



the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

ASCO®

I, EDWARD FOX,

Vice President Quality Assurance

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of ASCO

(name of manufacturer)

located at 50 Hanover Road, Florham Park, NJ, 07932, USA

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

comply with the requirements of _____ which specifies the dimensions, (title of recognized North American Standard)

materials of construction, pressure/temperature ratings and identification marking of the fittings, or

are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME/ANSI B31.3 as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, QMI, Mississauga, Ontario, CN as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are LIST II

In support of this application, the following information, calculations and/or test data are attached:

Hydrostatic Pressure Test Report Project 010945-04

DECLARED before me at ASCO in the State of New Jersey

this 26th day of August, 2008
(Month) (Year)

(print) Karen E. Bolio

Edward Fox
(Signature of Applicant)

(sign) Karen E. Bolio
(A Commissioner for Oaths)

KAREN E BOLIO
MY COMMISSION EXPIRES MARCH 30, 2009

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category C

Registration Number: 0 C I 2 2 3 9 . 5 2

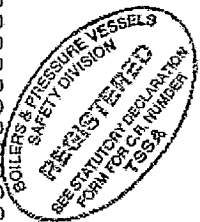
Zana R. ZANA RADISAVLJEVIC

Date Registered: APR 20 2009

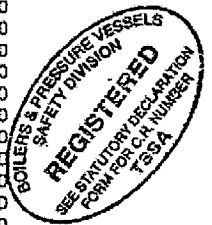
(For the Administrator/Chief Inspector of Alberta)
Expiry Date: Apr. 20, 2018

