

# List of Material

Date: 09/07/2023

RFQ No. : AZR/19/230299

Item	Stock No	Qty	Unit	Description
				PIPE, METALLIC MATERIAL : CARBON STEEL MATERIAL SPEC. : API SPEC 5L GRADE B DIMENSIONAL SPEC. : ASME B36.10 MANUF. PROCESS: SEAMLESS LENGTH: SRL ( SINGLE RANDOM LENGTH 5 - 8 METER ) END PREPARATION: 1 1/2 IN AND SMALLER SQUARE 1 IN AND LARGER BEVELLED WITH 30 DEGREES ANGLE AND 1/16 IN ROOT FACE. SHIPPING : 1 1/2 IN AND SMALLER IN BUNDLES 2 IN AND LARGER LOOSE. INSPECTION, CERTIF. : ISO 10474-3.1B COATING : PIPE NOT TO BE OILED
1	74.13.10.331.1	100	MT	SIZE : 12 IN (300 MM) SCHEUDLE NO. : 40 THICKNESS,WALL : 10.31 MM
2	74.13.10.483.1	40	MT	SIZE: 18 IN.(450 MM) SCH.: 40 THICKNESS,WALL: 14.27 MM
				ELBOWS 90 DEG.,LONG RADIUS , BUTT WELDING  DESIGN. SPEC. : ASME B16.9 DIMENSIONAL SPEC. : ASME B36.10 MATERIAL : CARBON STEEL MAT SPEC. FITTING : ASTM A234 WPB MANUF. PROCESS : SEAMLESS ANGLE : 90 DEG. TYPE : LONG RADIUS INSPECTION,CERTIF : ISO 10474 - 3.1 B
3	76.30.40.605.1	200	EA	NOM. SIZE IN MM 2 50 WALL THICK : 0.154 IN(3.91 MM) CENTRE TO END : 3"(76.2 MM) SCH : 40
4	76.30.40.608.1	100	EA	NOM SIZE : 2 IN (50 MM) WALL THICK : 0.218 IN(5.54 MM) CENTRE TO END : 3 IN(76.2 MM) SCH : 80

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5	76.30.40.625.1	200	EA	NOM SIZE : 3 IN (80 MM) WALL THICK : 0.216 IN(5.49 MM) CENTRE TO END : 4.5 IN(114.3 MM) SCH : 40
6	76.30.40.648.1	50	EA	NOM SIZE: IN: 4 MM: 100 WALL THICK : IN: 0.337 MM: 8.56 CENTER TO END: IN: 7 MM: 152.5 SCH: 80
7	76.30.40.665.1	50	EA	ELBOW, NOM SIZE : 6 IN(150 MM) WALL THICK : 0.280 IN(7.11 MM) CENTER TO END : 9 IN (228.9 MM) SCH : 40
8	76.30.40.705.1	20	EA	NOM SIZE : 10 IN(250 MM) WALL THICK : 0.365 IN(9.22 MM) CENTER TO END : 15 IN(381.0 MM) SCH : 40
9	76.30.40.728.1	20	EA	NOM SIZE IN 12 MM 300 WALL THICK IN 0.406 MM 10.13 CENTER TO END IN 19 MM 457.3 SCH 40
				COUPLING CARBON STEEL, SOCKET - WELDING, SEAMLESS DESIGN, ETC. : ANSI B 16.11 MATERIAL : CARBON STEEL MAT, SPEC : ASTM A 105 CARBON CONTENT : 0.25 % MAX. MANGANESE CONTENT : MAY BE INCREASED TO 1.20% MAX.
10	76.34.28.216.9	100	EA	SIZE CLASS INCH MM ANSI 1 25 3000
11	76.34.28.218.9	100	EA	SIZE CLASS INCH MM ANSI 1 1/2 40 3000

