565	0.354	11.690	0.565	0.528	B16.34	275	215	180	720	560	495		
TN	1	316 SS/316L	2.2	8	13.500	14.900	0.700	0.410	14.900	0.700	0.630	B16.34	275	215	180	720	560	495		
TN	1	316 SS/316L	2.2	10	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	275	215	180	720	560	495		
TN	1	316 SS/316L	2.2	12	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	275	215	180	720	560	495		
TN	1	C-276	3.8	6	10.560	11.690	0.565	0.354	11.690	0.565	0.528	B16.34	230	200	180	600	520	475		
TN	1	C-276	3.8	8	13.500	14.900	0.700	0.410	14.900	0.700	0.630	B16.34	230	200	180	600	520	475		
TN	1	C-276	3.8	10	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	230	200	180	600	520	475		
TN	1	C-276	3.8	12	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	230	200	180	600	520	475		
TN	1	Carbon Sli.	1.1	6	10.560	11.690	0.565	0.354	11.690	0.565	0.528	B16.34	285	230	185	740	655	620		
TN	1	Carbon Sli.	1.1	8	13.500	14.900	0.700	0.410	14.900	0.700	0.630	B16.34	285	230	185	740	655	620		
TN	1	Carbon Sli.	1.1	10	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	285	230	185	740	655	620		
TN	1	Carbon Sli.	1.1	12	16.880	18.500	0.810	0.458	18.500	0.810	0.735	B16.34	285	230	185	740	655	620		
TN	5	316 SS/316L	2.2	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	275	215	180	720	560	495		
TN	5	316 SS/316L	2.2	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	275	215	180	720	560	495		
TN	5	316 SS/316L	2.2	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	275	215	180	720	560	495		
TN	5	C-276	3.8	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	230	200	180	600	520	475		
TN	5	C-276	3.8	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	230	200	180	600	520	475		
TN	5	C-276	3.8	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	230	200	180	600	520	475		
TN	5	Carbon Sli.	1.1	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	285	230	185	740	655	620		
TN	5	Carbon Sli.	1.1	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	285	230	185	740	655	620		
TN	5	Carbon Sli.	1.1	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	285	230	185	740	655	620		
TN	6	316 SS/316L	2.2	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	275	215	180	720	560	495		
TN	6	316 SS/316L	2.2	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	275	215	180	720	560	495		
TN	6	316 SS/316L	2.2	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	275	215	180	720	560	495		
TN	6	C-276	3.8	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	230	200	180	600	520	475		
TN	6	C-276	3.8	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	230	200	180	600	520	475		
TN	6	C-276	3.8	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	230	200	180	600	520	475		
TN	6	Carbon Sli.	1.1	8	10.380	11.500	0.560	0.350	11.500	0.560	0.520	B16.34	285	230	185	740	655	620		
TN	6	Carbon Sli.	1.1	10	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	285	230	185	740	655	620		
TN	6	Carbon Sli.	1.1	12	16.250	17.400	0.575	0.450	17.688	0.719	0.717	B16.34	285	230	185	740	655	620		

Notes
 1. Materials to be covered which are not listed above: all materials covered by ASME B16.34.
 2. AN Series 1 & 3 limited to Class 150; ASME 300# min. wall thickness and P/T ratings changed to "n/a" accordingly.

CRN Application - Sanitary Series 8 and 9 Ball Valves
 Product Coverage

PBM, Inc.
 10/19/11

Design Standard: ASME B31.3

Materials of construction:

ASTM A479, S31600	ASTM B691, N08367
ASTM A351, CF8M	ASTM A351, CN3MN
ASTM A479, S31603	ASTM B574, N10276
ASTM A351, CF3M	ASTM A494, CW-2M
ASTM A182, F316	ASTM B574, N06022
ASTM A182, F316L	ASTM A494, CX2MW

Product	Series	Sizes	CWP (psi) -20 to 100°F	MAWP (psi) @ 450°F	End Connections
SI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
SI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
CS	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
CS	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
CT	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
CT	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
DI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
DI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
DC	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
DC	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
FI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
FI	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
FC	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	200	140	Tri-Clamp Ferrule
FC	8	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing

Product	Series	Sizes	CWP (psi)	MAWP (psi)	End Connections
			-20 to 100°F	@ 450°F	
SI	9	1/4", 3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6"	200	140	Tri-Clamp Ferrule
SI	9	1/4", 3/8", 1/2", 3/4", 1", 1-1/2"	900	645	Weld Ends for Tubing
SI	9	2", 2-1/2", 3", 4"	720	515	Weld Ends for Tubing
SI	9	6"	375	270	Weld Ends for Tubing
CS	9	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6"	200	140	Tri-Clamp Ferrule
CS	9	1/2", 3/4", 1", 1-1/2"	900	645	Weld Ends for Tubing
CS	9	2", 2-1/2", 3", 4"	720	515	Weld Ends for Tubing
CS	9	6"	375	270	Weld Ends for Tubing
CT	9	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3"	200	140	Tri-Clamp Ferrule
CT	9	1/2", 3/4", 1", 1-1/2"	900	645	Weld Ends for Tubing
CT	9	2", 2-1/2", 3"	720	515	Weld Ends for Tubing
DI	9	3/8", 1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6"	200	140	Tri-Clamp Ferrule
DI	9	3/8", 1/2", 3/4", 1", 1-1/2"	900	645	Weld Ends for Tubing
DI	9	2", 2-1/2", 3", 4"	720	515	Weld Ends for Tubing
DI	9	6"	375	270	Weld Ends for Tubing
DC	9	1/2", 3/4", 1", 1-1/2", 2"	200	140	Tri-Clamp Ferrule
DC	9	1/2", 3/4", 1", 1-1/2"	900	645	Weld Ends for Tubing
DC	9	2"	720	515	Weld Ends for Tubing
FI	9	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6"	200	140	Tri-Clamp Ferrule
FI	9	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
FI	9	6"	375	270	Weld Ends for Tubing
FC	9	1/2", 3/4", 1", 1-1/2", 2", 3", 4", 6"	200	140	Tri-Clamp Ferrule
FC	9	1/2", 3/4", 1", 1-1/2", 2", 3", 4"	600	430	Weld Ends for Tubing
FC	9	6"	375	270	Weld Ends for Tubing