CRM 2nd Submission - Revised list 10/2008

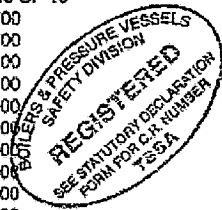
| | | | | | | | | | | | | | | | | |
|----------|-----------|--------|---|----|----|---------|--|------|------|------|-----|-----|-----|------|------|-------------------------------|
| 8263G052 | Brass | 088068 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 50 | - | - | - | - | - | 300 | 1500 | already approved for 8262G002 |
| 8015A224 | Stainless | 220137 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | - | 250 | - | - | - | - | 300 | | already approved for 8223G010 |
| 8025B211 | Stainless | 220137 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | | already approved for 8223G010 |
| 8210G33 | Brass | 222998 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 150 | 125 | 125 | 125 | 80 | 300 | 1500 | already approved for 8210G001 |
| 8210G30 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 150 | 150 | 100 | 125 | 125 | 80 | 300 | 1500 | already approved for 8210G087 |
| 8210P87 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 150 | 150 | 125 | 150 | 150 | 125 | 300 | 1500 | already approved for 8210G087 |
| 8210C87 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 125 | 125 | 125 | 40 | 40 | - | 300 | 1500 | already approved for 8210G087 |
| 8210G38 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 160 | 150 | 100 | 125 | 125 | 80 | 300 | 1500 | already approved for 8210G087 |
| 8222G062 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 50 | - | - | - | - | - | 300 | 1500 | already approved for 8210G087 |
| 8222G086 | Stainless | 102424 | 1 | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 125 | - | - | - | - | - | 300 | 1500 | already approved for 8210G087 |
| 8223G10 | Stainless | 220137 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | 1500 | 1500 | 1500 | 500 | 500 | 500 | 1500 | | already approved for 8223G010 |
| 8223G310 | Stainless | 220137 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 CF-8 | - | - | - | 150 | - | - | 150 | | already approved for 8223G010 |
| 8262A221 | Stainless | 092233 | 4 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 100 | 100 | 100 | - | - | - | 300 | 250 | already approved for 8262G220 |
| 8262G138 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 130 | 110 | 100 | 80 | 60 | 60 | 300 | 750 | already approved for 8262G007 |
| 8262G134 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 300 | 250 | 230 | 200 | 150 | 125 | 300 | 750 | already approved for 8262G007 |
| 8262 149 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 75 | 70 | 80 | - | - | - | 300 | 750 | already approved for 8262G007 |
| 8262B227 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 90 | 100 | 100 | 25 | 25 | 25 | 300 | 750 | already approved for 8262G007 |
| 8262G148 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 45 | 45 | 40 | 25 | 20 | 20 | 300 | 750 | already approved for 8262G007 |
| 8262G36 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 40 | 50 | 40 | 17 | 20 | 21 | 300 | 750 | already approved for 8262G007 |
| 8262G152 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 30 | 25 | 20 | 15 | 15 | 15 | 300 | 750 | already approved for 8262G007 |
| 8262G230 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 90 | 100 | 90 | 25 | 20 | 22 | 300 | 750 | already approved for 8262G007 |
| 8262G38 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 27 | 36 | 28 | - | - | - | 300 | 750 | already approved for 8262G007 |
| 8262G142 | Stainless | 092233 | 4 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 85 | 75 | 60 | 45 | 30 | 30 | 300 | 250 | already approved for 8262G220 |
| 8263G319 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 110 | 100 | 100 | - | - | - | 325 | | already approved for 8263G333 |
| 8263G320 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 70 | 65 | 65 | - | - | - | 325 | | already approved for 8263G333 |
| 8263G321 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 60 | 45 | 45 | - | - | - | 325 | | already approved for 8263G333 |
| 8263G330 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 160 | 150 | 90 | 65 | 60 | 60 | 325 | | already approved for 8263G333 |