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				<b>HALF COUPLING</b> <b>CARBON STEEL, SOCKET-WELDING</b> <b>DESIGN SPES : ASME B16-11</b> <b>MATERIAL : CARBON STEEL</b> <b>MAT, SPEC : ASTM A 105</b> <b>CARBON CONTENT : 0.25% MAX.</b> <b>MANGANESE CONTENT :</b> <b>MAY BE INCREASED TO 1.20% MAX.</b> <b>NORMALISED &amp; ANNEALED - ASTM A 105 - S9</b>
12	76.34.29.216.9	50	EA	<b>SIZE</b> <b>INCH      MM                  CLASS</b>  <b>1          25                      3000</b>
				<b>ELBOWS, 45 DEG, CARBON STEEL SOCKET WELDING</b> <b>DESIGN AND DIMENSIONS : ANSI B 16.11</b> <b>MATERIAL TO ASTM A 105</b> <b>CLASS : 3000</b> <b>CARBON CONTENT : 0.25% MAX</b> <b>MANGANESE CONTENT : MAY BE INCREASED TO</b> <b>1.20% MAX . NORMALISED AND ANNEALED MARKING</b> <b>TO ASTM A 105 . S9</b>
13	76.34.38.208.9	50	EA	<b>ELBOWS, 45 DEG., CARBON STEEL,</b> <b>NOM. SIZE : 1/2 IN.(15 MM)</b> <b>CLASS : 3000</b>
				<b>ELBOWS,</b> <b>NOM. SIZE : 1 IN.(25 MM)</b> <b>CLASS : 3000</b>
				<b>ELBOWS, 90 DEG. CARBON STEEL, SOCKET WELDING,</b> <b>DESIGN AND DIMENSIONS: ANSI B 16.11</b> <b>MATERIAL TO ASTM A 105</b> <b>CARBON CONTENT : 0.25% MAX.</b> <b>MANGAESE CONTENT : MAY BE INCREASED</b> <b>TO 1.20% MAX. NORMALISED AND ANNEALED, MARKING</b> <b>TO ASTM A 105. S 9</b>
15	76.34.39.212.9	1000	EA	<b>NOM.</b> <b>SIZE : 3/4 IN.(20 MM)</b> <b>CLASS : 3000</b>
16	76.34.39.216.9	1000	EA	<b>NOM. SIZE : 1 IN.(25 MM)</b> <b>CLASS : 3000</b>

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Item	Stock No	Qty	Unit	Description
17	76.34.39.218.9	500	EA	ELBOWS,90 DEG. NOM. SIZE : 1 1/2 IN.(40 MM) CLASS : 3000
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				TEES,PIPE,EQUAL,SOCKET-WELDING DESIGN SPEC. : ASME B16.11 MATERIAL : CARBON STEEL MAT SPEC,FITTING: ASTM A 105 MANUFACTURING PROCESS : SEAMLESS CARBON CONTENT : 0.25% MAX. MANGANESE CONTENT : MAY BE INCREASED TO 1.20% MAX. PRESSURE DESIGNATION : 3000 ASME CL HEAT TREATMENT - NORMALIZED AND ANNEALED - MARKING TO ASTM A 105 - S9
18	76.34.84.208.9	150	EA	SIZE IN MM 1/2 15
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19	76.34.84.212.9	150	EA	SIZE IN MM 3/4 20
				-----
20	76.34.84.216.9	150	EA	SIZE IN MM 1 25
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				UNIONS, SOCKET - WELDING, PIPE DESIGN SPEC. : BS 3799 MATERIAL : CARBON STEEL MATERIAL SPEC. FITTING : ASTM A 105 PRESSURE DESIGNATION : 3000 INSPECTION, CERT. : ISO 10474 - 3. 1 B
21	76.34.91.208.9	30	EA	NOM. SIZE : 1/2 IN.(15 MM)
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				FLANGES,SOCKET WELDING,CARBON STEEL, RAISED FACE,SERRATED SPIRAL FINISH DESIGN AND DIMENSIONS TO ANSI B 16.5 BORE SUITABLE FOR WELDING THE FLANGES TO PIPE SCHEDULED TO ANSI B 36.10 MATERIAL TO ASTM A 105, NORMALIZED/ANNEALED MAXIMUM CARBON CONTENT 0.25% MANGANESE CONTENT MAY BE INCREASED TO 1.20% MAXIMUM MARKING TO ASTM A 105-S 9

