



NATIONAL REFINERY LIMITED

7-B, Korangi Industrial Zone, Korangi, Karachi-74900, (Pakistan)
P.O.Box No. 8228
Telephone: 35064981-3 PABX Fax: 92-21-35054663 Direct: 35121836
smgr_procurement@nrlpak.com

Request For Quotation

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Our Ref No. WHF-3535

No. 6100019037

Dated 16.12.2021

Due Date: 13.01.2022

Shipment to Karachi Via: Air / Sea

Shipment to Karachi By : _____

Manager Imports

Please send us your best offer in the form of Performa Invoice on your letterhead based on C&F Karachi and at least provide the gross weight & dimensions along with complete address of Ex-works/ FOB destination, duly signed, for the under mentioned items. In case of local agents / representative original Invoice from the Principal must be enclosed. Quotation should be submitted along with our attached "BID FORM" completely filled in.

Incomplete and conditional offers will not be entertained. No advance payment will be made. All bank charges inside Pakistan will be on our account and all bank charges outside Pakistan will be on beneficiary's account. The bids are to be submitted in the sealed envelope clearly marked as Manager Imports and our reference No. mentioned above and courier/ e-mail to us. Please e-mail/ fax us your courier Slip No. The bids to be reached latest by the above mentioned date.

Item	Material	Description	Unit	Quantity	Unit Price	Freight/ Packing Charges	Total C&F Value (Currency)
00010	34-025-812A1	REMOTELY OPERATED SHUT-OFF VALVE: 12-V-2 SPECIFICATIONS NRL's Specifications GENERAL: 1.TAG NUMBER : 2.SERVICE : 12-V-2 3.LINE SIZE : 8 INCH 4.TYPE : ON/OFF BODY: 5.VALVE TYPE : BALL 6.BODY SIZE-INCHES : 8 INCH 7.PORT SIZE-INCHES : 8 INCH 8.BODY MATERIAL : CARBON STEEL 9.END CONNECTIONS-FLANGE: ANSI 300RF 10.SEAL MATERIAL : TEFLON TRIM: 11.SEAT MATERIAL : 316 STAINLESS STEEL 12.BALL MATERIAL : 316 STAINLESS STEEL 13.SHAFT MATERIAL : 316 STAINLESS STEEL 14.CHARACTERISTICS: QUICK OPENING 15.SHUT-OFF CLASS : CLASS V (TIGHT SHUT-OFF) ACTUATOR: 16.TYPE : RACK & PINION PNEUMATIC ACTUATOR 17.ACTUATION: SINGLE ACTING & SPRING RETURN 18.ROTATION : 0 - 90 Deg 19.ROTATION TIME FOR 90 Deg : LESS	NO	1			

YOUR REF. NO.

DATE:

AUTHORIZED SIGNATURE



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		<p>THAN 5 SECONDS 20.AIR TO ACTUATOR/SPRING RANGE: 1.5 - 4 BAR</p> <p>ACTION:</p> <p>21.OPERATING MEDIUM: INSTRUMENT AIR 22.AVAILABLE AIR SUPPLY PRESSURE 4.0 BAR 23.VALVE CLOSE @ : 1.5 BAR 24.VALVE OPEN @ : 4 BAR 25.VALVE ACTION ON AIR/SIGNAL FAILURE: CLOSE</p> <p>ACCESSORIES:</p> <p>26.LIMIT SWITCH : YES (See Note-3) 27.SOLENOID VALVE: AS PER SPECIFICATIONS DETAILED BELOW</p> <p>SERVICE CONDITIONS:</p> <p>28.FLUID : LIQUID PROPANE 29.FLOW m3/hr : 131 30.FLOW TEMPERATURE °C : 50-52 31.PRESSURE INLET BAR(G) : 17.0 32.PRESSURE OUTLET BAR(G) : 16.9 33.PRESSURE DROP (DELTA P)BAR(G): 0.1 34.SPECIFIC GRAVITY : 0.505</p> <p>SOLENOID VALVE:</p> <p>1.SERVICE : AIR 2.TYPE : THREE WAY NORMALLY CLOSED 3.APPLICATION : FOR OPENING/CLOSING OF SHUT-OFF VALVE 4.DIRECT OPERATED : YES 5.BODY SIZE, RATING & CONNECTION : VENDOR TO SPECIFY (See Note-4) 6.ORIFICE SIZE : MAXIMUM 7.BODY MATERIAL: CARBON STEEL 8.TRIM MATERIAL: 316 STAINLESS STEEL 9.ELECTRICAL SUPPLY VOLTAGE: 220 VAC, 50 Hz 10.HAZARDOUS AREA CLASSIFICATION: SUITABLE FOR USE IN CLASS-I, DIVISION-1, GROUP-D 11.ELECTRIC CONNECTION: ½ INCHES NPT 12.EXECUTION: IP-54 13.MOUNTING ACCESSORIES: REQUIRED</p>					