| 8263G331 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 100 | 100 | 100 | 35 | 35 | 35 | 325 | | already approved for 8263G333 |
| 8263G332 | Stainless | 274151 | | 70 | 70 | casting | Cast, Stainless Steel ASTM A-743 | 100 | 100 | 100 | 25 | 25 | 25 | 325 | | already approved for 8263G333 |
| 8037A8 | Brass | 095647 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | 125 | 125 | 125 | 125 | 200 | 1500 | already approved for 8342G020 |
| 0310C42 | Brass | 238295 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8314C24 | Brass | 206149 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 75 | - | - | - | - | - | 300 | 250 | already approved for 8262G022 |
| 8314A300 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | - | - | - | 150 | - | - | 300 | 3750 | already approved for 8262G261 |
| 8314G300 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | - | - | - | 150 | - | - | 300 | 3750 | already approved for 8262G261 |
| 8314C31 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 250 | 250 | 250 | 130 | 140 | 125 | 300 | 7500 | already approved for 8314G006 |
| 8314G31 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 230 | 230 | 230 | 120 | 140 | 135 | 300 | 7600 | already approved for 8314G006 |
| 8314C32 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 125 | 100 | 100 | - | - | - | 300 | 3750 | already approved for 8262G261 |
| 8314G22 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 230 | - | - | 120 | - | - | 300 | 7500 | already approved for 8314G006 |
| 8314G23 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 150 | - | - | 60 | - | - | 300 | 3750 | already approved for 8262G261 |
| 8314G34 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 230 | 230 | 230 | 120 | 140 | 135 | 300 | 7500 | already approved for 8314G006 |
| 8314G36 | Brass | 206149 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 75 | 80 | 60 | 30 | 40 | 25 | 300 | 250 | already approved for 8262G022 |
| 8314G53 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | 175 | 175 | 70 | 90 | 45 | 300 | 3750 | already approved for 8262G261 |
| 8314G54 | Brass | 206149 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 90 | 90 | 90 | 40 | 40 | 25 | 300 | 250 | already approved for 8262G022 |
| 8314G8 | Brass | 206149 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 45 | 25 | 25 | 20 | 15 | 16 | 300 | 250 | already approved for 8262G022 |
| 8316D27 | Brass | 238295 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | - | - | - | 250 | 750 | already approved for 8316G054 |
| 8316G24 | Brass | 238295 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316G26 | Brass | 238295 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316G14 | Brass | 238295 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316G16 | Brass | 238295 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316G56 | Brass | 238295 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 125 | - | - | - | - | 250 | 750 | already approved for 8316G054 |
| 8316P54 | Brass | 238295 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316P64 | Brass | 238295 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | - | 250 | 250 | - | 250 | 750 | already approved for 8316G054 |
| 8316G36 | Brass | 176881 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 125 | - | 125 | 125 | - | 250 | | already approved for 8316G034 |
| 8316E35 | Brass | 176881 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | - | - | - | - | 250 | | already approved for 8316G034 |
| 8317G23 | Brass | 087495 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | - | - | - | 200 | | already approved for 8317G035 |
| 8317G53 | Brass | 087495 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 160 | 160 | 95 | 75 | 45 | 25 | 200 | | already approved for 8317G035 |
| 8317G7 | Brass | 087495 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 80 | 50 | 50 | 40 | 30 | 15 | 200 | | already approved for 8317G035 |
| 8320A170 | Brass | 090481 | 5 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 395 | 410 | 410 | - | - | - | 1000 | 5000 | already approved for 8320A190 |
| 8320A181 | Brass | 090481 | 5 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 750 | 750 | 750 | - | - | - | 1000 | 5000 | already approved for 8320A190 |