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Item	Stock No	Qty	Unit	Description
22	76.62.70.068.9	10	EA	NOM. SIZE : 1 1/2 IN.(40 MM) CLASS : 150 BORE TO SCH. : 80
23	76.62.70.268.9	20	EA	NOM. SIZE : 1 1/2 IN.(40 MM) CLASS : 600 BORE TO SCH. : 80
				----- FLANGES ,PIPE, WELDING NECK DESIGN SPEC. : ASME B 16.5 DIMENSIONAL SPEC. PIPE : ASME B 36.10 MAT. : CARBON STEEL MAT, SPEC. : ASTM A 105 FACING FLANGE : RAISED FACE FINISH, FLANGE FACING : SERRATED SPIRAL PRESSURE DESIGNATION : 150 ASME CL INSPECTION, CERT. : ISO 10474 - 3.1B
24	76.62.79.310.9	50	EA	SIZE : 2 IN.(50 MM) SCHEDULE NUMBER,HUB : 40
25	76.62.79.318.9	20	EA	SIZE : 8 IN.(200 MM) SCHEDULE : 40
26	76.62.79.360.9	10	EA	SIZE : 2 INCH(50 MM) SCHEDULE NUMBER,HUB : 80
27	76.62.79.364.9	20	EA	SIZE : 4 INCH(100 MM) SCHEDULE NUMBER,HUB : 80
28	76.62.79.366.9	10	EA	SIZE : 6 INCH(150 MM) SCHEDULE NUMBER,HUB : 80
				----- FLANGES,PIPE, WELDING NECK DESING SPEC. : ASME B 16.5 DIMENSIONAL SPEC, PIPE : ASME B36.10 MAT : CARBON STEEL MAT, SPEC. : ASTM A 105 FACING, FLANGE : RAISED FACE FINISH, FLANGE FACING : SERRATED SPIRAL PRESSURE DESIGNATION : 300ASME CL INSPECTION, CERT. : ISO 10474-3.1B
29	76.62.79.610.9	10	EA	NOM. SIZE : 2 IN.(50 MM) SCHD : 80

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30	76.62.79.614.9	10	EA	<p>FLANGE,WN  NOM. SIZE : 4 IN.(100 MM)  SCHD : 80</p> <hr/> <p>VALVES, BALL, BS, SOFT SEATED, THREADED <input type="checkbox"/>  <input type="checkbox"/>  DESIGN SPEC.:BS 5351 <input type="checkbox"/>  CONSTRUCTION, BODY:ONE-PIECE <input type="checkbox"/>  CONSTRUCTION, BALL:SEAT SUPPORTED <input type="checkbox"/>  TYPE OF BORE:REDUCED <input type="checkbox"/>  <input type="checkbox"/>  END CONNECTION(S):NPT, FEMALE <input type="checkbox"/>  <input type="checkbox"/>  MATERIAL, BODY:CARBON STEEL <input type="checkbox"/>  MATERIAL, TRIM:STAINLESS STEEL 316L <input type="checkbox"/>  STAINLESS STEEL 316 <input type="checkbox"/>  MAT. SPEC,BODY &amp; INSERT/CONN:ASTM A105 NORMALISED <input type="checkbox"/>  ASTM A216 GRADE WCB <input type="checkbox"/>  ASTM A216 GRADE WCC <input type="checkbox"/>  MAT. SPEC, BALL:ASTM A276 TYPE 316 <input type="checkbox"/>  ASTM A351 - CF8M <input type="checkbox"/>  ASTM A276 TYPE 316L <input type="checkbox"/>  ASTM A182 GRADE F 316L <input type="checkbox"/>  ASTM A351 - CF3M <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  CONTD..<input type="checkbox"/>  MAT. SPEC. GLAND:ASTM A276 TYPE 316L <input type="checkbox"/>  ASTM A351 - CF8M <input type="checkbox"/>  ASTM A351 - CF3M <input type="checkbox"/>  ASTM A182 GRADE F 316 <input type="checkbox"/>  ASTM A182 GRADE F 316L <input type="checkbox"/>  ASTM A276 TYPE 316 <input type="checkbox"/>  MAT. SPEC, STEM:ASTM A182 GRADE F 316 <input type="checkbox"/>  ASTM A182 GRADE F 316L <input type="checkbox"/>  ASTM A276 TYPE 316 <input type="checkbox"/>  ASTM A276 TYPE 316L <input type="checkbox"/>  MATERIAL, SEAT RINGS:PTFE (VIRGIN/REINFORCED) <input type="checkbox"/>  MAT, PRIMARY SEAL, BODY INSERT:PTFE (VIRGIN/REINFORCED) <input type="checkbox"/>  TYPE OF GASKET, BODY INSERT:METAL/METAL <input type="checkbox"/>  GRAPHITE <input type="checkbox"/>  MAT,PACKING, STEM, GLAND:GRAPITE / PTFE <input type="checkbox"/>  GRAPHITE <input type="checkbox"/>  PTFE <input type="checkbox"/>  <input type="checkbox"/>  PRESSURE DESIGNATION:800</p>
31	77.01.00.003.1	30	EA	<p>SIZE  DN  MM IN  15 1/2</p> <hr/>

