



National Defence

Défense nationale

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

Bid Receiving – PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11 rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau
Québec
K1A 0S5

Facsimile : 819-997-9776

Proposal To: National Defence Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à : Défense nationale Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Title/Titre: VALVE,GATE/ ROBINET,VANNE VALVE,STOP-CHECK/ CLAPET,D'ARRET ET DE NON RETOUR		Solicitation No – N° de l'invitation W8482-194646/A
Date of Solicitation – Date de l'invitation		
Address Enquiries to – Adresser toutes questions à Greg Davidson D Mar P 4-3-3-7 gregory.davidson@forces.gc.ca		
Telephone No. – N° de téléphone	FAX No – N° de fax	
Destination See herein		

Instructions:

Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions: Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Solicitation Closes – L'invitation prend fin
At – à :
On - le :

Delivery required - Livraison exigée	Delivery offered - Livraison proposée
Vendor Name and Address - Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) - Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The Requirement is detailed in Annex "A", Line Item Details.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA), the North American Free Trade Agreement (NAFTA), the Canada - Korea Free Trade Agreement (CKFTA), the Canada - Panama Free Trade Agreement, the Canada - Chile Free Trade Agreement (CCFTA), the Canada - Colombia Free Trade Agreement, the Canada - Honduras Free Trade Agreement, the Canada - Peru Free Trade Agreement (CPFTA), the Canada - European Union Comprehensive Economic and Trade Agreement (CETA), the World Trade Organization Agreement on Government Procurement (WTO-AGP), and the Canada - Ukraine Free Trade Agreement (CUFTA).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modifications:

- a) Section 02, Procurement Business Number is deleted in its entirety.
- b) Section 20, Further Information is deleted in its entirety.

2.1.1 SACC Manual Clauses

[B1000T](#) (2014-06-26), Condition of Material – Bid

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid (1 hard copy)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.



3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450](#) , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](#) , for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a) Bidders must indicate the Part Number and the NSCM/NCAGE they are offering.
- b) Bidders proposing an Equivalent or Substitute Product must indicate the brand name and model and/or Part Number and the NSCN/NCAGE they are offering.

Equivalent Products

1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
 - a. designates the brand name, model and/or part number of the substitute product;
 - b. states that the substitute product is fully interchangeable with the item specified;
 - c. provides complete specifications and descriptive literature for each substitute product;
 - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
 - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
2. Products offered as equivalent in form, fit, function and quality will not be considered if:
 - a. the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
 - b. the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

Substitute Products – Replaced Part Numbers from the OEM

Products that are replaced part numbers (superseded or obsolete) from the Original Equipment Manufacturer (OEM) must be equivalent in form, fit, function, quality and performance to the original item(s) specified in the bid solicitation and will be considered where the bidder provides:

- a) Proof by submitting a copy of a Certificate of Conformity from the OEM providing justification/explanation that the part numbers are a replacement of the OEM parts specified herein and are equivalent in form, fit, function, quality and performance to the OEM's parts specified herein; or
- b) All required technical information to demonstrate their technical compliance and to confirm form, fit, function, quality and performance of these replaced part numbers.

In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of the bidder(s), that the substitute product is equivalent to the item specified in the bid solicitation. If the Bidder fails to provide the request information with five (5) business days, Canada may declare the bid non-responsive.

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price - Canadian / Foreign Bidders

Basis of Selection

4.2 Basis of Selection - Multiple Items

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the *lowest evaluated price on an aggregate basis* will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Canadian Military Technical Data (Shock Test) – Equivalent Products

Submission of certificate of shock testing and drawings:

Any equivalent product(s) proposed must have successfully met the testing requirements of Specification D-03-003-007/SG-000 Grade 1 Type A, prior to the bid closing. If bidder is offering substitute products that are equivalent in form, fit, function and quality to the Original Equipment Manufacturer (OEM) parts specified herein, the bidder must provide proof by submitting a copy of the successful certificate of shock testing including the serial numbers of the proposed products and an acceptable drawing with certification of the proposed products with their bid by the bid closing date and time. Bids unable to meet this requirement will be given no further consideration.

5.3 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.3.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy \(http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html\)](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.3.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Line Item Details" at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

a. Definition of Minister is modified as follows:

"Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to the end of the warranty period as described in Section 09 of [2010A](#) (2018-06-21) General Conditions - Goods (Medium Complexity).