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|----------|-----------|--------|----|----|----|---------|--|-----|-----|-----|-----|-----|-----|-----|------|-------------------------------|
| 8262G32 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | - | - | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 222309-1 | Brass | 090481 | 1 | 48 | 33 | Forging | ASTM B-283,UNS C37700 | 70 | - | - | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8037 14 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | 125 | 125 | 125 | 125 | 300 | 1500 | already approved for 8320G172 |
| 8320A10 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 30 | 30 | 30 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320A101 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 125 | 125 | 125 | 300 | 1500 | already approved for 8320G172 |
| 8320A102 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 125 | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320A104 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320A173 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 130 | 130 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320A182 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 225 | 225 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320A19 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | 125 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8320G178 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 20 | 20 | 20 | 12 | 12 | 12 | 300 | 1500 | already approved for 8320G172 |
| 8320G196 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 70 | 70 | 70 | 55 | 55 | 55 | 300 | 1500 | already approved for 8320G172 |
| 8320G198 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 40 | 40 | 40 | 30 | 30 | 30 | 300 | 1500 | already approved for 8320G172 |
| 8320A21 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 125 | 125 | 125 | 300 | 1500 | already approved for 8320G172 |
| 8320A89 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 110 | 110 | 110 | - | - | - | 300 | 1500 | already approved for 8320G172 |
| 8317A307 | Brass | 087495 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 160 | - | - | 200 | 1500 | already approved for 8317G035 |
| 8317P35 | Brass | 087495 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 150 | 100 | 150 | 150 | 100 | 200 | 200 | already approved for 8317G035 |
| 8320B130 | Brass | 232698 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | 175 | 175 | - | - | - | 750 | 750 | already approved for 8320B135 |
| 8320B175 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 100 | 100 | 100 | 60 | 60 | 60 | 300 | 1500 | already approved for 8320G172 |
| 8320G130 | Brass | 232698 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | 175 | 175 | 125 | 125 | 125 | 250 | 750 | already approved for 8320B135 |
| 8320G213 | Brass | 204950 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 100 | 100 | 100 | 60 | 60 | 60 | 300 | 750 | already approved for 8320G216 |
| 8320G214 | Brass | 204950 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 50 | 50 | 50 | 25 | 25 | 25 | 300 | 750 | already approved for 8320G217 |
| 8320G219 | Brass | 204950 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 150 | 140 | 140 | 100 | 100 | 100 | 300 | 750 | already approved for 8320G216 |
| 8320B13 | Brass | 092871 | 11 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 125 | 125 | 125 | 125 | 125 | 125 | 300 | 750 | Already approved for 8320G132 |
| 8320B132 | Brass | 092871 | 11 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 200 | 200 | 200 | 200 | 200 | 200 | 300 | 750 | Already approved for 8320G132 |
| 8320G1 | Brass | 092871 | 11 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 100 | 100 | 100 | 65 | 65 | 65 | 300 | 750 | Already approved for 8320G132 |
| 8320G13 | Brass | 092871 | 11 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 150 | 125 | 125 | 125 | 125 | 125 | 300 | 750 | Already approved for 8320G132 |
| 8320A142 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 200 | 200 | 200 | 200 | 200 | 200 | 300 | 750 | Already approved for 8320A048 |
| 8320A147 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 200 | 200 | 200 | 200 | 200 | 200 | 300 | 750 | Already approved for 8320A048 |