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32	77.01.00.004.1	20	EA	VALVES, BALL, BS,THREADED SIZE DN: 20MM , 3/4IN  ----- VALVES,BUTTERFLY,WAFER TYPE DESIGN SPEC : BS 5155 DESIGN SPEC,END FLANGES : ASME B16.5 DESIGN SPEC,FACE TO FACE DIM : BS 5155 SERIES 4 PRESSURE DESIGNATION : 150 SEAT,DESIGN : SOFT SEATED FACING,FLANGE : RAISED FACE MAT,BODY : CARBON STEEL MAT,TREM : ALUMINUM BRONZE/EPDM MAT,SHAFT : ALUMINIUM BRONZE MONEL K500 MAT,DODY SEATS : EPDM MAT SPEC,BODY : ASTM A216 GRADE WCB / WCC MAT SPEC,DISC (S) : ASTM B148-UNS C95800
33	77.09.00.014.9	4	EA	NOMINAL SIZE : 6" (150 MM) FACE TO FACE : 56 MM OPERATING MECHANISM : LEVER  ----- CHECK VALVE CARBON STEEL CLASS_800 SWING TYPE SOCKET WELD STAINLESS STEEL TRIM ASTM A 182 GR F 316 BODY & BONNET ASTM A 105 /A216 WCB MAXIMUM CARBON CONTENT 0.25% DISC SEAT&HINGE TO 316 COVER BOLTS TO A193_B7& A194_2H MFG : CERTIFICATES OF CONFORMITY REQUIRED CHECKVALVE C.S . SWING TYPE CLASS 800 S.W.
34	77.11.04.504.9	20	EA	NOM - SIZE IN MM 3/4 20  -----

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				<p>VALVES, GATE, WEDGE TYPE, BOLTED BONNET, FLANGED □  DESIGN SPEC.:BS 1414 □  DESIGN SPEC, END FLANGES:ASME B16.5 □  PRESSURE DESIGNATION:150 ASME CL □  TYPE OF WEDGE:FLEXIBLE □  TYPE OF STEM:OUTSIDE SCREW □  TYPE OF BONNET:BOLTED □  TYPE OF BORE:STANDARD □  TYPE OF BACK SEAT:SEPARATE □  TYPE OF GASKET, BONNET:GRAPHITE TANGED INSERT □  □ SPIRAL WOUND □  FACING, FLANGE :RAISED FACE □  FINISH, FLANGE FACING :SMOOTH □  SPEC. TREATM, : AISI 316 OVERLAY □  BODY SEAT FACING □ AISI 316L OVERLAY □  □ STELLITE OVERLAY □  SPEC.TREATM, : AISI 316L OVERLAY □  WEDGE SEAT FACING STELLITE OVERLAY □  □ AISI 316 OVERLAY □  MAT, BODY &amp; BONNET :CARBON STEEL □  MAT, TRIM :STAINLESS STEEL 316 □  □ STAINLESS STEEL 316L □  MAT, GASKET SPW, FILLER :GRAPHITE □  MAT,PKG,STEM,INTERMD.RINGS □  :PREFORM.COMPRESS.FLEX.GRAPHITE □  MAT, PKG, STEM, TOP/BOTT RINGS :CARBON YARN □  MAT.SPEC, BODY &amp; BONNET:ASTM A216 GRADE WCC □  □ ASTM A216 GRADE WCB □  □ ASTM A105 NORMALISED □  MATERIAL SPEC., STEM:ASTM A182 GRADE F 316 □  □ ASTM A182 GRADE F 316L □  MAT. SPEC., GLAND FOLLOWER :AISI 316 L □  □ AISI 316 □  MAT.SPEC,WEDGE &amp; BODY SEATS:ASTM A216 GRADE WCC □  □ AISI 316 L □  □ AISI 316 □  □ ASTM A105 NORMALISED □  □ ASTM A216 GRADE WCB □  MAT.SPEC, BACK SEAT,SEPARATE:ASTM A216 GRADE WCB □  □ ASTM A105 NORMALISED □  □ AISI 316 □  □ AISI 316L □  □ ASTM A216 GRADE WCC □  MAT.SPEC, GASKET SPW, WINDINGS:ASTM A240 TYPE 316 □  □ ASTM A240 TYPE 316L □  MAT. SPEC, BOLT(S) &amp; NUT(S):ASTM A193 GRADE B7 □  □ ASTM A194 GRADE 2H</p>
35	77.20.00.014.1	2	EA	<p>VALVE,GATE,  SIZE:6"(150MM)  FACE TO FACE : 267MM</p>
36	77.20.00.018.1	1	EA	<p>VALVE,GATE,WT,  SIZE:14"(350MM)  FACE TO FACE : 381 MM</p>