6.4.2 Delivery Date

All the deliverables must be received on or before _____.

DND reserves the right to negotiate delivery date changes to before or after March 31, 2019.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery points specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Greg Davidson
Title: Materiel Acquisition and Support Officer
Directorate: D MAR P 4-3-3-7
Address: 101 Colonel By Drive
Ottawa, Ontario, K1A 0K2
E-mail address: gregory.davidson@forces.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____.

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____
Title: _____
Address: _____
Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment – Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price as specified in Annex "B", Basis of Payment. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17), Limitation of Price

6.6.3 Terms of Payment

SACC Manual clause [H1001C](#) (2008-05-12), Multiple Payments

SACC Manual clause [C2000C](#) (2007-11-30), Taxes - Foreign-based Contractor

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the consignee for certification and payment.

Department of National Defence
Maritime Forces Atlantic
Accts Payable Bldg. S-90, Room 334
2686 Sextant Lane, Stadacona
PO Box 99000 Stn Forces

Halifax, NS B3K 5X5
Canada

and

Department of National Defence
Base Logistics Officer
CFB Esquimalt
STN Forces, P.O. Box 17000
Victoria, BC V9A 7N2
Canada

b. One (1) copy must be forwarded to:

Department of National Defence
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Attention: - D Mar P 4-3-3-7

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws - Contract

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) The Articles of Agreement;
- b) The general conditions [2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity);
- c) Annex A, Line Item Details;
- d) Annex B, Basis of Payment;
- e) The Contractor's bid dated _____.

6.11 Defence Contract

SACC *Manual* clause [A9006C](#) (2012-07-16), Defence Contract

6.12 SACC Manual Clauses

[B7500C](#) (2006-06-16), Excess Goods

[D2001C](#) (2007-11-30), Labelling

D2000C (2007-11-30), Marking

D2025C (2017-08-17), Wood Packaging Materials

D6010C (2007-11-30), Palletization

G1005C (2016-01-28), Insurance - No Specific Requirement

C2800C (2013-01-28), Priority Rating

C2801C (2017-08-17), Priority Rating: Canadian-based contractors

C3015C (2017-08-17), Exchange rate fluctuation adjustment

6.13 Asbestos

The contractor shall not use asbestos in the equipment unless no feasible alternative is available, in which case rationale shall be provided. Any parts containing asbestos shall be properly labelled, and the part number and location be explicitly identified in technical documentations

6.14 Packaging

6.14.1 Packaging Requirement using Specification D-LM-008-036/SF-000

The Contractor must prepare item numbers 010 to 013 for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification **D-LM-008-036/SF-000**, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package item numbers 010 to 013 in quantities of 1 by package

6.14.2 Preparation for Delivery - Canadian-based Contractor

For line items 001 to 009:

1. Preservation and packaging for items 001 to 009 must be in accordance with the Canadian Forces packaging specification *D-LM-008-001/SF-001*, and must be marked to *D-LM-008-002/SF-001*. Form Level B **Pkg Data Form Req'd** must be in accordance with *D-LM-008-011/SF-001*.
2. Packaging data forms previously approved by Canadian authorities are acceptable.
3. Approved coded packaging data is shown immediately below the description of the item to which it applies. Where no data is shown, the Contractor must submit a packaging data form for approval.

The Contractor must package item numbers 001 to 009 in quantities of 1 by package

6.15 Quality Assurance

For line items 8, 9, 12, and 13:

D5545C (2010-08-16) ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

For line items 1 to 7, 10, and 11:

D5540C (2010-08-16) ISO 9001:2008 Quality Management Systems - Requirements (Quality Assurance Code Q)

D5510C (2017-08-17) Quality Assurance Authority (DND) - Canadian-based Contractor

D5515C (2010-01-11) Quality Assurance Authority (Department of National Defence) - Foreign-based and United States Contractor

D5606C (2017-11-28) Release Documents (DND) - Canadian-based Contractor

D5604C (2008-12-12) Release Documents (Department of National Defence) - Foreign-based Contractor

D5605C (2010-01-11) Release Document (Department of National Defence) - United States-based Contractor

A1009C (2008-05-12) Work Site Access

D5620C (2012-07-16) Release Documents – Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a) One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b) Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c) One (1) copy to the Contracting Authority;
- d) One (1) copy to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: D Mar P 4-3-3-7

- e) One (1) copy to the Quality Assurance Representative;
- f) One (1) copy to the Contractor; and
- g) For all non-Canadian contractors, one (1) copy to:

DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
E-mail: ContractAdmin.DQA@forces.gc.ca.