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		<p>NOTES :</p> <ol style="list-style-type: none">1.VENDOR SHALL SUBMIT DETAILED PRODUCT LITERATURE OF REMOTELY OPERATED BALL VALVE2.VENDOR SHALL SUBMIT DIMENSIONAL DRAWING OF REMOTELY OPERATED BALL VALVE3. QUOTED LIMIT SWITCH TO INDICATE THE OPENING & CLOSING POSITION OF BALL VALVE. LIMIT SWITCH SHALL BE HOUSED IN ENCLOSURE SUITABLE FOR INSTALLATION IN HAZARDOUS AREA CLASSIFIED AS CLASS-I, DIVISION-I, GROUP-D. ONE SWITCH TO INDICATE EXTREME CLOSED POSITION AND THE OTHER SWITCH TO INDICATE THE FULLY OPENED POSITION. SWITCHES TO BE RATED FOR 220VAC, 50 Hz ELECTRICAL SUPPLY.4. SIZE OF QUOTED SOLENOID VALVE SHALL BE ACCORDING TO THE INSTRUMENT AIR REQUIREMENT OF ACTUATOR FOR FULL OPENING OF BALL VALVE.					



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00020	34-025-803A1	REMOTELY OPERATED SHUT-OFF VALVE:101-V-7 SPECIFICATIONS NRL's Specifications GENERAL 1 TAG NUMBER 2 SERVICE 101-V-7 3 LINE SIZE 8 INCH 4 TYPE ON/OFF BODY 5 VALVE TYPE BALL 6 BODY SIZE - INCHES 8 INCH 7 PORT SIZE - INCHES 8 INCH 8 BODY MATERIAL CARBON STEEL 9 END CONNECTIONS - FLANGE ANSI 150RF 10 SEAL MATERIAL TEFLON TRIM 11 SEAT MATERIAL 316 STAINLESS STEEL 12 BALL MATERIAL 316 STAINLESS STEEL 13 SHAFT MATERIAL 316 STAINLESS STEEL 14 CHARACTERISTICS QUICK OPENING 15 SHUT-OFF CLASS CLASS V (TIGHT SHUT-OFF) ACTUATOR 16 TYPE RACK & PINION PNEUMATIC ACTUATOR 17 ACTUATION SINGLE ACTING & SPRING RETURN 18 ROTATION 0 - 90 Deg 19 ROTATION TIME FOR 90 Deg LESS THAN 5 SECONDS 20 AIR TO ACTUATOR/SPRING RANGE 1.5 - 4 BAR ACTION 21 OPERATING MEDIUM INSTRUMENT AIR 22 AVAILABLE AIR SUPPLY PRESSURE 4.0 BAR 23 VALVE CLOSE @ 1.5 BAR 24 VALVE OPEN @ 4.0 BAR 25 VALVE ACTION ON AIR/SIGNAL FAILURE CLOSE ACCESSORIES 26 LIMIT SWITCH YES (See Note-3) 27 SOLENOID VALVE AS PER SPECIFICATIONS DETAILED BELOW SERVICE CONDITIONS 28 FLUID STRAIGHT RUN NAPHTHA MIN NORMAL MAX 29 FLOW m3/hr 37 43 51	NO	1			



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		<p>30 FLOW TEMPERATURE °C 55 31 PRESSURE INLET BAR(G) 0.4 0.4 0.7 32 PRESSURE OUTLET BAR(G) 0.28 0.28 0.56 33 PRESSURE DROP (DELTA P) BAR(G) 0.12 0.12 0.14 34 MOLECULAR WEIGHT 104 SOLENOID VALVE 1 SERVICE AIR 2 TYPE THREE WAY NORMALLY CLOSED 3 APPLICATION FOR OPENING/CLOSING OF SHUT-OFF VALVE</p> <p>4 DIRECT OPERATED YES 5 BODY SIZE, RATING & CONNECTION VENDOR TO SPECIFY (See Note-4) 6 ORIFICE SIZE MAXIMUM 7 BODY MATERIAL CARBON STEEL 8 TRIM MATERIAL 316 STAINLESS STEEL 9 ELECTRICAL SUPPLY VOLTAGE 220 VAC, 50 Hz 10 HAZARDOUS AREA CLASSIFICATION SUITABLE FOR USE IN CLASS-I, DIVISION-1, GROUP-D 11 ELECTRIC CONNECTION ½ INCHES NPT 12 EXECUTION IP-54 13 MOUNTING ACCESSORIES REQUIRED</p> <p>NOTES: 1. VENDOR SHALL SUBMIT DETAILED PRODUCT LITERATURE OF REMOTELY OPERATED BALL VALVE 2. VENDOR SHALL SUBMIT DIMENSIONAL DRAWING OF REMOTELY OPERATED BALL VALVE 3. QUOTED LIMIT SWITCH TO INDICATE THE OPENING & CLOSING POSITION OF BALL VALVE. LIMIT SWITCH SHALL BE HOUSED IN ENCLOSURE SUITABLE FOR INSTALLATION IN HAZARDOUS AREA CLASSIFIED AS CLASS-I, DIVISION-I, GROUP- D. ONE SWITCH TO INDICATE EXTREME CLOSED POSITION AND THE OTHER SWITCH TO INDICATE THE FULLY OPENED POSITION. SWITCHES TO BE RATED FOR 220VAC, 50 Hz ELECTRICAL SUPPLY. 4. SIZE OF QUOTED SOLENOID VALVE SHALL BE ACCORDING TO THE INSTRUMENT AIR REQUIREMENT OF ACTUATOR</p>					



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		FOR FULL OPENING OF BALL VALVE.					