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				<p>GATE VALVES BS 5352 BODY CS            SOCKET WELD TRIM 13 CR BOLTED BONNET            CLASS: 800            DESIGN DIMENSIONS            AND MARKING : BS5352            BONNET : BOLTED            STEM : OUTSIDE SCREW            WEDGE :SOLID            BORE :REDUCED            END CONNECTION : SOCKET WELD            MATERIAL SPECIFICATION            BODY BONNET : ASTM A105-NORMALIZED OR            ASTM A216-WCB/WCC            STEM : ASTM A182-F6A            GLAND (FOLLOWER) : AISI 410 OR BODY MAT,L            WEDGE AND BODY SEATS : AISI 410 OR STELLITE            BACK SEAT : INTEGRAL OR SEPARATE            BONNET GASKET : SP WND ASTM A240 -316 (L)            OR A240 - 304 (L)            -ASBESTOS OR GRAPHITE FILLER            STEM PACKING : BRAIDED ASBESTOS            GRAPHITE IMPREGNATED OR            FLEXIBLE GRAPHITE            BOLTING            -BONNET , GLAND : ASTM A193-B7/A194-2H            MAT SPEC,GLAND FOLLOWER : AISI 410            MAT SPEC,WEDGE &amp; BODY SEATS : AISI 410            STELLITE            MAT SPEC,GASKET SPW,WINDINGS : ASTM A 240 TYPE 316 L            ASTM A 240 TYPE 316            MAT SPEC,BOLT (S) &amp; NUT (S) : ASTM A 193 GRADE B7            ASTM A 194 GRADE 2H</p>
37	77.21.07.003.3	200	EA	<p>SIZE            IN DN            1/2 15</p>
38	77.21.07.004.1	300	EA	<p>SIZE:            IN DN            3/4 20</p>
39	77.21.07.008.1	10	EA	<p>VALVE,GW,BB,SW,800 CL,CS            SIZE: 2"(50DN)</p>

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				<b>GLOBE VALVE CARBON STEEL 13 CR TRIM CLASS 800, SOCKET WELD FULL BORE DESIGN DIMENSION &amp; MARKING TO BS 2995 BOLTED BONNET PLUG TYPE DISK BODY, BONNET, YOKE &amp; GLAND ASTM A105 NORMALISED/ANNEALED MAX CARBON CONTENT 0.25% MANGANESE CONTENT MAY BE INCREASED TO 1.20% MAXIMUM TO BE MARKED ACCORDING TO SUPPLEMENTARY REQUIREMENT A105-S9 STEM, DISK, BODY SEAT RINGS: 13CR (AISI 410, 416 OR 416SE) BOLTING ASTM A193-B7 &amp; A194-2H BONNET GASKET CORRUGATED SOFT STEEL MFG. CERTIFICATE OF CONFORMITY REQUIRED GLOBE VALVE C.S. CLASS 800 S.W.</b>
<b>40</b>	77.31.03.503.9	<b>40</b>	<b>EA</b>	<b>NOM SIZE (DN) IN      MM 1/2     15</b>
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<b>41</b>	77.31.03.504.9	<b>100</b>	<b>EA</b>	<b>NOM SIZE (DN) IN      MM 3/4     20</b>
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