6.16 Shipping Instructions - Delivery and Destination Schedules Unknown

1. The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (... named place of destination). Unless otherwise directed, delivery must be made by the most economical means. Shipping charges must be shown as a separate item on the Contractor's invoice. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and Applicable Taxes.

2. The Contractor must deliver the goods to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.



a) 2B1 CF Esquimalt
Esquimalt, B.C.
Telephone: 250-363-4963

b) 7H1 CF Halifax
Halifax, N.S.
Telephone: 902-427-1441

6.17 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment. The exchange rate adjustment amount will be calculated in accordance with the following formula:
Exchange rate adjustment = $FCC \times Qty \times (i_1 - i_0) / i_0$
where formula variables correspond to:

- **FCC**
Foreign currency component (per unit)
- **Qty**
quantity of units
- **i_0**
 - i. Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]). The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date. The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.
- **i_1**
 - i. Exchange rate for adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]). The Bank of Canada publishes its rates each business day by 16:30 Eastern Time.
 - a) The ERA for goods will be the Bank of Canada rate on the date the goods were delivered.
 - b) The ERA for services will be the Bank of Canada rate on the last business day of the month for which the services were performed.
 - c) The ERA for advance payments will be the Bank of Canada rate on the last business day prior to the payment. The last published business day rate will be used for non-business days.

4. The Contractor must indicate the total exchange rate adjustment amounts (whether they are upward, downward or present no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form [PWGSC-TPSGC 450](#) , Claim for Exchange Rate Adjustments.
5. The exchange rate adjustment will only impact the payment to be made by Canada where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form [PWGSC-TPSGC 450](#)  (that is $[i_1 - i_0] / i_0$).
6. Canada reserves the right to audit any revision to costs and prices under this clause.

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
001	NSN: 21-9082550 Name: VALVE, GATE PN Requested: 107-0031 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	8	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	Q	NO	YES
002	NSN: 21-9109695 Name: VALVE, GATE PN Requested: G-1549 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	Q	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
003	NSN: 21-9109695 Name: VALVE, GATE PN Requested: G-1549 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	Q	NO	YES
004	NSN: 21-9109729 Name: VALVE, GATE PN Requested: G-1226 REV 1 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	Q	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
005	NSN: <u>21-9109729</u> Name: VALVE, GATE PN Requested: G-1226 REV 1 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	Q	NO	YES
006	NSN: <u>21-9094905</u> Name: VALVE, GATE PN Requested: 107-0014 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	10	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	Q	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	<p align="center">Description</p> <p align="center"><i>Further detail provided at Annex C - Long Text Description</i></p>	Unit of Issue	Quantity	<p align="center">Delivery and Invoice Codes</p> <p align="center"><i>Definition can be found at Appendix 1 to Annex A</i></p>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
007	NSN: 21-9094905 Name: VALVE, GATE PN Requested: 107-0014 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	10	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	Q	NO	YES
008	NSN: 21-9109707 Name: VALVE, GATE PN Requested: G-1221 REV 1 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	C	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
009	NSN: 21-9109707 Name: VALVE, GATE PN Requested: G-1221 REV 1 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	C	NO	YES
010	NSN: 21-9081070 Name: VALVE,GATE PN Requested: 107-0017 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	60	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	Q	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
011	NSN: 21-9081070 Name: VALVE,GATE PN Requested: 107-0017 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	40	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	Q	NO	YES
012	NSN: 21-9082856 Name: VALVE, STOP-CHECK PN Requested: 106-0106 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	1	CFB Halifax Delivery Code 007X Invoice Code W010B	NO	C	NO	YES