| 8320A42 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 100 | 100 | 100 | - | - | - | 300 | 750 | Already approved for 8320A048 |
| 8320G142 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 200 | 200 | 200 | 200 | 200 | 200 | 300 | 750 | Already approved for 8320A048 |
| 8320G146 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 200 | 200 | 200 | 200 | 200 | 200 | 300 | 750 | Already approved for 8320A048 |
| 8320G41 | Stainless | 092871 | 11 | 75 | 75 | Bar | SST AISI 303, 182 FM | 100 | 100 | 100 | 65 | 65 | 65 | 300 | 750 | Already approved for 8320A048 |
| 8320G15 | Brass | 092871 | 11 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 100 | 100 | 100 | 100 | 100 | 100 | 300 | 750 | Already approved for 8320G132 |
| 8320G701 | Brass | 272914 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 125 | - | - | 300 | 1050 | already approved for 8320G705 |
| 8320G702 | Brass | 272914 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 100 | - | - | 100 | - | - | 300 | 1050 | already approved for 8320G705 |
| 8320G704 | Brass | 272914 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 150 | - | - | 300 | 1050 | already approved for 8320G705 |
| 8314G120 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 80 | 40 | 40 | - | - | - | 300 | 750 | already approved for 8262G007 |
| 8316G81 | Stainless | 270036 | 1 | 70 | 70 | Casting | Cast Stainless Steel ASTM A-743 CF-8 | 150 | - | - | 120 | - | - | 150 | 150 | already approved for 8316G381 |
| 8316G82 | Stainless | 270036 | 2 | 70 | 70 | Casting | Cast Stainless Steel ASTM A-743 CF-8 | - | - | - | 150 | - | - | 150 | 150 | already approved for 8316G382 |
| 8321P002 | Brass | 162686 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 2500 | already approved for 8321G001 |
| 8320G227 | Stainless | 204950 | 6 | 75 | 75 | Bar | SST AISI 303, 182 FM | 235 | 250 | 250 | 160 | 160 | 160 | 300 | 5000 | already approved for 8320G221 |
| 8308A11 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 125 | 125 | - | 125 | 125 | - | 300 | 5000 | already approved for 8320G230 |
| 8320G203 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 85 | 85 | 85 | 60 | 60 | 60 | 300 | 5000 | already approved for 8320G230 |
| 8320G204 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 150 | 140 | 140 | 100 | 100 | 100 | 300 | 5000 | already approved for 8320G230 |
| 8320G205 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 70 | 70 | 70 | 55 | 55 | 55 | 300 | 5000 | already approved for 8320G230 |
| 8037 12 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 125 | 125 | 125 | 125 | 125 | 125 | 300 | 5000 | already approved for 8320G230 |
| 8320G200 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 100 | 100 | 100 | 60 | 60 | 60 | 300 | 5000 | already approved for 8320G230 |
| 8320G232 | Stainless | 228829 | 1 | 75 | 75 | Bar | SST A582, 303, UNS, S303000 | 235 | 250 | 250 | 160 | 160 | 160 | 300 | 5000 | already approved for 8320G230 |
| 8320P172 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 87 | 87 | - | 300 | 185 | already approved for 8320P186 |
| 8320P174 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 60 | 60 | 60 | 60 | 60 | 60 | 300 | 185 | already approved for 8320P186 |
| 8320P182 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 232 | 232 | 232 | 232 | 232 | 232 | 300 | 185 | already approved for 8320P186 |
| 8320P184 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 150 | 150 | 150 | 150 | 150 | 300 | 185 | already approved for 8320P186 |
| 8320P192 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 210 | 210 | 210 | 210 | 210 | 210 | 300 | 185 | already approved for 8320P186 |
| 8320P194 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 100 | 100 | 100 | 100 | 100 | 100 | 300 | 185 | already approved for 8320P186 |
| 8320P176 | Brass | 280203 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 35 | 35 | 35 | 35 | 35 | 35 | 300 | 185 | already approved for 8320P186 |
| 8321P1 | Brass | 182688 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 2500 | already approved for 8321G001 |
| 8314A301 | Stainless | 092233 | 2 | 75 | 75 | Bar | SST Carpenter Steel Project 70, 182 FM | 80 | 40 | 40 | 35 | 35 | 15 | 150 | 750 | already approved for 8262G007 |
| 8316A364 | Brass | 276653 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 150 | 150 | already approved for 8316A354 |