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00030	54-025-836A1	REMOTELY OPERATED SHUT-OFF VALVE:214-V-6 SPECIFICATIONS: NRL's Specifications GENERAL: 1.TAG NUMBER: 2.SERVICE : 214-V-6 3.LINE SIZE : 8 INCH 4.TYPE : ON/OFF BODY: 5.VALVE TYPE : BALL 6.BODY SIZE-INCHES: 8 INCH 7.PORT SIZE-INCHES: 8 INCH 8.BODY MATERIAL : CARBON STEEL 9.END CONNECTIONS-FLANGE: ANSI 150RF 10.SEAL MATERIAL : TEFLON TRIM: 11.SEAT MATERIAL : 316 STAINLESS STEEL 12.BALL MATERIAL : 316 STAINLESS STEEL 13.SHAFT MATERIAL : 316 STAINLESS STEEL 14.CHARACTERISTICS: QUICK OPENING 15.SHUT-OFF CLASS : CLASS V (TIGHT SHUT-OFF) ACTUATOR: 16.TYPE : RACK & PINION PNEUMATIC ACTUATOR 17.ACTUATION: SINGLE ACTING & SPRING RETURN 18.ROTATION : 0 - 90 Deg 19.ROTATION TIME FOR 90 Deg: LESS THAN 5 SECONDS 20.AIR TO ACTUATOR/SPRING RANGE: 1.5 - 4 BAR ACTION: 21.OPERATING MEDIUM: INSTRUMENT AIR 22.AVAILABLE AIR SUPPLY PRESSURE: 4.0 BAR 23.VALVE CLOSE @: 1.5 BAR 24.VALVE OPEN @ : 4 BAR 25.VALVE ACTION ON AIR/SIGNAL FAILURE: CLOSE	NO	1			



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		<p>ACCESSORIES:</p> <p>26.LIMIT SWITCH : YES (See Note-3) 27.SOLENOID VALVE: AS PER SPECIFICATIONS DETAILED BELOW SERVICE CONDITIONS 28.FLUID : METHYL ETHYL KETONE (MEK) 29.FLOW m3/hr : 89.3 30.FLOW TEMPERATURE°C : 49 31.PRESSURE INLET BAR(G) : 0.730 32.PRESSURE OUTLET BAR(G) : 0.695 33.PRESSURE DROP(DELTA P)BAR(G): 0.035 34.SPECIFIC GRAVITY : 0.805 - 0.840</p> <p>SOLENOID VALVE:</p> <p>1.SERVICE: AIR 2.TYPE : THREE WAY NORMALLY CLOSED 3.APPLICATION: FOR OPENING/CLOSING OF SHUT-OFF VALVE 4.DIRECT OPERATED: YES 5.BODY SIZE, RATING & CONNECTION: VENDOR TO SPECIFY (See Note-4) 6.ORIFICE SIZE : MAXIMUM 7.BODY MATERIAL: CARBON STEEL 8.TRIM MATERIAL: 316 STAINLESS STEEL 9.ELECTRICAL SUPPLY VOLTAGE: 220 VAC, 50 Hz 10.HAZARDOUS AREA CLASSIFICATION: SUITABLE FOR USE IN CLASS-I, DIVISION-1, GROUP-D 11.ELECTRIC CONNECTION: ½ INCHES NPT 12.EXECUTION: IP-54 13.MOUNTING ACCESSORIES: REQUIRED</p> <p>NOTES:</p> <p>1.VENDOR SHALL SUBMIT DETAILED PRODUCT LITERATURE OF REMOTELY OPERATED BALL VALVE 2.VENDOR SHALL SUBMIT DIMENSIONAL DRAWING OF REMOTELY OPERATED BALL VALVE 3.QUOTED LIMIT SWITCH TO INDICATE THE OPENING & CLOSING POSITION OF BALL VALVE. LIMIT SWITCH SHALL BE HOUSED IN ENCLOSURE SUITABLE FOR INSTALLATION IN HAZARDOUS AREA</p>					



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		<p>CLASSIFIED AS CLASS-I, DIVISION-I, GROUP-D. ONE SWITCH TO INDICATE EXTREME CLOSED POSITION AND THE OTHER SWITCH TO INDICATE THE FULLY OPENED POSITION. SWITCHES TO BE RATED FOR 220VAC, 50 Hz ELECTRICAL SUPPLY.</p> <p>4. SIZE OF QUOTED SOLENOID VALVE SHALL BE ACCORDING TO THE INSTRUMENT AIR REQUIREMENT OF ACTUATOR FOR FULL OPENING OF BALL VALVE.</p>					