ANNEX A - LINE ITEM DETAILS

Item	Description <i>Further detail provided at Annex C - Long Text Description</i>	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	Security Requirement	Quality Assurance Code (QAC)	Controlled Goods (CTAT or ITAR)	Trade Agreement
013	NSN: 21-9082856 Name: VALVE, STOP-CHECK PN Requested: 106-0106 NCAGE: 38881 Manufacturer: MONTREAL BRONZE LTD OR PN Requested : NA NCAGE : NA Manufacturer : NA OR EQUIVALENT Equivalent offers must comply with RFP Equivalent Products clauses and specify: PN offered: _____ NCAGE: _____ Manufacturer: _____	EA	1	CFB Esquimalt Delivery Code 002E Invoice Code W0103	NO	C	NO	YES

APPENDIX 1 TO ANNEX A - DELIVERY AND INVOICE CODES

Supply Depot	Delivery Code	Delivery Address	Invoice Code	Invoice Address
CFB HALIFAX	007X	Department of National Defence CFB Halifax Main Warehouse Bldg D206 Door 1 thru 13 HMC Dockyard Halifax, NS B3K 5X5 Canada	W010B	Department of National Defence Maritime Forces Atlantic Accts Payable Bldg. S90, Room 334 2686 Sextant Lane, Stadacona P.O. Box 99000, Stn Forces Halifax NS B3K 5X5 Canada
CFB ESQUIMALT	002E	Department. of National Defence CFB Esquimalt Attn: Receiving Bldg 66 Colwood Victoria, BC V9C 1B0 Canada	W0103	Department. of National Defence Base Logistics Officer CFB Esquimalt Stn Forces P.O. Box 17000 Victoria, BC V9A 7N2 Canada

ANNEX B - BASIS OF PAYMENT

Item	Description	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	FIRM UNIT PRICE: Delivered Duty Paid, Transportation costs included, Applicable taxes extra	EXTENDED PRICE: Applicable taxes extra	Applicable taxes
001	NSN: 21-9082550 Name: VALVE, GATE	EA	8	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
002	NSN: 21-9109695 Name: VALVE, GATE	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST
003	NSN: 21-9109695 Name: VALVE, GATE	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
004	NSN: 21-9109729 Name: VALVE, GATE	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST
005	NSN: 21-9109729 Name: VALVE, GATE	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
006	NSN: 21-9094905 Name: VALVE, GATE	EA	10	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST

ANNEX B - BASIS OF PAYMENT

Item	Description	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	FIRM UNIT PRICE: Delivered Duty Paid, Transportation costs included, Applicable taxes extra	EXTENDED PRICE: Applicable taxes extra	Applicable taxes
007	NSN: 21-9094905 Name: VALVE, GATE	EA	10	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
008	NSN: 21-9109707 Name: VALVE, GATE	EA	4	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST
009	NSN: 21-9109707 Name: VALVE, GATE	EA	4	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
010	NSN: 21-9081070 Name: VALVE,GATE	EA	60	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST
011	NSN: 21-9081070 Name: VALVE,GATE	EA	40	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST
012	NSN: 21-9082856 Name: VALVE, STOP-CHECK	EA	1	CFB Halifax Delivery Code 007X Invoice Code W010B			15% HST

ANNEX B - BASIS OF PAYMENT

Item	Description	Unit of Issue	Quantity	Delivery and Invoice Codes <i>Definition can be found at Appendix 1 to Annex A</i>	FIRM UNIT PRICE: Delivered Duty Paid, Transportation costs included, Applicable taxes extra	EXTENDED PRICE: Applicable taxes extra	Applicable taxes
013	NSN: 21-9082856 Name: VALVE, STOP-CHECK	EA	1	CFB Esquimalt Delivery Code 002E Invoice Code W0103			5% GST

ANNEX B - BASIS OF PAYMENT

	Extended Price	Applicable Taxes	Taxes	Price with Taxes
CFB Halifax		15% HST		
CFB Esquimalt		5% GST		
			Subtotal	
			Total Taxes	
			Total (CAD)	