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|-------------|-----------|--------|---|----|----|---------|--|-----|-----|-----|-----|-----|-----|-----|------|-------------------------------|
| 8316A354 | Brass | 276653 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 150 | | already approved for 8316A354 |
| 8321A5 | Brass | 162668 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 2500 | already approved for 8321A5 |
| 8320G715 | Stainless | 272915 | | 70 | 70 | casting | Cast, ST ST ASTM A-743 CF-16 | 100 | - | - | - | - | - | 300 | | already approved for 8320G714 |
| 8320G712 | Stainless | 272915 | | 70 | 70 | casting | Cast, ST ST ASTM A-743 CF-16 | 100 | - | - | 100 | - | - | 300 | | already approved for 8320G714 |
| 8342C1 | Brass | 095647 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 100 | 100 | - | - | - | 200 | 1000 | already approved for 8342G001 |
| 8344G0 | Brass | 101789 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | 250 | 250 | 250 | 450 | | already approved for 8344G001 |
| 8344A70 | Brass | 101789 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | 125 | - | - | - | 450 | | already approved for 8344G001 |
| 8344A370 | Brass | 101789 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 450 | | already approved for 8344G001 |
| 8344G370 | Brass | 101789 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 450 | | already approved for 8344G001 |
| 8345P1 | Brass | 210207 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 150 | 150 | 150 | 150 | 150 | 300 | | already approved for 8345G001 |
| 8344C25 | Brass | 101850 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | - | - | - | 450 | | already approved for 8344G027 |
| 8344C37 | Brass | 101850 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | - | - | - | 450 | | already approved for 8344G027 |
| 8344A372 | Brass | 101850 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 450 | | already approved for 8344G027 |
| 8344G50 | Brass | 101851 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 300 | 300 | 200 | - | - | - | 450 | | already approved for 8344G082 |
| 8344G382 | Brass | 101851 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 450 | | already approved for 8344G082 |
| 8344G29 | Brass | 100475 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 1500 | already approved for 8344G031 |
| 8344G76 | Brass | 100475 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 125 | 125 | 125 | 125 | 125 | 300 | 1500 | already approved for 8344G031 |
| 8344P76 | Brass | 100475 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | 250 | 250 | 250 | 300 | 1500 | already approved for 8344G031 |
| 8344G78 | Brass | 100475 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | 125 | 125 | 125 | 125 | 125 | 300 | 1500 | already approved for 8344G031 |
| 8345G2 | Brass | 210207 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 100 | - | - | - | - | - | 300 | | already approved for 8345G001 |
| 8345H3 | Brass | 210207 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 100 | - | - | 300 | | already approved for 8345G001 |
| 8342C3 | Brass | 095647 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 100 | 100 | - | - | - | 200 | 1000 | already approved for 8342G001 |
| 8342G720 | Stainless | 226235 | | 70 | 70 | casting | Cast, ST ST ASME A-743- 81A TypeCF -8M | 125 | 125 | 125 | - | - | - | 200 | | already approved for 8342G701 |
| 8342G722 | Stainless | 226235 | | 70 | 70 | casting | Cast, ST ST ASME A-743- 81A TypeCF -8M | 125 | 125 | 125 | - | - | - | 200 | | already approved for 8342G701 |
| 8037A10 | Brass | 095647 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | 125 | 125 | 125 | 125 | 125 | 200 | 1000 | already approved for 8342G001 |
| 8408D6 | Brass | 095647 | 2 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | - | - | 250 | - | - | 200 | 1500 | already approved for 8342G020 |
| 8344P74 | Brass | 101850 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 250 | 250 | 250 | 250 | 250 | 250 | 450 | | already approved for 8344G027 |
| 8344A374 | Brass | 101850 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | - | - | - | 150 | - | - | 450 | | already approved for 8344G027 |
| NP8314C13E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 160 | - | - | 70 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8314C14E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 80 | - | - | 35 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8314C28E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 120 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8314C29E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 125 | - | - | 60 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8314C81E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 175 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8314C62E | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 175 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831413 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 160 | - | - | 70 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831414 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 80 | - | - | 35 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831428 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 120 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831429 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 125 | - | - | 60 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831461 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 175 | - | - | 300 | 7500 | already approved for 8314G006 |
| NSEF831462 | Brass | 206149 | 1 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 175 | - | - | 70 | - | - | 300 | 7500 | already approved for 8314G006 |
| NP8320A174E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 75 | - | - | 60 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A176E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 75 | - | - | 60 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A184E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 115 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A185E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 115 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A194E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 140 | - | - | 100 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A195E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 140 | - | - | 100 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320174 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 75 | - | - | 60 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320184 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 150 | - | - | 115 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320194 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 140 | - | - | 100 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A178E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 20 | - | - | 12 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A179E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 20 | - | - | 12 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A188E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 45 | - | - | 25 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A189E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 45 | - | - | 25 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A198E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 40 | - | - | 30 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A199E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 40 | - | - | 30 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320A178 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 20 | - | - | 12 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320A188 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 45 | - | - | 25 | - | - | 300 | 1500 | already approved for 8320G172 |
| NS8320A198 | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 40 | - | - | 30 | - | - | 300 | 1500 | already approved for 8320G172 |
| NP8320A172E | Brass | 090481 | 1 | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 125 | - | - | 75 | - | - | 300 | 1500 | already approved for 8320G172 |



CRN 2nd Submission - Revised list 10/20/08

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|--------------|-------|--------|---|----|----|---------|-------------------------------------|-----|---|---|-----|---|---|-----|------|-------------------------------|
| NPEF8262G265 | Brass | 236899 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 30 | - | - | 15 | - | - | 300 | 7500 | already approved for 8262G090 |
| NPEF8262G281 | Brass | 206149 | 2 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 300 | - | - | 200 | - | - | 300 | 3750 | already approved for 8262G261 |
| NPEF8262G282 | Brass | 206149 | 3 | 44 | 37 | Bar | Brass,FM B-16, Half Hard, UNS 36000 | 130 | - | - | 80 | - | - | 300 | 250 | already approved for 8262G022 |
| NPEF8262G263 | Brass | 236899 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 85 | - | - | 45 | - | - | 300 | 7500 | already approved for 8262G202 |
| NPEF8262G264 | Brass | 236899 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 45 | - | - | 25 | - | - | 300 | 7500 | already approved for 8262G202 |
| NPEF8262G265 | Brass | 236899 | | 46 | 33 | Forging | ASTM B-283,UNS C37700 | 30 | - | - | 15 | - | - | 300 | 7500 | already approved for 8262G090 |