ANNEX "C" LONG TEXT DESCRIPTION

NSN: 4820-21-908-2550
ITEM NAME: VALVE,GATE

Characteristic	Reply
FLANGE DIAMETER	11.0 INCHES
BONNET TYPE	PACKING RETAINING
BONNET ATTACHMENT METHOD	BOLTED
BOLT HOLE QUANTITY	8
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	FLANGE, ROUND W/HOLES
FEATURES PROVIDED	BONNET PACKING
VALVE SIZE	5.0 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	500.0 POUNDS PER SQUARE INCH WATER-OIL-GAS
STEM TYPE	NONRISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	550.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
FACE TO FACE DISTANCE	15.0 INCHES
FLANGE FACE DESIGN	PLAIN
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B164 ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS	300.0 POUNDS PER SQUARE INCH
SPECIAL FEATURES	WITH POSITION INDICATOR
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL

NSN: 4820-21-910-9695
ITEM NAME: VALVE, GATE

Characteristic	Reply
FLANGE DIAMETER	9.0 INCHES
BONNET TYPE	PACKING RETAINING
BONNET ATTACHMENT METHOD	BOLTED
BOLT HOLE QUANTITY	8
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	FLANGE, ROUND W/HOLES
FEATURES PROVIDED	BONNET PACKING
VALVE SIZE	3.5 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM AND 500.0 POUNDS PER SQUARE INCH WATER-OIL-GAS
STEM TYPE	NONRISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	550.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
FACE TO FACE DISTANCE	11.88 INCHES
FLANGE FACE DESIGN	PLAIN
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B164 ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS	300.0 POUNDS PER SQUARE INCH
SPECIAL FEATURES	PROVIDED WITH POSITION INDICATOR; SHOCK TESTED AS PER SPECIFICATION D-03-003-007/SF-000 GRADE 1 TYPE A
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL

NSN: 4820-21-910-9729
ITEM NAME: VALVE,GATE

Characteristic	Reply
FLANGE DIAMETER	15.0 INCHES
BONNET TYPE	PACKING RETAINING
BONNET ATTACHMENT METHOD	BOLTED
BOLT HOLE QUANTITY	12
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	FLANGE, ROUND W/HOLES
VALVE SIZE	8.0 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	500.0 POUNDS PER SQUARE INCH WATER-OIL-GAS
STEM TYPE	NONRISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	550.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
FACE TO FACE DISTANCE	16.5 INCHES
FLANGE FACE DESIGN	PLAIN
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B164 ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS	3000.0 POUNDS PER SQUARE INCH
SPECIAL FEATURES	FURNISHED WITH POSITION INDICATOR
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL

NSN: 4820-21-909-4905
ITEM NAME: VALVE,GATE

Characteristic	Reply
FLANGE DIAMETER	6.5 INCHES
BONNET TYPE	PACKING RETAINING
BONNET ATTACHMENT METHOD	BOLTED
BOLT HOLE QUANTITY	8
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	FLANGE, ROUND W/HOLES
FEATURES PROVIDED	BONNET PACKING
VALVE SIZE	2.0 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	500.0 POUNDS PER SQUARE INCH WATER-OIL-GAS
STEM TYPE	NONRISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	500.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
FACE TO FACE DISTANCE	8.5 INCHES
FLANGE FACE DESIGN	PLAIN
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B164 CLAS ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS	300.0 POUNDS PER SQUARE INCH
SPECIAL FEATURES	PROVIDED WITH POSITION INDICATOR; SHOCK TESTED AS PER SPECIFICATION D-03-003-007/SF-000 GRADE 1 TYPE A
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL

NSN: 4820-21-910-9707
ITEM NAME: VALVE,GATE

Characteristic	Reply
FLANGE DIAMETER	7.5 INCHES
BONNET TYPE	PACKING RETAINING
BONNET ATTACHMENT METHOD	BOLTED
BOLT HOLE QUANTITY	8
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	FLANGE, ROUND W/HOLES
FEATURES PROVIDED	BONNET PACKING
VALVE SIZE	2.5 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM
STEM TYPE	NONRISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	550.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
FACE TO FACE DISTANCE	9.5 INCHES
FLANGE FACE DESIGN	PLAIN
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 FED SPEC SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	AST B164 ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS	300.0 POUNDS PER SQUARE INCH
SPECIAL FEATURES	PROVIDED WITH LOCKING DEVICE
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL

NSN: 4820-21-908-1070
ITEM NAME: VALVE,GATE

Characteristic	Reply
BONNET TYPE	INSIDE SCREW
BONNET ATTACHMENT METHOD	UNION
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	THREADED INTERNAL PIPE
VALVE SIZE	0.5 INCHES
MAXIMUM OPERATING PRESSURE AND MEDIA FOR WHICH DESIGNED	300.0 POUNDS PER SQUARE INCH STEAM
NOMINAL THREAD SIZE	0.55 INCHES
STEM TYPE	RISING
MAXIMUM OPERATING TEMP AND MEDIA FOR WHICH DESIGNED	550.0 DEG FAHRENHEIT STEAM
BODY MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
DISK MATERIAL DOCUMENT AND CLASSIFICATION	QQ-N-288 ASSN STD 1ST MATERIAL RESPONSE
SEAT MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B164 ASSN STD SINGLE MATERIAL RESPONSE
STEM MATERIAL DOCUMENT AND CLASSIFICATION	ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
INLET RELATIONSHIP WITH OUTLET	IDENTICAL
PRESSURE CLASS MATERIAL	300.0 POUNDS PER SQUARE INCH BODY COPPER ALLOY 922 AND DISK NICKEL ALLOY AND SEAT NICKEL ALLOY AND STEM COPPER ALLOY 922
THREAD SERIES DESIGNATOR	NPT

NSN: 4820-21-908-2856
ITEM NAME: VALVE,STOP-CHECK

Characteristic	Reply
MATERIAL	BODY COPPER ALLOY 922
MATERIAL	FLOW CONTROL DEVICE NICKEL ALLOY
MATERIAL	PACKING ASBESTOS
MATERIAL	SEAT NICKEL ALLOY
MATERIAL	STEM NICKEL ALLOY
MATERIAL DOCUMENT AND CLASSIFICATION	BODY ASTM B61 ASSN STD SINGLE MATERIAL RESPONSE
MATERIAL DOCUMENT AND CLASSIFICATION	FLOW CONTROL DEVICE QQ-N-288 COMPOSITION A FED SPEC SINGLE MATERIAL RESPONSE
MATERIAL DOCUMENT AND CLASSIFICATION	SEAT QQ-N-288 COMPOSITION A FED SPEC SINGLE MATERIAL RESPONSE
MATERIAL DOCUMENT AND CLASSIFICATION	STEM ASTM B164 CLASS B ASSN STD SINGLE MATERIAL RESPONSE
STYLE DESIGNATOR	A1A ANGLE FLANGED ENDS
VALVE SIZE	1.5 INCHES
FACE TO FACE DISTANCE	7.0 INCHES
FLOW CONTROL DEVICE	DISK
MEDIA FOR WHICH DESIGNED	1ST RESPONSE STEAM
MEDIA FOR WHICH DESIGNED	2ND RESPONSE WATER-OIL-GAS
MAXIMUM OPERATING PRESSURE	1ST RESPONSE 150.0 POUNDS PER SQUARE INCH
MAXIMUM OPERATING PRESSURE	2ND RESPONSE 225.0 POUNDS PER SQUARE INCH
MAXIMUM OPERATING TEMP	2ND RESPONSE 450.0 DEG FAHRENHEIT
VALVE OPERATION METHOD	MANUAL
CONNECTION TYPE	ALL ENDS FLANGE
FLANGE SHAPE	ALL ENDS ROUND WITH HOLES
NOMINAL OUTSIDE DIAMETER	ALL ENDS 5.0 INCHES
NOMINAL THICKNESS	ALL ENDS 0.44 INCHES
BOLT HOLE QUANTITY	ALL ENDS 4
BOLT HOLE NOMINAL DIAMETER	ALL ENDS 0.63 INCHES
BOLT CIRCLE NOMINAL DIAMETER	ALL ENDS 3.88 INCHES
FLANGE FACE DESIGN	ALL ENDS PLAIN
MOUNTING POSITION	HORIZONTAL
RENEWABLE SEAT RING TYPE	THREADED
BONNET TYPE	OUTSIDE SCREW-YOKE
BONNET ATTACHMENT METHOD	BOLTED
FURNISHED ITEMS AND QUANTITY	1 HANDWHEEL AND 1 INDICATOR
SPECIAL TEST FEATURES	SHOCK TESTED AS PER SPECIFICATION D-03-003-007/SF-000 GRADE 1 TYPE A

ANNEX "D" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);